

RGP Design Limited				Page 1																																																																																																																																																																																																																			
Metro House Northgate Chichester PO19 1BE			Woodgate Fm SW Design																																																																																																																																																																																																																				
Date 22/03/2018 15:10 File D1484 SW Design.SRCX			Designed by MJA Checked by																																																																																																																																																																																																																				
XP Solutions			Source Control 2017.1																																																																																																																																																																																																																				
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 980 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>8.520</td><td>0.590</td><td>0.2</td><td>7.0</td><td>0 K</td></tr><tr><td>30 min Summer</td><td>8.589</td><td>0.659</td><td>0.2</td><td>9.6</td><td>0 K</td></tr><tr><td>60 min Summer</td><td>8.662</td><td>0.732</td><td>0.2</td><td>12.4</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>8.736</td><td>0.806</td><td>0.2</td><td>15.2</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>8.775</td><td>0.845</td><td>0.2</td><td>16.7</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>8.797</td><td>0.867</td><td>0.2</td><td>17.5</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>8.827</td><td>0.897</td><td>0.2</td><td>18.6</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>8.841</td><td>0.911</td><td>0.2</td><td>19.2</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>8.847</td><td>0.917</td><td>0.2</td><td>19.4</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>8.848</td><td>0.918</td><td>0.2</td><td>19.5</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>8.844</td><td>0.914</td><td>0.2</td><td>19.3</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>8.829</td><td>0.899</td><td>0.2</td><td>18.7</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>8.800</td><td>0.870</td><td>0.2</td><td>17.6</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>8.768</td><td>0.838</td><td>0.2</td><td>16.4</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>8.705</td><td>0.775</td><td>0.2</td><td>14.0</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>8.647</td><td>0.717</td><td>0.2</td><td>11.8</td><td>Flood Risk</td></tr><tr><td>7200 min 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XP Solutions		Source Control 2017.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	8.621	0.691	0.2	10.9	0 K
60 min Winter	8.705	0.775	0.2	14.0	Flood Risk
120 min Winter	8.789	0.859	0.2	17.2	Flood Risk
180 min Winter	8.833	0.903	0.2	18.9	Flood Risk
240 min Winter	8.860	0.930	0.2	19.9	Flood Risk
360 min Winter	8.896	0.966	0.2	21.3	Flood Risk
480 min Winter	8.915	0.985	0.2	22.0	Flood Risk
600 min Winter	8.926	0.996	0.2	22.4	Flood Risk
720 min Winter	8.930	1.000	0.2	22.6	FL00D
960 min Winter	8.929	0.999	0.2	22.5	Flood Risk
1440 min Winter	8.906	0.976	0.2	21.6	Flood Risk
2160 min Winter	8.865	0.935	0.2	20.1	Flood Risk
2880 min Winter	8.818	0.888	0.2	18.3	Flood Risk
4320 min Winter	8.721	0.791	0.2	14.6	Flood Risk
5760 min Winter	8.632	0.702	0.2	11.2	Flood Risk
7200 min Winter	8.555	0.625	0.2	8.3	0 K
8640 min Winter	8.491	0.561	0.2	5.9	0 K
10080 min Winter	8.442	0.512	0.2	4.1	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	79.396	0.0	33		
60 min Winter	51.304	0.0	62		
120 min Winter	31.966	0.0	122		
180 min Winter	23.846	0.0	180		
240 min Winter	19.211	0.0	238		
360 min Winter	14.203	0.0	354		
480 min Winter	11.440	0.0	470		
600 min Winter	9.663	0.0	584		
720 min Winter	8.414	0.0	694		
960 min Winter	6.756	0.0	912		
1440 min Winter	4.948	0.0	1142		
2160 min Winter	3.615	0.0	1600		
2880 min Winter	2.890	0.0	2048		
4320 min Winter	2.103	0.0	2900		
5760 min Winter	1.677	0.0	3696		
7200 min Winter	1.408	0.0	4400		
8640 min Winter	1.221	0.0	5104		
10080 min Winter	1.083	0.0	5656		
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Model Details

Storage is Online Cover Level (m) 8.930

Complex Structure

Lined Soakaway

Infiltration Coefficient Base (m/hr) 0.01130	Ring Diameter (m) 1.20
Infiltration Coefficient Side (m/hr) 0.01130	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 0.000
Invert Level (m) 7.930	Cap Infiltration Depth (m) 0.000

Porous Car Park

Infiltration Coefficient Base (m/hr) 0.01130	Width (m) 10.0
Membrane Percolation (mm/hr) 1000	Length (m) 11.3
Max Percolation (l/s) 31.4	Slope (1:X) 0.0
Safety Factor 2.0	Depression Storage (mm) 5
Porosity 0.32	Evaporation (mm/day) 3
Invert Level (m) 8.355	Membrane Depth (m) 0

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