

Paul Basham Associates				Page 1	
Lancaster Court 8 Barnes Wallis Road Fareham PO15 5TU		NORTH CRATE SA INFILTRATION			
Date 14.03.19 File CRATE SOAKWAY. 1IN100 P...		Designed by JB Checked by AS			
XP Solutions		Source Control 2014.1			
<p>Summary of Results for 100 year Return Period (+30%)</p> <p>Half Drain Time exceeds 7 days.</p> <p>Outflow is too low. Design is unsatisfactory.</p>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-3.229	0.271	0.1	57.9	O K
30 min Summer	-3.136	0.364	0.1	77.8	O K
60 min Summer	-3.033	0.467	0.1	99.8	O K
120 min Summer	-2.922	0.578	0.1	123.5	O K
180 min Summer	-2.855	0.645	0.1	137.8	O K
240 min Summer	-2.809	0.691	0.1	147.8	O K
360 min Summer	-2.740	0.760	0.1	162.6	O K
480 min Summer	-2.687	0.813	0.1	173.8	O K
600 min Summer	-2.645	0.855	0.1	182.7	O K
720 min Summer	-2.610	0.890	0.1	190.2	O K
960 min Summer	-2.553	0.947	0.1	202.4	O K
1440 min Summer	-2.471	1.029	0.1	219.9	O K
2160 min Summer	-2.388	1.112	0.1	237.6	O K
2880 min Summer	-2.330	1.170	0.1	250.1	O K
4320 min Summer	-2.252	1.248	0.1	266.7	O K
5760 min Summer	-2.203	1.297	0.1	277.3	O K
7200 min Summer	-2.169	1.331	0.1	284.5	O K
8640 min Summer	-2.144	1.356	0.1	289.9	O K
10080 min Summer	-2.126	1.374	0.1	293.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	115.731	0.0	19		
30 min Summer	77.804	0.0	34		
60 min Summer	49.937	0.0	64		
120 min Summer	30.956	0.0	124		
180 min Summer	23.058	0.0	184		
240 min Summer	18.577	0.0	244		
360 min Summer	13.656	0.0	364		
480 min Summer	10.974	0.0	484		
600 min Summer	9.254	0.0	604		
720 min Summer	8.046	0.0	724		
960 min Summer	6.447	0.0	964		
1440 min Summer	4.709	0.0	1444		
2160 min Summer	3.432	0.0	2164		
2880 min Summer	2.739	0.0	2884		
4320 min Summer	1.989	0.0	4324		
5760 min Summer	1.583	0.0	5768		
7200 min Summer	1.325	0.0	7208		
8640 min Summer	1.147	0.0	8648		
10080 min Summer	1.015	0.0	10080		
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Lancaster Court 8 Barnes Wallis Road Fareham PO15 5TU		NORTH CRATE SA INFILTRATION			
Date 14.03.19 File CRATE SOAKWAY. 1IN100 P...		Designed by JB Checked by AS			
XP Solutions		Source Control 2014.1			
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
15 min Winter	-3.197	0.303	0.1	64.8	O K
30 min Winter	-3.092	0.408	0.1	87.1	O K
60 min Winter	-2.977	0.523	0.1	111.8	O K
120 min Winter	-2.853	0.647	0.1	138.4	O K
180 min Winter	-2.778	0.722	0.1	154.4	O K
240 min Winter	-2.725	0.775	0.1	165.6	O K
360 min Winter	-2.647	0.853	0.1	182.2	O K
480 min Winter	-2.589	0.911	0.1	194.8	O K
600 min Winter	-2.541	0.959	0.1	204.9	O K
720 min Winter	-2.502	0.998	0.1	213.4	O K
960 min Winter	-2.437	1.063	0.1	227.1	O K
1440 min Winter	-2.344	1.156	0.1	247.0	O K
2160 min Winter	-2.250	1.250	0.1	267.3	O K
2880 min Winter	-2.183	1.317	0.1	281.6	O K
4320 min Winter	-2.092	1.408	0.1	301.0	O K
5760 min Winter	-2.032	1.468	0.1	313.7	O K
7200 min Winter	-1.991	1.509	0.1	322.6	O K
8640 min Winter	-1.959	1.541	0.1	329.4	O K
10080 min Winter	-1.935	1.565	0.1	334.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Winter	115.731	0.0	19		
30 min Winter	77.804	0.0	34		
60 min Winter	49.937	0.0	64		
120 min Winter	30.956	0.0	124		
180 min Winter	23.058	0.0	184		
240 min Winter	18.577	0.0	244		
360 min Winter	13.656	0.0	362		
480 min Winter	10.974	0.0	482		
600 min Winter	9.254	0.0	602		
720 min Winter	8.046	0.0	722		
960 min Winter	6.447	0.0	962		
1440 min Winter	4.709	0.0	1440		
2160 min Winter	3.432	0.0	2144		
2880 min Winter	2.739	0.0	2856		
4320 min Winter	1.989	0.0	4280		
5760 min Winter	1.583	0.0	5704		
7200 min Winter	1.325	0.0	7128		
8640 min Winter	1.147	0.0	8480		
10080 min Winter	1.015	0.0	9888		
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Date 14.03.19	Designed by JB	
File CRATE SOAKWAY. 1IN100 P...	Checked by AS	
XP Solutions		Source Control 2014.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.267

Time (mins)	Area
From:	To: (ha)
0	4 0.267

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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00220</td> <td>Trench Width (m)</td> <td>10.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.00220</td> <td>Trench Length (m)</td> <td>22.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.95</td> <td>Cap Volume Depth (m)</td> <td>3.200</td> </tr> <tr> <td>Invert Level (m)</td> <td>-3.500</td> <td>Cap Infiltration Depth (m)</td> <td>3.200</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00220	Trench Width (m)	10.0	Infiltration Coefficient Side (m/hr)	0.00220	Trench Length (m)	22.5	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.95	Cap Volume Depth (m)	3.200	Invert Level (m)	-3.500	Cap Infiltration Depth (m)	3.200
