

The Civil Engineering Practice					Page 1																																																																																																																																																																																																																			
11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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Summary of Results for 100 year Return Period (+30%) Half Drain Time : 22 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>13.835</td><td>1.785</td><td>4.8</td><td>7.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.138</td><td>2.088</td><td>5.5</td><td>8.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.304</td><td>2.254</td><td>5.5</td><td>8.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.055</td><td>2.005</td><td>5.4</td><td>8.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.845</td><td>1.795</td><td>4.8</td><td>7.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.664</td><td>1.614</td><td>4.4</td><td>6.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.400</td><td>1.350</td><td>3.6</td><td>5.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.217</td><td>1.167</td><td>3.2</td><td>4.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.082</td><td>1.032</td><td>2.8</td><td>4.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.978</td><td>0.928</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.826</td><td>0.776</td><td>2.1</td><td>3.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.643</td><td>0.593</td><td>1.6</td><td>2.4</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.496</td><td>0.446</td><td>1.2</td><td>1.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.411</td><td>0.361</td><td>1.0</td><td>1.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.315</td><td>0.265</td><td>0.7</td><td>1.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.261</td><td>0.211</td><td>0.6</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.227</td><td>0.177</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.203</td><td>0.153</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.186</td><td>0.136</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.037</td><td>1.987</td><td>5.4</td><td>7.9</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4336</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5120</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.835	1.785	4.8	7.1	O K	30 min Summer	14.138	2.088	5.5	8.2	O K	60 min Summer	14.304	2.254	5.5	8.7	O K	120 min Summer	14.055	2.005	5.4	8.0	O K	180 min Summer	13.845	1.795	4.8	7.1	O K	240 min Summer	13.664	1.614	4.4	6.4	O K	360 min Summer	13.400	1.350	3.6	5.4	O K	480 min Summer	13.217	1.167	3.2	4.6	O K	600 min Summer	13.082	1.032	2.8	4.1	O K	720 min Summer	12.978	0.928	2.5	3.7	O K	960 min Summer	12.826	0.776	2.1	3.1	O K	1440 min Summer	12.643	0.593	1.6	2.4	O K	2160 min Summer	12.496	0.446	1.2	1.8	O K	2880 min Summer	12.411	0.361	1.0	1.4	O K	4320 min Summer	12.315	0.265	0.7	1.1	O K	5760 min Summer	12.261	0.211	0.6	0.8	O K	7200 min Summer	12.227	0.177	0.5	0.7	O K	8640 min Summer	12.203	0.153	0.4	0.6	O K	10080 min Summer	12.186	0.136	0.4	0.5	O K	15 min Winter	14.037	1.987	5.4	7.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4336	10080 min Summer	1.019	0.0	5120	15 min Winter	116.400	0.0	17
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Date April 2015 File HWSA01.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	14.519	2.469	5.5	9.2	O K	
60 min Winter	14.571	2.521	5.5	9.3	O K	
120 min Winter	14.051	2.001	5.4	7.9	O K	
180 min Winter	13.761	1.711	4.6	6.8	O K	
240 min Winter	13.534	1.484	4.0	5.9	O K	
360 min Winter	13.228	1.178	3.2	4.7	O K	
480 min Winter	13.032	0.982	2.7	3.9	O K	
600 min Winter	12.896	0.846	2.3	3.4	O K	
720 min Winter	12.796	0.746	2.0	3.0	O K	
960 min Winter	12.657	0.607	1.6	2.4	O K	
1440 min Winter	12.499	0.449	1.2	1.8	O K	
2160 min Winter	12.380	0.330	0.9	1.3	O K	
2880 min Winter	12.314	0.264	0.7	1.0	O K	
4320 min Winter	12.242	0.192	0.5	0.8	O K	
5760 min Winter	12.203	0.153	0.4	0.6	O K	
7200 min Winter	12.178	0.128	0.3	0.5	O K	
8640 min Winter	12.161	0.111	0.3	0.4	O K	
10080 min Winter	12.148	0.098	0.3	0.4	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	27			
60 min Winter	50.211	0.0	46			
120 min Winter	31.113	0.0	78			
180 min Winter	23.167	0.0	110			
240 min Winter	18.658	0.0	142			
360 min Winter	13.718	0.0	204			
480 min Winter	11.023	0.0	264			
600 min Winter	9.295	0.0	324			
720 min Winter	8.082	0.0	384			
960 min Winter	6.475	0.0	504			
1440 min Winter	4.729	0.0	742			
2160 min Winter	3.446	0.0	1104			
2880 min Winter	2.750	0.0	1468			
4320 min Winter	1.997	0.0	2204			
5760 min Winter	1.589	0.0	2936			
7200 min Winter	1.330	0.0	3632			
8640 min Winter	1.151	0.0	4296			
10080 min Winter	1.019	0.0	5064			
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.450

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.950
Invert Level (m) 12.050	Cap Infiltration Depth (m) 2.050

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Summer</td><td>13.311</td><td>0.861</td><td>1.6</td><td>1.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.202</td><td>0.752</td><td>1.4</td><td>1.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.119</td><td>0.669</td><td>1.2</td><td>1.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.003</td><td>0.553</td><td>1.0</td><td>1.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.867</td><td>0.417</td><td>0.8</td><td>0.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.759</td><td>0.309</td><td>0.6</td><td>0.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.699</td><td>0.249</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.631</td><td>0.181</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.594</td><td>0.144</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.571</td><td>0.121</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.555</td><td>0.105</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.543</td><td>0.093</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.266</td><td>1.816</td><td>3.3</td><td>3.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>16</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>24</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>40</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>72</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>194</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>254</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>314</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>374</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2192</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2920</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4344</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5024</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.088	1.638	2.9	2.9	O K	30 min Summer	14.303	1.853	3.3	3.3	O K	60 min Summer	14.309	1.859	3.3	3.3	O K	120 min Summer	14.082	1.632	2.9	2.9	O K	180 min Summer	13.864	1.414	2.5	2.5	O K	240 min Summer	13.697	1.247	2.2	2.2	O K	360 min Summer	13.464	1.014	1.8	1.8	O K	480 min Summer	13.311	0.861	1.6	1.5	O K	600 min Summer	13.202	0.752	1.4	1.3	O K	720 min Summer	13.119	0.669	1.2	1.2	O K	960 min Summer	13.003	0.553	1.0	1.0	O K	1440 min Summer	12.867	0.417	0.8	0.7	O K	2160 min Summer	12.759	0.309	0.6	0.5	O K	2880 min Summer	12.699	0.249	0.4	0.4	O K	4320 min Summer	12.631	0.181	0.3	0.3	O K	5760 min Summer	12.594	0.144	0.3	0.3	O K	7200 min Summer	12.571	0.121	0.2	0.2	O K	8640 min Summer	12.555	0.105	0.2	0.2	O K	10080 min Summer	12.543	0.093	0.2	0.2	O K	15 min Winter	14.266	1.816	3.3	3.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	16	30 min Summer	78.248	0.0	24	60 min Summer	50.211	0.0	40	120 min Summer	31.113	0.0	72	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	194	480 min Summer	11.023	0.0	254	600 min Summer	9.295	0.0	314	720 min Summer	8.082	0.0	374	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1100	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2192	5760 min Summer	1.589	0.0	2920	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4344	10080 min Summer	1.019	0.0	5024	15 min Winter	116.400	0.0	17
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA02.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.465	2.015	3.6	3.6	O K
60 min Winter	14.374	1.924	3.5	3.4	O K
120 min Winter	14.010	1.560	2.8	2.8	O K
180 min Winter	13.736	1.286	2.3	2.3	O K
240 min Winter	13.541	1.091	2.0	1.9	O K
360 min Winter	13.293	0.843	1.5	1.5	O K
480 min Winter	13.143	0.693	1.2	1.2	O K
600 min Winter	13.042	0.592	1.1	1.0	O K
720 min Winter	12.968	0.518	0.9	0.9	O K
960 min Winter	12.869	0.419	0.8	0.7	O K
1440 min Winter	12.758	0.308	0.6	0.5	O K
2160 min Winter	12.676	0.226	0.4	0.4	O K
2880 min Winter	12.630	0.180	0.3	0.3	O K
4320 min Winter	12.581	0.131	0.2	0.2	O K
5760 min Winter	12.554	0.104	0.2	0.2	O K
7200 min Winter	12.537	0.087	0.2	0.2	O K
8640 min Winter	12.526	0.076	0.1	0.1	O K
10080 min Winter	12.517	0.067	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	25		
60 min Winter	50.211	0.0	42		
120 min Winter	31.113	0.0	74		
180 min Winter	23.167	0.0	106		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2192		
5760 min Winter	1.589	0.0	2872		
7200 min Winter	1.330	0.0	3576		
8640 min Winter	1.151	0.0	4280		
10080 min Winter	1.019	0.0	5096		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA02.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.850

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.950
Invert Level (m) 12.450	Cap Infiltration Depth (m) 2.050

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Summary of Results for 100 year Return Period (+30%) Half Drain Time : 23 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>14.458</td><td>1.417</td><td>4.5</td><td>7.7</td><td>○ K</td></tr><tr><td>30 min Summer</td><td>14.796</td><td>1.755</td><td>4.8</td><td>9.0</td><td>○ K</td></tr><tr><td>60 min Summer</td><td>14.987</td><td>1.946</td><td>4.8</td><td>9.7</td><td>○ K</td></tr><tr><td>120 min Summer</td><td>14.813</td><td>1.772</td><td>4.8</td><td>9.1</td><td>○ K</td></tr><tr><td>180 min Summer</td><td>14.549</td><td>1.508</td><td>4.7</td><td>8.1</td><td>○ K</td></tr><tr><td>240 min Summer</td><td>14.410</td><td>1.369</td><td>4.3</td><td>7.4</td><td>○ K</td></tr><tr><td>360 min Summer</td><td>14.198</td><td>1.157</td><td>3.6</td><td>6.3</td><td>○ K</td></tr><tr><td>480 min Summer</td><td>14.049</td><td>1.008</td><td>3.2</td><td>5.4</td><td>○ K</td></tr><tr><td>600 min Summer</td><td>13.937</td><td>0.896</td><td>2.8</td><td>4.8</td><td>○ K</td></tr><tr><td>720 min Summer</td><td>13.850</td><td>0.809</td><td>2.5</td><td>4.4</td><td>○ K</td></tr><tr><td>960 min Summer</td><td>13.722</td><td>0.681</td><td>2.1</td><td>3.7</td><td>○ K</td></tr><tr><td>1440 min Summer</td><td>13.564</td><td>0.523</td><td>1.6</td><td>2.8</td><td>○ K</td></tr><tr><td>2160 min Summer</td><td>13.437</td><td>0.396</td><td>1.2</td><td>2.1</td><td>○ K</td></tr><tr><td>2880 min Summer</td><td>13.362</td><td>0.321</td><td>1.0</td><td>1.7</td><td>○ K</td></tr><tr><td>4320 min Summer</td><td>13.278</td><td>0.237</td><td>0.7</td><td>1.3</td><td>○ K</td></tr><tr><td>5760 min Summer</td><td>13.230</td><td>0.189</td><td>0.6</td><td>1.0</td><td>○ K</td></tr><tr><td>7200 min Summer</td><td>13.200</td><td>0.159</td><td>0.5</td><td>0.9</td><td>○ K</td></tr><tr><td>8640 min Summer</td><td>13.178</td><td>0.137</td><td>0.4</td><td>0.7</td><td>○ K</td></tr><tr><td>10080 min Summer</td><td>13.163</td><td>0.122</td><td>0.4</td><td>0.7</td><td>○ K</td></tr><tr><td>15 min Winter</td><td>14.652</td><td>1.611</td><td>4.8</td><td>8.6</td><td>○ 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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>200</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>260</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>322</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>502</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>742</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5096</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.458	1.417	4.5	7.7	○ K	30 min Summer	14.796	1.755	4.8	9.0	○ K	60 min Summer	14.987	1.946	4.8	9.7	○ K	120 min Summer	14.813	1.772	4.8	9.1	○ K	180 min Summer	14.549	1.508	4.7	8.1	○ K	240 min Summer	14.410	1.369	4.3	7.4	○ K	360 min Summer	14.198	1.157	3.6	6.3	○ K	480 min Summer	14.049	1.008	3.2	5.4	○ K	600 min Summer	13.937	0.896	2.8	4.8	○ K	720 min Summer	13.850	0.809	2.5	4.4	○ K	960 min Summer	13.722	0.681	2.1	3.7	○ K	1440 min Summer	13.564	0.523	1.6	2.8	○ K	2160 min Summer	13.437	0.396	1.2	2.1	○ K	2880 min Summer	13.362	0.321	1.0	1.7	○ K	4320 min Summer	13.278	0.237	0.7	1.3	○ K	5760 min Summer	13.230	0.189	0.6	1.0	○ K	7200 min Summer	13.200	0.159	0.5	0.9	○ K	8640 min Summer	13.178	0.137	0.4	0.7	○ K	10080 min Summer	13.163	0.122	0.4	0.7	○ K	15 min Winter	14.652	1.611	4.8	8.6	○ K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	200	480 min Summer	11.023	0.0	260	600 min Summer	9.295	0.0	322	720 min Summer	8.082	0.0	382	960 min Summer	6.475	0.0	502	1440 min Summer	4.729	0.0	742	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5096	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067			
Date April 2015 File HWSA03 As Built.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
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	15.133	2.092	4.8	10.2	O K	
60 min Winter	15.265	2.224	4.8	10.7	O K	
120 min Winter	14.871	1.830	4.8	9.3	O K	
180 min Winter	14.504	1.463	4.6	7.9	O K	
240 min Winter	14.323	1.282	4.0	6.9	O K	
360 min Winter	14.070	1.029	3.2	5.6	O K	
480 min Winter	13.906	0.865	2.7	4.7	O K	
600 min Winter	13.789	0.748	2.4	4.0	O K	
720 min Winter	13.702	0.661	2.1	3.6	O K	
960 min Winter	13.581	0.540	1.7	2.9	O K	
1440 min Winter	13.442	0.401	1.3	2.2	O K	
2160 min Winter	13.336	0.295	0.9	1.6	O K	
2880 min Winter	13.277	0.236	0.7	1.3	O K	
4320 min Winter	13.213	0.172	0.5	0.9	O K	
5760 min Winter	13.178	0.137	0.4	0.7	O K	
7200 min Winter	13.156	0.115	0.4	0.6	O K	
8640 min Winter	13.140	0.099	0.3	0.5	O K	
10080 min Winter	13.129	0.088	0.3	0.5	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	28			
60 min Winter	50.211	0.0	46			
120 min Winter	31.113	0.0	80			
180 min Winter	23.167	0.0	112			
240 min Winter	18.658	0.0	144			
360 min Winter	13.718	0.0	206			
480 min Winter	11.023	0.0	266			
600 min Winter	9.295	0.0	328			
720 min Winter	8.082	0.0	388			
960 min Winter	6.475	0.0	508			
1440 min Winter	4.729	0.0	750			
2160 min Winter	3.446	0.0	1108			
2880 min Winter	2.750	0.0	1472			
4320 min Winter	1.997	0.0	2204			
5760 min Winter	1.589	0.0	2936			
7200 min Winter	1.330	0.0	3672			
8640 min Winter	1.151	0.0	4296			
10080 min Winter	1.019	0.0	5136			
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067											
Date April 2015 File HWSA03 As Built.srcx	Designed by SRD Checked by											
XP Solutions Source Control 2015.1												
<u>Model Details</u> Storage is Online Cover Level (m) 15.925 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 2.10</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.434</td> </tr> <tr> <td>Invert Level (m) 13.041</td> <td>Cap Infiltration Depth (m) 1.534</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 2.10	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.434	Invert Level (m) 13.041	Cap Infiltration Depth (m) 1.534
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Summer</td><td>14.336</td><td>1.061</td><td>2.9</td><td>4.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>14.214</td><td>0.939</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>14.118</td><td>0.843</td><td>2.3</td><td>3.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.980</td><td>0.705</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.814</td><td>0.539</td><td>1.5</td><td>2.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.681</td><td>0.406</td><td>1.1</td><td>1.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.603</td><td>0.328</td><td>0.9</td><td>1.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>13.516</td><td>0.241</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>13.467</td><td>0.192</td><td>0.5</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>13.436</td><td>0.161</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>13.414</td><td>0.139</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>13.398</td><td>0.123</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>15.187</td><td>1.912</td><td>4.5</td><td>7.2</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2928</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.898	1.623	4.4	6.4	O K	30 min Summer	15.340	2.065	4.5	7.6	O K	60 min Summer	15.511	2.236	4.5	8.0	O K	120 min Summer	15.249	1.974	4.5	7.4	O K	180 min Summer	14.907	1.632	4.4	6.5	O K	240 min Summer	14.742	1.467	4.0	5.8	O K	360 min Summer	14.502	1.227	3.3	4.9	O K	480 min Summer	14.336	1.061	2.9	4.2	O K	600 min Summer	14.214	0.939	2.5	3.7	O K	720 min Summer	14.118	0.843	2.3	3.3	O K	960 min Summer	13.980	0.705	1.9	2.8	O K	1440 min Summer	13.814	0.539	1.5	2.1	O K	2160 min Summer	13.681	0.406	1.1	1.6	O K	2880 min Summer	13.603	0.328	0.9	1.3	O K	4320 min Summer	13.516	0.241	0.7	1.0	O K	5760 min Summer	13.467	0.192	0.5	0.8	O K	7200 min Summer	13.436	0.161	0.4	0.6	O K	8640 min Summer	13.414	0.139	0.4	0.6	O K	10080 min Summer	13.398	0.123	0.3	0.5	O K	15 min Winter	15.187	1.912	4.5	7.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 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240 min Summer	14.742	1.467	4.0	5.8	O K																																																																																																																																																																																																																			
360 min Summer	14.502	1.227	3.3	4.9	O K																																																																																																																																																																																																																			
480 min Summer	14.336	1.061	2.9	4.2	O K																																																																																																																																																																																																																			
600 min Summer	14.214	0.939	2.5	3.7	O K																																																																																																																																																																																																																			
720 min Summer	14.118	0.843	2.3	3.3	O K																																																																																																																																																																																																																			
960 min Summer	13.980	0.705	1.9	2.8	O K																																																																																																																																																																																																																			
1440 min Summer	13.814	0.539	1.5	2.1	O K																																																																																																																																																																																																																			
2160 min Summer	13.681	0.406	1.1	1.6	O K																																																																																																																																																																																																																			
2880 min Summer	13.603	0.328	0.9	1.3	O K																																																																																																																																																																																																																			
4320 min Summer	13.516	0.241	0.7	1.0	O K																																																																																																																																																																																																																			
5760 min Summer	13.467	0.192	0.5	0.8	O K																																																																																																																																																																																																																			
7200 min Summer	13.436	0.161	0.4	0.6	O K																																																																																																																																																																																																																			
8640 min Summer	13.414	0.139	0.4	0.6	O K																																																																																																																																																																																																																			
10080 min Summer	13.398	0.123	0.3	0.5	O K																																																																																																																																																																																																																			
15 min Winter	15.187	1.912	4.5	7.2	O K																																																																																																																																																																																																																			
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																					
15 min Summer	116.400	0.0	17																																																																																																																																																																																																																					
30 min Summer	78.248	0.0	26																																																																																																																																																																																																																					
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480 min Summer	11.023	0.0	258																																																																																																																																																																																																																					
600 min Summer	9.295	0.0	320																																																																																																																																																																																																																					
720 min Summer	8.082	0.0	380																																																																																																																																																																																																																					
960 min Summer	6.475	0.0	500																																																																																																																																																																																																																					
1440 min Summer	4.729	0.0	740																																																																																																																																																																																																																					
2160 min Summer	3.446	0.0	1104																																																																																																																																																																																																																					
2880 min Summer	2.750	0.0	1468																																																																																																																																																																																																																					
4320 min Summer	1.997	0.0	2200																																																																																																																																																																																																																					
5760 min Summer	1.589	0.0	2928																																																																																																																																																																																																																					
7200 min Summer	1.330	0.0	3672																																																																																																																																																																																																																					
8640 min Summer	1.151	0.0	4400																																																																																																																																																																																																																					
10080 min Summer	1.019	0.0	5136																																																																																																																																																																																																																					
15 min Winter	116.400	0.0	18																																																																																																																																																																																																																					
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	15.723	2.448	4.5	8.6	O K
60 min Winter	15.818	2.543	4.5	8.8	O K
120 min Winter	15.266	1.991	4.5	7.4	O K
180 min Winter	14.831	1.556	4.2	6.2	O K
240 min Winter	14.624	1.349	3.6	5.4	O K
360 min Winter	14.346	1.071	2.9	4.2	O K
480 min Winter	14.168	0.893	2.4	3.5	O K
600 min Winter	14.044	0.769	2.1	3.1	O K
720 min Winter	13.953	0.678	1.8	2.7	O K
960 min Winter	13.826	0.551	1.5	2.2	O K
1440 min Winter	13.683	0.408	1.1	1.6	O K
2160 min Winter	13.575	0.300	0.8	1.2	O K
2880 min Winter	13.515	0.240	0.6	1.0	O K
4320 min Winter	13.449	0.174	0.5	0.7	O K
5760 min Winter	13.414	0.139	0.4	0.6	O K
7200 min Winter	13.391	0.116	0.3	0.5	O K
8640 min Winter	13.376	0.101	0.3	0.4	O K
10080 min Winter	13.364	0.089	0.2	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4304		
10080 min Winter	1.019	0.0	5056		
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Date April 2015 File HWSA04.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 16.275

