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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 138 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 Control (l/s)</th><th>Max Σ Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>41.727</td><td>0.227</td><td>0.0</td><td>1.2</td><td>1.2</td><td>11.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>41.782</td><td>0.282</td><td>0.0</td><td>1.3</td><td>1.3</td><td>14.3</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>41.824</td><td>0.324</td><td>0.0</td><td>1.4</td><td>1.4</td><td>16.6</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>41.839</td><td>0.339</td><td>0.0</td><td>1.5</td><td>1.5</td><td>17.5</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>41.838</td><td>0.338</td><td>0.0</td><td>1.4</td><td>1.4</td><td>17.4</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>41.832</td><td>0.332</td><td>0.0</td><td>1.4</td><td>1.4</td><td>17.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>41.815</td><td>0.315</td><td>0.0</td><td>1.4</td><td>1.4</td><td>16.1</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>41.797</td><td>0.297</td><td>0.0</td><td>1.4</td><td>1.4</td><td>15.1</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>41.779</td><td>0.279</td><td>0.0</td><td>1.3</td><td>1.3</td><td>14.1</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>41.763</td><td>0.263</td><td>0.0</td><td>1.3</td><td>1.3</td><td>13.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>41.734</td><td>0.234</td><td>0.0</td><td>1.2</td><td>1.2</td><td>11.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>41.689</td><td>0.189</td><td>0.0</td><td>1.1</td><td>1.1</td><td>9.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>41.645</td><td>0.145</td><td>0.0</td><td>0.9</td><td>0.9</td><td>6.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>41.615</td><td>0.115</td><td>0.0</td><td>0.8</td><td>0.8</td><td>5.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>41.581</td><td>0.081</td><td>0.0</td><td>0.6</td><td>0.6</td><td>3.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>41.562</td><td>0.062</td><td>0.0</td><td>0.5</td><td>0.5</td><td>2.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>41.551</td><td>0.051</td><td>0.0</td><td>0.5</td><td>0.5</td><td>1.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>41.546</td><td>0.046</td><td>0.0</td><td>0.4</td><td>0.4</td><td>1.3</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>41.542</td><td>0.042</td><td>0.0</td><td>0.4</td><td>0.4</td><td>1.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>41.754</td><td>0.254</td><td>0.0</td><td>1.2</td><td>1.2</td><td>12.7</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak 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Summer</td><td>4.802</td><td>0.0</td><td>39.2</td><td>820</td></tr><tr><td>2160 min Summer</td><td>3.449</td><td>0.0</td><td>42.0</td><td>1188</td></tr><tr><td>2880 min Summer</td><td>2.724</td><td>0.0</td><td>44.1</td><td>1532</td></tr><tr><td>4320 min Summer</td><td>1.951</td><td>0.0</td><td>47.0</td><td>2248</td></tr><tr><td>5760 min Summer</td><td>1.539</td><td>0.0</td><td>48.9</td><td>2952</td></tr><tr><td>7200 min Summer</td><td>1.279</td><td>0.0</td><td>50.4</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.100</td><td>0.0</td><td>51.6</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>0.967</td><td>0.0</td><td>52.5</td><td>5136</td></tr><tr><td>15 min Winter</td><td>146.162</td><td>0.0</td><td>13.5</td><td>18</td></tr></tbody></table>								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	15 min Summer	41.727	0.227	0.0	1.2	1.2	11.2	O K	30 min Summer	41.782	0.282	0.0	1.3	1.3	14.3	Flood Risk	60 min Summer	41.824	0.324	0.0	1.4	1.4	16.6	Flood Risk	120 min Summer	41.839	0.339	0.0	1.5	1.5	17.5	Flood Risk	180 min Summer	41.838	0.338	0.0	1.4	1.4	17.4	Flood Risk	240 min Summer	41.832	0.332	0.0	1.4	1.4	17.0	Flood Risk	360 min Summer	41.815	0.315	0.0	1.4	1.4	16.1	Flood Risk	480 min Summer	41.797	0.297	0.0	1.4	1.4	15.1	Flood Risk	600 min Summer	41.779	0.279	0.0	1.3	1.3	14.1	Flood Risk	720 min Summer	41.763	0.263	0.0	1.3	1.3	13.2	O K	960 min Summer	41.734	0.234	0.0	1.2	1.2	11.6	O K	1440 min Summer	41.689	0.189	0.0	1.1	1.1	9.2	O K	2160 min Summer	41.645	0.145	0.0	0.9	0.9	6.7	O K	2880 min Summer	41.615	0.115	0.0	0.8	0.8	5.1	O K	4320 min Summer	41.581	0.081	0.0	0.6	0.6	3.2	O K	5760 min Summer	41.562	0.062	0.0	0.5	0.5	2.2	O K	7200 min Summer	41.551	0.051	0.0	0.5	0.5	1.6	O K	8640 min Summer	41.546	0.046	0.0	0.4	0.4	1.3	O K	10080 min Summer	41.542	0.042	0.0	0.4	0.4	1.1	O K	15 min Winter	41.754	0.254	0.0	1.2	1.2	12.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	15 min Summer	146.162	0.0	12.0	18	30 min Summer	95.011	0.0	15.8	32	60 min Summer	58.745	0.0	19.8	62	120 min Summer	35.066	0.0	23.8	102	180 min Summer	25.584	0.0	26.1	132	240 min Summer	20.337	0.0	27.7	166	360 min Summer	14.710	0.0	30.1	236	480 min Summer	11.681	0.0	31.8	304	600 min Summer	9.762	0.0	33.3	370	720 min Summer	8.426	0.0	34.4	436	960 min Summer	6.676	0.0	36.4	568	1440 min Summer	4.802	0.0	39.2	820	2160 min Summer	3.449	0.0	42.0	1188	2880 min Summer	2.724	0.0	44.1	1532	4320 min Summer	1.951	0.0	47.0	2248	5760 min Summer	1.539	0.0	48.9	2952	7200 min Summer	1.279	0.0	50.4	3672	8640 min Summer	1.100	0.0	51.6	4400	10080 min Summer	0.967	0.0	52.5	5136	15 min Winter	146.162	0.0	13.5	18
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<u>Model Details</u> Storage is Online Cover Level (m) 42.075 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>8.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>23.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>51.1</td> <td>Slope (1:X)</td> <td>500.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>41.500</td> <td>Cap Volume Depth (m)</td> <td>0.400</td> </tr> </table> <u>Orifice Outflow Control</u> Diameter (m) 0.035 Discharge Coefficient 0.600 Invert Level (m) 41.500			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.0	Membrane Percolation (mm/hr)	1000	Length (m)	23.0	Max Percolation (l/s)	51.1	Slope (1:X)	500.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	41.500	Cap Volume Depth (m)	0.400
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Event: 120 min Winter