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<p>Summary of Results for 100 year Return Period (+30%)</p> <p>Half Drain Time : 14 minutes.</p> <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>-2.072</td><td>1.528</td><td>8.8</td><td>10.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>-1.812</td><td>1.788</td><td>9.4</td><td>12.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>-1.909</td><td>1.691</td><td>9.4</td><td>11.9</td><td>O K</td></tr><tr><td>120 min Summer</td><td>-2.142</td><td>1.458</td><td>8.5</td><td>10.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>-2.372</td><td>1.228</td><td>7.7</td><td>8.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>-2.568</td><td>1.032</td><td>7.0</td><td>7.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>-2.864</td><td>0.736</td><td>5.9</td><td>5.2</td><td>O K</td></tr><tr><td>480 min Summer</td><td>-3.070</td><td>0.530</td><td>5.2</td><td>3.7</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-3.222</td><td>0.378</td><td>4.6</td><td>2.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-3.337</td><td>0.263</td><td>4.2</td><td>1.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-3.491</td><td>0.109</td><td>3.7</td><td>0.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-3.558</td><td>0.042</td><td>2.9</td><td>0.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-3.570</td><td>0.030</td><td>2.1</td><td>0.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-3.576</td><td>0.024</td><td>1.7</td><td>0.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-3.582</td><td>0.018</td><td>1.2</td><td>0.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-3.586</td><td>0.014</td><td>1.0</td><td>0.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-3.588</td><td>0.012</td><td>0.8</td><td>0.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-3.590</td><td>0.010</td><td>0.7</td><td>0.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-3.591</td><td>0.009</td><td>0.6</td><td>0.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-1.576</td><td>2.024</td><td>9.4</td><td>12.3</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>115.731</td><td>0.0</td><td>14</td></tr><tr><td>30 min Summer</td><td>77.804</td><td>0.0</td><td>23</td></tr><tr><td>60 min Summer</td><td>49.937</td><td>0.0</td><td>40</td></tr><tr><td>120 min Summer</td><td>30.956</td><td>0.0</td><td>72</td></tr><tr><td>180 min Summer</td><td>23.058</td><td>0.0</td><td>104</td></tr><tr><td>240 min Summer</td><td>18.577</td><td>0.0</td><td>136</td></tr><tr><td>360 min Summer</td><td>13.656</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>10.974</td><td>0.0</td><td>258</td></tr><tr><td>600 min Summer</td><td>9.254</td><td>0.0</td><td>318</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>376</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>492</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>730</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1068</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1420</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2200</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3616</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4376</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.0</td><td>15</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	-2.072	1.528	8.8	10.8	O K	30 min Summer	-1.812	1.788	9.4	12.1	O K	60 min Summer	-1.909	1.691	9.4	11.9	O K	120 min Summer	-2.142	1.458	8.5	10.3	O K	180 min Summer	-2.372	1.228	7.7	8.7	O K	240 min Summer	-2.568	1.032	7.0	7.3	O K	360 min Summer	-2.864	0.736	5.9	5.2	O K	480 min Summer	-3.070	0.530	5.2	3.7	O K	600 min Summer	-3.222	0.378	4.6	2.7	O K	720 min Summer	-3.337	0.263	4.2	1.9	O K	960 min Summer	-3.491	0.109	3.7	0.8	O K	1440 min Summer	-3.558	0.042	2.9	0.3	O K	2160 min Summer	-3.570	0.030	2.1	0.2	O K	2880 min Summer	-3.576	0.024	1.7	0.2	O K	4320 min Summer	-3.582	0.018	1.2	0.1	O K	5760 min Summer	-3.586	0.014	1.0	0.1	O K	7200 min Summer	-3.588	0.012	0.8	0.1	O K	8640 min Summer	-3.590	0.010	0.7	0.1	O K	10080 min Summer	-3.591	0.009	0.6	0.1	O K	15 min Winter	-1.576	2.024	9.4	12.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	14	30 min Summer	77.804	0.0	23	60 min Summer	49.937	0.0	40	120 min Summer	30.956	0.0	72	180 min Summer	23.058	0.0	104	240 min 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30 min Winter	-0.088	3.512	9.4	13.8	O K
60 min Winter	-0.802	2.798	9.4	13.1	O K
120 min Winter	-2.137	1.463	8.6	10.3	O K
180 min Winter	-2.457	1.143	7.4	8.1	O K
240 min Winter	-2.710	0.890	6.5	6.3	O K
360 min Winter	-3.059	0.541	5.2	3.8	O K
480 min Winter	-3.285	0.315	4.4	2.2	O K
600 min Winter	-3.440	0.160	3.8	1.1	O K
720 min Winter	-3.542	0.058	3.5	0.4	O K