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.550
Invert Level (m) 13.275	Cap Infiltration Depth (m) 1.650

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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XP Solutions		Source Control 2015.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 23 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>13.861</td><td>1.461</td><td>3.9</td><td>5.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.128</td><td>1.728</td><td>4.5</td><td>6.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.266</td><td>1.866</td><td>4.5</td><td>7.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.040</td><td>1.640</td><td>4.4</td><td>6.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.869</td><td>1.469</td><td>4.0</td><td>5.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.721</td><td>1.321</td><td>3.6</td><td>5.2</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.505</td><td>1.105</td><td>3.0</td><td>4.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.355</td><td>0.955</td><td>2.6</td><td>3.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.245</td><td>0.845</td><td>2.3</td><td>3.4</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.159</td><td>0.759</td><td>2.0</td><td>3.0</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.035</td><td>0.635</td><td>1.7</td><td>2.5</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.885</td><td>0.485</td><td>1.3</td><td>1.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.765</td><td>0.365</td><td>1.0</td><td>1.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.695</td><td>0.295</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.617</td><td>0.217</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.573</td><td>0.173</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.545</td><td>0.145</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.525</td><td>0.125</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.511</td><td>0.111</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.026</td><td>1.626</td><td>4.4</td><td>6.5</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5056</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.861	1.461	3.9	5.8	O K	30 min Summer	14.128	1.728	4.5	6.7	O K	60 min Summer	14.266	1.866	4.5	7.1	O K	120 min Summer	14.040	1.640	4.4	6.5	O K	180 min Summer	13.869	1.469	4.0	5.8	O K	240 min Summer	13.721	1.321	3.6	5.2	O K	360 min Summer	13.505	1.105	3.0	4.4	O K	480 min Summer	13.355	0.955	2.6	3.8	O K	600 min Summer	13.245	0.845	2.3	3.4	O K	720 min Summer	13.159	0.759	2.0	3.0	O K	960 min Summer	13.035	0.635	1.7	2.5	O K	1440 min Summer	12.885	0.485	1.3	1.9	O K	2160 min Summer	12.765	0.365	1.0	1.4	O K	2880 min Summer	12.695	0.295	0.8	1.2	O K	4320 min Summer	12.617	0.217	0.6	0.9	O K	5760 min Summer	12.573	0.173	0.5	0.7	O K	7200 min Summer	12.545	0.145	0.4	0.6	O K	8640 min Summer	12.525	0.125	0.3	0.5	O K	10080 min Summer	12.511	0.111	0.3	0.4	O K	15 min Winter	14.026	1.626	4.4	6.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5056	15 min Winter	116.400	0.0	17
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
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XP Solutions			Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>						
	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
	30 min Winter	14.444	2.044	4.5	7.5	O K
	60 min Winter	14.434	2.094	4.5	7.7	O K
	120 min Winter	14.037	1.637	4.4	6.5	O K
	180 min Winter	13.800	1.400	3.8	5.6	O K
	240 min Winter	13.614	1.214	3.3	4.8	O K
	360 min Winter	13.364	0.964	2.6	3.8	O K
	480 min Winter	13.204	0.804	2.2	3.2	O K
	600 min Winter	13.092	0.692	1.9	2.7	O K
	720 min Winter	13.010	0.610	1.6	2.4	O K
	960 min Winter	12.896	0.496	1.3	2.0	O K
	1440 min Winter	12.767	0.367	1.0	1.5	O K
	2160 min Winter	12.670	0.270	0.7	1.1	O K
	2880 min Winter	12.616	0.216	0.6	0.9	O K
	4320 min Winter	12.557	0.157	0.4	0.6	O K
	5760 min Winter	12.525	0.125	0.3	0.5	O K
	7200 min Winter	12.505	0.105	0.3	0.4	O K
	8640 min Winter	12.491	0.091	0.2	0.4	O K
	10080 min Winter	12.480	0.080	0.2	0.3	O K
	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
	30 min Winter	78.248	0.0	27		
	60 min Winter	50.211	0.0	46		
	120 min Winter	31.113	0.0	78		
	180 min Winter	23.167	0.0	110		
	240 min Winter	18.658	0.0	142		
	360 min Winter	13.718	0.0	202		
	480 min Winter	11.023	0.0	264		
	600 min Winter	9.295	0.0	324		
	720 min Winter	8.082	0.0	384		
	960 min Winter	6.475	0.0	504		
	1440 min Winter	4.729	0.0	742		
	2160 min Winter	3.446	0.0	1104		
	2880 min Winter	2.750	0.0	1472		
	4320 min Winter	1.997	0.0	2200		
	5760 min Winter	1.589	0.0	2912		
	7200 min Winter	1.330	0.0	3616		
	8640 min Winter	1.151	0.0	4360		
	10080 min Winter	1.019	0.0	5096		
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.400

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.80
Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5
Safety Factor	2.0	Number Required	1
Porosity	0.30	Cap Volume Depth (m)	2.550
Invert Level (m)	12.400	Cap Infiltration Depth (m)	1.650

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 27 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>13.284</td><td>1.451</td><td>5.2</td><td>10.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>13.622</td><td>1.789</td><td>5.8</td><td>12.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>13.854</td><td>2.021</td><td>5.8</td><td>13.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>13.725</td><td>1.892</td><td>5.8</td><td>12.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.459</td><td>1.626</td><td>5.8</td><td>11.5</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.316</td><td>1.483</td><td>5.3</td><td>10.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.099</td><td>1.266</td><td>4.6</td><td>8.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>12.944</td><td>1.111</td><td>4.0</td><td>7.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.826</td><td>0.993</td><td>3.6</td><td>7.0</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.732</td><td>0.899</td><td>3.2</td><td>6.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.594</td><td>0.761</td><td>2.7</td><td>5.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.421</td><td>0.588</td><td>2.1</td><td>4.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.280</td><td>0.447</td><td>1.6</td><td>3.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.197</td><td>0.364</td><td>1.3</td><td>2.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.102</td><td>0.269</td><td>1.0</td><td>1.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.049</td><td>0.216</td><td>0.8</td><td>1.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.014</td><td>0.181</td><td>0.7</td><td>1.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>11.990</td><td>0.157</td><td>0.6</td><td>1.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>11.972</td><td>0.139</td><td>0.5</td><td>1.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.460</td><td>1.627</td><td>5.8</td><td>11.5</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>140</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>202</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>262</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>324</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>384</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>504</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>748</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4376</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5072</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.284	1.451	5.2	10.2	O K	30 min Summer	13.622	1.789	5.8	12.2	O K	60 min Summer	13.854	2.021	5.8	13.2	O K	120 min Summer	13.725	1.892	5.8	12.7	O K	180 min Summer	13.459	1.626	5.8	11.5	O K	240 min Summer	13.316	1.483	5.3	10.5	O K	360 min Summer	13.099	1.266	4.6	8.9	O K	480 min Summer	12.944	1.111	4.0	7.8	O K	600 min Summer	12.826	0.993	3.6	7.0	O K	720 min Summer	12.732	0.899	3.2	6.3	O K	960 min Summer	12.594	0.761	2.7	5.4	O K	1440 min Summer	12.421	0.588	2.1	4.1	O K	2160 min Summer	12.280	0.447	1.6	3.2	O K	2880 min Summer	12.197	0.364	1.3	2.6	O K	4320 min Summer	12.102	0.269	1.0	1.9	O K	5760 min Summer	12.049	0.216	0.8	1.5	O K	7200 min Summer	12.014	0.181	0.7	1.3	O K	8640 min Summer	11.990	0.157	0.6	1.1	O K	10080 min Summer	11.972	0.139	0.5	1.0	O K	15 min Winter	13.460	1.627	5.8	11.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	18	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	140	360 min Summer	13.718	0.0	202	480 min Summer	11.023	0.0	262	600 min Summer	9.295	0.0	324	720 min Summer	8.082	0.0	384	960 min Summer	6.475	0.0	504	1440 min Summer	4.729	0.0	748	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4376	10080 min Summer	1.019	0.0	5072	15 min Winter	116.400	0.0	18
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Date April 2015 File HWSA06 As Built.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	13.975	2.142	5.8	13.8	O K	
60 min Winter	14.161	2.328	5.8	14.6	O K	
120 min Winter	13.837	2.004	5.8	13.2	O K	
180 min Winter	13.429	1.596	5.7	11.3	O K	
240 min Winter	13.244	1.411	5.1	10.0	O K	
360 min Winter	12.979	1.146	4.1	8.1	O K	
480 min Winter	12.802	0.969	3.5	6.8	O K	
600 min Winter	12.674	0.841	3.0	5.9	O K	
720 min Winter	12.579	0.746	2.7	5.3	O K	
960 min Winter	12.444	0.611	2.2	4.3	O K	
1440 min Winter	12.288	0.455	1.6	3.2	O K	
2160 min Winter	12.168	0.335	1.2	2.4	O K	
2880 min Winter	12.102	0.269	1.0	1.9	O K	
4320 min Winter	12.029	0.196	0.7	1.4	O K	
5760 min Winter	11.989	0.156	0.6	1.1	O K	
7200 min Winter	11.964	0.131	0.5	0.9	O K	
8640 min Winter	11.946	0.113	0.4	0.8	O K	
10080 min Winter	11.933	0.100	0.4	0.7	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	29			
60 min Winter	50.211	0.0	48			
120 min Winter	31.113	0.0	82			
180 min Winter	23.167	0.0	114			
240 min Winter	18.658	0.0	146			
360 min Winter	13.718	0.0	208			
480 min Winter	11.023	0.0	270			
600 min Winter	9.295	0.0	330			
720 min Winter	8.082	0.0	390			
960 min Winter	6.475	0.0	512			
1440 min Winter	4.729	0.0	752			
2160 min Winter	3.446	0.0	1108			
2880 min Winter	2.750	0.0	1472			
4320 min Winter	1.997	0.0	2200			
5760 min Winter	1.589	0.0	2936			
7200 min Winter	1.330	0.0	3672			
8640 min Winter	1.151	0.0	4304			
10080 min Winter	1.019	0.0	5136			
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
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Model Details

Storage is Online Cover Level (m) 14.800

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	2.40
Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5
Safety Factor	2.0	Number Required	1
Porosity	0.30	Cap Volume Depth (m)	2.517
Invert Level (m)	11.833	Cap Infiltration Depth (m)	1.617

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11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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Summer</td><td>13.625</td><td>1.425</td><td>2.9</td><td>3.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.449</td><td>1.249</td><td>2.5</td><td>2.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.315</td><td>1.115</td><td>2.3</td><td>2.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.124</td><td>0.924</td><td>1.9</td><td>2.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.899</td><td>0.699</td><td>1.4</td><td>1.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.720</td><td>0.520</td><td>1.1</td><td>1.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.619</td><td>0.419</td><td>0.8</td><td>0.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.506</td><td>0.306</td><td>0.6</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.444</td><td>0.244</td><td>0.5</td><td>0.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.404</td><td>0.204</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.377</td><td>0.177</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.356</td><td>0.156</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>15.312</td><td>3.112</td><td>5.0</td><td>6.4</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>25</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>196</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>256</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>316</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>376</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5104</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.806	2.606	5.0	5.7	O K	30 min Summer	15.474	3.274	5.0	6.6	O K	60 min Summer	15.641	3.441	5.0	6.8	O K	120 min Summer	14.982	2.782	5.0	5.9	O K	180 min Summer	14.500	2.300	4.7	5.1	O K	240 min Summer	14.238	2.038	4.1	4.5	O K	360 min Summer	13.869	1.669	3.4	3.7	O K	480 min Summer	13.625	1.425	2.9	3.2	O K	600 min Summer	13.449	1.249	2.5	2.8	O K	720 min Summer	13.315	1.115	2.3	2.5	O K	960 min Summer	13.124	0.924	1.9	2.1	O K	1440 min Summer	12.899	0.699	1.4	1.6	O K	2160 min Summer	12.720	0.520	1.1	1.2	O K	2880 min Summer	12.619	0.419	0.8	0.9	O K	4320 min Summer	12.506	0.306	0.6	0.7	O K	5760 min Summer	12.444	0.244	0.5	0.5	O K	7200 min Summer	12.404	0.204	0.4	0.5	O K	8640 min Summer	12.377	0.177	0.4	0.4	O K	10080 min Summer	12.356	0.156	0.3	0.3	O K	15 min Winter	15.312	3.112	5.0	6.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	25	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	196	480 min Summer	11.023	0.0	256	600 min Summer	9.295	0.0	316	720 min Summer	8.082	0.0	376	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4384	10080 min Summer	1.019	0.0	5104	15 min Winter	116.400	0.0	17
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA07 As Built.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	16.000	3.800	5.0	7.5	FLOOD
60 min Winter	16.000	3.800	5.0	7.3	FLOOD
120 min Winter	14.830	2.630	5.0	5.7	O K
180 min Winter	14.318	2.118	4.3	4.7	O K
240 min Winter	14.008	1.808	3.7	4.0	O K
360 min Winter	13.607	1.407	2.8	3.1	O K
480 min Winter	13.361	1.161	2.4	2.6	O K
600 min Winter	13.193	0.993	2.0	2.2	O K
720 min Winter	13.072	0.872	1.8	1.9	O K
960 min Winter	12.905	0.705	1.4	1.6	O K
1440 min Winter	12.720	0.520	1.1	1.2	O K
2160 min Winter	12.581	0.381	0.8	0.8	O K
2880 min Winter	12.504	0.304	0.6	0.7	O K
4320 min Winter	12.421	0.221	0.4	0.5	O K
5760 min Winter	12.376	0.176	0.4	0.4	O K
7200 min Winter	12.347	0.147	0.3	0.3	O K
8640 min Winter	12.328	0.128	0.3	0.3	O K
10080 min Winter	12.313	0.113	0.2	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.7	27		
60 min Winter	50.211	0.6	44		
120 min Winter	31.113	0.0	76		
180 min Winter	23.167	0.0	108		
240 min Winter	18.658	0.0	138		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	260		
600 min Winter	9.295	0.0	320		
720 min Winter	8.082	0.0	380		
960 min Winter	6.475	0.0	500		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2192		
5760 min Winter	1.589	0.0	2928		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4408		
10080 min Winter	1.019	0.0	5112		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA07 As Built.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 16.000

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.35
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 3.350
Invert Level (m) 12.200	Cap Infiltration Depth (m) 2.450

