

Robert Clark Associates		Page 1
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G1	
Date 17.9.18 File G1.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 155 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.158	0.408	0.1	1.2	0 K
30 min Summer	9.278	0.528	0.1	1.5	0 K
60 min Summer	9.382	0.632	0.1	1.8	0 K
120 min Summer	9.435	0.685	0.1	2.0	0 K
180 min Summer	9.442	0.692	0.1	2.0	0 K
240 min Summer	9.435	0.685	0.1	2.0	0 K
360 min Summer	9.412	0.662	0.1	1.9	0 K
480 min Summer	9.383	0.633	0.1	1.8	0 K
600 min Summer	9.354	0.604	0.1	1.7	0 K
720 min Summer	9.325	0.575	0.1	1.6	0 K
960 min Summer	9.273	0.523	0.1	1.5	0 K
1440 min Summer	9.184	0.434	0.1	1.2	0 K
2160 min Summer	9.081	0.331	0.1	0.9	0 K
2880 min Summer	9.004	0.254	0.1	0.7	0 K
4320 min Summer	8.898	0.148	0.1	0.4	0 K
5760 min Summer	8.834	0.084	0.1	0.2	0 K
7200 min Summer	8.801	0.051	0.1	0.1	0 K
8640 min Summer	8.794	0.044	0.1	0.1	0 K
10080 min Summer	8.789	0.039	0.0	0.1	0 K
15 min Winter	9.209	0.459	0.1	1.3	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	32
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	108
180 min Summer	25.973	0.0	138
240 min Summer	20.877	0.0	172
360 min Summer	15.365	0.0	240
480 min Summer	12.341	0.0	310
600 min Summer	10.402	0.0	380
720 min Summer	9.042	0.0	448
960 min Summer	7.241	0.0	578
1440 min Summer	5.284	0.0	838
2160 min Summer	3.848	0.0	1212
2880 min Summer	3.068	0.0	1584
4320 min Summer	2.226	0.0	2292
5760 min Summer	1.771	0.0	3000
7200 min Summer	1.483	0.0	3672
8640 min Summer	1.284	0.0	4400
10080 min Summer	1.137	0.0	5120
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G1	
Date 17.9.18 File G1.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.347	0.597	0.1	1.7	0 K
60 min Winter	9.467	0.717	0.1	2.0	0 K
120 min Winter	9.536	0.786	0.2	2.2	0 K
180 min Winter	9.539	0.789	0.2	2.2	0 K
240 min Winter	9.529	0.779	0.2	2.2	0 K
360 min Winter	9.494	0.744	0.1	2.1	0 K
480 min Winter	9.450	0.700	0.1	2.0	0 K
600 min Winter	9.406	0.656	0.1	1.9	0 K
720 min Winter	9.365	0.615	0.1	1.8	0 K
960 min Winter	9.289	0.539	0.1	1.5	0 K
1440 min Winter	9.165	0.415	0.1	1.2	0 K
2160 min Winter	9.032	0.282	0.1	0.8	0 K
2880 min Winter	8.938	0.188	0.1	0.5	0 K
4320 min Winter	8.821	0.071	0.1	0.2	0 K
5760 min Winter	8.794	0.044	0.1	0.1	0 K
7200 min Winter	8.787	0.037	0.0	0.1	0 K
8640 min Winter	8.782	0.032	0.0	0.1	0 K
10080 min Winter	8.778	0.028	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	114
180 min Winter	25.973	0.0	144
240 min Winter	20.877	0.0	182
360 min Winter	15.365	0.0	260
480 min Winter	12.341	0.0	334
600 min Winter	10.402	0.0	408
720 min Winter	9.042	0.0	478
960 min Winter	7.241	0.0	616
1440 min Winter	5.284	0.0	882
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1640
4320 min Winter	2.226	0.0	2296
5760 min Winter	1.771	0.0	2936
7200 min Winter	1.483	0.0	3632
8640 min Winter	1.284	0.0	4408
10080 min Winter	1.137	0.0	5032

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G1																															
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G1	
Date 17.9.18 File G1.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.250

