

Flo_Consult UK Ltd				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period</u> Half Drain Time : 167 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>3.653</td><td>1.653</td><td>0.8</td><td>8.7</td><td>0 K</td></tr><tr><td>30 min Summer</td><td>4.184</td><td>2.184</td><td>1.0</td><td>11.6</td><td>0 K</td></tr><tr><td>60 min Summer</td><td>4.838</td><td>2.838</td><td>1.1</td><td>14.2</td><td>0 K</td></tr><tr><td>120 min Summer</td><td>5.394</td><td>3.394</td><td>1.1</td><td>16.1</td><td>0 K</td></tr><tr><td>180 min Summer</td><td>5.568</td><td>3.568</td><td>1.1</td><td>16.7</td><td>0 K</td></tr><tr><td>240 min Summer</td><td>5.608</td><td>3.608</td><td>1.1</td><td>16.8</td><td>0 K</td></tr><tr><td>360 min Summer</td><td>5.523</td><td>3.523</td><td>1.1</td><td>16.5</td><td>0 K</td></tr><tr><td>480 min Summer</td><td>5.368</td><td>3.368</td><td>1.1</td><td>16.0</td><td>0 K</td></tr><tr><td>600 min Summer</td><td>5.177</td><td>3.177</td><td>1.1</td><td>15.3</td><td>0 K</td></tr><tr><td>720 min Summer</td><td>4.977</td><td>2.977</td><td>1.1</td><td>14.7</td><td>0 K</td></tr><tr><td>960 min Summer</td><td>4.594</td><td>2.594</td><td>1.1</td><td>13.4</td><td>0 K</td></tr><tr><td>1440 min Summer</td><td>4.170</td><td>2.170</td><td>1.0</td><td>11.5</td><td>0 K</td></tr><tr><td>2160 min Summer</td><td>3.798</td><td>1.798</td><td>0.9</td><td>9.5</td><td>0 K</td></tr><tr><td>2880 min Summer</td><td>3.529</td><td>1.529</td><td>0.8</td><td>8.1</td><td>0 K</td></tr><tr><td>4320 min Summer</td><td>3.159</td><td>1.159</td><td>0.6</td><td>6.1</td><td>0 K</td></tr><tr><td>5760 min Summer</td><td>2.913</td><td>0.913</td><td>0.5</td><td>4.8</td><td>0 K</td></tr><tr><td>7200 min Summer</td><td>2.742</td><td>0.742</td><td>0.5</td><td>3.9</td><td>0 K</td></tr><tr><td>8640 min Summer</td><td>2.611</td><td>0.611</td><td>0.4</td><td>3.2</td><td>0 K</td></tr><tr><td>10080 min Summer</td><td>2.509</td><td>0.509</td><td>0.4</td><td>2.7</td><td>0 K</td></tr><tr><td>15 min Winter</td><td>3.857</td><td>1.857</td><td>0.9</td><td>9.8</td><td>0 K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>81.477</td><td>0.0</td><td>24</td></tr><tr><td>30 min Summer</td><td>55.591</td><td>0.0</td><td>37</td></tr><tr><td>60 min Summer</td><td>36.294</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>22.911</td><td>0.0</td><td>112</td></tr><tr><td>180 min Summer</td><td>17.247</td><td>0.0</td><td>144</td></tr><tr><td>240 min Summer</td><td>13.996</td><td>0.0</td><td>176</td></tr><tr><td>360 min Summer</td><td>10.361</td><td>0.0</td><td>246</td></tr><tr><td>480 min Summer</td><td>8.372</td><td>0.0</td><td>314</td></tr><tr><td>600 min Summer</td><td>7.089</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>6.185</td><td>0.0</td><td>446</td></tr><tr><td>960 min Summer</td><td>4.981</td><td>0.0</td><td>574</td></tr><tr><td>1440 min Summer</td><td>3.664</td><td>0.0</td><td>826</td></tr><tr><td>2160 min Summer</td><td>2.688</td><td>0.0</td><td>1196</td></tr><tr><td>2880 min Summer</td><td>2.155</td><td>0.0</td><td>1564</td></tr><tr><td>4320 min Summer</td><td>1.574</td><td>0.0</td><td>2296</td></tr><tr><td>5760 min Summer</td><td>1.258</td><td>0.0</td><td>3008</td></tr><tr><td>7200 min Summer</td><td>1.058</td><td>0.0</td><td>3752</td></tr><tr><td>8640 min Summer</td><td>0.919</td><td>0.0</td><td>4496</td></tr><tr><td>10080 min Summer</td><td>0.816</td><td>0.0</td><td>5160</td></tr><tr><td>15 min Winter</td><td>81.477</td><td>0.0</td><td>24</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	3.653	1.653	0.8	8.7	0 K	30 min Summer	4.184	2.184	1.0	11.6	0 K	60 min Summer	4.838	2.838	1.1	14.2	0 K	120 min Summer	5.394	3.394	1.1	16.1	0 K	180 min Summer	5.568	3.568	1.1	16.7	0 K	240 min Summer	5.608	3.608	1.1	16.8	0 K	360 min Summer	5.523	3.523	1.1	16.5	0 K	480 min Summer	5.368	3.368	1.1	16.0	0 K	600 min Summer	5.177	3.177	1.1	15.3	0 K	720 min Summer	4.977	2.977	1.1	14.7	0 K	960 min Summer	4.594	2.594	1.1	13.4	0 K	1440 min Summer	4.170	2.170	1.0	11.5	0 K	2160 min Summer	3.798	1.798	0.9	9.5	0 K	2880 min Summer	3.529	1.529	0.8	8.1	0 K	4320 min Summer	3.159	1.159	0.6	6.1	0 K	5760 min Summer	2.913	0.913	0.5	4.8	0 K	7200 min Summer	2.742	0.742	0.5	3.9	0 K	8640 min Summer	2.611	0.611	0.4	3.2	0 K	10080 min Summer	2.509	0.509	0.4	2.7	0 K	15 min Winter	3.857	1.857	0.9	9.8	0 K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	81.477	0.0	24	30 min Summer	55.591	0.0	37	60 min Summer	36.294	0.0	64	120 min Summer	22.911	0.0	112	180 min Summer	17.247	0.0	144	240 min Summer	13.996	0.0	176	360 min Summer	10.361	0.0	246	480 min Summer	8.372	0.0	314	600 min Summer	7.089	0.0	380	720 min Summer	6.185	0.0	446	960 min Summer	4.981	0.0	574	1440 min Summer	3.664	0.0	826	2160 min Summer	2.688	0.0	1196	2880 min Summer	2.155	0.0	1564	4320 min Summer	1.574	0.0	2296	5760 min Summer	1.258	0.0	3008	7200 min Summer	1.058	0.0	3752	8640 min Summer	0.919	0.0	4496	10080 min Summer	0.816	0.0	5160	15 min Winter	81.477	0.0	24
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960 min Winter	4.637	2.637	1.1	13.5	0 K																																																																																																																																																																																														
1440 min Winter	4.075	2.075	1.0	11.0	0 K																																																																																																																																																																																														
2160 min Winter	3.612	1.612	0.8	8.5	0 K																																																																																																																																																																																														
2880 min Winter	3.299	1.299	0.7	6.9	0 K																																																																																																																																																																																														
4320 min Winter	2.901	0.901	0.5	4.8	0 K																																																																																																																																																																																														
5760 min Winter	2.658	0.658	0.4	3.5	0 K																																																																																																																																																																																														
