

MJA Consulting			Page 1																																																																																																																																																																																																																			
Monarch House Barton Lane OX14 3NB		Plots 135,136,138, 149 Driveway																																																																																																																																																																																																																				
Date 14/03/2018 10:49 File DRIVEWAY.SRCX		Designed by stewart Checked by																																																																																																																																																																																																																				
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 172 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>99.334</td><td>0.334</td><td>0.4</td><td>4.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.432</td><td>0.432</td><td>0.4</td><td>5.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.515</td><td>0.515</td><td>0.4</td><td>6.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.556</td><td>0.556</td><td>0.4</td><td>6.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.548</td><td>0.548</td><td>0.4</td><td>6.5</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.532</td><td>0.532</td><td>0.4</td><td>6.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.502</td><td>0.502</td><td>0.4</td><td>6.0</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.469</td><td>0.469</td><td>0.4</td><td>5.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.437</td><td>0.437</td><td>0.4</td><td>5.2</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.404</td><td>0.404</td><td>0.4</td><td>4.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.342</td><td>0.342</td><td>0.4</td><td>4.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>99.232</td><td>0.232</td><td>0.4</td><td>2.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>99.117</td><td>0.117</td><td>0.4</td><td>1.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>99.059</td><td>0.059</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>99.039</td><td>0.039</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>99.032</td><td>0.032</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>99.027</td><td>0.027</td><td>0.2</td><td>0.3</td><td>O K</td></tr><tr><td>8640 min 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Summer</td><td>10.575</td><td>0.0</td><td>386</td></tr><tr><td>720 min Summer</td><td>9.191</td><td>0.0</td><td>454</td></tr><tr><td>960 min Summer</td><td>7.358</td><td>0.0</td><td>584</td></tr><tr><td>1440 min Summer</td><td>5.368</td><td>0.0</td><td>826</td></tr><tr><td>2160 min Summer</td><td>3.907</td><td>0.0</td><td>1168</td></tr><tr><td>2880 min Summer</td><td>3.115</td><td>0.0</td><td>1476</td></tr><tr><td>4320 min Summer</td><td>2.259</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.796</td><td>0.0</td><td>2912</td></tr><tr><td>7200 min Summer</td><td>1.506</td><td>0.0</td><td>3648</td></tr><tr><td>8640 min Summer</td><td>1.304</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.154</td><td>0.0</td><td>5120</td></tr><tr><td>15 min Winter</td><td>134.746</td><td>0.0</td><td>18</td></tr></table>					Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	99.334	0.334	0.4	4.0	O K	30 min Summer	99.432	0.432	0.4	5.1	O K	60 min Summer	99.515	0.515	0.4	6.1	O K	120 min Summer	99.556	0.556	0.4	6.6	O K	180 min Summer	99.548	0.548	0.4	6.5	O K	240 min Summer	99.532	0.532	0.4	6.3	O K	360 min Summer	99.502	0.502	0.4	6.0	O K	480 min Summer	99.469	0.469	0.4	5.6	O K	600 min Summer	99.437	0.437	0.4	5.2	O K	720 min Summer	99.404	0.404	0.4	4.8	O K	960 min Summer	99.342	0.342	0.4	4.1	O K	1440 min Summer	99.232	0.232	0.4	2.8	O K	2160 min Summer	99.117	0.117	0.4	1.4	O K	2880 min Summer	99.059	0.059	0.4	0.7	O K	4320 min Summer	99.039	0.039	0.3	0.5	O K	5760 min Summer	99.032	0.032	0.3	0.4	O K	7200 min Summer	99.027	0.027	0.2	0.3	O K	8640 min Summer	99.023	0.023	0.2	0.3	O K	10080 min Summer	99.020	0.020	0.2	0.2	O K	15 min Winter	99.377	0.377	0.4	4.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	134.746	0.0	18	30 min Summer	90.474	0.0	33	60 min Summer	57.877	0.0	62	120 min Summer	35.655	0.0	120	180 min Summer	26.413	0.0	152	240 min Summer	21.237	0.0	182	360 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Monarch House Barton Lane OX14 3NB		Plots 135,136,138, 149 Driveway			
Date 14/03/2018 10:49 File DRIVEWAY.SRCX		Designed by stewart 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	99.490	0.490	0.4	5.8	O K
60 min Winter	99.590	0.590	0.4	7.0	O K
120 min Winter	99.649	0.649	0.4	7.7	O K
180 min Winter	99.645	0.645	0.4	7.7	O K
240 min Winter	99.622	0.622	0.4	7.4	O K
360 min Winter	99.580	0.580	0.4	6.9	O K
480 min Winter	99.530	0.530	0.4	6.3	O K
600 min Winter	99.479	0.479	0.4	5.7	O K
720 min Winter	99.428	0.428	0.4	5.1	O K
960 min Winter	99.330	0.330	0.4	3.9	O K
1440 min Winter	99.169	0.169	0.4	2.0	O K
2160 min Winter	99.049	0.049	0.4	0.6	O K
2880 min Winter	99.039	0.039	0.3	0.5	O K
4320 min Winter	99.029	0.029	0.2	0.3	O K
5760 min Winter	99.023	0.023	0.2	0.3	O K
7200 min Winter	99.019	0.019	0.2	0.2	O K
8640 min Winter	99.017	0.017	0.1	0.2	O K
10080 min Winter	99.015	0.015	0.1	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	90.474	0.0	32		
60 min Winter	57.877	0.0	60		
120 min Winter	35.655	0.0	118		
180 min Winter	26.413	0.0	170		
240 min Winter	21.237	0.0	196		
360 min Winter	15.626	0.0	272		
480 min Winter	12.548	0.0	346		
600 min Winter	10.575	0.0	420		
720 min Winter	9.191	0.0	490		
960 min Winter	7.358	0.0	626		
1440 min Winter	5.368	0.0	864		
2160 min Winter	3.907	0.0	1104		
2880 min Winter	3.115	0.0	1468		
4320 min Winter	2.259	0.0	2200		
5760 min Winter	1.796	0.0	2936		
7200 min Winter	1.506	0.0	3608		
8640 min Winter	1.304	0.0	4400		
10080 min Winter	1.154	0.0	4976		
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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)	6.6
Membrane Percolation (mm/hr)	1000	Length (m)	6.0
Max Percolation (l/s)	11.0	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	0
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	99.000	Membrane Depth (m)	0

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