Cellular Storage Structure

Invert Level (m)	8.750
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.0	3.0	0.900	0.0	8.6
0.800	3.0	8.6			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G2	
Date 17.9.18 File G2.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 163 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.222	0.367	0.1	1.4	0 K
30 min Summer	9.331	0.476	0.1	1.8	0 K
60 min Summer	9.425	0.570	0.2	2.2	0 K
120 min Summer	9.475	0.620	0.2	2.4	0 K
180 min Summer	9.480	0.625	0.2	2.4	0 K
240 min Summer	9.473	0.618	0.2	2.3	0 K
360 min Summer	9.452	0.597	0.2	2.3	0 K
480 min Summer	9.425	0.570	0.2	2.2	0 K
600 min Summer	9.399	0.544	0.1	2.1	0 K
720 min Summer	9.373	0.518	0.1	2.0	0 K
960 min Summer	9.325	0.470	0.1	1.8	0 K
1440 min Summer	9.242	0.387	0.1	1.5	0 K
2160 min Summer	9.144	0.289	0.1	1.1	0 K
2880 min Summer	9.071	0.216	0.1	0.8	0 K
4320 min Summer	8.973	0.118	0.1	0.4	0 K
5760 min Summer	8.918	0.063	0.1	0.2	0 K
7200 min Summer	8.901	0.046	0.1	0.2	0 K
8640 min Summer	8.895	0.040	0.1	0.2	0 K
10080 min Summer	8.891	0.036	0.1	0.1	0 K
15 min Winter	9.268	0.413	0.1	1.6	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	32
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	112
180 min Summer	25.973	0.0	142
240 min Summer	20.877	0.0	174
360 min Summer	15.365	0.0	244
480 min Summer	12.341	0.0	312
600 min Summer	10.402	0.0	380
720 min Summer	9.042	0.0	448
960 min Summer	7.241	0.0	580
1440 min Summer	5.284	0.0	838
2160 min Summer	3.848	0.0	1212
2880 min Summer	3.068	0.0	1584
4320 min Summer	2.226	0.0	2292
5760 min Summer	1.771	0.0	2944
7200 min Summer	1.483	0.0	3672
8640 min Summer	1.284	0.0	4360
10080 min Summer	1.137	0.0	5120
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G2	
Date 17.9.18 File G2.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.392	0.537	0.1	2.0	0 K
60 min Winter	9.502	0.647	0.2	2.5	0 K
120 min Winter	9.567	0.712	0.2	2.7	0 K
180 min Winter	9.569	0.714	0.2	2.7	0 K
240 min Winter	9.560	0.705	0.2	2.7	0 K
360 min Winter	9.529	0.674	0.2	2.6	0 K
480 min Winter	9.490	0.635	0.2	2.4	0 K
600 min Winter	9.450	0.595	0.2	2.3	0 K
720 min Winter	9.411	0.556	0.2	2.1	0 K
960 min Winter	9.341	0.486	0.1	1.8	0 K
1440 min Winter	9.224	0.369	0.1	1.4	0 K
2160 min Winter	9.096	0.241	0.1	0.9	0 K
2880 min Winter	9.005	0.150	0.1	0.6	0 K
4320 min Winter	8.905	0.050	0.1	0.2	0 K
5760 min Winter	8.895	0.040	0.1	0.2	0 K
7200 min Winter	8.889	0.034	0.1	0.1	0 K
8640 min Winter	8.884	0.029	0.0	0.1	0 K
10080 min Winter	8.881	0.026	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	146
240 min Winter	20.877	0.0	184
360 min Winter	15.365	0.0	262
480 min Winter	12.341	0.0	338
600 min Winter	10.402	0.0	410
720 min Winter	9.042	0.0	482
960 min Winter	7.241	0.0	624
1440 min Winter	5.284	0.0	892
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1640
4320 min Winter	2.226	0.0	2204
5760 min Winter	1.771	0.0	2920
7200 min Winter	1.483	0.0	3640
8640 min Winter	1.284	0.0	4344
10080 min Winter	1.137	0.0	4984

Robert Clark Associates		Page 3																																
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G2																																	
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0	4	0.006																																
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G2	
Date 17.9.18 File G2.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.300