960 min Winter	-3.559	0.041	2.8	0.3	O K
1440 min Winter	-3.570	0.030	2.1	0.2	O K
2160 min Winter	-3.578	0.022	1.5	0.2	O K
2880 min Winter	-3.582	0.018	1.2	0.1	O K
4320 min Winter	-3.587	0.013	0.9	0.1	O K
5760 min Winter	-3.590	0.010	0.7	0.1	O K
7200 min Winter	-3.591	0.009	0.6	0.1	O K
8640 min Winter	-3.592	0.008	0.5	0.1	O K
10080 min Winter	-3.593	0.007	0.5	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	24		
60 min Winter	49.937	0.0	42		
120 min Winter	30.956	0.0	76		
180 min Winter	23.058	0.0	110		
240 min Winter	18.577	0.0	142		
360 min Winter	13.656	0.0	202		
480 min Winter	10.974	0.0	264		
600 min Winter	9.254	0.0	322		
720 min Winter	8.046	0.0	372		
960 min Winter	6.447	0.0	484		
1440 min Winter	4.709	0.0	730		
2160 min Winter	3.432	0.0	1100		
2880 min Winter	2.739	0.0	1456		
4320 min Winter	1.989	0.0	2132		
5760 min Winter	1.583	0.0	2840		
7200 min Winter	1.325	0.0	3712		
8640 min Winter	1.147	0.0	4312		
10080 min Winter	1.015	0.0	5096		
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Paul Basham Associates		Page 3																				
Lancaster Court Fareham Hampshire, PO15 5TU	RING SOAKAWAY																					
Date 09/04/2019	Designed by JB																					
File RING SOAKAWAY. 1IN100 +...	Checked by AS																					
Innovyze		Source Control 2018.1.1																				
<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Lined Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>1.81080</td> <td>Ring Diameter (m)</td> <td>2.40</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.81080</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>1.700</td> </tr> <tr> <td>Invert Level (m)</td> <td>-3.600</td> <td>Cap Infiltration Depth (m)</td> <td>1.700</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	1.81080	Ring Diameter (m)	2.40	Infiltration Coefficient Side (m/hr)	1.81080	Pit Multiplier	1.5	Safety Factor	2.0	Number Required	1	Porosity	0.30	Cap Volume Depth (m)	1.700	Invert Level (m)	-3.600	Cap Infiltration Depth (m)	1.700
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<div>Summary of Results for 100 year Return Period (+30%)</div> <div>Half Drain Time : 16 minutes.</div> <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>-0.621</td><td>0.379</td><td>3.0</td><td>4.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>-0.574</td><td>0.426</td><td>3.1</td><td>4.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>-0.580</td><td>0.420</td><td>3.1</td><td>4.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>-0.648</td><td>0.352</td><td>2.9</td><td>3.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>-0.722</td><td>0.278</td><td>2.7</td><td>3.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>-0.787</td><td>0.213</td><td>2.6</td><td>2.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>-0.880</td><td>0.120</td><td>2.4</td><td>1.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>-0.934</td><td>0.066</td><td>2.2</td><td>0.7</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-0.952</td><td>0.048</td><td>2.1</td><td>0.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-0.958</td><td>0.042</td><td>1.8</td><td>0.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-0.967</td><td>0.033</td><td>1.5</td><td>0.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-0.975</td><td>0.025</td><td>1.1</td><td>0.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-0.982</td><td>0.018</td><td>0.8</td><td>0.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-0.986</td><td>0.014</td><td>0.6</td><td>0.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-0.989</td><td>0.011</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-0.992</td><td>0.008</td><td>0.4</td><td>0.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-0.993</td><td>0.007</td><td>0.3</td><td>0.1</td><td>O K</td></tr><tr><td>8640 min 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min Summer</td><td>9.254</td><td>0.0</td><td>306</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>366</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>490</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>730</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1092</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1448</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2172</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>2912</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3544</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4248</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>5048</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.0</td><td>15</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	-0.621	0.379	3.0	4.1	O K	30 min Summer	-0.574	