

Paul Basham Associates				Page 1																																																																																																																																																																																																																			
Lancaster Court Fareham Hampshire, PO15 5TU		08																																																																																																																																																																																																																					
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<p>Summary of Results for 100 year Return Period (+30%)</p> <p>Half Drain Time : 148 minutes.</p> <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>-0.915</td><td>0.585</td><td>0.5</td><td>5.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>-0.742</td><td>0.758</td><td>0.6</td><td>6.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>-0.596</td><td>0.904</td><td>0.6</td><td>8.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>-0.521</td><td>0.979</td><td>0.7</td><td>8.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>-0.512</td><td>0.988</td><td>0.7</td><td>8.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>-0.524</td><td>0.976</td><td>0.7</td><td>8.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>-0.566</td><td>0.934</td><td>0.6</td><td>8.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>-0.611</td><td>0.889</td><td>0.6</td><td>8.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-0.655</td><td>0.845</td><td>0.6</td><td>7.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-0.697</td><td>0.803</td><td>0.6</td><td>7.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-0.774</td><td>0.726</td><td>0.6</td><td>6.5</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-0.907</td><td>0.593</td><td>0.5</td><td>5.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-1.060</td><td>0.440</td><td>0.4</td><td>4.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-1.174</td><td>0.326</td><td>0.4</td><td>2.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-1.328</td><td>0.172</td><td>0.3</td><td>1.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-1.418</td><td>0.082</td><td>0.3</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-1.452</td><td>0.048</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min 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Summer	-0.742	0.758	0.6	6.8	O K	60 min Summer	-0.596	0.904	0.6	8.1	O K	120 min Summer	-0.521	0.979	0.7	8.8	O K	180 min Summer	-0.512	0.988	0.7	8.9	O K	240 min Summer	-0.524	0.976	0.7	8.8	O K	360 min Summer	-0.566	0.934	0.6	8.4	O K	480 min Summer	-0.611	0.889	0.6	8.0	O K	600 min Summer	-0.655	0.845	0.6	7.6	O K	720 min Summer	-0.697	0.803	0.6	7.2	O K	960 min Summer	-0.774	0.726	0.6	6.5	O K	1440 min Summer	-0.907	0.593	0.5	5.3	O K	2160 min Summer	-1.060	0.440	0.4	4.0	O K	2880 min Summer	-1.174	0.326	0.4	2.9	O K	4320 min Summer	-1.328	0.172	0.3	1.5	O K	5760 min Summer	-1.418	0.082	0.3	0.7	O K	7200 min Summer	-1.452	0.048	0.3	0.4	O K	8640 min Summer	-1.458	0.042	0.2	0.4	O K	10080 min Summer	-1.463	0.037	0.2	0.3	O K	15 min Winter	-0.841	0.659	0.5	5.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	18	30 min Summer	77.804	0.0	32	60 min Summer	49.937	0.0	62	120 min Summer	30.956	0.0	106	180 min Summer	23.058	0.0	138	240 min Summer	18.577	0.0	170	360 min Summer	13.656	0.0	240	480 min Summer	10.974	0.0	310	600 min Summer	9.254	0.0	378	720 min Summer	8.046	0.0	446	960 min Summer	6.447	0.0	578	1440 min Summer	4.709	0.0	838	2160 min Summer	3.432	0.0	1212	2880 min Summer	2.739	0.0	1584	4320 min Summer	1.989	0.0	2292	5760 min Summer	1.583	0.0	2992	7200 min Summer	1.325	0.0	3632	8640 min Summer	1.147	0.0	4336	10080 min Summer	1.015	0.0	5136	15 min Winter	115.731	0.0	18
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Date 29/04/2019		Designed by JB			
File 08. Plots 58-62. lin100...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-0.643	0.857	0.6	7.7	O K
60 min Winter	-0.471	1.029	0.7	9.3	O K
120 min Winter	-0.375	1.125	0.7	10.1	O K
180 min Winter	-0.369	1.131	0.7	10.2	O K
240 min Winter	-0.385	1.115	0.7	10.0	O K
360 min Winter	-0.446	1.054	0.7	9.5	O K
480 min Winter	-0.515	0.985	0.7	8.9	O K
600 min Winter	-0.581	0.919	0.6	8.3	O K
720 min Winter	-0.643	0.857	0.6	7.7	O K
960 min Winter	-0.756	0.744	0.6	6.7	O K
1440 min Winter	-0.940	0.560	0.5	5.0	O K
2160 min Winter	-1.138	0.362	0.4	3.3	O K
2880 min Winter	-1.277	0.223	0.4	2.0	O K
4320 min Winter	-1.440	0.060	0.3	0.5	O K
5760 min Winter	-1.458	0.042	0.2	0.4	O K
7200 min Winter	-1.465	0.035	0.2	0.3	O K
8640 min Winter	-1.470	0.030	0.2	0.3	O K
10080 min Winter	-1.473	0.027	0.2	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	32		
60 min Winter	49.937	0.0	60		
120 min Winter	30.956	0.0	114		
180 min Winter	23.058	0.0	144		
240 min Winter	18.577	0.0	182		
360 min Winter	13.656	0.0	258		
480 min Winter	10.974	0.0	334		
600 min Winter	9.254	0.0	406		
720 min Winter	8.046	0.0	478		
960 min Winter	6.447	0.0	616		
1440 min Winter	4.709	0.0	880		
2160 min Winter	3.432	0.0	1256		
2880 min Winter	2.739	0.0	1616		
4320 min Winter	1.989	0.0	2252		
5760 min Winter	1.583	0.0	2944		
7200 min Winter	1.325	0.0	3560		
8640 min Winter	1.147	0.0	4392		
10080 min Winter	1.015	0.0	5000		
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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.13104</td> <td>Trench Width (m)</td> <td>1.5</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.13104</td> <td>Trench Length (m)</td> <td>20.0</td> </tr> <tr> <td>Safety Factor</td> <td>4.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.200</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.500</td> <td>Cap Infiltration Depth (m)</td> <td>1.200</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.13104	Trench Width (m)	1.5	Infiltration Coefficient Side (m/hr)	0.13104	Trench Length (m)	20.0	Safety Factor	4.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	1.200	Invert Level (m)	-1.500	Cap Infiltration Depth (m)	1.200
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