Cellular Storage Structure

Invert Level (m)	8.855
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	4.0	4.0	0.900	0.0	10.4
0.800	4.0	10.4			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G3	
Date 17.9.18 File G3.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 155 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.463	0.408	0.1	1.2	0 K
30 min Summer	9.583	0.528	0.1	1.5	0 K
60 min Summer	9.687	0.632	0.1	1.8	0 K
120 min Summer	9.740	0.685	0.1	2.0	0 K
180 min Summer	9.747	0.692	0.1	2.0	0 K
240 min Summer	9.740	0.685	0.1	2.0	0 K
360 min Summer	9.717	0.662	0.1	1.9	0 K
480 min Summer	9.688	0.633	0.1	1.8	0 K
600 min Summer	9.659	0.604	0.1	1.7	0 K
720 min Summer	9.630	0.575	0.1	1.6	0 K
960 min Summer	9.578	0.523	0.1	1.5	0 K
1440 min Summer	9.489	0.434	0.1	1.2	0 K
2160 min Summer	9.386	0.331	0.1	0.9	0 K
2880 min Summer	9.309	0.254	0.1	0.7	0 K
4320 min Summer	9.203	0.148	0.1	0.4	0 K
5760 min Summer	9.139	0.084	0.1	0.2	0 K
7200 min Summer	9.106	0.051	0.1	0.1	0 K
8640 min Summer	9.099	0.044	0.1	0.1	0 K
10080 min Summer	9.094	0.039	0.0	0.1	0 K
15 min Winter	9.514	0.459	0.1	1.3	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	32
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	108
180 min Summer	25.973	0.0	138
240 min Summer	20.877	0.0	172
360 min Summer	15.365	0.0	240
480 min Summer	12.341	0.0	310
600 min Summer	10.402	0.0	380
720 min Summer	9.042	0.0	448
960 min Summer	7.241	0.0	578
1440 min Summer	5.284	0.0	838
2160 min Summer	3.848	0.0	1212
2880 min Summer	3.068	0.0	1584
4320 min Summer	2.226	0.0	2292
5760 min Summer	1.771	0.0	3000
7200 min Summer	1.483	0.0	3672
8640 min Summer	1.284	0.0	4400
10080 min Summer	1.137	0.0	5120
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G3	
Date 17.9.18 File G3.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.652	0.597	0.1	1.7	0 K
60 min Winter	9.772	0.717	0.1	2.0	0 K
120 min Winter	9.841	0.786	0.2	2.2	0 K
180 min Winter	9.844	0.789	0.2	2.2	0 K
240 min Winter	9.834	0.779	0.2	2.2	0 K
360 min Winter	9.799	0.744	0.1	2.1	0 K
480 min Winter	9.755	0.700	0.1	2.0	0 K
600 min Winter	9.711	0.656	0.1	1.9	0 K
720 min Winter	9.670	0.615	0.1	1.8	0 K
960 min Winter	9.594	0.539	0.1	1.5	0 K
1440 min Winter	9.470	0.415	0.1	1.2	0 K
2160 min Winter	9.337	0.282	0.1	0.8	0 K
2880 min Winter	9.243	0.188	0.1	0.5	0 K
4320 min Winter	9.126	0.071	0.1	0.2	0 K
5760 min Winter	9.099	0.044	0.1	0.1	0 K
7200 min Winter	9.092	0.037	0.0	0.1	0 K
8640 min Winter	9.087	0.032	0.0	0.1	0 K
10080 min Winter	9.083	0.028	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	114
180 min Winter	25.973	0.0	144
240 min Winter	20.877	0.0	182
360 min Winter	15.365	0.0	260
480 min Winter	12.341	0.0	334
600 min Winter	10.402	0.0	408
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1440 min Winter	5.284	0.0	882
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1640
4320 min Winter	2.226	0.0	2296
5760 min Winter	1.771	0.0	2936
7200 min Winter	1.483	0.0	3632
8640 min Winter	1.284	0.0	4408
10080 min Winter	1.137	0.0	5032

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Rainfall Model	FSR	Winter Storms	Yes																															
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From:	To:																																	
0	4	0.005																																
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G3	
Date 17.9.18 File G3.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.500

Cellular Storage Structure

Invert Level (m)	9.055
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.0	3.0	0.900	0.0	8.6
0.800	3.0	8.6			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G4	
Date 17.9.18 File G4.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 167 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.387	0.342	0.1	1.6	0 K
30 min Summer	9.489	0.444	0.2	2.1	0 K
60 min Summer	9.577	0.532	0.2	2.5	0 K
120 min Summer	9.624	0.579	0.2	2.8	0 K
180 min Summer	9.629	0.584	0.2	2.8	0 K
240 min Summer	9.622	0.577	0.2	2.7	0 K
360 min Summer	9.601	0.556	0.2	2.6	0 K
480 min Summer	9.576	0.531	0.2	2.5	0 K
600 min Summer	9.552	0.507	0.2	2.4	0 K
720 min Summer	9.527	0.482	0.2	2.3	0 K
960 min Summer	9.481	0.436	0.2	2.1	0 K
1440 min Summer	9.401	0.356	0.1	1.7	0 K
2160 min Summer	9.307	0.262	0.1	1.2	0 K
2880 min Summer	9.237	0.192	0.1	0.9	0 K
4320 min Summer	9.144	0.099	0.1	0.5	0 K
5760 min Summer	9.099	0.054	0.1	0.3	0 K
7200 min Summer	9.089	0.044	0.1	0.2	0 K
8640 min Summer	9.083	0.038	0.1	0.2	0 K
10080 min Summer	9.079	0.034	0.1	0.2	0 K
15 min Winter	9.430	0.385	0.2	1.8	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	33
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	114
180 min Summer	25.973	0.0	142
240 min Summer	20.877	0.0	174
360 min Summer	15.365	0.0	244
480 min Summer	12.341	0.0	314
600 min Summer	10.402	0.0	382
720 min Summer	9.042	0.0	450
960 min Summer	7.241	0.0	586
1440 min Summer	5.284	0.0	840
2160 min Summer	3.848	0.0	1212
2880 min Summer	3.068	0.0	1584
4320 min Summer	2.226	0.0	2288
5760 min Summer	1.771	0.0	2944
7200 min Summer	1.483	0.0	3648
8640 min Summer	1.284	0.0	4400
10080 min Summer	1.137	0.0	5136
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G4	
Date 17.9.18 File G4.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.547	0.502	0.2	2.4	0 K
60 min Winter	9.650	0.605	0.2	2.9	0 K
120 min Winter	9.711	0.666	0.2	3.2	0 K
180 min Winter	9.713	0.668	0.2	3.2	0 K
240 min Winter	9.704	0.659	0.2	3.1	0 K
360 min Winter	9.675	0.630	0.2	3.0	0 K
480 min Winter	9.638	0.593	0.2	2.8	0 K
600 min Winter	9.600	0.555	0.2	2.6	0 K
720 min Winter	9.564	0.519	0.2	2.5	0 K
960 min Winter	9.496	0.451	0.2	2.1	0 K
1440 min Winter	9.383	0.338	0.1	1.6	0 K
2160 min Winter	9.258	0.213	0.1	1.0	0 K
2880 min Winter	9.171	0.126	0.1	0.6	0 K
4320 min Winter	9.092	0.047	0.1	0.2	0 K
5760 min Winter	9.083	0.038	0.1	0.2	0 K
7200 min Winter	9.077	0.032	0.1	0.1	0 K
8640 min Winter	9.072	0.027	0.1	0.1	0 K
10080 min Winter	9.069	0.024	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	148
240 min Winter	20.877	0.0	186
360 min Winter	15.365	0.0	262
480 min Winter	12.341	0.0	338
600 min Winter	10.402	0.0	412
720 min Winter	9.042	0.0	484
960 min Winter	7.241	0.0	624
1440 min Winter	5.284	0.0	894
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1616
4320 min Winter	2.226	0.0	2204
5760 min Winter	1.771	0.0	2880
7200 min Winter	1.483	0.0	3608
8640 min Winter	1.284	0.0	4408
10080 min Winter	1.137	0.0	5048