0.426	3.1	4.6	O K	60 min Summer	-0.580	0.420	3.1	4.5	O K	120 min Summer	-0.648	0.352	2.9	3.8	O K	180 min Summer	-0.722	0.278	2.7	3.0	O K	240 min Summer	-0.787	0.213	2.6	2.3	O K	360 min Summer	-0.880	0.120	2.4	1.3	O K	480 min Summer	-0.934	0.066	2.2	0.7	O K	600 min Summer	-0.952	0.048	2.1	0.5	O K	720 min Summer	-0.958	0.042	1.8	0.4	O K	960 min Summer	-0.967	0.033	1.5	0.4	O K	1440 min Summer	-0.975	0.025	1.1	0.3	O K	2160 min Summer	-0.982	0.018	0.8	0.2	O K	2880 min Summer	-0.986	0.014	0.6	0.2	O K	4320 min Summer	-0.989	0.011	0.5	0.1	O K	5760 min Summer	-0.992	0.008	0.4	0.1	O K	7200 min Summer	-0.993	0.007	0.3	0.1	O K	8640 min Summer	-0.994	0.006	0.3	0.1	O K	10080 min Summer	-0.994	0.006	0.3	0.1	O K	15 min Winter	-0.563	0.437	3.1	4.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	15	30 min Summer	77.804	0.0	23	60 min Summer	49.937	0.0	40	120 min Summer	30.956	0.0	74	180 min Summer	23.058	0.0	106	240 min Summer	18.577	0.0	136	360 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File PLOTS 1-3. 1IN100 PLUS ...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-0.513	0.487	3.2	5.3	O K
60 min Winter	-0.535	0.465	3.2	5.0	O K
120 min Winter	-0.649	0.351	2.9	3.8	O K
180 min Winter	-0.757	0.243	2.7	2.6	O K
240 min Winter	-0.845	0.155	2.4	1.7	O K
360 min Winter	-0.948	0.052	2.2	0.6	O K
480 min Winter	-0.959	0.041	1.8	0.4	O K
600 min Winter	-0.965	0.035	1.5	0.4	O K
720 min Winter	-0.970	0.030	1.3	0.3	O K
960 min Winter	-0.976	0.024	1.1	0.3	O K
1440 min Winter	-0.982	0.018	0.8	0.2	O K
2160 min Winter	-0.987	0.013	0.6	0.1	O K
2880 min Winter	-0.990	0.010	0.5	0.1	O K
4320 min Winter	-0.992	0.008	0.3	0.1	O K
5760 min Winter	-0.994	0.006	0.3	0.1	O K
7200 min Winter	-0.995	0.005	0.2	0.1	O K
8640 min Winter	-0.995	0.005	0.2	0.1	O K
10080 min Winter	-0.996	0.004	0.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	25		
60 min Winter	49.937	0.0	44		
120 min Winter	30.956	0.0	78		
180 min Winter	23.058	0.0	112		
240 min Winter	18.577	0.0	142		
360 min Winter	13.656	0.0	188		
480 min Winter	10.974	0.0	246		
600 min Winter	9.254	0.0	310		
720 min Winter	8.046	0.0	364		
960 min Winter	6.447	0.0	486		
1440 min Winter	4.709	0.0	734		
2160 min Winter	3.432	0.0	1080		
2880 min Winter	2.739	0.0	1468		
4320 min Winter	1.989	0.0	2132		
5760 min Winter	1.583	0.0	2880		
7200 min Winter	1.325	0.0	3464		
8640 min Winter	1.147	0.0	4264		
10080 min Winter	1.015	0.0	5104		
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Innovyze		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.028

Time (mins)	Area
From:	To: (ha)
0	4 0.028

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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.41760</td> <td>Trench Width (m)</td> <td>2.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.41760</td> <td>Trench Length (m)</td> <td>18.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.700</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.000</td> <td>Cap Infiltration Depth (m)</td> <td>0.700</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	2.0	Infiltration Coefficient Side (m/hr)	0.41760	Trench Length (m)	18.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	0.700	Invert Level (m)	-1.000	Cap Infiltration Depth (m)	0.700
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Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 02																																																																																																																																																																																																																					
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Summer</td><td>-1.189</td><td>0.311</td><td>2.3</td><td>2.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-1.273</td><td>0.227</td><td>2.1</td><td>1.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-1.337</td><td>0.163</td><td>1.9</td><td>1.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-1.423</td><td>0.077</td><td>1.7</td><td>0.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-1.459</td><td>0.041</td><td>1.4</td><td>0.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-1.470</td><td>0.030</td><td>1.0</td><td>0.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-1.476</td><td>0.024</td><td>0.8</td><td>0.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-1.482</td><td>0.018</td><td>0.6</td><td>0.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-1.486</td><td>0.014</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-1.488</td><td>0.012</td><td>0.4</td><td>0.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-1.490</td><td>0.010</td><td>0.3</td><td>0.1</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-1.491</td><td>0.009</td><td>0.3</td><td>0.