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Summer</td><td>13.709</td><td>1.008</td><td>2.7</td><td>4.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.593</td><td>0.892</td><td>2.4</td><td>3.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.502</td><td>0.801</td><td>2.2</td><td>3.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.371</td><td>0.670</td><td>1.8</td><td>2.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.213</td><td>0.512</td><td>1.4</td><td>2.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.086</td><td>0.385</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.013</td><td>0.312</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.930</td><td>0.229</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.883</td><td>0.182</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.854</td><td>0.153</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.833</td><td>0.132</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.818</td><td>0.117</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.570</td><td>1.869</td><td>4.1</td><td>6.9</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min 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Summer	14.719	2.018	4.1	7.3	O K	60 min Summer	14.902	2.201	4.1	7.7	O K	120 min Summer	14.653	1.952	4.1	7.1	O K	180 min Summer	14.291	1.590	4.1	6.2	O K	240 min Summer	14.095	1.394	3.8	5.5	O K	360 min Summer	13.867	1.166	3.1	4.6	O K	480 min Summer	13.709	1.008	2.7	4.0	O K	600 min Summer	13.593	0.892	2.4	3.5	O K	720 min Summer	13.502	0.801	2.2	3.2	O K	960 min Summer	13.371	0.670	1.8	2.7	O K	1440 min Summer	13.213	0.512	1.4	2.0	O K	2160 min Summer	13.086	0.385	1.0	1.5	O K	2880 min Summer	13.013	0.312	0.8	1.2	O K	4320 min Summer	12.930	0.229	0.6	0.9	O K	5760 min Summer	12.883	0.182	0.5	0.7	O K	7200 min Summer	12.854	0.153	0.4	0.6	O K	8640 min Summer	12.833	0.132	0.4	0.5	O K	10080 min Summer	12.818	0.117	0.3	0.5	O K	15 min Winter	14.570	1.869	4.1	6.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5088	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA08.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	15.096	2.395	4.1	8.2	O K
60 min Winter	15.358	2.557	4.1	8.5	Flood Risk
120 min Winter	14.684	1.983	4.1	7.2	O K
180 min Winter	14.179	1.478	4.0	5.9	O K
240 min Winter	13.983	1.282	3.5	5.1	O K
360 min Winter	13.718	1.017	2.7	4.0	O K
480 min Winter	13.549	0.848	2.3	3.4	O K
600 min Winter	13.432	0.731	2.0	2.9	O K
720 min Winter	13.345	0.644	1.7	2.6	O K
960 min Winter	13.225	0.524	1.4	2.1	O K
1440 min Winter	13.089	0.388	1.0	1.5	O K
2160 min Winter	12.986	0.285	0.8	1.1	O K
2880 min Winter	12.929	0.228	0.6	0.9	O K
4320 min Winter	12.867	0.166	0.4	0.7	O K
5760 min Winter	12.833	0.132	0.4	0.5	O K
7200 min Winter	12.812	0.111	0.3	0.4	O K
8640 min Winter	12.797	0.096	0.3	0.4	O K
10080 min Winter	12.786	0.085	0.2	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	742		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2200		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3624		
8640 min Winter	1.151	0.0	4392		
10080 min Winter	1.019	0.0	5088		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067											
Date April 2015 File HWSA08.srcx	Designed by SRD Checked by											
XP Solutions Source Control 2015.1												
<u>Model Details</u> Storage is Online Cover Level (m) 15.551 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.400</td> </tr> <tr> <td>Invert Level (m) 12.701</td> <td>Cap Infiltration Depth (m) 1.500</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.400	Invert Level (m) 12.701	Cap Infiltration Depth (m) 1.500
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Summer</td><td>13.196</td><td>1.096</td><td>3.5</td><td>5.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.074</td><td>0.974</td><td>3.1</td><td>5.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.979</td><td>0.879</td><td>2.8</td><td>4.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.840</td><td>0.740</td><td>2.3</td><td>4.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.669</td><td>0.569</td><td>1.8</td><td>3.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.530</td><td>0.430</td><td>1.4</td><td>2.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.449</td><td>0.349</td><td>1.1</td><td>1.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.357</td><td>0.257</td><td>0.8</td><td>1.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.306</td><td>0.206</td><td>0.6</td><td>1.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.272</td><td>0.172</td><td>0.5</td><td>0.9</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.249</td><td>0.149</td><td>0.5</td><td>0.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.232</td><td>0.132</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.935</td><td>1.835</td><td>4.9</td><td>9.4</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>200</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>260</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>322</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>502</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>742</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5112</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.640	1.540	4.9	8.3	O K	30 min Summer	14.103	2.003	4.9	9.9	O K	60 min Summer	14.329	2.229	4.9	10.7	O K	120 min Summer	14.145	2.045	4.9	10.1	O K	180 min Summer	13.816	1.716	4.9	8.9	O K	240 min Summer	13.588	1.488	4.7	8.0	O K	360 min Summer	13.358	1.258	4.0	6.8	O K	480 min Summer	13.196	1.096	3.5	5.9	O K	600 min Summer	13.074	0.974	3.1	5.3	O K	720 min Summer	12.979	0.879	2.8	4.8	O K	960 min Summer	12.840	0.740	2.3	4.0	O K	1440 min Summer	12.669	0.569	1.8	3.1	O K	2160 min Summer	12.530	0.430	1.4	2.3	O K	2880 min Summer	12.449	0.349	1.1	1.9	O K	4320 min Summer	12.357	0.257	0.8	1.4	O K	5760 min Summer	12.306	0.206	0.6	1.1	O K	7200 min Summer	12.272	0.172	0.5	0.9	O K	8640 min Summer	12.249	0.149	0.5	0.8	O K	10080 min Summer	12.232	0.132	0.4	0.7	O K	15 min Winter	13.935	1.835	4.9	9.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	200	480 min Summer	11.023	0.0	260	600 min Summer	9.295	0.0	322	720 min Summer	8.082	0.0	382	960 min Summer	6.475	0.0	502	1440 min Summer	4.729	0.0	742	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5112	15 min Winter	116.400	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	13.640	1.540	4.9	8.3	O K																																																																																																																																																																																																																		
30 min Summer	14.103	2.003	4.9	9.9	O K																																																																																																																																																																																																																		
60 min Summer	14.329	2.229	4.9	10.7	O K																																																																																																																																																																																																																		
120 min Summer	14.145	2.045	4.9	10.1	O K																																																																																																																																																																																																																		
180 min Summer	13.816	1.716	4.9	8.9	O K																																																																																																																																																																																																																		
240 min Summer	13.588	1.488	4.7	8.0	O K																																																																																																																																																																																																																		
360 min Summer	13.358	1.258	4.0	6.8	O K																																																																																																																																																																																																																		
480 min Summer	13.196	1.096	3.5	5.9	O K																																																																																																																																																																																																																		
600 min Summer	13.074	0.974	3.1	5.3	O K																																																																																																																																																																																																																		
720 min Summer	12.979	0.879	2.8	4.8	O K																																																																																																																																																																																																																		
960 min Summer	12.840	0.740	2.3	4.0	O K																																																																																																																																																																																																																		
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60 min Summer	50.211	0.0	44																																																																																																																																																																																																																				
120 min Summer	31.113	0.0	76																																																																																																																																																																																																																				
180 min Summer	23.167	0.0	108																																																																																																																																																																																																																				
240 min Summer	18.658	0.0	138																																																																																																																																																																																																																				
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA10.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.487	2.387	4.9	11.3	O K
60 min Winter	14.917	2.817	4.9	11.9	Flood Risk
120 min Winter	14.242	2.142	4.9	10.4	O K
180 min Winter	13.724	1.624	4.9	8.6	O K
240 min Winter	13.493	1.393	4.4	7.5	O K
360 min Winter	13.219	1.119	3.5	6.0	O K
480 min Winter	13.040	0.940	3.0	5.1	O K
600 min Winter	12.913	0.813	2.6	4.4	O K
720 min Winter	12.818	0.718	2.3	3.9	O K
960 min Winter	12.686	0.586	1.8	3.2	O K
1440 min Winter	12.535	0.435	1.4	2.4	O K
2160 min Winter	12.420	0.320	1.0	1.7	O K
2880 min Winter	12.357	0.257	0.8	1.4	O K
4320 min Winter	12.287	0.187	0.6	1.0	O K
5760 min Winter	12.249	0.149	0.5	0.8	O K
7200 min Winter	12.225	0.125	0.4	0.7	O K
8640 min Winter	12.208	0.108	0.3	0.6	O K
10080 min Winter	12.196	0.096	0.3	0.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	144		
360 min Winter	13.718	0.0	206		
480 min Winter	11.023	0.0	266		
600 min Winter	9.295	0.0	328		
720 min Winter	8.082	0.0	388		
960 min Winter	6.475	0.0	508		
1440 min Winter	4.729	0.0	750		
2160 min Winter	3.446	0.0	1108		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4400		
10080 min Winter	1.019	0.0	5104		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067																					
Date April 2015 File HWSA10.srcx	Designed by SRD Checked by																					
XP Solutions Source Control 2015.1																						
<u>Model Details</u> Storage is Online Cover Level (m) 15.000 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>2.10</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.80000</td> <td>Pit Multiplier</td> <td>1.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>2.450</td> </tr> <tr> <td>Invert Level (m)</td> <td>12.100</td> <td>Cap Infiltration Depth (m)</td> <td>1.550</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	2.10	Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	2.450	Invert Level (m)	12.100	Cap Infiltration Depth (m)	1.550
Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	2.10																			
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 26 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>13.677</td><td>1.427</td><td>4.4</td><td>7.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.115</td><td>1.865</td><td>4.4</td><td>9.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.328</td><td>2.078</td><td>4.4</td><td>9.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.162</td><td>1.912</td><td>4.4</td><td>9.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.856</td><td>1.606</td><td>4.4</td><td>8.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.619</td><td>1.369</td><td>4.3</td><td>7.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.407</td><td>1.157</td><td>3.6</td><td>6.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.258</td><td>1.008</td><td>3.2</td><td>5.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.146</td><td>0.896</td><td>2.8</td><td>4.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.059</td><td>0.809</td><td>2.5</td><td>4.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.931</td><td>0.681</td><td>2.1</td><td>3.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.773</td><td>0.523</td><td>1.6</td><td>2.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.646</td><td>0.396</td><td>1.2</td><td>2.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.571</td><td>0.321</td><td>1.0</td><td>1.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.487</td><td>0.237</td><td>0.7</td><td>1.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.439</td><td>0.189</td><td>0.6</td><td>1.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.409</td><td>0.159</td><td>0.5</td><td>0.9</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.387</td><td>0.137</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.372</td><td>0.122</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.957</td><td>1.707</td><td>4.4</td><td>8.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>200</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>260</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>322</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>502</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>742</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5096</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.677	1.427	4.4	7.7	O K	30 min Summer	14.115	1.865	4.4	9.2	O K	60 min Summer	14.328	2.078	4.4	9.9	O K	120 min Summer	14.162	1.912	4.4	9.3	O K	180 min Summer	13.856	1.606	4.4	8.3	O K	240 min Summer	13.619	1.369	4.3	7.4	O K	360 min Summer	13.407	1.157	3.6	6.3	O K	480 min Summer	13.258	1.008	3.2	5.4	O K	600 min Summer	13.146	0.896	2.8	4.8	O K	720 min Summer	13.059	0.809	2.5	4.4	O K	960 min Summer	12.931	0.681	2.1	3.7	O K	1440 min Summer	12.773	0.523	1.6	2.8	O K	2160 min Summer	12.646	0.396	1.2	2.1	O K	2880 min Summer	12.571	0.321	1.0	1.7	O K	4320 min Summer	12.487	0.237	0.7	1.3	O K	5760 min Summer	12.439	0.189	0.6	1.0	O K	7200 min Summer	12.409	0.159	0.5	0.9	O K	8640 min Summer	12.387	0.137	0.4	0.7	O K	10080 min Summer	12.372	0.122	0.4	0.7	O K	15 min Winter	13.957	1.707	4.4	8.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	200	480 min Summer	11.023	0.0	260	600 min Summer	9.295	0.0	322	720 min Summer	8.082	0.0	382	960 min Summer	6.475	0.0	502	1440 min Summer	4.729	0.0	742	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5096	15 min Winter	116.400	0.0	18
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5760 min Summer	12.439	0.189	0.6	1.0	O K																																																																																																																																																																																																																		
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8640 min Summer	12.387	0.137	0.4	0.7	O K																																																																																																																																																																																																																		
10080 min Summer	12.372	0.122	0.4	0.7	O K																																																																																																																																																																																																																		
15 min Winter	13.957	1.707	4.4	8.6	O K																																																																																																																																																																																																																		
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4320 min Summer	1.997	0.0	2204																																																																																																																																																																																																																				
5760 min Summer	1.589	0.0	2936																																																																																																																																																																																																																				
7200 min Summer	1.330	0.0	3664																																																																																																																																																																																																																				
8640 min Summer	1.151	0.0	4400																																																																																																																																																																																																																				
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.473	2.223	4.4	10.4	O K
60 min Winter	14.842	2.592	4.4	11.0	Flood Risk
120 min Winter	14.258	2.008	4.4	9.7	O K
180 min Winter	13.771	1.521	4.4	8.0	O K
240 min Winter	13.532	1.282	4.0	6.9	O K
360 min Winter	13.279	1.029	3.2	5.6	O K
480 min Winter	13.115	0.865	2.7	4.7	O K
600 min Winter	12.998	0.748	2.4	4.0	O K
720 min Winter	12.911	0.661	2.1	3.6	O K
960 min Winter	12.790	0.540	1.7	2.9	O K
1440 min Winter	12.651	0.401	1.3	2.2	O K
2160 min Winter	12.545	0.295	0.9	1.6	O K
2880 min Winter	12.486	0.236	0.7	1.3	O K
4320 min Winter	12.422	0.172	0.5	0.9	O K
5760 min Winter	12.387	0.137	0.4	0.7	O K
7200 min Winter	12.365	0.115	0.4	0.6	O K
8640 min Winter	12.349	0.099	0.3	0.5	O K
10080 min Winter	12.338	0.088	0.3	0.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	144		
360 min Winter	13.718	0.0	206		
480 min Winter	11.023	0.0	266		
600 min Winter	9.295	0.0	328		
720 min Winter	8.082	0.0	388		
960 min Winter	6.475	0.0	508		
1440 min Winter	4.729	0.0	750		
2160 min Winter	3.446	0.0	1108		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4296		
10080 min Winter	1.019	0.0	5136		
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.000

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 2.10
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.300
Invert Level (m) 12.250	Cap Infiltration Depth (m) 1.400