Robert Clark Associates		Page 3																																	
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G4																																		
Date 17.9.18 File G4.SRCX	Designed by RTFC Checked by																																		
Micro Drainage																																			
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0	4	0.007																																	
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G4	
Date 17.9.18 File G4.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.300

Cellular Storage Structure

Invert Level (m)	9.045
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.0	5.0	0.900	0.0	12.2
0.800	5.0	12.2			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G5	
Date 17.9.18 File G5.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 167 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.387	0.342	0.1	1.6	0 K
30 min Summer	9.489	0.444	0.2	2.1	0 K
60 min Summer	9.577	0.532	0.2	2.5	0 K
120 min Summer	9.624	0.579	0.2	2.8	0 K
180 min Summer	9.629	0.584	0.2	2.8	0 K
240 min Summer	9.622	0.577	0.2	2.7	0 K
360 min Summer	9.601	0.556	0.2	2.6	0 K
480 min Summer	9.576	0.531	0.2	2.5	0 K
600 min Summer	9.552	0.507	0.2	2.4	0 K
720 min Summer	9.527	0.482	0.2	2.3	0 K
960 min Summer	9.481	0.436	0.2	2.1	0 K
1440 min Summer	9.401	0.356	0.1	1.7	0 K
2160 min Summer	9.307	0.262	0.1	1.2	0 K
2880 min Summer	9.237	0.192	0.1	0.9	0 K
4320 min Summer	9.144	0.099	0.1	0.5	0 K
5760 min Summer	9.099	0.054	0.1	0.3	0 K
7200 min Summer	9.089	0.044	0.1	0.2	0 K
8640 min Summer	9.083	0.038	0.1	0.2	0 K
10080 min Summer	9.079	0.034	0.1	0.2	0 K
15 min Winter	9.430	0.385	0.2	1.8	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	33
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	114
180 min Summer	25.973	0.0	142
240 min Summer	20.877	0.0	174
360 min Summer	15.365	0.0	244
480 min Summer	12.341	0.0	314
600 min Summer	10.402	0.0	382
720 min Summer	9.042	0.0	450
960 min Summer	7.241	0.0	586
1440 min Summer	5.284	0.0	840
2160 min Summer	3.848	0.0	1212
2880 min Summer	3.068	0.0	1584
4320 min Summer	2.226	0.0	2288
5760 min Summer	1.771	0.0	2944
7200 min Summer	1.483	0.0	3648
8640 min Summer	1.284	0.0	4400
10080 min Summer	1.137	0.0	5136
15 min Winter	131.851	0.0	18

Robert Clark Associates		Page 2
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G5	
Date 17.9.18 File G5.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.547	0.502	0.2	2.4	0 K
60 min Winter	9.650	0.605	0.2	2.9	0 K
120 min Winter	9.711	0.666	0.2	3.2	0 K
180 min Winter	9.713	0.668	0.2	3.2	0 K
240 min Winter	9.704	0.659	0.2	3.1	0 K
360 min Winter	9.675	0.630	0.2	3.0	0 K
480 min Winter	9.638	0.593	0.2	2.8	0 K
600 min Winter	9.600	0.555	0.2	2.6	0 K
720 min Winter	9.564	0.519	0.2	2.5	0 K
960 min Winter	9.496	0.451	0.2	2.1	0 K
1440 min Winter	9.383	0.338	0.1	1.6	0 K
2160 min Winter	9.258	0.213	0.1	1.0	0 K
2880 min Winter	9.171	0.126	0.1	0.6	0 K
4320 min Winter	9.092	0.047	0.1	0.2	0 K
5760 min Winter	9.083	0.038	0.1	0.2	0 K
7200 min Winter	9.077	0.032	0.1	0.1	0 K
8640 min Winter	9.072	0.027	0.1	0.1	0 K
10080 min Winter	9.069	0.024	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	148
240 min Winter	20.877	0.0	186
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5760 min Winter	1.771	0.0	2880
7200 min Winter	1.483	0.0	3608
8640 min Winter	1.284	0.0	4408
10080 min Winter	1.137	0.0	5048