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-0.692</td><td>0.808</td><td>3.4</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>115.731</td><td>0.0</td><td>15</td></tr><tr><td>30 min Summer</td><td>77.804</td><td>0.0</td><td>24</td></tr><tr><td>60 min Summer</td><td>49.937</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>30.956</td><td>0.0</td><td>76</td></tr><tr><td>180 min Summer</td><td>23.058</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.577</td><td>0.0</td><td>140</td></tr><tr><td>360 min Summer</td><td>13.656</td><td>0.0</td><td>202</td></tr><tr><td>480 min Summer</td><td>10.974</td><td>0.0</td><td>264</td></tr><tr><td>600 min Summer</td><td>9.254</td><td>0.0</td><td>324</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>382</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>494</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>720</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1088</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1440</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2132</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>2928</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3584</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4320</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>4968</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.0</td><td>16</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	-0.793	0.707	3.2	5.7	O K	30 min Summer	-0.688	0.812	3.4	6.6	O K	60 min Summer	-0.668	0.832	3.4	6.7	O K	120 min Summer	-0.745	0.755	3.3	6.1	O K	180 min Summer	-0.842	0.658	3.1	5.3	O K	240 min Summer	-0.933	0.567	2.8	4.6	O K	360 min Summer	-1.080	0.420	2.5	3.4	O K	480 min Summer	-1.189	0.311	2.3	2.5	O K	600 min Summer	-1.273	0.227	2.1	1.8	O K	720 min Summer	-1.337	0.163	1.9	1.3	O K	960 min Summer	-1.423	0.077	1.7	0.6	O K	1440 min Summer	-1.459	0.041	1.4	0.3	O K	2160 min Summer	-1.470	0.030	1.0	0.2	O K	2880 min Summer	-1.476	0.024	0.8	0.2	O K	4320 min Summer	-1.482	0.018	0.6	0.1	O K	5760 min Summer	-1.486	0.014	0.5	0.1	O K	7200 min Summer	-1.488	0.012	0.4	0.1	O K	8640 min Summer	-1.490	0.010	0.3	0.1	O K	10080 min Summer	-1.491	0.009	0.3	0.1	O K	15 min Winter	-0.692	0.808	3.4	6.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	15	30 min Summer	77.804	0.0	24	60 min Summer	49.937	0.0	42	120 min Summer	30.956	0.0	76	180 min Summer	23.058	0.0	108	240 min Summer	18.577	0.0	140	360 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Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 02			
Date 09/04/2019		Designed by JB			
File PLOTS 4-8. 1IN100 PLUS ...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-0.572	0.928	3.7	7.5	O K
60 min Winter	-0.565	0.935	3.7	7.6	O K
120 min Winter	-0.702	0.798	3.4	6.5	O K
180 min Winter	-0.847	0.653	3.0	5.3	O K
240 min Winter	-0.973	0.527	2.8	4.3	O K
360 min Winter	-1.164	0.336	2.3	2.7	O K
480 min Winter	-1.296	0.204	2.0	1.7	O K
600 min Winter	-1.389	0.111	1.8	0.9	O K
720 min Winter	-1.447	0.053	1.7	0.4	O K
960 min Winter	-1.459	0.041	1.4	0.3	O K
1440 min Winter	-1.470	0.030	1.0	0.2	O K
2160 min Winter	-1.478	0.022	0.7	0.2	O K
2880 min Winter	-1.482	0.018	0.6	0.1	O K
4320 min Winter	-1.487	0.013	0.4	0.1	O K
5760 min Winter	-1.490	0.010	0.3	0.1	O K
7200 min Winter	-1.491	0.009	0.3	0.1	O K
8640 min Winter	-1.493	0.007	0.2	0.1	O K
10080 min Winter	-1.493	0.007	0.2	0.1	O K
Storm Event	Rain (mm/hr)		Flooded Volume (m³)	Time-Peak (mins)	
30 min Winter	77.804		0.0	25	
60 min Winter	49.937		0.0	44	
120 min Winter	30.956		0.0	80	
180 min Winter	23.058		0.0	114	
240 min Winter	18.577		0.0	148	
360 min Winter	13.656		0.0	210	
480 min Winter	10.974		0.0	270	
600 min Winter	9.254		0.0	326	
720 min Winter	8.046		0.0	374	
960 min Winter	6.447		0.0	490	
1440 min Winter	4.709		0.0	734	
2160 min Winter	3.432		0.0	1080	
2880 min Winter	2.739		0.0	1440	
4320 min Winter	1.989		0.0	2244	
5760 min Winter	1.583		0.0	2936	
7200 min Winter	1.325		0.0	3688	
8640 min Winter	1.147		0.0	4184	
10080 min Winter	1.015		0.0	5136	
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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 02	
Date 09/04/2019	Designed by JB	
File PLOTS 4-8. 1IN100 PLUS ...	Checked by AS	
Innovyze		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.036

Time (mins)		Area
From:	To:	(ha)
0	4	0.036

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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 02																					
Date 09/04/2019	Designed by JB																					
File PLOTS 4-8. 1IN100 PLUS ...	Checked by AS																					
Innovyze		Source Control 2018.1.1																				
