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The Stables High Cogges, Witney Oxfordshire, OX29 6UN	Rear Car Park Building 6 Oxford Technology Park	
Date 16/08/2022 File 5052-OTP6 - REAR CAR PA...	Designed by IMT Checked by MBD	
Innovyze	Source Control 2020.1.3	

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

Half Drain Time : 33 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	69.720	0.220	37.0	98.8	O K
30 min Summer	69.760	0.260	37.0	117.1	O K
60 min Summer	69.771	0.271	37.0	121.8	O K
120 min Summer	69.744	0.244	37.0	109.8	O K
180 min Summer	69.707	0.207	37.0	93.1	O K
240 min Summer	69.671	0.171	37.0	76.8	O K
360 min Summer	69.611	0.111	37.0	50.2	O K
480 min Summer	69.573	0.073	37.0	32.7	O K
600 min Summer	69.552	0.052	37.0	23.3	O K
720 min Summer	69.545	0.045	33.1	20.3	O K
960 min Summer	69.537	0.037	27.2	16.4	O K
1440 min Summer	69.527	0.027	19.8	12.0	O K
2160 min Summer	69.519	0.019	14.2	8.8	O K
2880 min Summer	69.516	0.016	11.6	7.0	O K
4320 min Summer	69.511	0.011	8.3	5.0	O K
5760 min Summer	69.509	0.009	6.5	4.0	O K
7200 min Summer	69.507	0.007	5.4	3.3	O K
8640 min Summer	69.506	0.006	4.6	2.7	O K
10080 min Summer	69.506	0.006	4.3	2.5	O K
15 min Winter	69.719	0.219	37.0	98.7	O K


Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	138.153	0.0	16
30 min Summer	90.705	0.0	28
60 min Summer	56.713	0.0	46
120 min Summer	34.246	0.0	80
180 min Summer	25.149	0.0	112
240 min Summer	20.078	0.0	144
360 min Summer	14.585	0.0	204
480 min Summer	11.622	0.0	258
600 min Summer	9.738	0.0	310
720 min Summer	8.424	0.0	370
960 min Summer	6.697	0.0	490
1440 min Summer	4.839	0.0	734
2160 min Summer	3.490	0.0	1100
2880 min Summer	2.766	0.0	1460
4320 min Summer	1.989	0.0	2196
5760 min Summer	1.573	0.0	2928
7200 min Summer	1.311	0.0	3672
8640 min Summer	1.129	0.0	4408
10080 min Summer	0.994	0.0	5136
15 min Winter	138.153	0.0	16

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	69.760	0.260	37.0	116.9	O K
60 min Winter	69.764	0.264	37.0	118.9	O K
120 min Winter	69.719	0.219	37.0	98.4	O K
180 min Winter	69.663	0.163	37.0	73.3	O K
240 min Winter	69.613	0.113	37.0	50.8	O K
360 min Winter	69.552	0.052	37.0	23.2	O K
480 min Winter	69.541	0.041	30.5	18.5	O K
600 min Winter	69.535	0.035	25.7	15.5	O K
720 min Winter	69.530	0.030	22.4	13.5	O K
960 min Winter	69.524	0.024	17.9	10.8	O K
1440 min Winter	69.517	0.017	12.8	7.8	O K
2160 min Winter	69.513	0.013	9.4	5.6	O K
2880 min Winter	69.510	0.010	7.6	4.5	O K
4320 min Winter	69.507	0.007	5.4	3.2	O K
5760 min Winter	69.506	0.006	4.3	2.6	O K
7200 min Winter	69.505	0.005	3.5	2.1	O K
8640 min Winter	69.504	0.004	3.1	1.8	O K
10080 min Winter	69.504	0.004	2.8	1.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	90.705	0.0	29
60 min Winter	56.713	0.0	48
120 min Winter	34.246	0.0	84
180 min Winter	25.149	0.0	118
240 min Winter	20.078	0.0	148
360 min Winter	14.585	0.0	194
480 min Winter	11.622	0.0	250
600 min Winter	9.738	0.0	308
720 min Winter	8.424	0.0	368
960 min Winter	6.697	0.0	488
1440 min Winter	4.839	0.0	736
2160 min Winter	3.490	0.0	1072
2880 min Winter	2.766	0.0	1496
4320 min Winter	1.989	0.0	2168
5760 min Winter	1.573	0.0	2928
7200 min Winter	1.311	0.0	3648
8640 min Winter	1.129	0.0	4504
10080 min Winter	0.994	0.0	4752

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram


Total Area (ha) 0.380

Time (mins) Area		
From:	To:	(ha)
0	4	0.380

Time Area Diagram

Total Area (ha) 0.000

Time (mins) Area		
From:	To:	(ha)
0	4	0.000

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Model Details

Storage is Online Cover Level (m) 70.100

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.17748	Width (m)	75.0
Membrane Percolation (mm/hr)	1000	Length (m)	20.0
Max Percolation (l/s)	416.7	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	69.500	Membrane Depth (m)	0

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Event: 60 min Summer