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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XP Solutions		Source Control 2015.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 26 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>14.077</td><td>1.427</td><td>4.4</td><td>7.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.515</td><td>1.865</td><td>4.4</td><td>9.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.728</td><td>2.078</td><td>4.4</td><td>9.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.562</td><td>1.912</td><td>4.4</td><td>9.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>14.256</td><td>1.606</td><td>4.4</td><td>8.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>14.019</td><td>1.369</td><td>4.3</td><td>7.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.807</td><td>1.157</td><td>3.6</td><td>6.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.658</td><td>1.008</td><td>3.2</td><td>5.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.546</td><td>0.896</td><td>2.8</td><td>4.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.459</td><td>0.809</td><td>2.5</td><td>4.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.331</td><td>0.681</td><td>2.1</td><td>3.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.173</td><td>0.523</td><td>1.6</td><td>2.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.046</td><td>0.396</td><td>1.2</td><td>2.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.971</td><td>0.321</td><td>1.0</td><td>1.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.887</td><td>0.237</td><td>0.7</td><td>1.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.839</td><td>0.189</td><td>0.6</td><td>1.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.809</td><td>0.159</td><td>0.5</td><td>0.9</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.787</td><td>0.137</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.772</td><td>0.122</td><td>0.4</td><td>0.7</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.357</td><td>1.707</td><td>4.4</td><td>8.6</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>200</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>260</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>322</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>502</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>742</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5096</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.077	1.427	4.4	7.7	O K	30 min Summer	14.515	1.865	4.4	9.2	O K	60 min Summer	14.728	2.078	4.4	9.9	O K	120 min Summer	14.562	1.912	4.4	9.3	O K	180 min Summer	14.256	1.606	4.4	8.3	O K	240 min Summer	14.019	1.369	4.3	7.4	O K	360 min Summer	13.807	1.157	3.6	6.3	O K	480 min Summer	13.658	1.008	3.2	5.4	O K	600 min Summer	13.546	0.896	2.8	4.8	O K	720 min Summer	13.459	0.809	2.5	4.4	O K	960 min Summer	13.331	0.681	2.1	3.7	O K	1440 min Summer	13.173	0.523	1.6	2.8	O K	2160 min Summer	13.046	0.396	1.2	2.1	O K	2880 min Summer	12.971	0.321	1.0	1.7	O K	4320 min Summer	12.887	0.237	0.7	1.3	O K	5760 min Summer	12.839	0.189	0.6	1.0	O K	7200 min Summer	12.809	0.159	0.5	0.9	O K	8640 min Summer	12.787	0.137	0.4	0.7	O K	10080 min Summer	12.772	0.122	0.4	0.7	O K	15 min Winter	14.357	1.707	4.4	8.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	200	480 min Summer	11.023	0.0	260	600 min Summer	9.295	0.0	322	720 min Summer	8.082	0.0	382	960 min Summer	6.475	0.0	502	1440 min Summer	4.729	0.0	742	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5096	15 min Winter	116.400	0.0	18
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.873	2.223	4.4	10.4	O K
60 min Winter	15.242	2.592	4.4	11.0	Flood Risk
120 min Winter	14.658	2.008	4.4	9.7	O K
180 min Winter	14.171	1.521	4.4	8.0	O K
240 min Winter	13.932	1.282	4.0	6.9	O K
360 min Winter	13.679	1.029	3.2	5.6	O K
480 min Winter	13.515	0.865	2.7	4.7	O K
600 min Winter	13.398	0.748	2.4	4.0	O K
720 min Winter	13.311	0.661	2.1	3.6	O K
960 min Winter	13.190	0.540	1.7	2.9	O K
1440 min Winter	13.051	0.401	1.3	2.2	O K
2160 min Winter	12.945	0.295	0.9	1.6	O K
2880 min Winter	12.886	0.236	0.7	1.3	O K
4320 min Winter	12.822	0.172	0.5	0.9	O K
5760 min Winter	12.787	0.137	0.4	0.7	O K
7200 min Winter	12.765	0.115	0.4	0.6	O K
8640 min Winter	12.749	0.099	0.3	0.5	O K
10080 min Winter	12.738	0.088	0.3	0.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	144		
360 min Winter	13.718	0.0	206		
480 min Winter	11.023	0.0	266		
600 min Winter	9.295	0.0	328		
720 min Winter	8.082	0.0	388		
960 min Winter	6.475	0.0	508		
1440 min Winter	4.729	0.0	750		
2160 min Winter	3.446	0.0	1108		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4296		
10080 min Winter	1.019	0.0	5136		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067											
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<u>Model Details</u> Storage is Online Cover Level (m) 15.400 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 2.10</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.300</td> </tr> <tr> <td>Invert Level (m) 12.650</td> <td>Cap Infiltration Depth (m) 1.400</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 2.10	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.300	Invert Level (m) 12.650	Cap Infiltration Depth (m) 1.400
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 20 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>13.943</td><td>1.623</td><td>4.4</td><td>6.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.385</td><td>2.065</td><td>4.5</td><td>7.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.556</td><td>2.236</td><td>4.5</td><td>8.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.294</td><td>1.974</td><td>4.5</td><td>7.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.952</td><td>1.632</td><td>4.4</td><td>6.5</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.787</td><td>1.467</td><td>4.0</td><td>5.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.547</td><td>1.227</td><td>3.3</td><td>4.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.381</td><td>1.061</td><td>2.9</td><td>4.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.259</td><td>0.939</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.163</td><td>0.843</td><td>2.3</td><td>3.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.025</td><td>0.705</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.859</td><td>0.539</td><td>1.5</td><td>2.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.726</td><td>0.406</td><td>1.1</td><td>1.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.648</td><td>0.328</td><td>0.9</td><td>1.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.561</td><td>0.241</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.512</td><td>0.192</td><td>0.5</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.481</td><td>0.161</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.459</td><td>0.139</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.443</td><td>0.123</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.232</td><td>1.912</td><td>4.5</td><td>7.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2928</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.943	1.623	4.4	6.4	O K	30 min Summer	14.385	2.065	4.5	7.6	O K	60 min Summer	14.556	2.236	4.5	8.0	O K	120 min Summer	14.294	1.974	4.5	7.4	O K	180 min Summer	13.952	1.632	4.4	6.5	O K	240 min Summer	13.787	1.467	4.0	5.8	O K	360 min Summer	13.547	1.227	3.3	4.9	O K	480 min Summer	13.381	1.061	2.9	4.2	O K	600 min Summer	13.259	0.939	2.5	3.7	O K	720 min Summer	13.163	0.843	2.3	3.3	O K	960 min Summer	13.025	0.705	1.9	2.8	O K	1440 min Summer	12.859	0.539	1.5	2.1	O K	2160 min Summer	12.726	0.406	1.1	1.6	O K	2880 min Summer	12.648	0.328	0.9	1.3	O K	4320 min Summer	12.561	0.241	0.7	1.0	O K	5760 min Summer	12.512	0.192	0.5	0.8	O K	7200 min Summer	12.481	0.161	0.4	0.6	O K	8640 min Summer	12.459	0.139	0.4	0.6	O K	10080 min Summer	12.443	0.123	0.3	0.5	O K	15 min Winter	14.232	1.912	4.5	7.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2928	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5136	15 min Winter	116.400	0.0	18
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.768	2.448	4.5	8.6	O K
60 min Winter	14.863	2.543	4.5	8.8	O K
120 min Winter	14.311	1.991	4.5	7.4	O K
180 min Winter	13.876	1.556	4.2	6.2	O K
240 min Winter	13.669	1.349	3.6	5.4	O K
360 min Winter	13.391	1.071	2.9	4.2	O K
480 min Winter	13.213	0.893	2.4	3.5	O K
600 min Winter	13.089	0.769	2.1	3.1	O K
720 min Winter	12.998	0.678	1.8	2.7	O K
960 min Winter	12.871	0.551	1.5	2.2	O K
1440 min Winter	12.728	0.408	1.1	1.6	O K
2160 min Winter	12.620	0.300	0.8	1.2	O K
2880 min Winter	12.560	0.240	0.6	1.0	O K
4320 min Winter	12.494	0.174	0.5	0.7	O K
5760 min Winter	12.459	0.139	0.4	0.6	O K
7200 min Winter	12.436	0.116	0.3	0.5	O K
8640 min Winter	12.421	0.101	0.3	0.4	O K
10080 min Winter	12.409	0.089	0.2	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4304		
10080 min Winter	1.019	0.0	5056		
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<u>Model Details</u> Storage is Online Cover Level (m) 15.320 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.80000</td> <td>Pit Multiplier</td> <td>1.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>2.550</td> </tr> <tr> <td>Invert Level (m)</td> <td>12.320</td> <td>Cap Infiltration Depth (m)</td> <td>1.650</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.80	Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	2.550	Invert Level (m)	12.320	Cap Infiltration Depth (m)	1.650
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Summer</td><td>12.858</td><td>1.008</td><td>2.7</td><td>4.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.742</td><td>0.892</td><td>2.4</td><td>3.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.651</td><td>0.801</td><td>2.2</td><td>3.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.520</td><td>0.670</td><td>1.8</td><td>2.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.362</td><td>0.512</td><td>1.4</td><td>2.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.235</td><td>0.385</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.162</td><td>0.312</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.079</td><td>0.229</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.032</td><td>0.182</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.003</td><td>0.153</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min 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Summer	13.743	1.893	4.5	7.2	O K	60 min Summer	13.900	2.050	4.5	7.6	O K	120 min Summer	13.643	1.793	4.5	6.9	O K	180 min Summer	13.400	1.550	4.2	6.2	O K	240 min Summer	13.244	1.394	3.8	5.5	O K	360 min Summer	13.016	1.166	3.1	4.6	O K	480 min Summer	12.858	1.008	2.7	4.0	O K	600 min Summer	12.742	0.892	2.4	3.5	O K	720 min Summer	12.651	0.801	2.2	3.2	O K	960 min Summer	12.520	0.670	1.8	2.7	O K	1440 min Summer	12.362	0.512	1.4	2.0	O K	2160 min Summer	12.235	0.385	1.0	1.5	O K	2880 min Summer	12.162	0.312	0.8	1.2	O K	4320 min Summer	12.079	0.229	0.6	0.9	O K	5760 min Summer	12.032	0.182	0.5	0.7	O K	7200 min Summer	12.003	0.153	0.4	0.6	O K	8640 min Summer	11.982	0.132	0.4	0.5	O K	10080 min Summer	11.967	0.117	0.3	0.5	O K	15 min Winter	13.607	1.757	4.5	6.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5088	15 min Winter	116.400	0.0	17
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The Civil Engineering Practice					Page 2	
11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067			
Date April 2015 File HWSA13.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	14.092	2.242	4.5	8.1	O K	
60 min Winter	14.164	2.314	4.5	8.2	O K	
120 min Winter	13.645	1.795	4.5	6.9	O K	
180 min Winter	13.328	1.478	4.0	5.9	O K	
240 min Winter	13.132	1.282	3.5	5.1	O K	
360 min Winter	12.867	1.017	2.7	4.0	O K	
480 min Winter	12.698	0.848	2.3	3.4	O K	
600 min Winter	12.581	0.731	2.0	2.9	O K	
720 min Winter	12.494	0.644	1.7	2.6	O K	
960 min Winter	12.374	0.524	1.4	2.1	O K	
1440 min Winter	12.238	0.388	1.0	1.5	O K	
2160 min Winter	12.135	0.285	0.8	1.1	O K	
2880 min Winter	12.078	0.228	0.6	0.9	O K	
4320 min Winter	12.016	0.166	0.4	0.7	O K	
5760 min Winter	11.982	0.132	0.4	0.5	O K	
7200 min Winter	11.961	0.111	0.3	0.4	O K	
8640 min Winter	11.946	0.096	0.3	0.4	O K	
10080 min Winter	11.935	0.085	0.2	0.3	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	28			
60 min Winter	50.211	0.0	46			
120 min Winter	31.113	0.0	78			
180 min Winter	23.167	0.0	110			
240 min Winter	18.658	0.0	142			
360 min Winter	13.718	0.0	202			
480 min Winter	11.023	0.0	264			
600 min Winter	9.295	0.0	324			
720 min Winter	8.082	0.0	384			
960 min Winter	6.475	0.0	504			
1440 min Winter	4.729	0.0	742			
2160 min Winter	3.446	0.0	1104			
2880 min Winter	2.750	0.0	1472			
4320 min Winter	1.997	0.0	2200			
5760 min Winter	1.589	0.0	2936			
7200 min Winter	1.330	0.0	3624			
8640 min Winter	1.151	0.0	4392			
10080 min Winter	1.019	0.0	5088			
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA13.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 14.850

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.550
Invert Level (m) 11.850	Cap Infiltration Depth (m) 1.650

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Summer</td><td>12.661</td><td>1.061</td><td>5.7</td><td>8.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.539</td><td>0.939</td><td>5.1</td><td>7.4</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.443</td><td>0.843</td><td>4.6</td><td>6.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.305</td><td>0.705</td><td>3.8</td><td>5.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.139</td><td>0.539</td><td>2.9</td><td>4.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.006</td><td>0.406</td><td>2.2</td><td>3.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>11.928</td><td>0.328</td><td>1.8</td><td>2.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>11.841</td><td>0.241</td><td>1.3</td><td>1.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>11.792</td><td>0.192</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>11.761</td><td>0.161</td><td>0.9</td><td>1.3</td><td>O K</td></tr><tr><td>8640 min 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Summer	13.665	2.065	8.9	15.2	O K	60 min Summer	13.836	2.236	8.9	16.1	O K	120 min Summer	13.574	1.974	8.9	14.7	O K	180 min Summer	13.232	1.632	8.8	13.0	O K	240 min Summer	13.067	1.467	7.9	11.6	O K	360 min Summer	12.827	1.227	6.6	9.7	O K	480 min Summer	12.661	1.061	5.7	8.4	O K	600 min Summer	12.539	0.939	5.1	7.4	O K	720 min Summer	12.443	0.843	4.6	6.7	O K	960 min Summer	12.305	0.705	3.8	5.6	O K	1440 min Summer	12.139	0.539	2.9	4.3	O K	2160 min Summer	12.006	0.406	2.2	3.2	O K	2880 min Summer	11.928	0.328	1.8	2.6	O K	4320 min Summer	11.841	0.241	1.3	1.9	O K	5760 min Summer	11.792	0.192	1.0	1.5	O K	7200 min Summer	11.761	0.161	0.9	1.3	O K	8640 min Summer	11.739	0.139	0.8	1.1	O K	10080 min Summer	11.723	0.123	0.7	1.0	O K	15 min Winter	13.512	1.912	8.9	14.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2928	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5136	15 min Winter	116.400	0.0	18
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Summer	14.048	1.848	3.0	3.1	O K	60 min Summer	14.053	1.853	3.0	3.1	O K	120 min Summer	13.750	1.550	2.8	2.7	O K	180 min Summer	13.544	1.344	2.4	2.4	O K	240 min Summer	13.385	1.185	2.1	2.1	O K	360 min Summer	13.163	0.963	1.7	1.7	O K	480 min Summer	13.018	0.818	1.5	1.4	O K	600 min Summer	12.914	0.714	1.3	1.3	O K	720 min Summer	12.836	0.636	1.1	1.1	O K	960 min Summer	12.725	0.525	0.9	0.9	O K	1440 min Summer	12.596	0.396	0.7	0.7	O K	2160 min Summer	12.494	0.294	0.5	0.5	O K	2880 min Summer	12.436	0.236	0.4	0.4	O K	4320 min Summer	12.372	0.172	0.3	0.3	O K	5760 min Summer	12.337	0.137	0.2	0.2	O K	7200 min Summer	12.315	0.115	0.2	0.2	O K	8640 min Summer	12.299	0.099	0.2	0.2	O K	10080 min Summer	12.288	0.088	0.2	0.2	O K	15 min Winter	13.982	1.782	3.0	3.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	16	30 min Summer	78.248	0.0	25	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	72	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 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360 min Summer	13.718	0.0	194																																																																																																																																																																																																																					
480 min Summer	11.023	0.0	254																																																																																																																																																																																																																					
600 min Summer	9.295	0.0	314																																																																																																																																																																																																																					
720 min Summer	8.082	0.0	376																																																																																																																																																																																																																					
960 min Summer	6.475	0.0	496																																																																																																																																																																																																																					
1440 min Summer	4.729	0.0	738																																																																																																																																																																																																																					
2160 min Summer	3.446	0.0	1100																																																																																																																																																																																																																					
2880 min Summer	2.750	0.0	1468																																																																																																																																																																																																																					
4320 min Summer	1.997	0.0	2200																																																																																																																																																																																																																					
5760 min Summer	1.589	0.0	2912																																																																																																																																																																																																																					
7200 min Summer	1.330	0.0	3640																																																																																																																																																																																																																					
8640 min Summer	1.151	0.0	4400																																																																																																																																																																																																																					
10080 min Summer	1.019	0.0	5072																																																																																																																																																																																																																					
15 min Winter	116.400	0.0	17																																																																																																																																																																																																																					
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.348	2.148	3.0	3.5	O K
60 min Winter	14.194	1.994	3.0	3.3	O K
120 min Winter	13.681	1.481	2.7	2.6	O K
180 min Winter	13.422	1.222	2.2	2.2	O K
240 min Winter	13.236	1.036	1.9	1.8	O K
360 min Winter	13.001	0.801	1.4	1.4	O K
480 min Winter	12.858	0.658	1.2	1.2	O K
600 min Winter	12.762	0.562	1.0	1.0	O K
720 min Winter	12.693	0.493	0.9	0.9	O K
960 min Winter	12.598	0.398	0.7	0.7	O K
1440 min Winter	12.493	0.293	0.5	0.5	O K
2160 min Winter	12.414	0.214	0.4	0.4	O K
2880 min Winter	12.371	0.171	0.3	0.3	O K
4320 min Winter	12.324	0.124	0.2	0.2	O K
5760 min Winter	12.299	0.099	0.2	0.2	O K
7200 min Winter	12.283	0.083	0.1	0.1	O K
8640 min Winter	12.272	0.072	0.1	0.1	O K
10080 min Winter	12.264	0.064	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	26		
60 min Winter	50.211	0.0	44		
120 min Winter	31.113	0.0	74		
180 min Winter	23.167	0.0	106		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2872		
7200 min Winter	1.330	0.0	3648		
8640 min Winter	1.151	0.0	4384		
10080 min Winter	1.019	0.0	5056		
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Model Details

Storage is Online Cover Level (m) 15.200

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.550
Invert Level (m) 12.200	Cap Infiltration Depth (m) 1.650

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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.048	2.448	8.9	17.2	O K
60 min Winter	14.143	2.543	8.9	17.6	O K
120 min Winter	13.591	1.991	8.9	14.8	O K
180 min Winter	13.156	1.556	8.4	12.3	O K
240 min Winter	12.949	1.349	7.3	10.7	O K
360 min Winter	12.671	1.071	5.8	8.5	O K
480 min Winter	12.493	0.893	4.8	7.1	O K
600 min Winter	12.369	0.769	4.2	6.1	O K
720 min Winter	12.278	0.678	3.7	5.4	O K
960 min Winter	12.151	0.551	3.0	4.4	O K
1440 min Winter	12.008	0.408	2.2	3.2	O K
2160 min Winter	11.900	0.300	1.6	2.4	O K
2880 min Winter	11.840	0.240	1.3	1.9	O K
4320 min Winter	11.774	0.174	0.9	1.4	O K
5760 min Winter	11.739	0.139	0.7	1.1	O K
7200 min Winter	11.716	0.116	0.6	0.9	O K
8640 min Winter	11.701	0.101	0.5	0.8	O K
10080 min Winter	11.689	0.089	0.5	0.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4304		
10080 min Winter	1.019	0.0	5056		
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Model Details

Storage is Online Cover Level (m) 14.600

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 2
Porosity 0.30	Cap Volume Depth (m) 2.550
Invert Level (m) 11.600	Cap Infiltration Depth (m) 1.650

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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 25 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>14.013</td><td>1.663</td><td>5.2</td><td>9.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.491</td><td>2.141</td><td>5.4</td><td>10.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.730</td><td>2.380</td><td>5.4</td><td>11.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.532</td><td>2.182</td><td>5.4</td><td>10.9</td><td>O K</td></tr><tr><td>180 min Summer</td><td>14.179</td><td>1.829</td><td>5.4</td><td>9.6</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.957</td><td>1.607</td><td>5.1</td><td>8.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.709</td><td>1.359</td><td>4.3</td><td>7.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.533</td><td>1.183</td><td>3.7</td><td>6.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.402</td><td>1.052</td><td>3.3</td><td>5.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.300</td><td>0.950</td><td>3.0</td><td>5.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.149</td><td>0.799</td><td>2.5</td><td>4.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.964</td><td>0.614</td><td>1.9</td><td>3.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.815</td><td>0.465</td><td>1.5</td><td>2.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.727</td><td>0.377</td><td>1.2</td><td>2.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.628</td><td>0.278</td><td>0.9</td><td>1.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.572</td><td>0.222</td><td>0.7</td><td>1.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.536</td><td>0.186</td><td>0.6</td><td>1.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.511</td><td>0.161</td><td>0.5</td><td>0.9</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.493</td><td>0.143</td><td>0.4</td><td>0.8</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.312</td><td>1.962</td><td>5.4</td><td>10.1</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>200</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>260</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>322</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>502</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>742</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4360</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5088</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.013	1.663	5.2	9.0	O K	30 min Summer	14.491	2.141	5.4	10.7	O K	60 min Summer	14.730	2.380	5.4	11.5	O K	120 min Summer	14.532	2.182	5.4	10.9	O K	180 min Summer	14.179	1.829	5.4	9.6	O K	240 min Summer	13.957	1.607	5.1	8.7	O K	360 min Summer	13.709	1.359	4.3	7.3	O K	480 min Summer	13.533	1.183	3.7	6.4	O K	600 min Summer	13.402	1.052	3.3	5.7	O K	720 min Summer	13.300	0.950	3.0	5.1	O K	960 min Summer	13.149	0.799	2.5	4.3	O K	1440 min Summer	12.964	0.614	1.9	3.3	O K	2160 min Summer	12.815	0.465	1.5	2.5	O K	2880 min Summer	12.727	0.377	1.2	2.0	O K	4320 min Summer	12.628	0.278	0.9	1.5	O K	5760 min Summer	12.572	0.222	0.7	1.2	O K	7200 min Summer	12.536	0.186	0.6	1.0	O K	8640 min Summer	12.511	0.161	0.5	0.9	O K	10080 min Summer	12.493	0.143	0.4	0.8	O K	15 min Winter	14.312	1.962	5.4	10.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	200	480 min Summer	11.023	0.0	260	600 min Summer	9.295	0.0	322	720 min Summer	8.082	0.0	382	960 min Summer	6.475	0.0	502	1440 min Summer	4.729	0.0	742	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4360	10080 min Summer	1.019	0.0	5088	15 min Winter	116.400	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.901	2.551	5.4	12.1	O K
60 min Winter	15.391	3.041	5.4	12.7	Flood Risk
120 min Winter	14.628	2.278	5.4	11.2	O K
180 min Winter	14.081	1.731	5.4	9.3	O K
240 min Winter	13.855	1.505	4.7	8.1	O K
360 min Winter	13.558	1.208	3.8	6.5	O K
480 min Winter	13.365	1.015	3.2	5.5	O K
600 min Winter	13.228	0.878	2.8	4.7	O K
720 min Winter	13.126	0.776	2.4	4.2	O K
960 min Winter	12.983	0.633	2.0	3.4	O K
1440 min Winter	12.820	0.470	1.5	2.5	O K
2160 min Winter	12.696	0.346	1.1	1.9	O K
2880 min Winter	12.627	0.277	0.9	1.5	O K
4320 min Winter	12.552	0.202	0.6	1.1	O K
5760 min Winter	12.511	0.161	0.5	0.9	O K
7200 min Winter	12.485	0.135	0.4	0.7	O K
8640 min Winter	12.467	0.117	0.4	0.6	O K
10080 min Winter	12.453	0.103	0.3	0.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	144		
360 min Winter	13.718	0.0	206		
480 min Winter	11.023	0.0	266		
600 min Winter	9.295	0.0	328		
720 min Winter	8.082	0.0	388		
960 min Winter	6.475	0.0	508		
1440 min Winter	4.729	0.0	750		
2160 min Winter	3.446	0.0	1108		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4336		
10080 min Winter	1.019	0.0	5048		
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.400

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 2.10
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.600
Invert Level (m) 12.350	Cap Infiltration Depth (m) 1.700