<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.41760</td> <td>Trench Width (m)</td> <td>1.5</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.41760</td> <td>Trench Length (m)</td> <td>18.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.200</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.500</td> <td>Cap Infiltration Depth (m)</td> <td>1.200</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	1.5	Infiltration Coefficient Side (m/hr)	0.41760	Trench Length (m)	18.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	1.200	Invert Level (m)	-1.500	Cap Infiltration Depth (m)	1.200
Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	1.5																			
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Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 03			
Date 09/04/1949 File PLOTS 10-11. 1IN100 PLU...		Designed by JB Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Half Drain Time : 27 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-1.528	0.972	1.4	3.4	O K
30 min Summer	-1.364	1.136	1.6	3.9	O K
60 min Summer	-1.304	1.196	1.6	4.1	O K
120 min Summer	-1.375	1.125	1.6	3.9	O K
180 min Summer	-1.482	1.018	1.5	3.5	O K
240 min Summer	-1.590	0.910	1.4	3.2	O K
360 min Summer	-1.774	0.726	1.2	2.5	O K
480 min Summer	-1.917	0.583	1.1	2.0	O K
600 min Summer	-2.032	0.468	1.0	1.6	O K
720 min Summer	-2.126	0.374	1.0	1.3	O K
960 min Summer	-2.268	0.232	0.9	0.8	O K
1440 min Summer	-2.427	0.073	0.7	0.3	O K
2160 min Summer	-2.460	0.040	0.6	0.1	O K
2880 min Summer	-2.468	0.032	0.5	0.1	O K
4320 min Summer	-2.477	0.023	0.3	0.1	O K
5760 min Summer	-2.482	0.018	0.3	0.1	O K
7200 min Summer	-2.485	0.015	0.2	0.1	O K
8640 min Summer	-2.487	0.013	0.2	0.0	O K
10080 min Summer	-2.488	0.012	0.2	0.0	O K
15 min Winter	-1.392	1.108	1.5	3.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	115.731	0.0	16		
30 min Summer	77.804	0.0	26		
60 min Summer	49.937	0.0	42		
120 min Summer	30.956	0.0	78		
180 min Summer	23.058	0.0	110		
240 min Summer	18.577	0.0	144		
360 min Summer	13.656	0.0	208		
480 min Summer	10.974	0.0	268		
600 min Summer	9.254	0.0	330		
720 min Summer	8.046	0.0	390		
960 min Summer	6.447	0.0	510		
1440 min Summer	4.709	0.0	736		
2160 min Summer	3.432	0.0	1080		
2880 min Summer	2.739	0.0	1468		
4320 min Summer	1.989	0.0	2164		
5760 min Summer	1.583	0.0	2920		
7200 min Summer	1.325	0.0	3544		
8640 min Summer	1.147	0.0	4320		
10080 min Summer	1.015	0.0	5088		
15 min Winter	115.731	0.0	16		
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Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 03			
Date 09/04/1949		Designed by JB			
File PLOTS 10-11. 1IN100 PLU...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.198	1.302	1.7	4.5	O K
60 min Winter	-1.140	1.360	1.7	4.7	O K
120 min Winter	-1.276	1.224	1.6	4.2	O K
180 min Winter	-1.443	1.057	1.5	3.7	O K
240 min Winter	-1.598	0.902	1.4	3.1	O K
360 min Winter	-1.846	0.654	1.2	2.3	O K
480 min Winter	-2.028	0.472	1.0	1.6	O K
600 min Winter	-2.167	0.333	0.9	1.2	O K
720 min Winter	-2.275	0.225	0.8	0.8	O K
960 min Winter	-2.423	0.077	0.7	0.3	O K
1440 min Winter	-2.461	0.039	0.6	0.1	O K
2160 min Winter	-2.471	0.029	0.4	0.1	O K
2880 min Winter	-2.477	0.023	0.3	0.1	O K
4320 min Winter	-2.483	0.017	0.2	0.1	O K
5760 min Winter	-2.487	0.013	0.2	0.0	O K
7200 min Winter	-2.489	0.011	0.2	0.0	O K
8640 min Winter	-2.490	0.010	0.1	0.0	O K
10080 min Winter	-2.491	0.009	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	27		
60 min Winter	49.937	0.0	46		
120 min Winter	30.956	0.0	82		
180 min Winter	23.058	0.0	118		
240 min Winter	18.577	0.0	152		
360 min Winter	13.656	0.0	216		
480 min Winter	10.974	0.0	280		
600 min Winter	9.254	0.0	340		
720 min Winter	8.046	0.0	400		
960 min Winter	6.447	0.0	510		
1440 min Winter	4.709	0.0	718		
2160 min Winter	3.432	0.0	1084		
2880 min Winter	2.739	0.0	1400		
4320 min Winter	1.989	0.0	2172		
5760 min Winter	1.583	0.0	2840		
7200 min Winter	1.325	0.0	3568		
8640 min Winter	1.147	0.0	4408		
10080 min Winter	1.015	0.0	4880		
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Innovyze		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.020

Time (mins)	Area
From:	To: (ha)
0	4 0.020

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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 03																					
Date 09/04/1949	Designed by JB																					
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Innovyze		Source Control 2018.1.1																				
