

MTC Engineering (Cambridge) Ltd					Page 1																																																																																																																																																																																																																		
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Summary of Results for 10 year Return Period Half Drain Time : 1742 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>1.206</td><td>0.406</td><td>0.0</td><td>1.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.320</td><td>0.520</td><td>0.0</td><td>2.5</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.436</td><td>0.636</td><td>0.0</td><td>3.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>1.553</td><td>0.753</td><td>0.0</td><td>3.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>1.620</td><td>0.820</td><td>0.0</td><td>3.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>1.667</td><td>0.867</td><td>0.0</td><td>4.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>1.727</td><td>0.927</td><td>0.0</td><td>4.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>1.765</td><td>0.965</td><td>0.0</td><td>4.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>1.789</td><td>0.989</td><td>0.0</td><td>4.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>1.806</td><td>1.006</td><td>0.0</td><td>4.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>1.821</td><td>1.021</td><td>0.0</td><td>4.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>1.822</td><td>1.022</td><td>0.0</td><td>4.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>1.810</td><td>1.010</td><td>0.0</td><td>4.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>1.792</td><td>0.992</td><td>0.0</td><td>4.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>1.743</td><td>0.943</td><td>0.0</td><td>4.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>1.693</td><td>0.893</td><td>0.0</td><td>4.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>1.645</td><td>0.845</td><td>0.0</td><td>4.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>1.602</td><td>0.802</td><td>0.0</td><td>3.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>1.562</td><td>0.762</td><td>0.0</td><td>3.6</td><td>O K</td></tr><tr><td>15 min Winter</td><td>1.255</td><td>0.455</td><td>0.0</td><td>2.2</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>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>57.602</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>36.990</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>22.792</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>13.696</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>10.091</td><td>0.0</td><td>184</td></tr><tr><td>240 min Summer</td><td>8.104</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>5.929</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>4.749</td><td>0.0</td><td>482</td></tr><tr><td>600 min 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Summer	1.320	0.520	0.0	2.5	O K	60 min Summer	1.436	0.636	0.0	3.0	O K	120 min Summer	1.553	0.753	0.0	3.6	O K	180 min Summer	1.620	0.820	0.0	3.9	O K	240 min Summer	1.667	0.867	0.0	4.1	O K	360 min Summer	1.727	0.927	0.0	4.4	O K	480 min Summer	1.765	0.965	0.0	4.6	O K	600 min Summer	1.789	0.989	0.0	4.7	O K	720 min Summer	1.806	1.006	0.0	4.8	O K	960 min Summer	1.821	1.021	0.0	4.9	O K	1440 min Summer	1.822	1.022	0.0	4.9	O K	2160 min Summer	1.810	1.010	0.0	4.8	O K	2880 min Summer	1.792	0.992	0.0	4.7	O K	4320 min Summer	1.743	0.943	0.0	4.5	O K	5760 min Summer	1.693	0.893	0.0	4.2	O K	7200 min Summer	1.645	0.845	0.0	4.0	O K	8640 min Summer	1.602	0.802	0.0	3.8	O K	10080 min Summer	1.562	0.762	0.0	3.6	O K	15 min Winter	1.255	0.455	0.0	2.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	57.602	0.0	19	30 min Summer	36.990	0.0	34	60 min Summer	22.792	0.0	64	120 min Summer	13.696	0.0	124	180 min Summer	10.091	0.0	184	240 min Summer	8.104	0.0	242	360 min Summer	5.929	0.0	362	480 min Summer	4.749	0.0	482	600 min Summer	3.995	0.0	602	720 min Summer	3.469	0.0	722	960 min Summer	2.774	0.0	960	1440 min Summer	2.023	0.0	1254	2160 min Summer	1.475	0.0	1624	2880 min Summer	1.178	0.0	2020	4320 min Summer	0.858	0.0	2852	5760 min Summer	0.685	0.0	3688	7200 min Summer	0.575	0.0	4536	8640 min Summer	0.498	0.0	5352	10080 min Summer	0.441	0.0	6152	15 min Winter	57.602	0.0	19
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Date 17/04/2024 16:28 File 3234-REAR SOAKAWAY.SRCX		Designed by JTC Checked by			
Innovyze		Source Control 2020.1			
<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	1.383	0.583	0.0	2.8	O K
60 min Winter	1.513	0.713	0.0	3.4	O K
120 min Winter	1.645	0.845	0.0	4.0	O K
180 min Winter	1.722	0.922	0.0	4.4	O K
240 min Winter	1.775	0.975	0.0	4.6	O K
360 min Winter	1.845	1.045	0.0	5.0	O K
480 min Winter	1.889	1.089	0.0	5.2	O K
600 min Winter	1.920	1.120	0.0	5.3	O K
720 min Winter	1.941	1.141	0.0	5.4	O K
960 min Winter	1.964	1.164	0.0	5.5	O K
1440 min Winter	1.971	1.171	0.0	5.6	O K
2160 min Winter	1.953	1.153	0.0	5.5	O K
2880 min Winter	1.928	1.128	0.0	5.4	O K
4320 min Winter	1.861	1.061	0.0	5.0	O K
5760 min Winter	1.787	0.987	0.0	4.7	O K
7200 min Winter	1.718	0.918	0.0	4.4	O K
8640 min Winter	1.655	0.855	0.0	4.1	O K
10080 min Winter	1.597	0.797	0.0	3.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	36.990	0.0	34		
60 min Winter	22.792	0.0	64		
120 min Winter	13.696	0.0	122		
180 min Winter	10.091	0.0	180		
240 min Winter	8.104	0.0	240		
360 min Winter	5.929	0.0	356		
480 min Winter	4.749	0.0	474		
600 min Winter	3.995	0.0	590		
720 min Winter	3.469	0.0	702		
960 min Winter	2.774	0.0	926		
1440 min Winter	2.023	0.0	1356		
2160 min Winter	1.475	0.0	1688		
2880 min Winter	1.178	0.0	2160		
4320 min Winter	0.858	0.0	3072		
5760 min Winter	0.685	0.0	3976		
7200 min Winter	0.575	0.0	4832		
8640 min Winter	0.498	0.0	5704		
10080 min Winter	0.441	0.0	6552		
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Model Details Storage is Online Cover Level (m) 2.300 Cellular Storage Structure Invert Level (m) 0.800 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.01500 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.01500 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>5.0</td><td>5.0</td><td>1.201</td><td>0.0</td><td>15.7</td></tr><tr><td>1.200</td><td>5.0</td><td>15.7</td><td></td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	5.0	5.0	1.201	0.0	15.7	1.200	5.0	15.7			
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