

Shaun Tonge Engineering				Page 1																																																																																																																																																																																																																			
11 Broomhead Road Wombell Barnsley S73 0SA																																																																																																																																																																																																																							
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<u>Summary of Results for 10 year Return Period</u> Half Drain Time : 139 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>66.906</td><td>0.256</td><td>0.4</td><td>3.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>66.974</td><td>0.324</td><td>0.4</td><td>4.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>67.031</td><td>0.381</td><td>0.4</td><td>5.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>67.060</td><td>0.410</td><td>0.4</td><td>5.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>67.065</td><td>0.415</td><td>0.4</td><td>5.5</td><td>O K</td></tr><tr><td>240 min Summer</td><td>67.061</td><td>0.411</td><td>0.4</td><td>5.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>67.045</td><td>0.395</td><td>0.4</td><td>5.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>67.027</td><td>0.377</td><td>0.4</td><td>5.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>67.008</td><td>0.358</td><td>0.4</td><td>4.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>66.989</td><td>0.339</td><td>0.4</td><td>4.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>66.952</td><td>0.302</td><td>0.4</td><td>4.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>66.887</td><td>0.237</td><td>0.4</td><td>3.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>66.811</td><td>0.161</td><td>0.3</td><td>2.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>66.758</td><td>0.108</td><td>0.3</td><td>1.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>66.702</td><td>0.052</td><td>0.3</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>66.692</td><td>0.042</td><td>0.2</td><td>0.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>66.686</td><td>0.036</td><td>0.2</td><td>0.5</td><td>O K</td></tr><tr><td>8640 min 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Summer	66.974	0.324	0.4	4.3	O K	60 min Summer	67.031	0.381	0.4	5.1	O K	120 min Summer	67.060	0.410	0.4	5.4	O K	180 min Summer	67.065	0.415	0.4	5.5	O K	240 min Summer	67.061	0.411	0.4	5.4	O K	360 min Summer	67.045	0.395	0.4	5.3	O K	480 min Summer	67.027	0.377	0.4	5.0	O K	600 min Summer	67.008	0.358	0.4	4.8	O K	720 min Summer	66.989	0.339	0.4	4.5	O K	960 min Summer	66.952	0.302	0.4	4.0	O K	1440 min Summer	66.887	0.237	0.4	3.2	O K	2160 min Summer	66.811	0.161	0.3	2.1	O K	2880 min Summer	66.758	0.108	0.3	1.4	O K	4320 min Summer	66.702	0.052	0.3	0.7	O K	5760 min Summer	66.692	0.042	0.2	0.6	O K	7200 min Summer	66.686	0.036	0.2	0.5	O K	8640 min Summer	66.681	0.031	0.2	0.4	O K	10080 min Summer	66.678	0.028	0.2	0.4	O K	15 min Winter	66.938	0.288	0.4	3.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	54.387	0.0	18	30 min Summer	35.904	0.0	32	60 min Summer	22.792	0.0	62	120 min Summer	14.117	0.0	106	180 min Summer	10.583	0.0	138	240 min Summer	8.599	0.0	172	360 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CADS		Source Control 2016.1			
<u>Summary of Results for 10 year Return Period</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	67.017	0.367	0.4	4.9	O K
60 min Winter	67.172	0.522	0.4	5.8	O K
120 min Winter	67.715	1.065	0.4	6.3	O K
180 min Winter	67.738	1.088	0.4	6.4	O K
240 min Winter	67.667	1.017	0.4	6.3	O K
360 min Winter	67.340	0.690	0.4	6.0	O K
480 min Winter	67.071	0.421	0.4	5.5	O K
600 min Winter	67.036	0.386	0.4	5.1	O K
720 min Winter	67.006	0.356	0.4	4.7	O K
960 min Winter	66.950	0.300	0.4	4.0	O K
1440 min Winter	66.856	0.206	0.3	2.7	O K
2160 min Winter	66.755	0.105	0.3	1.4	O K
2880 min Winter	66.701	0.051	0.3	0.7	O K
4320 min Winter	66.688	0.038	0.2	0.5	O K
5760 min Winter	66.680	0.030	0.2	0.4	O K
7200 min Winter	66.676	0.026	0.1	0.3	O K
8640 min Winter	66.673	0.023	0.1	0.3	O K
10080 min Winter	66.670	0.020	0.1	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	35.904	0.0	32		
60 min Winter	22.792	0.0	60		
120 min Winter	14.117	0.0	116		
180 min Winter	10.583	0.0	148		
240 min Winter	8.599	0.0	186		
360 min Winter	6.406	0.0	262		
480 min Winter	5.195	0.0	336		
600 min Winter	4.413	0.0	408		
720 min Winter	3.861	0.0	478		
960 min Winter	3.126	0.0	616		
1440 min Winter	2.320	0.0	878		
2160 min Winter	1.720	0.0	1232		
2880 min Winter	1.391	0.0	1496		
4320 min Winter	1.030	0.0	2196		
5760 min Winter	0.832	0.0	2936		
7200 min Winter	0.705	0.0	3672		
8640 min Winter	0.616	0.0	4416		
10080 min Winter	0.549	0.0	5064		
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