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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 17 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>12.684</td><td>1.877</td><td>4.0</td><td>5.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>13.183</td><td>2.376</td><td>4.0</td><td>6.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>13.323</td><td>2.516</td><td>4.0</td><td>6.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>12.923</td><td>2.116</td><td>4.0</td><td>5.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>12.538</td><td>1.731</td><td>3.9</td><td>4.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>12.350</td><td>1.543</td><td>3.5</td><td>4.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>12.081</td><td>1.274</td><td>2.9</td><td>3.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>11.899</td><td>1.092</td><td>2.5</td><td>3.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>11.767</td><td>0.960</td><td>2.2</td><td>2.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>11.666</td><td>0.859</td><td>1.9</td><td>2.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>11.521</td><td>0.714</td><td>1.6</td><td>2.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>11.349</td><td>0.542</td><td>1.2</td><td>1.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>11.212</td><td>0.405</td><td>0.9</td><td>1.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>11.134</td><td>0.327</td><td>0.7</td><td>0.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>11.046</td><td>0.239</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>10.997</td><td>0.190</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>10.966</td><td>0.159</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>10.945</td><td>0.138</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>10.929</td><td>0.122</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.041</td><td>2.234</td><td>4.0</td><td>5.7</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>196</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>256</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>318</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>378</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>498</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4352</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	12.684	1.877	4.0	5.1	O K	30 min Summer	13.183	2.376	4.0	6.0	O K	60 min Summer	13.323	2.516	4.0	6.2	O K	120 min Summer	12.923	2.116	4.0	5.5	O K	180 min Summer	12.538	1.731	3.9	4.8	O K	240 min Summer	12.350	1.543	3.5	4.3	O K	360 min Summer	12.081	1.274	2.9	3.5	O K	480 min Summer	11.899	1.092	2.5	3.0	O K	600 min Summer	11.767	0.960	2.2	2.6	O K	720 min Summer	11.666	0.859	1.9	2.4	O K	960 min Summer	11.521	0.714	1.6	2.0	O K	1440 min Summer	11.349	0.542	1.2	1.5	O K	2160 min Summer	11.212	0.405	0.9	1.1	O K	2880 min Summer	11.134	0.327	0.7	0.9	O K	4320 min Summer	11.046	0.239	0.5	0.7	O K	5760 min Summer	10.997	0.190	0.4	0.5	O K	7200 min Summer	10.966	0.159	0.4	0.4	O K	8640 min Summer	10.945	0.138	0.3	0.4	O K	10080 min Summer	10.929	0.122	0.3	0.3	O K	15 min Winter	13.041	2.234	4.0	5.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	196	480 min Summer	11.023	0.0	256	600 min Summer	9.295	0.0	318	720 min Summer	8.082	0.0	378	960 min Summer	6.475	0.0	498	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4352	10080 min Summer	1.019	0.0	5136	15 min Winter	116.400	0.0	17
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<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	13.689	2.882	4.0	6.7	Flood Risk
60 min Winter	13.703	2.896	4.0	6.7	Flood Risk
120 min Winter	12.860	2.053	4.0	5.4	O K
180 min Winter	12.423	1.616	3.6	4.5	O K
240 min Winter	12.194	1.387	3.1	3.8	O K
360 min Winter	11.894	1.087	2.4	3.0	O K
480 min Winter	11.707	0.900	2.0	2.5	O K
600 min Winter	11.579	0.772	1.7	2.1	O K
720 min Winter	11.485	0.678	1.5	1.9	O K
960 min Winter	11.357	0.550	1.2	1.5	O K
1440 min Winter	11.213	0.406	0.9	1.1	O K
2160 min Winter	11.104	0.297	0.7	0.8	O K
2880 min Winter	11.045	0.238	0.5	0.7	O K
4320 min Winter	10.980	0.173	0.4	0.5	O K
5760 min Winter	10.945	0.138	0.3	0.4	O K
7200 min Winter	10.922	0.115	0.3	0.3	O K
8640 min Winter	10.907	0.100	0.2	0.3	O K
10080 min Winter	10.895	0.088	0.2	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	27		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	78		
180 min Winter	23.167	0.0	108		
240 min Winter	18.658	0.0	140		
360 min Winter	13.718	0.0	200		
480 min Winter	11.023	0.0	260		
600 min Winter	9.295	0.0	320		
720 min Winter	8.082	0.0	382		
960 min Winter	6.475	0.0	502		
1440 min Winter	4.729	0.0	740		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2200		
5760 min Winter	1.589	0.0	2896		
7200 min Winter	1.330	0.0	3592		
8640 min Winter	1.151	0.0	4344		
10080 min Winter	1.019	0.0	5064		
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Date April 2015 File HWSA15.srcx	Designed by SRD Checked by											
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<u>Model Details</u> Storage is Online Cover Level (m) 13.950 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 1.50</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.693</td> </tr> <tr> <td>Invert Level (m) 10.807</td> <td>Cap Infiltration Depth (m) 1.793</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.50	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.693	Invert Level (m) 10.807	Cap Infiltration Depth (m) 1.793
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Summer</td><td>11.697</td><td>1.061</td><td>2.9</td><td>4.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>11.575</td><td>0.939</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>11.479</td><td>0.843</td><td>2.3</td><td>3.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>11.341</td><td>0.705</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>11.175</td><td>0.539</td><td>1.5</td><td>2.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>11.042</td><td>0.406</td><td>1.1</td><td>1.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>10.964</td><td>0.328</td><td>0.9</td><td>1.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>10.877</td><td>0.241</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>10.828</td><td>0.192</td><td>0.5</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>10.797</td><td>0.161</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>10.775</td><td>0.139</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>10.759</td><td>0.123</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>12.587</td><td>1.951</td><td>4.3</td><td>7.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2928</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	12.273	1.637	4.3	6.4	O K	30 min Summer	12.743	2.107	4.3	7.6	O K	60 min Summer	12.929	2.293	4.3	8.1	O K	120 min Summer	12.667	2.031	4.3	7.4	O K	180 min Summer	12.292	1.656	4.3	6.5	O K	240 min Summer	12.103	1.467	4.0	5.8	O K	360 min Summer	11.863	1.227	3.3	4.9	O K	480 min Summer	11.697	1.061	2.9	4.2	O K	600 min Summer	11.575	0.939	2.5	3.7	O K	720 min Summer	11.479	0.843	2.3	3.3	O K	960 min Summer	11.341	0.705	1.9	2.8	O K	1440 min Summer	11.175	0.539	1.5	2.1	O K	2160 min Summer	11.042	0.406	1.1	1.6	O K	2880 min Summer	10.964	0.328	0.9	1.3	O K	4320 min Summer	10.877	0.241	0.7	1.0	O K	5760 min Summer	10.828	0.192	0.5	0.8	O K	7200 min Summer	10.797	0.161	0.4	0.6	O K	8640 min Summer	10.775	0.139	0.4	0.6	O K	10080 min Summer	10.759	0.123	0.3	0.5	O K	15 min Winter	12.587	1.951	4.3	7.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2928	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5136	15 min Winter	116.400	0.0	18
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The Civil Engineering Practice					Page 2
11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA16.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	13.136	2.500	4.3	8.6	O K
60 min Winter	13.406	2.770	4.3	8.9	Flood Risk
120 min Winter	12.694	2.058	4.3	7.5	O K
180 min Winter	12.192	1.556	4.2	6.2	O K
240 min Winter	11.985	1.349	3.6	5.4	O K
360 min Winter	11.707	1.071	2.9	4.2	O K
480 min Winter	11.529	0.893	2.4	3.5	O K
600 min Winter	11.405	0.769	2.1	3.1	O K
720 min Winter	11.314	0.678	1.8	2.7	O K
960 min Winter	11.187	0.551	1.5	2.2	O K
1440 min Winter	11.044	0.408	1.1	1.6	O K
2160 min Winter	10.936	0.300	0.8	1.2	O K
2880 min Winter	10.876	0.240	0.6	1.0	O K
4320 min Winter	10.810	0.174	0.5	0.7	O K
5760 min Winter	10.775	0.139	0.4	0.6	O K
7200 min Winter	10.752	0.116	0.3	0.5	O K
8640 min Winter	10.737	0.101	0.3	0.4	O K
10080 min Winter	10.725	0.089	0.2	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4304		
10080 min Winter	1.019	0.0	5056		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA16.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 13.586

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.500
Invert Level (m) 10.636	Cap Infiltration Depth (m) 1.600

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Summer</td><td>12.109</td><td>1.259</td><td>4.5</td><td>8.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>11.975</td><td>1.125</td><td>4.1</td><td>7.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>11.869</td><td>1.019</td><td>3.7</td><td>7.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>11.712</td><td>0.862</td><td>3.1</td><td>6.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>11.516</td><td>0.666</td><td>2.4</td><td>4.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>11.357</td><td>0.507</td><td>1.8</td><td>3.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>11.263</td><td>0.413</td><td>1.5</td><td>2.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>11.155</td><td>0.305</td><td>1.1</td><td>2.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>11.094</td><td>0.244</td><td>0.9</td><td>1.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>11.055</td><td>0.205</td><td>0.7</td><td>1.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>11.028</td><td>0.178</td><td>0.6</td><td>1.3</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>11.007</td><td>0.157</td><td>0.6</td><td>1.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>12.715</td><td>1.865</td><td>6.5</td><td>13.0</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>116.400</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>140</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>202</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>262</td></tr><tr><td>600 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Summer	12.903	2.053	6.5	13.8	O K	60 min Summer	13.170	2.320	6.5	15.0	O K	120 min Summer	13.026	2.176	6.5	14.4	O K	180 min Summer	12.717	1.867	6.5	13.0	O K	240 min Summer	12.530	1.680	6.0	11.9	O K	360 min Summer	12.285	1.435	5.2	10.1	O K	480 min Summer	12.109	1.259	4.5	8.9	O K	600 min Summer	11.975	1.125	4.1	7.9	O K	720 min Summer	11.869	1.019	3.7	7.2	O K	960 min Summer	11.712	0.862	3.1	6.1	O K	1440 min Summer	11.516	0.666	2.4	4.7	O K	2160 min Summer	11.357	0.507	1.8	3.6	O K	2880 min Summer	11.263	0.413	1.5	2.9	O K	4320 min Summer	11.155	0.305	1.1	2.2	O K	5760 min Summer	11.094	0.244	0.9	1.7	O K	7200 min Summer	11.055	0.205	0.7	1.4	O K	8640 min Summer	11.028	0.178	0.6	1.3	O K	10080 min Summer	11.007	0.157	0.6	1.1	O K	15 min Winter	12.715	1.865	6.5	13.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	18	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	140	360 min Summer	13.718	0.0	202	480 min Summer	11.023	0.0	262	600 min Summer	9.295	0.0	324	720 min Summer	8.082	0.0	384	960 min Summer	6.475	0.0	504	1440 min Summer	4.729	0.0	744	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1472	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4392	10080 min Summer	1.019	0.0	5072	15 min Winter	116.400	0.0	18
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240 min Summer	12.530	1.680	6.0	11.9	O K																																																																																																																																																																																																																			
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11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067			
Date April 2015 File HWSA17.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	13.308	2.458	6.5	15.7	O K	
60 min Winter	13.524	2.674	6.5	16.7	O K	
120 min Winter	13.159	2.309	6.5	15.0	O K	
180 min Winter	12.665	1.815	6.5	12.8	O K	
240 min Winter	12.449	1.599	5.8	11.3	O K	
360 min Winter	12.149	1.299	4.7	9.2	O K	
480 min Winter	11.948	1.098	4.0	7.7	O K	
600 min Winter	11.804	0.954	3.4	6.7	O K	
720 min Winter	11.695	0.845	3.0	6.0	O K	
960 min Winter	11.543	0.693	2.5	4.9	O K	
1440 min Winter	11.366	0.516	1.9	3.6	O K	
2160 min Winter	11.230	0.380	1.4	2.7	O K	
2880 min Winter	11.155	0.305	1.1	2.2	O K	
4320 min Winter	11.072	0.222	0.8	1.6	O K	
5760 min Winter	11.027	0.177	0.6	1.2	O K	
7200 min Winter	10.998	0.148	0.5	1.0	O K	
8640 min Winter	10.978	0.128	0.5	0.9	O K	
10080 min Winter	10.964	0.114	0.4	0.8	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	29			
60 min Winter	50.211	0.0	48			
120 min Winter	31.113	0.0	82			
180 min Winter	23.167	0.0	114			
240 min Winter	18.658	0.0	146			
360 min Winter	13.718	0.0	208			
480 min Winter	11.023	0.0	270			
600 min Winter	9.295	0.0	330			
720 min Winter	8.082	0.0	390			
960 min Winter	6.475	0.0	512			
1440 min Winter	4.729	0.0	752			
2160 min Winter	3.446	0.0	1108			
2880 min Winter	2.750	0.0	1472			
4320 min Winter	1.997	0.0	2204			
5760 min Winter	1.589	0.0	2928			
7200 min Winter	1.330	0.0	3672			
8640 min Winter	1.151	0.0	4400			
10080 min Winter	1.019	0.0	5040			
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Date April 2015 File HWSA17.srcx	Designed by SRD Checked by											
XP Solutions Source Control 2015.1												
<u>Model Details</u> Storage is Online Cover Level (m) 14.000 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 2.40</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.700</td> </tr> <tr> <td>Invert Level (m) 10.850</td> <td>Cap Infiltration Depth (m) 1.800</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 2.40	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.700	Invert Level (m) 10.850	Cap Infiltration Depth (m) 1.800
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Summer</td><td>13.035</td><td>0.861</td><td>1.6</td><td>1.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.926</td><td>0.752</td><td>1.4</td><td>1.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>12.843</td><td>0.669</td><td>1.2</td><td>1.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.727</td><td>0.553</td><td>1.0</td><td>1.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.591</td><td>0.417</td><td>0.8</td><td>0.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.483</td><td>0.309</td><td>0.6</td><td>0.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.423</td><td>0.249</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.355</td><td>0.181</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.318</td><td>0.144</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.295</td><td>0.121</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.279</td><td>0.105</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.267</td><td>0.093</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.551</td><td>2.377</td><td>2.2</td><td>3.4</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>194</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>254</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>314</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>374</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2192</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2920</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4344</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5024</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.182	2.008	2.2	3.0	O K	30 min Summer	14.700	2.526	2.2	3.6	O K	60 min Summer	14.833	2.659	2.2	3.7	Flood Risk	120 min Summer	14.379	2.205	2.2	3.3	O K	180 min Summer	13.864	1.690	2.2	2.7	O K	240 min Summer	13.465	1.291	2.2	2.2	O K	360 min Summer	13.188	1.014	1.8	1.8	O K	480 min Summer	13.035	0.861	1.6	1.5	O K	600 min Summer	12.926	0.752	1.4	1.3	O K	720 min Summer	12.843	0.669	1.2	1.2	O K	960 min Summer	12.727	0.553	1.0	1.0	O K	1440 min Summer	12.591	0.417	0.8	0.7	O K	2160 min Summer	12.483	0.309	0.6	0.5	O K	2880 min Summer	12.423	0.249	0.4	0.4	O K	4320 min Summer	12.355	0.181	0.3	0.3	O K	5760 min Summer	12.318	0.144	0.3	0.3	O K	7200 min Summer	12.295	0.121	0.2	0.2	O K	8640 min Summer	12.279	0.105	0.2	0.2	O K	10080 min Summer	12.267	0.093	0.2	0.2	O K	15 min Winter	14.551	2.377	2.2	3.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	194	480 min Summer	11.023	0.0	254	600 min Summer	9.295	0.0	314	720 min Summer	8.082	0.0	374	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1100	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2192	5760 min Summer	1.589	0.0	2920	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4344	10080 min Summer	1.019	0.0	5024	15 min Winter	116.400	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	14.182	2.008	2.2	3.0	O K																																																																																																																																																																																																																		
30 min Summer	14.700	2.526	2.2	3.6	O K																																																																																																																																																																																																																		
60 min Summer	14.833	2.659	2.2	3.7	Flood Risk																																																																																																																																																																																																																		
120 min Summer	14.379	2.205	2.2	3.3	O K																																																																																																																																																																																																																		
180 min Summer	13.864	1.690	2.2	2.7	O K																																																																																																																																																																																																																		
240 min Summer	13.465	1.291	2.2	2.2	O K																																																																																																																																																																																																																		
360 min Summer	13.188	1.014	1.8	1.8	O K																																																																																																																																																																																																																		
480 min Summer	13.035	0.861	1.6	1.5	O K																																																																																																																																																																																																																		
600 min Summer	12.926	0.752	1.4	1.3	O K																																																																																																																																																																																																																		
720 min Summer	12.843	0.669	1.2	1.2	O K																																																																																																																																																																																																																		
960 min Summer	12.727	0.553	1.0	1.0	O K																																																																																																																																																																																																																		
1440 min Summer	12.591	0.417	0.8	0.7	O K																																																																																																																																																																																																																		
2160 min Summer	12.483	0.309	0.6	0.5	O K																																																																																																																																																																																																																		
2880 min Summer	12.423	0.249	0.4	0.4	O K																																																																																																																																																																																																																		
4320 min Summer	12.355	0.181	0.3	0.3	O K																																																																																																																																																																																																																		
5760 min Summer	12.318	0.144	0.3	0.3	O K																																																																																																																																																																																																																		
7200 min Summer	12.295	0.121	0.2	0.2	O K																																																																																																																																																																																																																		
8640 min Summer	12.279	0.105	0.2	0.2	O K																																																																																																																																																																																																																		
10080 min Summer	12.267	0.093	0.2	0.2	O K																																																																																																																																																																																																																		
15 min Winter	14.551	2.377	2.2	3.4	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	116.400	0.0	17																																																																																																																																																																																																																				
30 min Summer	78.248	0.0	26																																																																																																																																																																																																																				
60 min Summer	50.211	0.0	44																																																																																																																																																																																																																				
120 min Summer	31.113	0.0	76																																																																																																																																																																																																																				
180 min Summer	23.167	0.0	106																																																																																																																																																																																																																				
240 min Summer	18.658	0.0	134																																																																																																																																																																																																																				
360 min Summer	13.718	0.0	194																																																																																																																																																																																																																				
480 min Summer	11.023	0.0	254																																																																																																																																																																																																																				
600 min Summer	9.295	0.0	314																																																																																																																																																																																																																				
720 min Summer	8.082	0.0	374																																																																																																																																																																																																																				
960 min Summer	6.475	0.0	496																																																																																																																																																																																																																				
1440 min Summer	4.729	0.0	738																																																																																																																																																																																																																				
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The Civil Engineering Practice					Page 2
11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA18 As Built.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	15.025	2.851	2.2	4.1	FLOOD
60 min Winter	15.025	2.851	2.2	4.1	FLOOD
120 min Winter	14.337	2.163	2.2	3.2	O K
180 min Winter	13.571	1.397	2.2	2.3	O K
240 min Winter	13.265	1.091	2.0	1.9	O K
360 min Winter	13.017	0.843	1.5	1.5	O K
480 min Winter	12.867	0.693	1.2	1.2	O K
600 min Winter	12.766	0.592	1.1	1.0	O K
720 min Winter	12.692	0.518	0.9	0.9	O K
960 min Winter	12.593	0.419	0.8	0.7	O K
1440 min Winter	12.482	0.308	0.6	0.5	O K
2160 min Winter	12.400	0.226	0.4	0.4	O K
2880 min Winter	12.354	0.180	0.3	0.3	O K
4320 min Winter	12.305	0.131	0.2	0.2	O K
5760 min Winter	12.278	0.104	0.2	0.2	O K
7200 min Winter	12.261	0.087	0.2	0.2	O K
8640 min Winter	12.250	0.076	0.1	0.1	O K
10080 min Winter	12.241	0.067	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.6	28		
60 min Winter	50.211	0.6	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	108		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2192		
5760 min Winter	1.589	0.0	2872		
7200 min Winter	1.330	0.0	3576		
8640 min Winter	1.151	0.0	4280		
10080 min Winter	1.019	0.0	5096		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067											
Date April 2015 File HWSA18 As Built.srcx	Designed by SRD Checked by											
XP Solutions Source Control 2015.1												
<u>Model Details</u> Storage is Online Cover Level (m) 15.025 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 1.20</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.401</td> </tr> <tr> <td>Invert Level (m) 12.174</td> <td>Cap Infiltration Depth (m) 1.201</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.401	Invert Level (m) 12.174	Cap Infiltration Depth (m) 1.201
Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20											
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5											
Safety Factor 2.0	Number Required 1											
Porosity 0.30	Cap Volume Depth (m) 2.401											
Invert Level (m) 12.174	Cap Infiltration Depth (m) 1.201											
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The Civil Engineering Practice				Page 1																																																																																																																																																																																																																			
11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
Date April 2015 File HWSA19.srcx		Designed by SRD Checked by																																																																																																																																																																																																																					
XP Solutions		Source Control 2015.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 21 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>12.756</td><td>1.706</td><td>4.6</td><td>6.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>13.245</td><td>2.195</td><td>4.6</td><td>8.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>13.435</td><td>2.385</td><td>4.6</td><td>8.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>13.159</td><td>2.109</td><td>4.6</td><td>7.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>12.773</td><td>1.723</td><td>4.6</td><td>6.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>12.591</td><td>1.541</td><td>4.2</td><td>6.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>12.339</td><td>1.289</td><td>3.5</td><td>5.1</td><td>O K</td></tr><tr><td>480 min Summer</td><td>12.164</td><td>1.114</td><td>3.0</td><td>4.4</td><td>O K</td></tr><tr><td>600 min Summer</td><td>12.035</td><td>0.985</td><td>2.7</td><td>3.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>11.936</td><td>0.886</td><td>2.4</td><td>3.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>11.791</td><td>0.741</td><td>2.0</td><td>2.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>11.616</td><td>0.566</td><td>1.5</td><td>2.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>11.476</td><td>0.426</td><td>1.1</td><td>1.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>11.394</td><td>0.344</td><td>0.9</td><td>1.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>11.303</td><td>0.253</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>11.252</td><td>0.202</td><td>0.5</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>11.219</td><td>0.169</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>11.196</td><td>0.146</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>11.180</td><td>0.130</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.083</td><td>2.033</td><td>4.6</td><td>7.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5064</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	12.756	1.706	4.6	6.8	O K	30 min Summer	13.245	2.195	4.6	8.0	O K	60 min Summer	13.435	2.385	4.6	8.5	O K	120 min Summer	13.159	2.109	4.6	7.8	O K	180 min Summer	12.773	1.723	4.6	6.8	O K	240 min Summer	12.591	1.541	4.2	6.1	O K	360 min Summer	12.339	1.289	3.5	5.1	O K	480 min Summer	12.164	1.114	3.0	4.4	O K	600 min Summer	12.035	0.985	2.7	3.9	O K	720 min Summer	11.936	0.886	2.4	3.5	O K	960 min Summer	11.791	0.741	2.0	2.9	O K	1440 min Summer	11.616	0.566	1.5	2.2	O K	2160 min Summer	11.476	0.426	1.1	1.7	O K	2880 min Summer	11.394	0.344	0.9	1.4	O K	4320 min Summer	11.303	0.253	0.7	1.0	O K	5760 min Summer	11.252	0.202	0.5	0.8	O K	7200 min Summer	11.219	0.169	0.5	0.7	O K	8640 min Summer	11.196	0.146	0.4	0.6	O K	10080 min Summer	11.180	0.130	0.4	0.5	O K	15 min Winter	13.083	2.033	4.6	7.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5064	15 min Winter	116.400	0.0	18
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7200 min Summer	11.219	0.169	0.5	0.7	O K																																																																																																																																																																																																																		
8640 min Summer	11.196	0.146	0.4	0.6	O K																																																																																																																																																																																																																		
10080 min Summer	11.180	0.130	0.4	0.5	O K																																																																																																																																																																																																																		
15 min Winter	13.083	2.033	4.6	7.6	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	116.400	0.0	17																																																																																																																																																																																																																				
30 min Summer	78.248	0.0	26																																																																																																																																																																																																																				
60 min Summer	50.211	0.0	44																																																																																																																																																																																																																				
120 min Summer	31.113	0.0	76																																																																																																																																																																																																																				
180 min Summer	23.167	0.0	106																																																																																																																																																																																																																				
240 min Summer	18.658	0.0	136																																																																																																																																																																																																																				
360 min Summer	13.718	0.0	198																																																																																																																																																																																																																				
480 min Summer	11.023	0.0	258																																																																																																																																																																																																																				
600 min Summer	9.295	0.0	320																																																																																																																																																																																																																				
720 min Summer	8.082	0.0	380																																																																																																																																																																																																																				
960 min Summer	6.475	0.0	500																																																																																																																																																																																																																				
1440 min Summer	4.729	0.0	740																																																																																																																																																																																																																				
2160 min Summer	3.446	0.0	1104																																																																																																																																																																																																																				
2880 min Summer	2.750	0.0	1468																																																																																																																																																																																																																				
4320 min Summer	1.997	0.0	2200																																																																																																																																																																																																																				
5760 min Summer	1.589	0.0	2936																																																																																																																																																																																																																				
7200 min Summer	1.330	0.0	3664																																																																																																																																																																																																																				
8640 min Summer	1.151	0.0	4400																																																																																																																																																																																																																				
10080 min Summer	1.019	0.0	5064																																																																																																																																																																																																																				
15 min Winter	116.400	0.0	18																																																																																																																																																																																																																				
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	13.659	2.609	4.6	9.0	O K
60 min Winter	13.933	2.383	4.6	9.3	Flood Risk
120 min Winter	13.184	2.134	4.6	7.8	O K
180 min Winter	12.683	1.633	4.4	6.5	O K
240 min Winter	12.467	1.417	3.8	5.6	O K
360 min Winter	12.174	1.124	3.0	4.5	O K
480 min Winter	11.988	0.938	2.5	3.7	O K
600 min Winter	11.858	0.808	2.2	3.2	O K
720 min Winter	11.762	0.712	1.9	2.8	O K
960 min Winter	11.629	0.579	1.6	2.3	O K
1440 min Winter	11.478	0.428	1.2	1.7	O K
2160 min Winter	11.365	0.315	0.8	1.2	O K
2880 min Winter	11.302	0.252	0.7	1.0	O K
4320 min Winter	11.233	0.183	0.5	0.7	O K
5760 min Winter	11.196	0.146	0.4	0.6	O K
7200 min Winter	11.172	0.122	0.3	0.5	O K
8640 min Winter	11.156	0.106	0.3	0.4	O K
10080 min Winter	11.144	0.094	0.3	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	204		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	744		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2200		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3640		
8640 min Winter	1.151	0.0	4344		
10080 min Winter	1.019	0.0	5128		
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Model Details