<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.41760</td> <td>Trench Width (m)</td> <td>3.4</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.41760</td> <td>Trench Length (m)</td> <td>3.4</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.700</td> </tr> <tr> <td>Invert Level (m)</td> <td>-2.500</td> <td>Cap Infiltration Depth (m)</td> <td>1.700</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	3.4	Infiltration Coefficient Side (m/hr)	0.41760	Trench Length (m)	3.4	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	1.700	Invert Level (m)	-2.500	Cap Infiltration Depth (m)	1.700
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<div>Summary of Results for 100 year Return Period (+30%)</div> <div>Half Drain Time : 416 minutes.</div> <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>-1.807</td><td>0.693</td><td>0.2</td><td>4.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>-1.582</td><td>0.918</td><td>0.2</td><td>5.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>-1.355</td><td>1.145</td><td>0.2</td><td>7.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>-1.156</td><td>1.344</td><td>0.2</td><td>8.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>-1.075</td><td>1.425</td><td>0.2</td><td>8.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>-1.047</td><td>1.453</td><td>0.2</td><td>8.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>-1.042</td><td>1.458</td><td>0.2</td><td>8.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>-1.051</td><td>1.449</td><td>0.2</td><td>8.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-1.067</td><td>1.433</td><td>0.2</td><td>8.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-1.089</td><td>1.411</td><td>0.2</td><td>8.6</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-1.141</td><td>1.359</td><td>0.2</td><td>8.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-1.244</td><td>1.256</td><td>0.2</td><td>7.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-1.382</td><td>1.118</td><td>0.2</td><td>6.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-1.505</td><td>0.995</td><td>0.2</td><td>6.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-1.711</td><td>0.789</td><td>0.2</td><td>4.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-1.874</td><td>0.626</td><td>0.2</td><td>3.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-2.006</td><td>0.494</td><td>0.1</td><td>3.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-2.112</td><td>0.388</td><td>0.1</td><td>2.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-2.198</td><td>0.302</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-1.722</td><td>0.778</td><td>0.2</td><td>4.7</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>115.731</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>77.804</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>49.937</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>30.956</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>23.058</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>18.577</td><td>0.0</td><td>240</td></tr><tr><td>360 min Summer</td><td>13.656</td><td>0.0</td><td>310</td></tr><tr><td>480 min Summer</td><td>10.974</td><td>0.0</td><td>374</td></tr><tr><td>600 min Summer</td><td>9.254</td><td>0.0</td><td>436</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>506</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>646</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>924</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1324</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1728</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2504</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>3232</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3968</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4672</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>5440</td></tr><tr><td>15 min Winter</td><td>115.731</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	-1.807	0.693	0.2	4.2	O K	30 min Summer	-1.582	0.918	0.2	5.6	O K	60 min Summer	-1.355	1.145	0.2	7.0	O K	120 min Summer	-1.156	1.344	0.2	8.2	O K	180 min Summer	-1.075	1.425	0.2	8.7	O K	240 min Summer	-1.047	1.453	0.2	8.8	O K	360 min Summer	-1.042	1.458	0.2	8.9	O K	480 min Summer	-1.051	1.449	0.2	8.8	O K	600 min Summer	-1.067	1.433	0.2	8.7	O K	720 min Summer	-1.089	1.411	0.2	8.6	O K	960 min Summer	-1.141	1.359	0.2	8.3	O K	1440 min Summer	-1.244	1.256	0.2	7.6	O K	2160 min Summer	-1.382	1.118	0.2	6.8	O K	2880 min Summer	-1.505	0.995	0.2	6.0	O K	4320 min Summer	-1.711	0.789	0.2	4.8	O K	5760 min Summer	-1.874	0.626	0.2	3.8	O K	7200 min Summer	-2.006	0.494	0.1	3.0	O K	8640 min Summer	-2.112	0.388	0.1	2.4	O K	10080 min Summer	-2.198	0.302	0.1	1.8	O K	15 min Winter	-1.722	0.778	0.2	4.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	19	30 min Summer	77.804	0.0	33	60 min Summer	49.937	0.0	62	120 min Summer	30.956	0.0	122	180 min Summer	23.058	0.0	182	240 min Summer	18.577	0.0	240	360 min Summer	13.656	0.0	310	480 min Summer	10.974	0.0	374	600 min Summer	9.254	0.0	436	720 min Summer	8.046	0.0	506	960 min Summer	6.447	0.0	646	1440 min Summer	4.709	0.0	924	2160 min Summer	3.432	0.0	1324	2880 min Summer	2.739	0.0	1728	4320 min Summer	1.989	0.0	2504	5760 min Summer	1.583	0.0	3232	7200 min Summer	1.325	0.0	3968	8640 min Summer	1.147	0.0	4672	10080 min Summer	1.015	0.0	5440	15 min Winter	115.731	0.0	18
