

Keytech Development Design Ltd				Page 1																																																																																																																																																																																																																			
Riverside Offices Mountbatten Way Congleton, CW12 1DY		K24-032 LILAC GROVE CELLULAR SOAKAWAY																																																																																																																																																																																																																					
Date 18/07/2024 File SOAKAWAY.SRCX		Designed by HB Checked by																																																																																																																																																																																																																					
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 571 minutes. <table><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><tr><td>15 min Summer</td><td>98.099</td><td>0.499</td><td>0.1</td><td>4.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.251</td><td>0.651</td><td>0.1</td><td>5.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>98.405</td><td>0.805</td><td>0.1</td><td>6.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>98.550</td><td>0.950</td><td>0.2</td><td>8.1</td><td>O K</td></tr><tr><td>180 min Summer</td><td>98.620</td><td>1.020</td><td>0.2</td><td>8.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>98.658</td><td>1.058</td><td>0.2</td><td>9.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>98.686</td><td>1.086</td><td>0.2</td><td>9.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.693</td><td>1.093</td><td>0.2</td><td>9.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.696</td><td>1.096</td><td>0.2</td><td>9.4</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.697</td><td>1.097</td><td>0.2</td><td>9.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.693</td><td>1.093</td><td>0.2</td><td>9.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.665</td><td>1.065</td><td>0.2</td><td>9.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.609</td><td>1.009</td><td>0.2</td><td>8.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.551</td><td>0.951</td><td>0.2</td><td>8.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.448</td><td>0.848</td><td>0.1</td><td>7.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.364</td><td>0.764</td><td>0.1</td><td>6.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.297</td><td>0.697</td><td>0.1</td><td>6.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>98.242</td><td>0.642</td><td>0.1</td><td>5.5</td><td>O 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Summer	98.550	0.950	0.2	8.1	O K	180 min Summer	98.620	1.020	0.2	8.7	O K	240 min Summer	98.658	1.058	0.2	9.0	O K	360 min Summer	98.686	1.086	0.2	9.3	O K	480 min Summer	98.693	1.093	0.2	9.3	O K	600 min Summer	98.696	1.096	0.2	9.4	O K	720 min Summer	98.697	1.097	0.2	9.4	O K	960 min Summer	98.693	1.093	0.2	9.3	O K	1440 min Summer	98.665	1.065	0.2	9.1	O K	2160 min Summer	98.609	1.009	0.2	8.6	O K	2880 min Summer	98.551	0.951	0.2	8.1	O K	4320 min Summer	98.448	0.848	0.1	7.2	O K	5760 min Summer	98.364	0.764	0.1	6.5	O K	7200 min Summer	98.297	0.697	0.1	6.0	O K	8640 min Summer	98.242	0.642	0.1	5.5	O K	10080 min Summer	98.195	0.595	0.1	5.1	O K	15 min Winter	98.159	0.559	0.1	4.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.584	0.0	26	30 min Summer	76.054	0.0	41	60 min Summer	47.821	0.0	70	120 min Summer	29.168	0.0	126	180 min Summer	21.604	0.0	184	240 min Summer	17.380	0.0	242	360 min Summer	12.705	0.0	348	480 min Summer	10.119	0.0	398	600 min Summer	8.477	0.0	458	720 min Summer	7.340	0.0	522	960 min Summer	5.844	0.0	658	1440 min Summer	4.232	0.0	930	2160 min Summer	3.059	0.0	1340	2880 min Summer	2.428	0.0	1736	4320 min Summer	1.751	0.0	2512	5760 min Summer	1.387	0.0	3288	7200 min Summer	1.157	0.0	4032	8640 min Summer	0.998	0.0	4760	10080 min Summer	0.880	0.0	5544	15 min Winter	115.584	0.0	26
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Riverside Offices Mountbatten Way Congleton, CW12 1DY		K24-032 LILAC GROVE CELLULAR SOAKAWAY				
Date 18/07/2024 File SOAKAWAY.SRCX		Designed by HB Checked by				
Innovyze		Source Control 2020.1.3				
Summary of Results for 100 year Return Period (+40%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	98.330	0.730	0.1	6.2	O K	
60 min Winter	98.503	0.903	0.2	7.7	O K	
120 min Winter	98.666	1.066	0.2	9.1	O K	
180 min Winter	98.747	1.147	0.2	9.8	O K	
240 min Winter	98.791	1.191	0.2	10.2	O K	
360 min Winter	98.826	1.226	0.2	10.5	O K	
480 min Winter	98.827	1.227	0.2	10.5	O K	
600 min Winter	98.827	1.227	0.2	10.5	O K	
720 min Winter	98.825	1.225	0.2	10.5	O K	
960 min Winter	98.808	1.208	0.2	10.3	O K	
1440 min Winter	98.754	1.154	0.2	9.9	O K	
2160 min Winter	98.663	1.063	0.2	9.1	O K	
2880 min Winter	98.578	0.978	0.2	8.4	O K	
4320 min Winter	98.439	0.839	0.1	7.2	O K	
5760 min Winter	98.333	0.733	0.1	6.3	O K	
7200 min Winter	98.250	0.650	0.1	5.6	O K	
8640 min Winter	98.185	0.585	0.1	5.0	O K	
10080 min Winter	98.132	0.532	0.1	4.6	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	76.054	0.0	40			
60 min Winter	47.821	0.0	68			
120 min Winter	29.168	0.0	124			
180 min Winter	21.604	0.0	182			
240 min Winter	17.380	0.0	238			
360 min Winter	12.705	0.0	346			
480 min Winter	10.119	0.0	440			
600 min Winter	8.477	0.0	474			
720 min Winter	7.340	0.0	550			
960 min Winter	5.844	0.0	702			
1440 min Winter	4.232	0.0	1000			
2160 min Winter	3.059	0.0	1432			
2880 min Winter	2.428	0.0	1848			
4320 min Winter	1.751	0.0	2640			
5760 min Winter	1.387	0.0	3408			
7200 min Winter	1.157	0.0	4184			
8640 min Winter	0.998	0.0	4928			
10080 min Winter	0.880	0.0	5656			
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