7200 min Winter	2.495	0.495	0.4	2.6	0 K																																																																																																																																																																																														
8640 min Winter	2.379	0.379	0.3	2.0	0 K																																																																																																																																																																																														
10080 min Winter	2.290	0.290	0.3	1.5	0 K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	55.591	0.0	37																																																																																																																																																																																																
60 min Winter	36.294	0.0	64																																																																																																																																																																																																
120 min Winter	22.911	0.0	118																																																																																																																																																																																																
180 min Winter	17.247	0.0	156																																																																																																																																																																																																
240 min Winter	13.996	0.0	190																																																																																																																																																																																																
360 min Winter	10.361	0.0	268																																																																																																																																																																																																
480 min Winter	8.372	0.0	342																																																																																																																																																																																																
600 min Winter	7.089	0.0	412																																																																																																																																																																																																
720 min Winter	6.185	0.0	480																																																																																																																																																																																																
960 min Winter	4.981	0.0	608																																																																																																																																																																																																
1440 min Winter	3.664	0.0	862																																																																																																																																																																																																
2160 min Winter	2.688	0.0	1240																																																																																																																																																																																																
2880 min Winter	2.155	0.0	1616																																																																																																																																																																																																
4320 min Winter	1.574	0.0	2340																																																																																																																																																																																																
5760 min Winter	1.258	0.0	3064																																																																																																																																																																																																
7200 min Winter	1.058	0.0	3816																																																																																																																																																																																																
8640 min Winter	0.919	0.0	4504																																																																																																																																																																																																
10080 min Winter	0.816	0.0	5248																																																																																																																																																																																																
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7 Bertal Road London SW17 0BX	Wrexham 3 x 1200mm Rings 100-Year	
Date 04.09.18	Designed by MDS	
File	Checked by MDS	
XP Solutions		Source Control 2015.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Shortest Storm (mins)	15
Ratio R	0.322	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.062

Time (mins) From: To:	Area (ha)	Time (mins) From: To:	Area (ha)	Time (mins) From: To:	Area (ha)
0 4	0.021	4 8	0.021	8 12	0.020

Time Area Diagram

Total Area (ha) 0.000

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

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7 Bertal Road London SW17 0BX	Wrexham 3 x 1200mm Rings 100-Year																					
Date 04.09.18 File	Designed by MDS Checked by MDS																					
XP Solutions Source Control 2015.1																						
<u>Model Details</u> Storage is Online Cover Level (m) 12.700 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.13176</td> <td>Ring Diameter (m)</td> <td>1.20</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.13176</td> <td>Pit Multiplier</td> <td>1.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Number Required</td> <td>3</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>2.000</td> <td>Cap Infiltration Depth (m)</td> <td>2.400</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.13176	Ring Diameter (m)	1.20	Infiltration Coefficient Side (m/hr)	0.13176	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	3	Porosity	0.30	Cap Volume Depth (m)	0.000	Invert Level (m)	2.000	Cap Infiltration Depth (m)	2.400
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Porosity	0.30	Cap Volume Depth (m)	0.000																			
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