Storage is Online Cover Level (m) 14.100

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.600
Invert Level (m) 11.050	Cap Infiltration Depth (m) 1.700

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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XP Solutions		Source Control 2015.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 13 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>12.310</td><td>1.310</td><td>2.4</td><td>2.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>12.482</td><td>1.482</td><td>2.7</td><td>2.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>12.488</td><td>1.488</td><td>2.7</td><td>2.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>12.305</td><td>1.305</td><td>2.3</td><td>2.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>12.131</td><td>1.131</td><td>2.0</td><td>2.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>11.998</td><td>0.998</td><td>1.8</td><td>1.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>11.811</td><td>0.811</td><td>1.5</td><td>1.4</td><td>O K</td></tr><tr><td>480 min Summer</td><td>11.689</td><td>0.689</td><td>1.2</td><td>1.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>11.602</td><td>0.602</td><td>1.1</td><td>1.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>11.535</td><td>0.535</td><td>1.0</td><td>0.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>11.442</td><td>0.442</td><td>0.8</td><td>0.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>11.333</td><td>0.333</td><td>0.6</td><td>0.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>11.247</td><td>0.247</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>11.199</td><td>0.199</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>11.145</td><td>0.145</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>11.115</td><td>0.115</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>11.097</td><td>0.097</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>11.084</td><td>0.084</td><td>0.2</td><td>0.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>11.074</td><td>0.074</td><td>0.1</td><td>0.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>12.453</td><td>1.453</td><td>2.6</td><td>2.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>16</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>24</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>40</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>72</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>194</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>254</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>314</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>374</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3624</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5016</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	12.310	1.310	2.4	2.3	O K	30 min Summer	12.482	1.482	2.7	2.6	O K	60 min Summer	12.488	1.488	2.7	2.6	O K	120 min Summer	12.305	1.305	2.3	2.3	O K	180 min Summer	12.131	1.131	2.0	2.0	O K	240 min Summer	11.998	0.998	1.8	1.8	O K	360 min Summer	11.811	0.811	1.5	1.4	O K	480 min Summer	11.689	0.689	1.2	1.2	O K	600 min Summer	11.602	0.602	1.1	1.1	O K	720 min Summer	11.535	0.535	1.0	0.9	O K	960 min Summer	11.442	0.442	0.8	0.8	O K	1440 min Summer	11.333	0.333	0.6	0.6	O K	2160 min Summer	11.247	0.247	0.4	0.4	O K	2880 min Summer	11.199	0.199	0.4	0.4	O K	4320 min Summer	11.145	0.145	0.3	0.3	O K	5760 min Summer	11.115	0.115	0.2	0.2	O K	7200 min Summer	11.097	0.097	0.2	0.2	O K	8640 min Summer	11.084	0.084	0.2	0.1	O K	10080 min Summer	11.074	0.074	0.1	0.1	O K	15 min Winter	12.453	1.453	2.6	2.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	16	30 min Summer	78.248	0.0	24	60 min Summer	50.211	0.0	40	120 min Summer	31.113	0.0	72	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	194	480 min Summer	11.023	0.0	254	600 min Summer	9.295	0.0	314	720 min Summer	8.082	0.0	374	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1100	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3624	8640 min Summer	1.151	0.0	4384	10080 min Summer	1.019	0.0	5016	15 min Winter	116.400	0.0	17
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
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360 min Summer	11.811	0.811	1.5	1.4	O K																																																																																																																																																																																																																		
480 min Summer	11.689	0.689	1.2	1.2	O K																																																																																																																																																																																																																		
600 min Summer	11.602	0.602	1.1	1.1	O K																																																																																																																																																																																																																		
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5760 min Summer	11.115	0.115	0.2	0.2	O K																																																																																																																																																																																																																		
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	12.612	1.612	2.9	2.8	O K
60 min Winter	12.539	1.539	2.8	2.7	O K
120 min Winter	12.248	1.248	2.2	2.2	O K
180 min Winter	12.029	1.029	1.9	1.8	O K
240 min Winter	11.873	0.873	1.6	1.5	O K
360 min Winter	11.674	0.674	1.2	1.2	O K
480 min Winter	11.554	0.554	1.0	1.0	O K
600 min Winter	11.473	0.473	0.9	0.8	O K
720 min Winter	11.415	0.415	0.7	0.7	O K
960 min Winter	11.335	0.335	0.6	0.6	O K
1440 min Winter	11.247	0.247	0.4	0.4	O K
2160 min Winter	11.180	0.180	0.3	0.3	O K
2880 min Winter	11.144	0.144	0.3	0.3	O K
4320 min Winter	11.105	0.105	0.2	0.2	O K
5760 min Winter	11.084	0.084	0.2	0.1	O K
7200 min Winter	11.070	0.070	0.1	0.1	O K
8640 min Winter	11.061	0.061	0.1	0.1	O K
10080 min Winter	11.054	0.054	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	25		
60 min Winter	50.211	0.0	42		
120 min Winter	31.113	0.0	74		
180 min Winter	23.167	0.0	106		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1452		
4320 min Winter	1.997	0.0	2152		
5760 min Winter	1.589	0.0	2928		
7200 min Winter	1.330	0.0	3672		
8640 min Winter	1.151	0.0	4304		
10080 min Winter	1.019	0.0	5072		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 14.000

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.550
Invert Level (m) 11.000	Cap Infiltration Depth (m) 1.650

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 22 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>13.720</td><td>1.260</td><td>3.1</td><td>4.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.084</td><td>1.624</td><td>3.1</td><td>5.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.236</td><td>1.776</td><td>3.1</td><td>6.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.041</td><td>1.581</td><td>3.1</td><td>5.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.749</td><td>1.289</td><td>3.1</td><td>4.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.561</td><td>1.101</td><td>3.0</td><td>4.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.381</td><td>0.921</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.256</td><td>0.796</td><td>2.1</td><td>3.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.164</td><td>0.704</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.093</td><td>0.633</td><td>1.7</td><td>2.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.989</td><td>0.529</td><td>1.4</td><td>2.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.865</td><td>0.405</td><td>1.1</td><td>1.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.764</td><td>0.304</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.706</td><td>0.246</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.641</td><td>0.181</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.604</td><td>0.144</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.581</td><td>0.121</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.565</td><td>0.105</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.553</td><td>0.093</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.964</td><td>1.504</td><td>3.1</td><td>5.5</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5104</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.720	1.260	3.1	4.8	O K	30 min Summer	14.084	1.624	3.1	5.8	O K	60 min Summer	14.236	1.776	3.1	6.2	O K	120 min Summer	14.041	1.581	3.1	5.7	O K	180 min Summer	13.749	1.289	3.1	4.9	O K	240 min Summer	13.561	1.101	3.0	4.4	O K	360 min Summer	13.381	0.921	2.5	3.7	O K	480 min Summer	13.256	0.796	2.1	3.2	O K	600 min Summer	13.164	0.704	1.9	2.8	O K	720 min Summer	13.093	0.633	1.7	2.5	O K	960 min Summer	12.989	0.529	1.4	2.1	O K	1440 min Summer	12.865	0.405	1.1	1.6	O K	2160 min Summer	12.764	0.304	0.8	1.2	O K	2880 min Summer	12.706	0.246	0.7	1.0	O K	4320 min Summer	12.641	0.181	0.5	0.7	O K	5760 min Summer	12.604	0.144	0.4	0.6	O K	7200 min Summer	12.581	0.121	0.3	0.5	O K	8640 min Summer	12.565	0.105	0.3	0.4	O K	10080 min Summer	12.553	0.093	0.3	0.4	O K	15 min Winter	13.964	1.504	3.1	5.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4384	10080 min Summer	1.019	0.0	5104	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067			
Date April 2015 File HWSA21.srcx			Designed by SRD Checked by			
XP Solutions			Source Control 2015.1			
Micro Drainage						
<u>Summary of Results for 100 year Return Period (+30%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	14.387	1.927	3.1	6.5	O K	
60 min Winter	14.477	2.017	3.1	6.8	O K	
120 min Winter	14.075	1.615	3.1	5.7	O K	
180 min Winter	13.640	1.180	3.1	4.6	O K	
240 min Winter	13.472	1.012	2.7	4.0	O K	
360 min Winter	13.263	0.803	2.2	3.2	O K	
480 min Winter	13.130	0.670	1.8	2.7	O K	
600 min Winter	13.037	0.577	1.6	2.3	O K	
720 min Winter	12.968	0.508	1.4	2.0	O K	
960 min Winter	12.874	0.414	1.1	1.6	O K	
1440 min Winter	12.766	0.306	0.8	1.2	O K	
2160 min Winter	12.685	0.225	0.6	0.9	O K	
2880 min Winter	12.640	0.180	0.5	0.7	O K	
4320 min Winter	12.591	0.131	0.4	0.5	O K	
5760 min Winter	12.564	0.104	0.3	0.4	O K	
7200 min Winter	12.547	0.087	0.2	0.3	O K	
8640 min Winter	12.536	0.076	0.2	0.3	O K	
10080 min Winter	12.527	0.067	0.2	0.3	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	78.248	0.0	28			
60 min Winter	50.211	0.0	46			
120 min Winter	31.113	0.0	80			
180 min Winter	23.167	0.0	110			
240 min Winter	18.658	0.0	142			
360 min Winter	13.718	0.0	204			
480 min Winter	11.023	0.0	264			
600 min Winter	9.295	0.0	324			
720 min Winter	8.082	0.0	384			
960 min Winter	6.475	0.0	504			
1440 min Winter	4.729	0.0	748			
2160 min Winter	3.446	0.0	1104			
2880 min Winter	2.750	0.0	1472			
4320 min Winter	1.997	0.0	2204			
5760 min Winter	1.589	0.0	2920			
7200 min Winter	1.330	0.0	3624			
8640 min Winter	1.151	0.0	4296			
10080 min Winter	1.019	0.0	5128			
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA21.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 14.960

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.050
Invert Level (m) 12.460	Cap Infiltration Depth (m) 1.150