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G5																																		
Date 17.9.18 File G5.SRCX	Designed by RTFC Checked by																																		
Micro Drainage																																			
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0	4	0.007																																	
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G5	
Date 17.9.18 File G5.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.350

Cellular Storage Structure

Invert Level (m)	9.045
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.0	5.0	0.900	0.0	12.2
0.800	5.0	12.2			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G6	
Date 17.9.18 File G6.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 170 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.413	0.368	0.2	2.1	0 K
30 min Summer	9.524	0.479	0.2	2.7	0 K
60 min Summer	9.621	0.576	0.2	3.3	0 K
120 min Summer	9.677	0.632	0.2	3.6	0 K
180 min Summer	9.683	0.638	0.2	3.6	0 K
240 min Summer	9.677	0.632	0.2	3.6	0 K
360 min Summer	9.657	0.612	0.2	3.5	0 K
480 min Summer	9.633	0.588	0.2	3.3	0 K
600 min Summer	9.607	0.562	0.2	3.2	0 K
720 min Summer	9.582	0.537	0.2	3.1	0 K
960 min Summer	9.535	0.490	0.2	2.8	0 K
1440 min Summer	9.452	0.407	0.2	2.3	0 K
2160 min Summer	9.351	0.306	0.2	1.7	0 K
2880 min Summer	9.275	0.230	0.1	1.3	0 K
4320 min Summer	9.170	0.125	0.1	0.7	0 K
5760 min Summer	9.111	0.066	0.1	0.4	0 K
7200 min Summer	9.092	0.047	0.1	0.3	0 K
8640 min Summer	9.086	0.041	0.1	0.2	0 K
10080 min Summer	9.081	0.036	0.1	0.2	0 K
15 min Winter	9.459	0.414	0.2	2.4	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	33
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	118
180 min Summer	25.973	0.0	146
240 min Summer	20.877	0.0	178
360 min Summer	15.365	0.0	246
480 min Summer	12.341	0.0	316
600 min Summer	10.402	0.0	386
720 min Summer	9.042	0.0	454
960 min Summer	7.241	0.0	588
1440 min Summer	5.284	0.0	852
2160 min Summer	3.848	0.0	1232
2880 min Summer	3.068	0.0	1588
4320 min Summer	2.226	0.0	2292
5760 min Summer	1.771	0.0	2992
7200 min Summer	1.483	0.0	3672
8640 min Summer	1.284	0.0	4400
10080 min Summer	1.137	0.0	5120
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G6	
Date 17.9.18 File G6.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.586	0.541	0.2	3.1	0 K
60 min Winter	9.699	0.654	0.2	3.7	0 K
120 min Winter	9.771	0.726	0.2	4.1	0 K
180 min Winter	9.776	0.731	0.2	4.2	0 K
240 min Winter	9.769	0.724	0.2	4.1	0 K
360 min Winter	9.741	0.696	0.2	4.0	0 K
480 min Winter	9.705	0.660	0.2	3.8	0 K
600 min Winter	9.666	0.621	0.2	3.5	0 K
720 min Winter	9.629	0.584	0.2	3.3	0 K
960 min Winter	9.559	0.514	0.2	2.9	0 K
1440 min Winter	9.440	0.395	0.2	2.3	0 K
2160 min Winter	9.305	0.260	0.2	1.5	0 K
2880 min Winter	9.208	0.163	0.1	0.9	0 K
4320 min Winter	9.097	0.052	0.1	0.3	0 K
5760 min Winter	9.086	0.041	0.1	0.2	0 K
7200 min Winter	9.079	0.034	0.1	0.2	0 K
8640 min Winter	9.075	0.030	0.1	0.2	0 K
10080 min Winter	9.071	0.026	0.1	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	166
240 min Winter	20.877	0.0	188
360 min Winter	15.365	0.0	266
480 min Winter	12.341	0.0	342
600 min Winter	10.402	0.0	416
720 min Winter	9.042	0.0	490
960 min Winter	7.241	0.0	628
1440 min Winter	5.284	0.0	896
2160 min Winter	3.848	0.0	1280
2880 min Winter	3.068	0.0	1644
4320 min Winter	2.226	0.0	2248
5760 min Winter	1.771	0.0	2912
7200 min Winter	1.483	0.0	3672
8640 min Winter	1.284	0.0	4352
10080 min Winter	1.137	0.0	5008

Robert Clark Associates		Page 3																																
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G6																																	
Date 17.9.18 File G6.SRCX	Designed by RTFC Checked by																																	
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Robert Clark Associates		Page 4
Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Geocell G6	
Date 17.9.18 File G6.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.350

Cellular Storage Structure

Invert Level (m)	9.045
Infiltration Coefficient Base (m/hr)	0.09606
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	6.0	6.0	0.900	0.0	14.0
0.800	6.0	14.0			

