

CGS Civils Ltd			Page 1		
65 St Pauls Road Chichester West Sussex PO19 3DD		98 Elmer Road Porous Paved Driveway			
Date 14/06/2018 13:20 File PP1.srcx		Designed by CS Checked by			
Micro Drainage		Source Control 2017.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Half Drain Time : 40 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	49.620	0.070	0.5	1.2	O K
30 min Summer	49.641	0.091	0.5	1.6	O K
60 min Summer	49.655	0.105	0.5	1.8	O K
120 min Summer	49.659	0.109	0.5	1.9	O K
180 min Summer	49.652	0.102	0.5	1.8	O K
240 min Summer	49.643	0.093	0.5	1.6	O K
360 min Summer	49.625	0.075	0.5	1.3	O K
480 min Summer	49.611	0.061	0.5	1.0	O K
600 min Summer	49.601	0.051	0.5	0.9	O K
720 min Summer	49.596	0.046	0.4	0.8	O K
960 min Summer	49.589	0.039	0.4	0.7	O K
1440 min Summer	49.580	0.030	0.3	0.5	O K
2160 min Summer	49.573	0.023	0.2	0.4	O K
2880 min Summer	49.568	0.018	0.2	0.3	O K
4320 min Summer	49.563	0.013	0.1	0.2	O K
5760 min Summer	49.561	0.011	0.1	0.2	O K
7200 min Summer	49.559	0.009	0.1	0.2	O K
8640 min Summer	49.558	0.008	0.1	0.1	O K
10080 min Summer	49.557	0.007	0.1	0.1	O K
15 min Winter	49.631	0.081	0.5	1.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	115.731	0.0	16		
30 min Summer	77.804	0.0	29		
60 min Summer	49.937	0.0	46		
120 min Summer	30.956	0.0	80		
180 min Summer	23.058	0.0	114		
240 min Summer	18.577	0.0	146		
360 min Summer	13.656	0.0	208		
480 min Summer	10.974	0.0	266		
600 min Summer	9.254	0.0	320		
720 min Summer	8.046	0.0	382		
960 min Summer	6.447	0.0	502		
1440 min Summer	4.709	0.0	738		
2160 min Summer	3.432	0.0	1104		
2880 min Summer	2.739	0.0	1468		
4320 min Summer	1.989	0.0	2204		
5760 min Summer	1.583	0.0	2928		
7200 min Summer	1.325	0.0	3656		
8640 min Summer	1.147	0.0	4344		
10080 min Summer	1.015	0.0	5136		
15 min Winter	115.731	0.0	17		
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Micro Drainage	Source Control 2017.1	

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	49.656	0.106	0.5	1.8	O K
60 min Winter	49.670	0.120	0.5	2.1	O K
120 min Winter	49.670	0.120	0.5	2.1	O K
180 min Winter	49.658	0.108	0.5	1.9	O K
240 min Winter	49.643	0.093	0.5	1.6	O K
360 min Winter	49.615	0.065	0.5	1.1	O K
480 min Winter	49.599	0.049	0.5	0.8	O K
600 min Winter	49.593	0.043	0.4	0.7	O K
720 min Winter	49.588	0.038	0.4	0.6	O K
960 min Winter	49.581	0.031	0.3	0.5	O K
1440 min Winter	49.573	0.023	0.2	0.4	O K
2160 min Winter	49.567	0.017	0.2	0.3	O K
2880 min Winter	49.563	0.013	0.1	0.2	O K
4320 min Winter	49.560	0.010	0.1	0.2	O K
5760 min Winter	49.558	0.008	0.1	0.1	O K
7200 min Winter	49.557	0.007	0.1	0.1	O K
8640 min Winter	49.556	0.006	0.1	0.1	O K
10080 min Winter	49.555	0.005	0.0	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Time-Peak Volume (m³)	(mins)
30 min Winter	77.804	0.0	30
60 min Winter	49.937	0.0	50
120 min Winter	30.956	0.0	88
180 min Winter	23.058	0.0	124
240 min Winter	18.577	0.0	158
360 min Winter	13.656	0.0	216
480 min Winter	10.974	0.0	266
600 min Winter	9.254	0.0	326
720 min Winter	8.046	0.0	386
960 min Winter	6.447	0.0	510
1440 min Winter	4.709	0.0	750
2160 min Winter	3.432	0.0	1104
2880 min Winter	2.739	0.0	1496
4320 min Winter	1.989	0.0	2132
5760 min Winter	1.583	0.0	2920
7200 min Winter	1.325	0.0	3712
8640 min Winter	1.147	0.0	4400
10080 min Winter	1.015	0.0	5144

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65 St Pauls Road Chichester West Sussex PO19 3DD	98 Elmer Road Porous Paved Driveway																									
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Micro Drainage Source Control 2017.1																										
<u>Model Details</u> Storage is Online Cover Level (m) 50.000 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.05940</td> <td>Width (m)</td> <td>4.9</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>11.7</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>15.9</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>49.550</td> <td>Cap Volume Depth (m)</td> <td>0.300</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.05940	Width (m)	4.9	Membrane Percolation (mm/hr)	1000	Length (m)	11.7	Max Percolation (l/s)	15.9	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	49.550	Cap Volume Depth (m)	0.300
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