

The Civil Engineering Practice					Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 87 minutes. <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>14.159</td><td>1.359</td><td>0.5</td><td>2.6</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.559</td><td>1.759</td><td>0.5</td><td>3.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.845</td><td>2.045</td><td>0.5</td><td>3.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.946</td><td>2.146</td><td>0.5</td><td>4.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>14.900</td><td>2.100</td><td>0.5</td><td>3.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>14.800</td><td>2.000</td><td>0.5</td><td>3.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>14.582</td><td>1.782</td><td>0.5</td><td>3.3</td><td>O K</td></tr><tr><td>480 min 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Innovyze		Source Control 2020.1			
<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	14.815	2.015	0.5	3.7	O K
60 min Winter	15.168	2.368	0.5	4.4	Flood Risk
120 min Winter	15.267	2.467	0.5	4.5	Flood Risk
180 min Winter	15.188	2.388	0.5	4.4	Flood Risk
240 min Winter	15.033	2.233	0.5	4.1	Flood Risk
360 min Winter	14.689	1.889	0.5	3.5	O K
480 min Winter	14.350	1.550	0.5	2.9	O K
600 min Winter	14.042	1.242	0.5	2.4	O K
720 min Winter	13.779	0.979	0.5	1.9	O K
960 min Winter	13.424	0.624	0.5	1.3	O K
1440 min Winter	13.262	0.462	0.4	0.9	O K
2160 min Winter	13.143	0.343	0.3	0.7	O K
2880 min Winter	13.075	0.275	0.2	0.6	O K
4320 min Winter	13.001	0.201	0.2	0.4	O K
5760 min Winter	12.960	0.160	0.1	0.3	O K
7200 min Winter	12.935	0.135	0.1	0.3	O K
8640 min Winter	12.917	0.117	0.1	0.2	O K
10080 min Winter	12.903	0.103	0.1	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	86.178	0.0	31		
60 min Winter	55.250	0.0	60		
120 min Winter	34.177	0.0	98		
180 min Winter	25.410	0.0	136		
240 min Winter	20.436	0.0	174		
360 min Winter	15.037	0.0	246		
480 min Winter	12.081	0.0	314		
600 min Winter	10.185	0.0	374		
720 min Winter	8.854	0.0	434		
960 min Winter	7.093	0.0	528		
1440 min Winter	5.178	0.0	764		
2160 min Winter	3.772	0.0	1124		
2880 min Winter	3.009	0.0	1472		
4320 min Winter	2.184	0.0	2204		
5760 min Winter	1.738	0.0	2936		
7200 min Winter	1.455	0.0	3672		
8640 min Winter	1.260	0.0	4384		
10080 min Winter	1.115	0.0	5088		
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<u>Model Details</u> Storage is Online Cover Level (m) 15.300 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.50</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.67040</td> <td>Pit Multiplier</td> <td>1.1</td> </tr> <tr> <td>Safety Factor</td> <td>4.0</td> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>2.500</td> </tr> <tr> <td>Invert Level (m)</td> <td>12.800</td> <td>Cap Infiltration Depth (m)</td> <td>0.600</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.50	Infiltration Coefficient Side (m/hr)	1.67040	Pit Multiplier	1.1	Safety Factor	4.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	2.500	Invert Level (m)	12.800	Cap Infiltration Depth (m)	0.600
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