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S1	
Date 17.9.18 File S1.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 196 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.743	0.868	0.1	2.4	0 K
30 min Summer	9.013	1.138	0.2	3.1	0 K
60 min Summer	9.262	1.387	0.2	3.8	0 K
120 min Summer	9.426	1.551	0.2	4.3	0 K
180 min Summer	9.475	1.600	0.3	4.4	0 K
240 min Summer	9.494	1.619	0.3	4.5	0 K
360 min Summer	9.505	1.630	0.3	4.5	0 K
480 min Summer	9.489	1.614	0.3	4.4	0 K
600 min Summer	9.461	1.586	0.3	4.4	0 K
720 min Summer	9.426	1.551	0.2	4.3	0 K
960 min Summer	9.351	1.476	0.2	4.1	0 K
1440 min Summer	9.209	1.334	0.2	3.7	0 K
2160 min Summer	9.036	1.161	0.2	3.2	0 K
2880 min Summer	8.906	1.031	0.2	2.8	0 K
4320 min Summer	8.723	0.848	0.1	2.3	0 K
5760 min Summer	8.600	0.725	0.1	2.0	0 K
7200 min Summer	8.510	0.635	0.1	1.8	0 K
8640 min Summer	8.444	0.569	0.1	1.6	0 K
10080 min Summer	8.391	0.516	0.1	1.4	0 K
15 min Winter	8.848	0.973	0.2	2.7	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	18
30 min Summer	88.566	0.0	33
60 min Summer	56.713	0.0	62
120 min Summer	35.004	0.0	116
180 min Summer	25.973	0.0	144
240 min Summer	20.877	0.0	174
360 min Summer	15.365	0.0	242
480 min Summer	12.341	0.0	312
600 min Summer	10.402	0.0	380
720 min Summer	9.042	0.0	448
960 min Summer	7.241	0.0	578
1440 min Summer	5.284	0.0	838
2160 min Summer	3.848	0.0	1216
2880 min Summer	3.068	0.0	1588
4320 min Summer	2.226	0.0	2332
5760 min Summer	1.771	0.0	3056
7200 min Summer	1.483	0.0	3752
8640 min Summer	1.284	0.0	4496
10080 min Summer	1.137	0.0	5240
15 min Winter	131.851	0.0	18

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S1	
Date 17.9.18 File S1.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.152	1.277	0.2	3.5	0 K
60 min Winter	9.433	1.558	0.2	4.3	0 K
120 min Winter	9.631	1.756	0.3	4.8	0 K
180 min Winter	9.753	1.878	0.3	5.0	Flood Risk
240 min Winter	9.794	1.919	0.3	5.0	Flood Risk
360 min Winter	9.756	1.881	0.3	5.0	Flood Risk
480 min Winter	9.628	1.753	0.3	4.8	0 K
600 min Winter	9.571	1.696	0.3	4.7	0 K
720 min Winter	9.512	1.637	0.3	4.5	0 K
960 min Winter	9.397	1.522	0.2	4.2	0 K
1440 min Winter	9.197	1.322	0.2	3.6	0 K
2160 min Winter	8.975	1.100	0.2	3.0	0 K
2880 min Winter	8.818	0.943	0.2	2.6	0 K
4320 min Winter	8.611	0.736	0.1	2.0	0 K
5760 min Winter	8.482	0.607	0.1	1.7	0 K
7200 min Winter	8.394	0.519	0.1	1.4	0 K
8640 min Winter	8.330	0.455	0.1	1.3	0 K
10080 min Winter	8.281	0.406	0.1	1.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	148
240 min Winter	20.877	0.0	186
360 min Winter	15.365	0.0	262
480 min Winter	12.341	0.0	334
600 min Winter	10.402	0.0	406
720 min Winter	9.042	0.0	478
960 min Winter	7.241	0.0	616
1440 min Winter	5.284	0.0	880
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1644
4320 min Winter	2.226	0.0	2380
5760 min Winter	1.771	0.0	3112
7200 min Winter	1.483	0.0	3824
8640 min Winter	1.284	0.0	4576
10080 min Winter	1.137	0.0	5256

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S1	
Date 17.9.18 File S1.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

Model Details

Storage is Online Cover Level (m) 10.000

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.30
Invert Level (m)	7.875
Ring Diameter (m)	1.50
Pit Multiplier	1.5
Number Required	1
Cap Volume Depth (m)	1.750
Cap Infiltration Depth (m)	1.750