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Summer</td><td>13.440</td><td>1.008</td><td>2.7</td><td>4.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.324</td><td>0.892</td><td>2.4</td><td>3.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.233</td><td>0.801</td><td>2.2</td><td>3.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.102</td><td>0.670</td><td>1.8</td><td>2.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.944</td><td>0.512</td><td>1.4</td><td>2.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.817</td><td>0.385</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.744</td><td>0.312</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.661</td><td>0.229</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.614</td><td>0.182</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.585</td><td>0.153</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.564</td><td>0.132</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.549</td><td>0.117</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.301</td><td>1.869</td><td>4.1</td><td>6.9</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>106</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5088</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.000	1.568	4.1	6.1	O K	30 min Summer	14.450	2.018	4.1	7.3	O K	60 min Summer	14.633	2.201	4.1	7.7	O K	120 min Summer	14.384	1.952	4.1	7.1	O K	180 min Summer	14.022	1.590	4.1	6.2	O K	240 min Summer	13.826	1.394	3.8	5.5	O K	360 min Summer	13.598	1.166	3.1	4.6	O K	480 min Summer	13.440	1.008	2.7	4.0	O K	600 min Summer	13.324	0.892	2.4	3.5	O K	720 min Summer	13.233	0.801	2.2	3.2	O K	960 min Summer	13.102	0.670	1.8	2.7	O K	1440 min Summer	12.944	0.512	1.4	2.0	O K	2160 min Summer	12.817	0.385	1.0	1.5	O K	2880 min Summer	12.744	0.312	0.8	1.2	O K	4320 min Summer	12.661	0.229	0.6	0.9	O K	5760 min Summer	12.614	0.182	0.5	0.7	O K	7200 min Summer	12.585	0.153	0.4	0.6	O K	8640 min Summer	12.564	0.132	0.4	0.5	O K	10080 min Summer	12.549	0.117	0.3	0.5	O K	15 min Winter	14.301	1.869	4.1	6.9	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	106	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5088	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA22.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.827	2.395	4.1	8.2	O K
60 min Winter	15.089	2.657	4.1	8.5	Flood Risk
120 min Winter	14.415	1.983	4.1	7.2	O K
180 min Winter	13.910	1.478	4.0	5.9	O K
240 min Winter	13.714	1.282	3.5	5.1	O K
360 min Winter	13.449	1.017	2.7	4.0	O K
480 min Winter	13.280	0.848	2.3	3.4	O K
600 min Winter	13.163	0.731	2.0	2.9	O K
720 min Winter	13.076	0.644	1.7	2.6	O K
960 min Winter	12.956	0.524	1.4	2.1	O K
1440 min Winter	12.820	0.388	1.0	1.5	O K
2160 min Winter	12.717	0.285	0.8	1.1	O K
2880 min Winter	12.660	0.228	0.6	0.9	O K
4320 min Winter	12.598	0.166	0.4	0.7	O K
5760 min Winter	12.564	0.132	0.4	0.5	O K
7200 min Winter	12.543	0.111	0.3	0.4	O K
8640 min Winter	12.528	0.096	0.3	0.4	O K
10080 min Winter	12.517	0.085	0.2	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	80		
180 min Winter	23.167	0.0	110		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	202		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	742		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2200		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3624		
8640 min Winter	1.151	0.0	4392		
10080 min Winter	1.019	0.0	5088		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA22.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.282

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.400
Invert Level (m) 12.432	Cap Infiltration Depth (m) 1.500

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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 17 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>14.226</td><td>1.413</td><td>1.8</td><td>2.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.576</td><td>1.763</td><td>1.8</td><td>2.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.635</td><td>1.822</td><td>1.8</td><td>2.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.298</td><td>1.485</td><td>1.8</td><td>2.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.936</td><td>1.123</td><td>1.8</td><td>1.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.749</td><td>0.936</td><td>1.7</td><td>1.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.574</td><td>0.761</td><td>1.4</td><td>1.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.459</td><td>0.646</td><td>1.2</td><td>1.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.377</td><td>0.564</td><td>1.0</td><td>1.0</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.315</td><td>0.502</td><td>0.9</td><td>0.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.228</td><td>0.415</td><td>0.7</td><td>0.7</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.126</td><td>0.313</td><td>0.6</td><td>0.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.045</td><td>0.232</td><td>0.4</td><td>0.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.999</td><td>0.186</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.949</td><td>0.136</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.921</td><td>0.108</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.904</td><td>0.091</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.892</td><td>0.079</td><td>0.1</td><td>0.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.883</td><td>0.070</td><td>0.1</td><td>0.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.489</td><td>1.676</td><td>1.8</td><td>2.5</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>194</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>254</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>314</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>376</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2920</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3640</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4376</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5056</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.226	1.413	1.8	2.2	O K	30 min Summer	14.576	1.763	1.8	2.6	O K	60 min Summer	14.635	1.822	1.8	2.7	O K	120 min Summer	14.298	1.485	1.8	2.3	O K	180 min Summer	13.936	1.123	1.8	1.9	O K	240 min Summer	13.749	0.936	1.7	1.7	O K	360 min Summer	13.574	0.761	1.4	1.3	O K	480 min Summer	13.459	0.646	1.2	1.1	O K	600 min Summer	13.377	0.564	1.0	1.0	O K	720 min Summer	13.315	0.502	0.9	0.9	O K	960 min Summer	13.228	0.415	0.7	0.7	O K	1440 min Summer	13.126	0.313	0.6	0.6	O K	2160 min Summer	13.045	0.232	0.4	0.4	O K	2880 min Summer	12.999	0.186	0.3	0.3	O K	4320 min Summer	12.949	0.136	0.2	0.2	O K	5760 min Summer	12.921	0.108	0.2	0.2	O K	7200 min Summer	12.904	0.091	0.2	0.2	O K	8640 min Summer	12.892	0.079	0.1	0.1	O K	10080 min Summer	12.883	0.070	0.1	0.1	O K	15 min Winter	14.489	1.676	1.8	2.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	194	480 min Summer	11.023	0.0	254	600 min Summer	9.295	0.0	314	720 min Summer	8.082	0.0	376	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1100	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2920	7200 min Summer	1.330	0.0	3640	8640 min Summer	1.151	0.0	4376	10080 min Summer	1.019	0.0	5056	15 min Winter	116.400	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
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360 min Summer	13.574	0.761	1.4	1.3	O K																																																																																																																																																																																																																		
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600 min Summer	13.377	0.564	1.0	1.0	O K																																																																																																																																																																																																																		
720 min Summer	13.315	0.502	0.9	0.9	O K																																																																																																																																																																																																																		
960 min Summer	13.228	0.415	0.7	0.7	O K																																																																																																																																																																																																																		
1440 min Summer	13.126	0.313	0.6	0.6	O K																																																																																																																																																																																																																		
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA23.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.990	2.987	1.8	9.0	Flood Risk
60 min Winter	14.857	2.044	1.8	2.9	O K
120 min Winter	14.221	1.408	1.8	2.2	O K
180 min Winter	13.778	0.965	1.7	1.7	O K
240 min Winter	13.631	0.818	1.5	1.4	O K
360 min Winter	13.445	0.632	1.1	1.1	O K
480 min Winter	13.333	0.520	0.9	0.9	O K
600 min Winter	13.257	0.444	0.8	0.8	O K
720 min Winter	13.202	0.389	0.7	0.7	O K
960 min Winter	13.127	0.314	0.6	0.6	O K
1440 min Winter	13.044	0.231	0.4	0.4	O K
2160 min Winter	12.982	0.169	0.3	0.3	O K
2880 min Winter	12.948	0.135	0.2	0.2	O K
4320 min Winter	12.911	0.098	0.2	0.2	O K
5760 min Winter	12.891	0.078	0.1	0.1	O K
7200 min Winter	12.879	0.066	0.1	0.1	O K
8640 min Winter	12.870	0.057	0.1	0.1	O K
10080 min Winter	12.863	0.050	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	78		
180 min Winter	23.167	0.0	106		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1100		
2880 min Winter	2.750	0.0	1452		
4320 min Winter	1.997	0.0	2176		
5760 min Winter	1.589	0.0	2880		
7200 min Winter	1.330	0.0	3600		
8640 min Winter	1.151	0.0	4288		
10080 min Winter	1.019	0.0	5064		
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11 Tungsten Building George Street Fishersgate BN41 1RA	Swanbourne Park Angmering 22067	
Date April 2015 File HWSA23.srcx	Designed by SRD Checked by	
XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 15.163

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.20
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 1.900
Invert Level (m) 12.813	Cap Infiltration Depth (m) 1.000

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11 Tungsten Building George Street Fishersgate BN41 1RA			Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 23 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>13.736</td><td>1.296</td><td>3.0</td><td>4.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.112</td><td>1.672</td><td>3.0</td><td>5.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.273</td><td>1.833</td><td>3.0</td><td>6.2</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.084</td><td>1.644</td><td>3.0</td><td>5.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.789</td><td>1.349</td><td>3.0</td><td>5.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.541</td><td>1.101</td><td>3.0</td><td>4.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.361</td><td>0.921</td><td>2.5</td><td>3.7</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.236</td><td>0.796</td><td>2.1</td><td>3.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.144</td><td>0.704</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.073</td><td>0.633</td><td>1.7</td><td>2.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.969</td><td>0.529</td><td>1.4</td><td>2.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.845</td><td>0.405</td><td>1.1</td><td>1.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.744</td><td>0.304</td><td>0.8</td><td>1.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.686</td><td>0.246</td><td>0.7</td><td>1.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.621</td><td>0.181</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.584</td><td>0.144</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.561</td><td>0.121</td><td>0.3</td><td>0.5</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.545</td><td>0.105</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.533</td><td>0.093</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>13.986</td><td>1.546</td><td>3.0</td><td>5.5</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>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5104</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.736	1.296	3.0	4.9	O K	30 min Summer	14.112	1.672	3.0	5.8	O K	60 min Summer	14.273	1.833	3.0	6.2	O K	120 min Summer	14.084	1.644	3.0	5.7	O K	180 min Summer	13.789	1.349	3.0	5.0	O K	240 min Summer	13.541	1.101	3.0	4.4	O K	360 min Summer	13.361	0.921	2.5	3.7	O K	480 min Summer	13.236	0.796	2.1	3.2	O K	600 min Summer	13.144	0.704	1.9	2.8	O K	720 min Summer	13.073	0.633	1.7	2.5	O K	960 min Summer	12.969	0.529	1.4	2.1	O K	1440 min Summer	12.845	0.405	1.1	1.6	O K	2160 min Summer	12.744	0.304	0.8	1.2	O K	2880 min Summer	12.686	0.246	0.7	1.0	O K	4320 min Summer	12.621	0.181	0.5	0.7	O K	5760 min Summer	12.584	0.144	0.4	0.6	O K	7200 min Summer	12.561	0.121	0.3	0.5	O K	8640 min Summer	12.545	0.105	0.3	0.4	O K	10080 min Summer	12.533	0.093	0.3	0.4	O K	15 min Winter	13.986	1.546	3.0	5.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	76	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	136	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4384	10080 min Summer	1.019	0.0	5104	15 min Winter	116.400	0.0	18
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2880 min Summer	12.686	0.246	0.7	1.0	O K																																																																																																																																																																																																																			
4320 min Summer	12.621	0.181	0.5	0.7	O K																																																																																																																																																																																																																			
5760 min Summer	12.584	0.144	0.4	0.6	O K																																																																																																																																																																																																																			
7200 min Summer	12.561	0.121	0.3	0.5	O K																																																																																																																																																																																																																			
8640 min Summer	12.545	0.105	0.3	0.4	O K																																																																																																																																																																																																																			
10080 min Summer	12.533	0.093	0.3	0.4	O K																																																																																																																																																																																																																			
15 min Winter	13.986	1.546	3.0	5.5	O K																																																																																																																																																																																																																			
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																					
15 min Summer	116.400	0.0	17																																																																																																																																																																																																																					
30 min Summer	78.248	0.0	27																																																																																																																																																																																																																					
60 min Summer	50.211	0.0	44																																																																																																																																																																																																																					
120 min Summer	31.113	0.0	76																																																																																																																																																																																																																					
180 min Summer	23.167	0.0	108																																																																																																																																																																																																																					
240 min Summer	18.658	0.0	136																																																																																																																																																																																																																					
360 min Summer	13.718	0.0	198																																																																																																																																																																																																																					
480 min Summer	11.023	0.0	258																																																																																																																																																																																																																					
600 min Summer	9.295	0.0	320																																																																																																																																																																																																																					
720 min Summer	8.082	0.0	380																																																																																																																																																																																																																					
960 min Summer	6.475	0.0	500																																																																																																																																																																																																																					
1440 min Summer	4.729	0.0	740																																																																																																																																																																																																																					
2160 min Summer	3.446	0.0	1104																																																																																																																																																																																																																					
2880 min Summer	2.750	0.0	1468																																																																																																																																																																																																																					
4320 min Summer	1.997	0.0	2200																																																																																																																																																																																																																					
5760 min Summer	1.589	0.0	2936																																																																																																																																																																																																																					
7200 min Summer	1.330	0.0	3664																																																																																																																																																																																																																					
8640 min Summer	1.151	0.0	4384																																																																																																																																																																																																																					
10080 min Summer	1.019	0.0	5104																																																																																																																																																																																																																					
15 min Winter	116.400	0.0	18																																																																																																																																																																																																																					
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.423	1.983	3.0	6.6	O K
60 min Winter	14.661	2.221	3.0	6.9	Flood Risk
120 min Winter	14.137	1.697	3.0	5.9	O K
180 min Winter	13.676	1.236	3.0	4.7	O K
240 min Winter	13.452	1.012	2.7	4.0	O K
360 min Winter	13.243	0.803	2.2	3.2	O K
480 min Winter	13.110	0.670	1.8	2.7	O K
600 min Winter	13.017	0.577	1.6	2.3	O K
720 min Winter	12.948	0.508	1.4	2.0	O K
960 min Winter	12.854	0.414	1.1	1.6	O K
1440 min Winter	12.746	0.306	0.8	1.2	O K
2160 min Winter	12.665	0.225	0.6	0.9	O K
2880 min Winter	12.620	0.180	0.5	0.7	O K
4320 min Winter	12.571	0.131	0.4	0.5	O K
5760 min Winter	12.544	0.104	0.3	0.4	O K
7200 min Winter	12.527	0.087	0.2	0.3	O K
8640 min Winter	12.516	0.076	0.2	0.3	O K
10080 min Winter	12.507	0.067	0.2	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	204		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2920		
7200 min Winter	1.330	0.0	3624		
8640 min Winter	1.151	0.0	4296		
10080 min Winter	1.019	0.0	5128		
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Date April 2015 File HWSA24.srcx	Designed by SRD Checked by											
XP Solutions Source Control 2015.1												
<u>Model Details</u> Storage is Online Cover Level (m) 14.890 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 2.000</td> </tr> <tr> <td>Invert Level (m) 12.440</td> <td>Cap Infiltration Depth (m) 1.100</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 2.000	Invert Level (m) 12.440	Cap Infiltration Depth (m) 1.100
Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80											
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5											
Safety Factor 2.0	Number Required 1											
Porosity 0.30	Cap Volume Depth (m) 2.000											
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XP Solutions		Source Control 2015.1																																																																																																																																																																																																																					
<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 17 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>13.900</td><td>1.482</td><td>2.3</td><td>3.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.285</td><td>1.867</td><td>2.3</td><td>3.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.376</td><td>1.958</td><td>2.3</td><td>3.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.054</td><td>1.636</td><td>2.3</td><td>3.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>13.682</td><td>1.264</td><td>2.3</td><td>2.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>13.491</td><td>1.073</td><td>2.2</td><td>2.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>13.297</td><td>0.879</td><td>1.8</td><td>2.0</td><td>O K</td></tr><tr><td>480 min Summer</td><td>13.168</td><td>0.750</td><td>1.5</td><td>1.7</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.075</td><td>0.657</td><td>1.3</td><td>1.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.005</td><td>0.587</td><td>1.2</td><td>1.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>12.904</td><td>0.486</td><td>1.0</td><td>1.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>12.786</td><td>0.368</td><td>0.7</td><td>0.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>12.692</td><td>0.274</td><td>0.6</td><td>0.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>12.638</td><td>0.220</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>12.579</td><td>0.161</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>12.546</td><td>0.128</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>12.525</td><td>0.107</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>12.511</td><td>0.093</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>12.500</td><td>0.082</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.178</td><td>1.760</td><td>2.3</td><td>3.4</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>26</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>196</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>256</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>316</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>376</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>738</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4360</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5096</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	13.900	1.482	2.3	3.0	O K	30 min Summer	14.285	1.867	2.3	3.6	O K	60 min Summer	14.376	1.958	2.3	3.7	O K	120 min Summer	14.054	1.636	2.3	3.3	O K	180 min Summer	13.682	1.264	2.3	2.7	O K	240 min Summer	13.491	1.073	2.2	2.4	O K	360 min Summer	13.297	0.879	1.8	2.0	O K	480 min Summer	13.168	0.750	1.5	1.7	O K	600 min Summer	13.075	0.657	1.3	1.5	O K	720 min Summer	13.005	0.587	1.2	1.3	O K	960 min Summer	12.904	0.486	1.0	1.1	O K	1440 min Summer	12.786	0.368	0.7	0.8	O K	2160 min Summer	12.692	0.274	0.6	0.6	O K	2880 min Summer	12.638	0.220	0.4	0.5	O K	4320 min Summer	12.579	0.161	0.3	0.4	O K	5760 min Summer	12.546	0.128	0.3	0.3	O K	7200 min Summer	12.525	0.107	0.2	0.2	O K	8640 min Summer	12.511	0.093	0.2	0.2	O K	10080 min Summer	12.500	0.082	0.2	0.2	O K	15 min Winter	14.178	1.760	2.3	3.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	26	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	74	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	196	480 min Summer	11.023	0.0	256	600 min Summer	9.295	0.0	316	720 min Summer	8.082	0.0	376	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	738	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2200	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3672	8640 min Summer	1.151	0.0	4360	10080 min Summer	1.019	0.0	5096	15 min Winter	116.400	0.0	17
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.673	2.255	2.3	4.1	Flood Risk
60 min Winter	14.673	2.255	2.3	4.1	Flood Risk
120 min Winter	14.004	1.586	2.3	3.2	O K
180 min Winter	13.533	1.115	2.3	2.5	O K
240 min Winter	13.370	0.952	1.9	2.1	O K
360 min Winter	13.158	0.740	1.5	1.7	O K
480 min Winter	13.029	0.611	1.2	1.4	O K
600 min Winter	12.941	0.523	1.1	1.2	O K
720 min Winter	12.877	0.459	0.9	1.0	O K
960 min Winter	12.789	0.371	0.8	0.8	O K
1440 min Winter	12.692	0.274	0.6	0.6	O K
2160 min Winter	12.618	0.200	0.4	0.4	O K
2880 min Winter	12.578	0.160	0.3	0.4	O K
4320 min Winter	12.534	0.116	0.2	0.3	O K
5760 min Winter	12.511	0.093	0.2	0.2	O K
7200 min Winter	12.496	0.078	0.2	0.2	O K
8640 min Winter	12.485	0.067	0.1	0.1	O K
10080 min Winter	12.478	0.060	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	28		
60 min Winter	50.211	0.0	46		
120 min Winter	31.113	0.0	78		
180 min Winter	23.167	0.0	108		
240 min Winter	18.658	0.0	138		
360 min Winter	13.718	0.0	200		
480 min Winter	11.023	0.0	260		
600 min Winter	9.295	0.0	320		
720 min Winter	8.082	0.0	380		
960 min Winter	6.475	0.0	500		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1468		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2888		
7200 min Winter	1.330	0.0	3640		
8640 min Winter	1.151	0.0	4368		
10080 min Winter	1.019	0.0	5008		
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XP Solutions Source Control 2015.1		

Model Details

Storage is Online Cover Level (m) 14.918

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.35
Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5
Safety Factor 2.0	Number Required 1
Porosity 0.30	Cap Volume Depth (m) 2.050
Invert Level (m) 12.418	Cap Infiltration Depth (m) 1.150

