

		Page 1				
						
Elm Cottage Dairy Lane Walberton						
Date 19.3.19 File G1.SRCX		Designed by Checked by				
Micro Drainage		Source Control 2016.1				
Summary of Results for 100 year Return Period (+40%)						
Half Drain Time : 193 minutes.						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
15 min Summer	12.760	0.374	0.1	0.9	O K	
30 min Summer	12.878	0.492	0.1	1.2	O K	
60 min Summer	12.987	0.601	0.1	1.4	O K	
120 min Summer	13.059	0.673	0.1	1.6	O K	
180 min Summer	13.075	0.689	0.1	1.6	O K	
240 min Summer	13.076	0.690	0.1	1.6	O K	
360 min Summer	13.067	0.681	0.1	1.6	O K	
480 min Summer	13.049	0.663	0.1	1.6	O K	
600 min Summer	13.028	0.642	0.1	1.5	O K	
720 min Summer	13.006	0.620	0.1	1.5	O K	
960 min Summer	12.963	0.577	0.1	1.4	O K	
1440 min Summer	12.888	0.502	0.1	1.2	O K	
2160 min Summer	12.796	0.410	0.1	1.0	O K	
2880 min Summer	12.724	0.338	0.1	0.8	O K	
4320 min Summer	12.619	0.233	0.1	0.6	O K	
5760 min Summer	12.547	0.161	0.0	0.4	O K	
7200 min Summer	12.497	0.111	0.0	0.3	O K	
8640 min Summer	12.462	0.076	0.0	0.2	O K	
10080 min Summer	12.440	0.054	0.0	0.1	O K	
15 min Winter	12.806	0.420	0.1	1.0	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
15 min Summer	124.544	0.0	18			
30 min Summer	84.215	0.0	33			
60 min Summer	54.368	0.0	62			
120 min Summer	33.870	0.0	120			
180 min Summer	25.280	0.0	150			
240 min Summer	20.382	0.0	180			
360 min Summer	15.043	0.0	248			
480 min Summer	12.112	0.0	318			
600 min Summer	10.228	0.0	386			
720 min Summer	8.904	0.0	456			
960 min Summer	7.147	0.0	590			
1440 min Summer	5.233	0.0	854			
2160 min Summer	3.822	0.0	1236			
2880 min Summer	3.054	0.0	1616			
4320 min Summer	2.222	0.0	2336			
5760 min Summer	1.771	0.0	3056			
7200 min Summer	1.486	0.0	3752			
8640 min Summer	1.288	0.0	4488			
10080 min Summer	1.142	0.0	5144			
15 min Winter	124.544	0.0	18			
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		Elm Cottage Dairy Lane Walberton			Page 2	
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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	12.940	0.554	0.1	1.3	0 K	
60 min Winter	13.065	0.679	0.1	1.6	0 K	
120 min Winter	13.155	0.769	0.1	1.8	0 K	
180 min Winter	13.171	0.785	0.1	1.9	0 K	
240 min Winter	13.171	0.785	0.1	1.9	0 K	
360 min Winter	13.156	0.770	0.1	1.8	0 K	
480 min Winter	13.127	0.741	0.1	1.8	0 K	
600 min Winter	13.095	0.709	0.1	1.7	0 K	
720 min Winter	13.062	0.676	0.1	1.6	0 K	
960 min Winter	12.998	0.612	0.1	1.5	0 K	
1440 min Winter	12.891	0.505	0.1	1.2	0 K	
2160 min Winter	12.767	0.381	0.1	0.9	0 K	
2880 min Winter	12.676	0.290	0.1	0.7	0 K	
4320 min Winter	12.551	0.165	0.0	0.4	0 K	
5760 min Winter	12.473	0.087	0.0	0.2	0 K	
7200 min Winter	12.435	0.049	0.0	0.1	0 K	
8640 min Winter	12.428	0.042	0.0	0.1	0 K	
10080 min Winter	12.424	0.038	0.0	0.1	0 K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	84.215	0.0	32			
60 min Winter	54.368	0.0	60			
120 min Winter	33.870	0.0	116			
180 min Winter	25.280	0.0	166			
240 min Winter	20.382	0.0	188			
360 min Winter	15.043	0.0	266			
480 min Winter	12.112	0.0	342			
600 min Winter	10.228	0.0	416			
720 min Winter	8.904	0.0	490			
960 min Winter	7.147	0.0	634			
1440 min Winter	5.233	0.0	908			
2160 min Winter	3.822	0.0	1300			
2880 min Winter	3.054	0.0	1676			
4320 min Winter	2.222	0.0	2420			
5760 min Winter	1.771	0.0	3112			
7200 min Winter	1.486	0.0	3672			
8640 min Winter	1.288	0.0	4408			
10080 min Winter	1.142	0.0	5048			
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		Page 3								
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Micro Drainage Source Control 2016.1										
<u>Rainfall Details</u>										
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)	19.200	Shortest Storm (mins) 15								
Ratio R	0.338	Longest Storm (mins) 10080								
Summer Storms	Yes	Climate Change % +40								
<u>Time Area Diagram</u>										
Total Area (ha) 0.004										
<table border="0"> <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>0.004</td> </tr> </tbody> </table>			Time (mins)		Area (ha)	From:	To:	0	4	0.004
Time (mins)		Area (ha)								
From:	To:									
0	4	0.004								
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		Page 4																		
	Elm Cottage Dairy Lane Walberton																			
Date 19.3.19 File G1.SRCX	Designed by Checked by																			
Micro Drainage Source Control 2016.1																				
<u>Model Details</u> Storage is Online Cover Level (m) 13.686 <u>Cellular Storage Structure</u> Invert Level (m) 12.386 Infiltration Coefficient Base (m/hr) 0.09060 Infiltration Coefficient Side (m/hr) 0.09060 Safety Factor 2.0 Porosity 0.95 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>2.5</td> <td>2.5</td> <td>0.900</td> <td>0.0</td> <td>8.1</td> </tr> <tr> <td>0.800</td> <td>2.5</td> <td>8.1</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	2.5	2.5	0.900	0.0	8.1	0.800	2.5	8.1			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
0.000	2.5	2.5	0.900	0.0	8.1															
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