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Summer</td><td>10.402</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>9.042</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>7.241</td><td>0.0</td><td>578</td></tr><tr><td>1440 min Summer</td><td>5.284</td><td>0.0</td><td>838</td></tr><tr><td>2160 min Summer</td><td>3.848</td><td>0.0</td><td>1216</td></tr><tr><td>2880 min Summer</td><td>3.068</td><td>0.0</td><td>1588</td></tr><tr><td>4320 min Summer</td><td>2.226</td><td>0.0</td><td>2332</td></tr><tr><td>5760 min Summer</td><td>1.771</td><td>0.0</td><td>3056</td></tr><tr><td>7200 min Summer</td><td>1.483</td><td>0.0</td><td>3752</td></tr><tr><td>8640 min Summer</td><td>1.284</td><td>0.0</td><td>4496</td></tr><tr><td>10080 min Summer</td><td>1.137</td><td>0.0</td><td>5240</td></tr><tr><td>15 min Winter</td><td>131.851</td><td>0.0</td><td>18</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	8.793	0.868	0.1	2.4	0 K	30 min 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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S2	
Date 17.9.18 File S2.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.202	1.277	0.2	3.5	0 K
60 min Winter	9.483	1.558	0.2	4.3	0 K
120 min Winter	9.681	1.756	0.3	4.8	0 K
180 min Winter	9.803	1.878	0.3	5.0	Flood Risk
240 min Winter	9.844	1.919	0.3	5.0	Flood Risk
360 min Winter	9.806	1.881	0.3	5.0	Flood Risk
480 min Winter	9.678	1.753	0.3	4.8	0 K
600 min Winter	9.621	1.696	0.3	4.7	0 K
720 min Winter	9.562	1.637	0.3	4.5	0 K
960 min Winter	9.447	1.522	0.2	4.2	0 K
1440 min Winter	9.247	1.322	0.2	3.6	0 K
2160 min Winter	9.025	1.100	0.2	3.0	0 K
2880 min Winter	8.868	0.943	0.2	2.6	0 K
4320 min Winter	8.661	0.736	0.1	2.0	0 K
5760 min Winter	8.532	0.607	0.1	1.7	0 K
7200 min Winter	8.444	0.519	0.1	1.4	0 K
8640 min Winter	8.380	0.455	0.1	1.3	0 K
10080 min Winter	8.331	0.406	0.1	1.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	148
240 min Winter	20.877	0.0	186
360 min Winter	15.365	0.0	262
480 min Winter	12.341	0.0	334
600 min Winter	10.402	0.0	406
720 min Winter	9.042	0.0	478
960 min Winter	7.241	0.0	616
1440 min Winter	5.284	0.0	880
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1644
4320 min Winter	2.226	0.0	2380
5760 min Winter	1.771	0.0	3112
7200 min Winter	1.483	0.0	3824
8640 min Winter	1.284	0.0	4576
10080 min Winter	1.137	0.0	5256

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S2																																	
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<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>20.000</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.010 <table> <thead> <tr> <th colspan="2">Time (mins)</th> <th rowspan="2">Area (ha)</th> </tr> <tr> <th>From:</th> <th>To:</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4</td> <td>0.010</td> </tr> </tbody> </table>			Rainfall Model	FSR	Winter Storms	Yes	Return Period (years)	100	Cv (Summer)	0.750	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	20.000	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+40	Time (mins)		Area (ha)	From:	To:	0	4	0.010
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Date 17.9.18 File S2.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.050

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.30
Invert Level (m)	7.925
Ring Diameter (m)	1.50
Pit Multiplier	1.5
Number Required	1
Cap Volume Depth (m)	1.750
Cap Infiltration Depth (m)	1.750

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S3	
Date 17.9.18 File S3.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.252	1.277	0.2	3.5	0 K
60 min Winter	9.533	1.558	0.2	4.3	0 K
120 min Winter	9.731	1.756	0.3	4.8	0 K
180 min Winter	9.853	1.878	0.3	5.0	Flood Risk
240 min Winter	9.894	1.919	0.3	5.0	Flood Risk
360 min Winter	9.856	1.881	0.3	5.0	Flood Risk
480 min Winter	9.728	1.753	0.3	4.8	0 K
600 min Winter	9.671	1.696	0.3	4.7	0 K
720 min Winter	9.612	1.637	0.3	4.5	0 K
960 min Winter	9.497	1.522	0.2	4.2	0 K
1440 min Winter	9.297	1.322	0.2	3.6	0 K
2160 min Winter	9.075	1.100	0.2	3.0	0 K
2880 min Winter	8.918	0.943	0.2	2.6	0 K
4320 min Winter	8.711	0.736	0.1	2.0	0 K
5760 min Winter	8.582	0.607	0.1	1.7	0 K
7200 min Winter	8.494	0.519	0.1	1.4	0 K
8640 min Winter	8.430	0.455	0.1	1.3	0 K
10080 min Winter	8.381	0.406	0.1	1.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	32
60 min Winter	56.713	0.0	60
120 min Winter	35.004	0.0	116
180 min Winter	25.973	0.0	148
240 min Winter	20.877	0.0	186
360 min Winter	15.365	0.0	262
480 min Winter	12.341	0.0	334
600 min Winter	10.402	0.0	406
720 min Winter	9.042	0.0	478
960 min Winter	7.241	0.0	616
1440 min Winter	5.284	0.0	880
2160 min Winter	3.848	0.0	1272
2880 min Winter	3.068	0.0	1644
4320 min Winter	2.226	0.0	2380
5760 min Winter	1.771	0.0	3112
7200 min Winter	1.483	0.0	3824
8640 min Winter	1.284	0.0	4576
10080 min Winter	1.137	0.0	5256

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S3																															
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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Soakaway S3	
Date 17.9.18 File S3.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.100

