

MJA Consulting				Page 1																																																																																																																																																																																																																			
Monarch House Barton Lane OX14 3NB		Permeable Paving, Care Home Westergate & Eastergate																																																																																																																																																																																																																					
Date 13/04/2018 11:05 File PERMEABLE PAVING.SRCX		Designed by S.Smith Checked by																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 1262 minutes. <table><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><tr><td>15 min Summer</td><td>99.496</td><td>0.296</td><td></td><td>0.6 32.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.566</td><td>0.366</td><td></td><td>0.6 43.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.640</td><td>0.440</td><td></td><td>0.6 54.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.712</td><td>0.512</td><td></td><td>0.6 65.6</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>99.749</td><td>0.549</td><td></td><td>0.6 71.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>99.772</td><td>0.572</td><td></td><td>0.6 74.9</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>99.802</td><td>0.602</td><td></td><td>0.6 79.5</td><td>Flood Risk</td></tr><tr><td>480 min 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Innovyze		Source Control 2017.1.2			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	99.600	0.400	0.6	48.4	O K
60 min Winter	99.683	0.483	0.6	61.2	O K
120 min Winter	99.766	0.566	0.6	73.9	Flood Risk
180 min Winter	99.809	0.609	0.6	80.6	Flood Risk
240 min Winter	99.836	0.636	0.6	84.9	Flood Risk
360 min Winter	99.873	0.673	0.6	90.5	Flood Risk
480 min Winter	99.894	0.694	0.6	93.8	Flood Risk
600 min Winter	99.906	0.706	0.6	95.7	Flood Risk
720 min Winter	99.913	0.713	0.6	96.8	Flood Risk
860 min Winter	99.916	0.716	0.6	97.2	Flood Risk
1440 min Winter	99.898	0.698	0.6	94.5	Flood Risk
2160 min Winter	99.860	0.660	0.6	88.5	Flood Risk
2880 min Winter	99.820	0.620	0.6	82.3	Flood Risk
4320 min Winter	99.736	0.536	0.6	69.4	Flood Risk
5760 min Winter	99.657	0.457	0.6	57.1	O K
7200 min Winter	99.585	0.385	0.6	46.1	O K
8640 min Winter	99.522	0.322	0.6	36.3	O K
10080 min Winter	99.468	0.268	0.6	27.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	90.474	0.0	33		
60 min Winter	57.877	0.0	62		
120 min Winter	35.655	0.0	122		
180 min Winter	26.413	0.0	180		
240 min Winter	21.237	0.0	240		
360 min Winter	15.626	0.0	356		
480 min Winter	12.548	0.0	472		
600 min Winter	10.575	0.0	588		
720 min Winter	9.191	0.0	700		
860 min Winter	7.888	0.0	824		
1440 min Winter	5.368	0.0	1344		
2160 min Winter	3.907	0.0	1668		
2880 min Winter	3.115	0.0	2132		
4320 min Winter	2.259	0.0	3024		
5760 min Winter	1.796	0.0	3856		
7200 min Winter	1.506	0.0	4616		
8640 min Winter	1.304	0.0	5360		
10080 min Winter	1.154	0.0	6048		
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Innovyze Source Control 2017.1.2		

Model Details

Storage is Online Cover Level (m) 100.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00900	Width (m)	22.7
Membrane Percolation (mm/hr)	1000	Length (m)	22.7
Max Percolation (l/s)	143.1	Slope (1:X)	130.0
Safety Factor	2.0	Depression Storage (mm)	0
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	99.200	Membrane Depth (m)	0

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