

MJA Consulting		Page 1
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Parking Court 2 1:100+40%cc	
Date 07/03/2018 File Parking Court 2.srcx	Designed by C.Pendle Checked by	
Innovyze	Source Control 2017.1.2	

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 69 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	99.313	0.313	1.9	8.8	O K
30 min Summer	99.350	0.350	2.1	11.0	O K
60 min Summer	99.371	0.371	2.2	12.4	O K
120 min Summer	99.379	0.379	2.3	12.9	O K
180 min Summer	99.373	0.373	2.2	12.5	O K
240 min Summer	99.363	0.363	2.2	11.9	O K
360 min Summer	99.345	0.345	2.1	10.7	O K
480 min Summer	99.327	0.327	2.0	9.6	O K
600 min Summer	99.310	0.310	1.9	8.7	O K
720 min Summer	99.295	0.295	1.8	7.9	O K
960 min Summer	99.270	0.270	1.6	6.5	O K
1440 min Summer	99.229	0.229	1.4	4.7	O K
2160 min Summer	99.188	0.188	1.1	3.2	O K
2880 min Summer	99.159	0.159	1.0	2.3	O K
4320 min Summer	99.123	0.123	0.7	1.4	O K
5760 min Summer	99.100	0.100	0.6	0.9	O K
7200 min Summer	99.085	0.085	0.5	0.6	O K
8640 min Summer	99.074	0.074	0.4	0.5	O K
10080 min Summer	99.065	0.065	0.4	0.4	O K
15 min Winter	99.332	0.332	2.0	9.9	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	31
60 min Summer	55.250	0.0	50
120 min Summer	34.307	0.0	84
180 min Summer	25.552	0.0	118
240 min Summer	20.570	0.0	152
360 min Summer	15.173	0.0	218
480 min Summer	12.206	0.0	284
600 min Summer	10.302	0.0	348
720 min Summer	8.963	0.0	410
960 min Summer	7.189	0.0	530
1440 min Summer	5.257	0.0	776
2160 min Summer	3.836	0.0	1128
2880 min Summer	3.063	0.0	1496
4320 min Summer	2.226	0.0	2204
5760 min Summer	1.773	0.0	2936
7200 min Summer	1.487	0.0	3672
8640 min Summer	1.289	0.0	4384
10080 min Summer	1.142	0.0	5136
15 min Winter	127.204	0.0	17

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MJA Consulting		Page 2			
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<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	99.373	0.373	2.2	12.5	O K
60 min Winter	99.398	0.398	2.3	14.2	O K
120 min Winter	99.404	0.404	2.3	14.6	O K
180 min Winter	99.393	0.393	2.3	13.9	O K
240 min Winter	99.378	0.378	2.3	12.8	O K
360 min Winter	99.350	0.350	2.1	11.0	O K
480 min Winter	99.325	0.325	1.9	9.5	O K
600 min Winter	99.302	0.302	1.8	8.2	O K
720 min Winter	99.282	0.282	1.7	7.1	O K
960 min Winter	99.248	0.248	1.5	5.5	O K
1440 min Winter	99.199	0.199	1.2	3.5	O K
2160 min Winter	99.153	0.153	0.9	2.1	O K
2880 min Winter	99.124	0.124	0.7	1.4	O K
4320 min Winter	99.092	0.092	0.6	0.8	O K
5760 min Winter	99.073	0.073	0.4	0.5	O K
7200 min Winter	99.062	0.062	0.4	0.3	O K
8640 min Winter	99.053	0.053	0.3	0.3	O K
10080 min Winter	99.049	0.049	0.3	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.821	0.0	31		
60 min Winter	55.250	0.0	56		
120 min Winter	34.307	0.0	92		
180 min Winter	25.552	0.0	128		
240 min Winter	20.570	0.0	164		
360 min Winter	15.173	0.0	234		
480 min Winter	12.206	0.0	300		
600 min Winter	10.302	0.0	364		
720 min Winter	8.963	0.0	426		
960 min Winter	7.189	0.0	550		
1440 min Winter	5.257	0.0	792		
2160 min Winter	3.836	0.0	1144		
2880 min Winter	3.063	0.0	1496		
4320 min Winter	2.226	0.0	2204		
5760 min Winter	1.773	0.0	2888		
7200 min Winter	1.487	0.0	3648		
8640 min Winter	1.289	0.0	4272		
10080 min Winter	1.142	0.0	4992		
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MJA Consulting		Page 4
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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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