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000
Infiltration Coefficient Side (m/hr)	0.09606
Safety Factor	1.5
Porosity	0.30
Invert Level (m)	7.975
Ring Diameter (m)	1.50
Pit Multiplier	1.5
Number Required	1
Cap Volume Depth (m)	1.750
Cap Infiltration Depth (m)	1.750

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Permeable Paving	
Date 17.9.18 File PP.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 11 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.565	0.045	15.6	13.1	0 K
30 min Summer	9.575	0.055	17.2	15.9	0 K
60 min Summer	9.577	0.057	17.2	16.6	0 K
120 min Summer	9.569	0.049	16.9	14.3	0 K
180 min Summer	9.562	0.042	14.5	12.3	0 K
240 min Summer	9.557	0.037	12.6	10.7	0 K
360 min Summer	9.550	0.030	10.2	8.6	0 K
480 min Summer	9.545	0.025	8.7	7.3	0 K
600 min Summer	9.542	0.022	7.5	6.3	0 K
720 min Summer	9.539	0.019	6.6	5.6	0 K
960 min Summer	9.536	0.016	5.4	4.6	0 K
1440 min Summer	9.532	0.012	4.0	3.4	0 K
2160 min Summer	9.529	0.009	3.0	2.5	0 K
2880 min Summer	9.527	0.007	2.5	2.0	0 K
4320 min Summer	9.525	0.005	1.8	1.5	0 K
5760 min Summer	9.524	0.004	1.5	1.2	0 K
7200 min Summer	9.524	0.004	1.3	1.0	0 K
8640 min Summer	9.523	0.003	1.1	0.9	0 K
10080 min Summer	9.523	0.003	0.9	0.7	0 K
15 min Winter	9.572	0.052	17.2	15.0	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	131.851	0.0	14
30 min Summer	88.566	0.0	22
60 min Summer	56.713	0.0	38
120 min Summer	35.004	0.0	70
180 min Summer	25.973	0.0	100
240 min Summer	20.877	0.0	130
360 min Summer	15.365	0.0	190
480 min Summer	12.341	0.0	252
600 min Summer	10.402	0.0	312
720 min Summer	9.042	0.0	370
960 min Summer	7.241	0.0	492
1440 min Summer	5.284	0.0	736
2160 min Summer	3.848	0.0	1104
2880 min Summer	3.068	0.0	1448
4320 min Summer	2.226	0.0	2156
5760 min Summer	1.771	0.0	2936
7200 min Summer	1.483	0.0	3632
8640 min Summer	1.284	0.0	4392
10080 min Summer	1.137	0.0	5104
15 min Winter	131.851	0.0	14

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Willow Cottage Herne Lane Rustington BN16 3EE	Sea Lane, Ferring Permeable Paving	
Date 17.9.18 File PP.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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
30 min Winter	9.581	0.061	17.2	17.8	0 K
60 min Winter	9.579	0.059	17.2	17.2	0 K
120 min Winter	9.566	0.046	15.9	13.4	0 K
180 min Winter	9.558	0.038	13.0	10.9	0 K
240 min Winter	9.552	0.032	10.9	9.1	0 K
360 min Winter	9.544	0.024	8.3	7.0	0 K
480 min Winter	9.540	0.020	6.8	5.7	0 K
600 min Winter	9.537	0.017	5.8	4.9	0 K
720 min Winter	9.535	0.015	5.1	4.2	0 K
960 min Winter	9.532	0.012	4.0	3.4	0 K
1440 min Winter	9.529	0.009	3.0	2.5	0 K
2160 min Winter	9.526	0.006	2.2	1.8	0 K
2880 min Winter	9.525	0.005	1.8	1.5	0 K
4320 min Winter	9.524	0.004	1.3	1.0	0 K
5760 min Winter	9.523	0.003	1.1	0.9	0 K
7200 min Winter	9.523	0.003	0.9	0.7	0 K
8640 min Winter	9.522	0.002	0.8	0.6	0 K
10080 min Winter	9.522	0.002	0.8	0.6	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	88.566	0.0	23
60 min Winter	56.713	0.0	42
120 min Winter	35.004	0.0	72
180 min Winter	25.973	0.0	102
240 min Winter	20.877	0.0	132
360 min Winter	15.365	0.0	194
480 min Winter	12.341	0.0	254
600 min Winter	10.402	0.0	314
720 min Winter	9.042	0.0	372
960 min Winter	7.241	0.0	500
1440 min Winter	5.284	0.0	716
2160 min Winter	3.848	0.0	1104
2880 min Winter	3.068	0.0	1468
4320 min Winter	2.226	0.0	2164
5760 min Winter	1.771	0.0	2904
7200 min Winter	1.483	0.0	3824
8640 min Winter	1.284	0.0	4280
10080 min Winter	1.137	0.0	5032

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Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 10.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.09606
Membrane Percolation (mm/hr)	1000
Max Percolation (l/s)	268.6
Safety Factor	1.5
Porosity	0.30
Invert Level (m)	9.520
Width (m)	4.5
Length (m)	214.9
Slope (1:X)	0.0
Depression Storage (mm)	5
Evaporation (mm/day)	3
Membrane Depth (m)	0

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