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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+30%)</u> Half Drain Time : 13 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>14.052</td><td>1.002</td><td>1.7</td><td>1.7</td><td>○ K</td></tr><tr><td>30 min Summer</td><td>14.298</td><td>1.248</td><td>1.7</td><td>2.0</td><td>○ K</td></tr><tr><td>60 min Summer</td><td>14.319</td><td>1.269</td><td>1.7</td><td>2.0</td><td>○ K</td></tr><tr><td>120 min Summer</td><td>14.051</td><td>1.001</td><td>1.7</td><td>1.7</td><td>○ K</td></tr><tr><td>180 min Summer</td><td>13.898</td><td>0.848</td><td>1.5</td><td>1.5</td><td>○ K</td></tr><tr><td>240 min Summer</td><td>13.798</td><td>0.748</td><td>1.3</td><td>1.3</td><td>○ K</td></tr><tr><td>360 min Summer</td><td>13.658</td><td>0.608</td><td>1.1</td><td>1.1</td><td>○ K</td></tr><tr><td>480 min Summer</td><td>13.567</td><td>0.517</td><td>0.9</td><td>0.9</td><td>○ K</td></tr><tr><td>600 min Summer</td><td>13.501</td><td>0.451</td><td>0.8</td><td>0.8</td><td>○ K</td></tr><tr><td>720 min Summer</td><td>13.452</td><td>0.402</td><td>0.7</td><td>0.7</td><td>○ K</td></tr><tr><td>960 min Summer</td><td>13.382</td><td>0.332</td><td>0.6</td><td>0.6</td><td>○ K</td></tr><tr><td>1440 min Summer</td><td>13.300</td><td>0.250</td><td>0.5</td><td>0.4</td><td>○ K</td></tr><tr><td>2160 min Summer</td><td>13.235</td><td>0.185</td><td>0.3</td><td>0.3</td><td>○ K</td></tr><tr><td>2880 min Summer</td><td>13.199</td><td>0.149</td><td>0.3</td><td>0.3</td><td>○ K</td></tr><tr><td>4320 min Summer</td><td>13.159</td><td>0.109</td><td>0.2</td><td>0.2</td><td>○ K</td></tr><tr><td>5760 min Summer</td><td>13.137</td><td>0.087</td><td>0.2</td><td>0.2</td><td>○ K</td></tr><tr><td>7200 min Summer</td><td>13.123</td><td>0.073</td><td>0.1</td><td>0.1</td><td>○ K</td></tr><tr><td>8640 min Summer</td><td>13.113</td><td>0.063</td><td>0.1</td><td>0.1</td><td>○ K</td></tr><tr><td>10080 min Summer</td><td>13.106</td><td>0.056</td><td>0.1</td><td>0.1</td><td>○ K</td></tr><tr><td>15 min Winter</td><td>14.249</td><td>1.199</td><td>1.7</td><td>2.0</td><td>○ K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>16</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>25</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>72</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>134</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>194</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>254</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>314</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>374</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>496</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>736</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2184</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3624</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4368</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5008</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>17</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.052	1.002	1.7	1.7	○ K	30 min Summer	14.298	1.248	1.7	2.0	○ K	60 min Summer	14.319	1.269	1.7	2.0	○ K	120 min Summer	14.051	1.001	1.7	1.7	○ K	180 min Summer	13.898	0.848	1.5	1.5	○ K	240 min Summer	13.798	0.748	1.3	1.3	○ K	360 min Summer	13.658	0.608	1.1	1.1	○ K	480 min Summer	13.567	0.517	0.9	0.9	○ K	600 min Summer	13.501	0.451	0.8	0.8	○ K	720 min Summer	13.452	0.402	0.7	0.7	○ K	960 min Summer	13.382	0.332	0.6	0.6	○ K	1440 min Summer	13.300	0.250	0.5	0.4	○ K	2160 min Summer	13.235	0.185	0.3	0.3	○ K	2880 min Summer	13.199	0.149	0.3	0.3	○ K	4320 min Summer	13.159	0.109	0.2	0.2	○ K	5760 min Summer	13.137	0.087	0.2	0.2	○ K	7200 min Summer	13.123	0.073	0.1	0.1	○ K	8640 min Summer	13.113	0.063	0.1	0.1	○ K	10080 min Summer	13.106	0.056	0.1	0.1	○ K	15 min Winter	14.249	1.199	1.7	2.0	○ K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	16	30 min Summer	78.248	0.0	25	60 min Summer	50.211	0.0	42	120 min Summer	31.113	0.0	72	180 min Summer	23.167	0.0	104	240 min Summer	18.658	0.0	134	360 min Summer	13.718	0.0	194	480 min Summer	11.023	0.0	254	600 min Summer	9.295	0.0	314	720 min Summer	8.082	0.0	374	960 min Summer	6.475	0.0	496	1440 min Summer	4.729	0.0	736	2160 min Summer	3.446	0.0	1100	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2184	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3624	8640 min Summer	1.151	0.0	4368	10080 min Summer	1.019	0.0	5008	15 min Winter	116.400	0.0	17
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
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XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.505	1.455	1.7	2.2	O K
60 min Winter	14.431	1.381	1.7	2.2	O K
120 min Winter	13.986	0.936	1.7	1.7	O K
180 min Winter	13.822	0.772	1.4	1.4	O K
240 min Winter	13.704	0.654	1.2	1.2	O K
360 min Winter	13.556	0.506	0.9	0.9	O K
480 min Winter	13.466	0.416	0.7	0.7	O K
600 min Winter	13.405	0.355	0.6	0.6	O K
720 min Winter	13.361	0.311	0.6	0.5	O K
960 min Winter	13.301	0.251	0.5	0.4	O K
1440 min Winter	13.235	0.185	0.3	0.3	O K
2160 min Winter	13.185	0.135	0.2	0.2	O K
2880 min Winter	13.158	0.108	0.2	0.2	O K
4320 min Winter	13.129	0.079	0.1	0.1	O K
5760 min Winter	13.113	0.063	0.1	0.1	O K
7200 min Winter	13.103	0.053	0.1	0.1	O K
8640 min Winter	13.095	0.045	0.1	0.1	O K
10080 min Winter	13.090	0.040	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	27		
60 min Winter	50.211	0.0	44		
120 min Winter	31.113	0.0	74		
180 min Winter	23.167	0.0	106		
240 min Winter	18.658	0.0	136		
360 min Winter	13.718	0.0	198		
480 min Winter	11.023	0.0	258		
600 min Winter	9.295	0.0	318		
720 min Winter	8.082	0.0	378		
960 min Winter	6.475	0.0	498		
1440 min Winter	4.729	0.0	738		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1464		
4320 min Winter	1.997	0.0	2196		
5760 min Winter	1.589	0.0	2888		
7200 min Winter	1.330	0.0	3664		
8640 min Winter	1.151	0.0	4400		
10080 min Winter	1.019	0.0	5040		
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Date April 2015 File HWSA26.srcx	Designed by SRD Checked by																					
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<u>Model Details</u> Storage is Online Cover Level (m) 15.350 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.20</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.80000</td> <td>Pit Multiplier</td> <td>1.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.850</td> </tr> <tr> <td>Invert Level (m)</td> <td>13.050</td> <td>Cap Infiltration Depth (m)</td> <td>0.950</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.20	Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	1.850	Invert Level (m)	13.050	Cap Infiltration Depth (m)	0.950
Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.20																			
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Safety Factor	2.0	Number Required	1																			
Porosity	0.30	Cap Volume Depth (m)	1.850																			
Invert Level (m)	13.050	Cap Infiltration Depth (m)	0.950																			
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Summer</td><td>13.775</td><td>0.743</td><td>2.0</td><td>2.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.689</td><td>0.657</td><td>1.8</td><td>2.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.622</td><td>0.590</td><td>1.6</td><td>2.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.526</td><td>0.494</td><td>1.3</td><td>2.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.410</td><td>0.378</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.316</td><td>0.284</td><td>0.8</td><td>1.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.262</td><td>0.230</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>13.200</td><td>0.168</td><td>0.5</td><td>0.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>13.166</td><td>0.134</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>13.145</td><td>0.113</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>13.130</td><td>0.098</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>13.118</td><td>0.086</td><td>0.2</td><td>0.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.497</td><td>1.465</td><td>2.7</td><td>5.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.261	1.229	2.7	4.6	O K	30 min Summer	14.619	1.587	2.7	5.5	O K	60 min Summer	14.773	1.741	2.7	5.9	O K	120 min Summer	14.601	1.569	2.7	5.4	O K	180 min Summer	14.324	1.292	2.7	4.7	O K	240 min Summer	14.082	1.050	2.7	4.1	O K	360 min Summer	13.891	0.859	2.3	3.4	O K	480 min Summer	13.775	0.743	2.0	2.9	O K	600 min Summer	13.689	0.657	1.8	2.6	O K	720 min Summer	13.622	0.590	1.6	2.3	O K	960 min Summer	13.526	0.494	1.3	2.0	O K	1440 min Summer	13.410	0.378	1.0	1.5	O K	2160 min Summer	13.316	0.284	0.8	1.1	O K	2880 min Summer	13.262	0.230	0.6	0.9	O K	4320 min Summer	13.200	0.168	0.5	0.7	O K	5760 min Summer	13.166	0.134	0.4	0.5	O K	7200 min Summer	13.145	0.113	0.3	0.4	O K	8640 min Summer	13.130	0.098	0.3	0.4	O K	10080 min Summer	13.118	0.086	0.2	0.3	O K	15 min Winter	14.497	1.465	2.7	5.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3664	8640 min Summer	1.151	0.0	4400	10080 min Summer	1.019	0.0	5136	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA27.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	14.914	1.882	2.7	6.2	O K
60 min Winter	15.156	2.124	2.7	6.5	Flood Risk
120 min Winter	14.663	1.631	2.7	5.6	O K
180 min Winter	14.223	1.191	2.7	4.5	O K
240 min Winter	13.976	0.944	2.5	3.7	O K
360 min Winter	13.782	0.750	2.0	3.0	O K
480 min Winter	13.657	0.625	1.7	2.5	O K
600 min Winter	13.570	0.538	1.5	2.1	O K
720 min Winter	13.506	0.474	1.3	1.9	O K
960 min Winter	13.418	0.386	1.0	1.5	O K
1440 min Winter	13.318	0.286	0.8	1.1	O K
2160 min Winter	13.242	0.210	0.6	0.8	O K
2880 min Winter	13.200	0.168	0.5	0.7	O K
4320 min Winter	13.154	0.122	0.3	0.5	O K
5760 min Winter	13.129	0.097	0.3	0.4	O K
7200 min Winter	13.114	0.082	0.2	0.3	O K
8640 min Winter	13.103	0.071	0.2	0.3	O K
10080 min Winter	13.095	0.063	0.2	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	112		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	204		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	742		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2204		
5760 min Winter	1.589	0.0	2880		
7200 min Winter	1.330	0.0	3648		
8640 min Winter	1.151	0.0	4312		
10080 min Winter	1.019	0.0	5080		
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<u>Model Details</u> Storage is Online Cover Level (m) 15.382 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Infiltration Coefficient Base (m/hr) 0.00000</td> <td style="width: 50%;">Ring Diameter (m) 1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr) 1.80000</td> <td>Pit Multiplier 1.5</td> </tr> <tr> <td>Safety Factor 2.0</td> <td>Number Required 1</td> </tr> <tr> <td>Porosity 0.30</td> <td>Cap Volume Depth (m) 1.900</td> </tr> <tr> <td>Invert Level (m) 13.032</td> <td>Cap Infiltration Depth (m) 1.000</td> </tr> </table>			Infiltration Coefficient Base (m/hr) 0.00000	Ring Diameter (m) 1.80	Infiltration Coefficient Side (m/hr) 1.80000	Pit Multiplier 1.5	Safety Factor 2.0	Number Required 1	Porosity 0.30	Cap Volume Depth (m) 1.900	Invert Level (m) 13.032	Cap Infiltration Depth (m) 1.000
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Summer</td><td>14.006</td><td>0.716</td><td>1.9</td><td>2.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>13.924</td><td>0.634</td><td>1.7</td><td>2.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>13.859</td><td>0.569</td><td>1.5</td><td>2.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>13.766</td><td>0.476</td><td>1.3</td><td>1.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>13.654</td><td>0.364</td><td>1.0</td><td>1.4</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>13.564</td><td>0.274</td><td>0.7</td><td>1.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.511</td><td>0.221</td><td>0.6</td><td>0.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>13.452</td><td>0.162</td><td>0.4</td><td>0.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>13.420</td><td>0.130</td><td>0.4</td><td>0.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>13.399</td><td>0.109</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>13.384</td><td>0.094</td><td>0.3</td><td>0.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>13.373</td><td>0.083</td><td>0.2</td><td>0.3</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.716</td><td>1.426</td><td>2.6</td><td>5.0</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>116.400</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>78.248</td><td>0.0</td><td>27</td></tr><tr><td>60 min Summer</td><td>50.211</td><td>0.0</td><td>44</td></tr><tr><td>120 min Summer</td><td>31.113</td><td>0.0</td><td>78</td></tr><tr><td>180 min Summer</td><td>23.167</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.658</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.718</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>11.023</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.295</td><td>0.0</td><td>320</td></tr><tr><td>720 min Summer</td><td>8.082</td><td>0.0</td><td>380</td></tr><tr><td>960 min Summer</td><td>6.475</td><td>0.0</td><td>500</td></tr><tr><td>1440 min Summer</td><td>4.729</td><td>0.0</td><td>740</td></tr><tr><td>2160 min Summer</td><td>3.446</td><td>0.0</td><td>1104</td></tr><tr><td>2880 min Summer</td><td>2.750</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.997</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.589</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.330</td><td>0.0</td><td>3648</td></tr><tr><td>8640 min Summer</td><td>1.151</td><td>0.0</td><td>4384</td></tr><tr><td>10080 min Summer</td><td>1.019</td><td>0.0</td><td>5056</td></tr><tr><td>15 min Winter</td><td>116.400</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.486	1.196	2.6	4.4	O K	30 min Summer	14.835	1.545	2.6	5.3	O K	60 min Summer	14.985	1.695	2.6	5.7	O K	120 min Summer	14.824	1.534	2.6	5.3	O K	180 min Summer	14.555	1.265	2.6	4.6	O K	240 min Summer	14.317	1.027	2.6	4.0	O K	360 min Summer	14.118	0.828	2.2	3.3	O K	480 min Summer	14.006	0.716	1.9	2.8	O K	600 min Summer	13.924	0.634	1.7	2.5	O K	720 min Summer	13.859	0.569	1.5	2.3	O K	960 min Summer	13.766	0.476	1.3	1.9	O K	1440 min Summer	13.654	0.364	1.0	1.4	O K	2160 min Summer	13.564	0.274	0.7	1.1	O K	2880 min Summer	13.511	0.221	0.6	0.9	O K	4320 min Summer	13.452	0.162	0.4	0.6	O K	5760 min Summer	13.420	0.130	0.4	0.5	O K	7200 min Summer	13.399	0.109	0.3	0.4	O K	8640 min Summer	13.384	0.094	0.3	0.4	O K	10080 min Summer	13.373	0.083	0.2	0.3	O K	15 min Winter	14.716	1.426	2.6	5.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	116.400	0.0	17	30 min Summer	78.248	0.0	27	60 min Summer	50.211	0.0	44	120 min Summer	31.113	0.0	78	180 min Summer	23.167	0.0	108	240 min Summer	18.658	0.0	138	360 min Summer	13.718	0.0	198	480 min Summer	11.023	0.0	258	600 min Summer	9.295	0.0	320	720 min Summer	8.082	0.0	380	960 min Summer	6.475	0.0	500	1440 min Summer	4.729	0.0	740	2160 min Summer	3.446	0.0	1104	2880 min Summer	2.750	0.0	1468	4320 min Summer	1.997	0.0	2204	5760 min Summer	1.589	0.0	2936	7200 min Summer	1.330	0.0	3648	8640 min Summer	1.151	0.0	4384	10080 min Summer	1.019	0.0	5056	15 min Winter	116.400	0.0	18
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11 Tungsten Building George Street Fishersgate BN41 1RA		Swanbourne Park Angmering 22067			
Date April 2015 File HWSA28.srcx		Designed by SRD Checked by			
XP Solutions		Source Control 2015.1			
<u>Summary of Results for 100 year Return Period (+30%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	15.122	1.832	2.6	6.0	O K
60 min Winter	15.367	2.077	2.6	6.3	Flood Risk
120 min Winter	14.888	1.598	2.6	5.4	O K
180 min Winter	14.461	1.171	2.6	4.3	O K
240 min Winter	14.201	0.911	2.5	3.6	O K
360 min Winter	14.013	0.723	2.0	2.9	O K
480 min Winter	13.893	0.603	1.6	2.4	O K
600 min Winter	13.809	0.519	1.4	2.1	O K
720 min Winter	13.748	0.458	1.2	1.8	O K
960 min Winter	13.662	0.372	1.0	1.5	O K
1440 min Winter	13.565	0.275	0.7	1.1	O K
2160 min Winter	13.492	0.202	0.5	0.8	O K
2880 min Winter	13.452	0.162	0.4	0.6	O K
4320 min Winter	13.408	0.118	0.3	0.5	O K
5760 min Winter	13.384	0.094	0.3	0.4	O K
7200 min Winter	13.369	0.079	0.2	0.3	O K
8640 min Winter	13.358	0.068	0.2	0.3	O K
10080 min Winter	13.350	0.060	0.2	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.248	0.0	29		
60 min Winter	50.211	0.0	48		
120 min Winter	31.113	0.0	82		
180 min Winter	23.167	0.0	114		
240 min Winter	18.658	0.0	142		
360 min Winter	13.718	0.0	204		
480 min Winter	11.023	0.0	264		
600 min Winter	9.295	0.0	324		
720 min Winter	8.082	0.0	384		
960 min Winter	6.475	0.0	504		
1440 min Winter	4.729	0.0	748		
2160 min Winter	3.446	0.0	1104		
2880 min Winter	2.750	0.0	1472		
4320 min Winter	1.997	0.0	2200		
5760 min Winter	1.589	0.0	2936		
7200 min Winter	1.330	0.0	3600		
8640 min Winter	1.151	0.0	4336		
10080 min Winter	1.019	0.0	5040		
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<u>Model Details</u> Storage is Online Cover Level (m) 15.590 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.80000</td> <td>Pit Multiplier</td> <td>1.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.850</td> </tr> <tr> <td>Invert Level (m)</td> <td>13.290</td> <td>Cap Infiltration Depth (m)</td> <td>0.950</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.80	Infiltration Coefficient Side (m/hr)	1.80000	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	1.850	Invert Level (m)	13.290	Cap Infiltration Depth (m)	0.950
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