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Innovyze	Source Control 2020.1.3	

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
1440 min Winter	9.761	0.211	0.0	0.1	0.1	10.5	Flood Risk
2160 min Winter	9.751	0.201	0.0	0.1	0.1	9.9	Flood Risk
2880 min Winter	9.738	0.188	0.0	0.1	0.1	9.3	Flood Risk
4320 min Winter	9.714	0.164	0.0	0.1	0.1	8.1	Flood Risk
5760 min Winter	9.693	0.143	0.0	0.1	0.1	7.1	O K
7200 min Winter	9.674	0.124	0.0	0.1	0.1	6.2	O K
8640 min Winter	9.659	0.109	0.0	0.1	0.1	5.4	O K
10080 min Winter	9.646	0.096	0.0	0.1	0.1	4.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
1440 min Winter	4.725	0.0	11.3	1114
2160 min Winter	3.382	0.0	15.6	1576
2880 min Winter	2.666	0.0	16.2	2020
4320 min Winter	1.904	0.0	16.4	2896
5760 min Winter	1.498	0.0	17.7	3696
7200 min Winter	1.243	0.0	18.0	4536
8640 min Winter	1.067	0.0	18.1	5272
10080 min Winter	0.938	0.0	18.2	6048

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Rainfall Details

Rainfall Model	FSR	Ratio R	0.440	Cv (Winter)	0.840
Return Period (years)	100	Summer Storms	Yes	Shortest Storm (mins)	15
Region	England and Wales	Winter Storms	Yes	Longest Storm (mins)	10080
M5-60 (mm)	21.000	Cv (Summer)	0.750	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.017

Time (mins)		Area
From:	To:	(ha)
0	4	0.017

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Model Details

Storage is Online Cover Level (m) 10.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	16.5
Max Percolation (l/s)	45.8	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	9.550	Cap Volume Depth (m)	0.300

Orifice Outflow Control

Diameter (m) 0.010 Discharge Coefficient 0.600 Invert Level (m) 9.550