

MJA Consulting		Page 1																																																																																																																																																																																																																		
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Parking Court 4 1:100+40%cc																																																																																																																																																																																																																			
Date 07/03/2018 File Parking Court 5.srcx	Designed by C.Pendle Checked by																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 53 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>99.266</td><td>0.266</td><td>1.6</td><td>6.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.296</td><td>0.296</td><td>1.8</td><td>7.9</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.312</td><td>0.312</td><td>1.9</td><td>8.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.316</td><td>0.316</td><td>1.9</td><td>9.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.309</td><td>0.309</td><td>1.9</td><td>8.6</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.299</td><td>0.299</td><td>1.8</td><td>8.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.281</td><td>0.281</td><td>1.7</td><td>7.1</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.264</td><td>0.264</td><td>1.6</td><td>6.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.249</td><td>0.249</td><td>1.5</td><td>5.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.236</td><td>0.236</td><td>1.4</td><td>5.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.213</td><td>0.213</td><td>1.3</td><td>4.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>99.179</td><td>0.179</td><td>1.1</td><td>2.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>99.144</td><td>0.144</td><td>0.9</td><td>1.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>99.121</td><td>0.121</td><td>0.7</td><td>1.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>99.092</td><td>0.092</td><td>0.6</td><td>0.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>99.074</td><td>0.074</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>99.063</td><td>0.063</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>99.054</td><td>0.054</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>99.049</td><td>0.049</td><td>0.3</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>99.283</td><td>0.283</td><td>1.7</td><td>7.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>127.204</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>85.821</td><td>0.0</td><td>30</td></tr><tr><td>60 min Summer</td><td>55.250</td><td>0.0</td><td>48</td></tr><tr><td>120 min Summer</td><td>34.307</td><td>0.0</td><td>82</td></tr><tr><td>180 min Summer</td><td>25.552</td><td>0.0</td><td>116</td></tr><tr><td>240 min Summer</td><td>20.570</td><td>0.0</td><td>150</td></tr><tr><td>360 min Summer</td><td>15.173</td><td>0.0</td><td>216</td></tr><tr><td>480 min Summer</td><td>12.206</td><td>0.0</td><td>280</td></tr><tr><td>600 min Summer</td><td>10.302</td><td>0.0</td><td>342</td></tr><tr><td>720 min Summer</td><td>8.963</td><td>0.0</td><td>404</td></tr><tr><td>960 min Summer</td><td>7.189</td><td>0.0</td><td>522</td></tr><tr><td>1440 min Summer</td><td>5.257</td><td>0.0</td><td>764</td></tr><tr><td>2160 min Summer</td><td>3.836</td><td>0.0</td><td>1124</td></tr><tr><td>2880 min Summer</td><td>3.063</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>2.226</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.773</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.487</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.289</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.142</td><td>0.0</td><td>5024</td></tr><tr><td>15 min Winter</td><td>127.204</td><td>0.0</td><td>17</td></tr></table>			Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	99.266	0.266	1.6	6.4	O K	30 min Summer	99.296	0.296	1.8	7.9	O K	60 min Summer	99.312	0.312	1.9	8.8	O K	120 min Summer	99.316	0.316	1.9	9.0	O K	180 min Summer	99.309	0.309	1.9	8.6	O K	240 min Summer	99.299	0.299	1.8	8.1	O K	360 min Summer	99.281	0.281	1.7	7.1	O K	480 min Summer	99.264	0.264	1.6	6.3	O K	600 min Summer	99.249	0.249	1.5	5.6	O K	720 min Summer	99.236	0.236	1.4	5.0	O K	960 min Summer	99.213	0.213	1.3	4.1	O K	1440 min Summer	99.179	0.179	1.1	2.9	O K	2160 min Summer	99.144	0.144	0.9	1.9	O K	2880 min Summer	99.121	0.121	0.7	1.3	O K	4320 min Summer	99.092	0.092	0.6	0.8	O K	5760 min Summer	99.074	0.074	0.4	0.5	O K	7200 min Summer	99.063	0.063	0.4	0.4	O K	8640 min Summer	99.054	0.054	0.3	0.3	O K	10080 min Summer	99.049	0.049	0.3	0.2	O K	15 min Winter	99.283	0.283	1.7	7.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	127.204	0.0	17	30 min Summer	85.821	0.0	30	60 min Summer	55.250	0.0	48	120 min Summer	34.307	0.0	82	180 min Summer	25.552	0.0	116	240 min Summer	20.570	0.0	150	360 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Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Parking Court 4 1:100+40%cc				
Date 07/03/2018 File Parking Court 5.srcx	Designed by C.Pendle Checked by				
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	99.316	0.316	1.9	9.0	O K
60 min Winter	99.333	0.333	2.0	10.0	O K
120 min Winter	99.334	0.334	2.0	10.0	O K
180 min Winter	99.323	0.323	1.9	9.4	O K
240 min Winter	99.309	0.309	1.9	8.6	O K
360 min Winter	99.282	0.282	1.7	7.2	O K
480 min Winter	99.258	0.258	1.5	6.0	O K
600 min Winter	99.238	0.238	1.4	5.1	O K
720 min Winter	99.220	0.220	1.3	4.4	O K
960 min Winter	99.191	0.191	1.1	3.3	O K
1440 min Winter	99.150	0.150	0.9	2.0	O K
2160 min Winter	99.114	0.114	0.7	1.2	O K
2880 min Winter	99.092	0.092	0.6	0.8	O K
4320 min Winter	99.068	0.068	0.4	0.4	O K
5760 min Winter	99.054	0.054	0.3	0.3	O K
7200 min Winter	99.048	0.048	0.3	0.2	O K
8640 min Winter	99.045	0.045	0.2	0.2	O K
10080 min Winter	99.042	0.042	0.2	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.821	0.0	30		
60 min Winter	55.250	0.0	50		
120 min Winter	34.307	0.0	88		
180 min Winter	25.552	0.0	126		
240 min Winter	20.570	0.0	160		
360 min Winter	15.173	0.0	228		
480 min Winter	12.206	0.0	294		
600 min Winter	10.302	0.0	356		
720 min Winter	8.963	0.0	418		
960 min Winter	7.189	0.0	540		
1440 min Winter	5.257	0.0	778		
2160 min Winter	3.836	0.0	1124		
2880 min Winter	3.063	0.0	1472		
4320 min Winter	2.226	0.0	2204		
5760 min Winter	1.773	0.0	2920		
7200 min Winter	1.487	0.0	3624		
8640 min Winter	1.289	0.0	4360		
10080 min Winter	1.142	0.0	5120		
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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)	0.07200	Width (m)	15.0
Membrane Percolation (mm/hr)	1000	Length (m)	15.0
Max Percolation (l/s)	62.5	Slope (1:X)	40.0
Safety Factor	2.0	Depression Storage (mm)	0
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	99.000	Cap Volume Depth (m)	0.500

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