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Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.467	1.033	0.2	6.3	O K
60 min Winter	-1.209	1.291	0.2	7.8	O K
120 min Winter	-0.977	1.523	0.2	9.3	O K
180 min Winter	-0.877	1.623	0.2	9.9	O K
240 min Winter	-0.836	1.664	0.2	10.1	O K
360 min Winter	-0.821	1.679	0.2	10.2	O K
480 min Winter	-0.836	1.664	0.2	10.1	O K
600 min Winter	-0.855	1.645	0.2	10.0	O K
720 min Winter	-0.883	1.617	0.2	9.8	O K
960 min Winter	-0.953	1.547	0.2	9.4	O K
1440 min Winter	-1.108	1.392	0.2	8.5	O K
2160 min Winter	-1.312	1.188	0.2	7.2	O K
2880 min Winter	-1.487	1.013	0.2	6.2	O K
4320 min Winter	-1.769	0.731	0.2	4.4	O K
5760 min Winter	-1.981	0.519	0.1	3.2	O K
7200 min Winter	-2.144	0.356	0.1	2.2	O K
8640 min Winter	-2.269	0.231	0.1	1.4	O K
10080 min Winter	-2.365	0.135	0.1	0.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	33		
60 min Winter	49.937	0.0	62		
120 min Winter	30.956	0.0	120		
180 min Winter	23.058	0.0	176		
240 min Winter	18.577	0.0	232		
360 min Winter	13.656	0.0	340		
480 min Winter	10.974	0.0	386		
600 min Winter	9.254	0.0	462		
720 min Winter	8.046	0.0	540		
960 min Winter	6.447	0.0	694		
1440 min Winter	4.709	0.0	996		
2160 min Winter	3.432	0.0	1428		
2880 min Winter	2.739	0.0	1844		
4320 min Winter	1.989	0.0	2636		
5760 min Winter	1.583	0.0	3400		
7200 min Winter	1.325	0.0	4112		
8640 min Winter	1.147	0.0	4840		
10080 min Winter	1.015	0.0	5456		
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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 04	
Date 09/04/2019 File Plots 19-21. 1in100 plu...	Designed by JB Checked by AS	
Innovyze Source Control 2018.1.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.020

Time (mins)	Area
From: To: (ha)	
0 4	0.020

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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 04																					
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min Summer</td><td>9.254</td><td>0.0</td><td>456</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>520</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>656</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>938</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1344</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1756</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2548</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>3288</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>4040</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4760</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>5544</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.0</td><td>19</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	-1.654	0.846	0.2	6.3	O K	30 min Summer	-1.377	1.123	0.2	8.4	O K	60 min Summer	-1.095	1.405	0.3	10.5	O K	120 min Summer	-0.836	1.664	0.3	12.5	O K	180 min Summer	-0.723	1.777	0.3	13.3	O K	240 min Summer	-0.675	1.825	0.3	13.7	O K	360 min Summer	-0.653	1.847	0.3	13.9	O K	480 min Summer	-0.654	1.846	0.3	13.8	O K	600 min Summer	-0.666	1.834	0.3	13.8	O K	720 min Summer	-0.685	1.815	0.3	13.6	O K	960 min Summer	-0.734	1.766	0.3	13.2	O K	1440 min Summer	-0.848	1.652	0.3	12.4	O K	2160 min Summer	-1.004	1.496	0.3	11.2	O K	2880 min Summer	-1.141	1.359	0.3	10.2	O K	4320 min Summer	-1.377	1.123	0.2	8.4	O K	5760 min Summer	-1.569	0.931	0.2	7.0	O K	7200 min Summer	-1.727	0.773	0.2	5.8	O K	8640 min Summer	-1.858	0.642	0.2	4.8	O K	10080 min Summer	-1.969	0.531	0.2	4.0	O K	15 min Winter	-1.551	0.949	0.2	7.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	19	30 min Summer	77.804	0.0	33	60 min Summer	49.937	0.0	62	120 min Summer	30.956	0.0	122	180 min Summer	23.058	0.0	182	240 min 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Date 09/04/2019 16:07 File TRENCH 05. PLOTS 14-18....		Designed by Fernando Checked by			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.238	1.262	0.2	9.5	O K
60 min Winter	-0.916	1.584	0.3	11.9	O K
120 min Winter	-0.619	1.881	0.3	14.1	O K
180 min Winter	-0.482	2.018	0.3	15.1	O K
240 min Winter	-0.418	2.082	0.3	15.6	O K
360 min Winter	-0.374	2.126	0.3	15.9	O K
480 min Winter	-0.382	2.118	0.3	15.9	O K
600 min Winter	-0.397	2.103	0.3	15.8	O K
720 min Winter	-0.419	2.081	0.3	15.6	O K
960 min Winter	-0.483	2.017	0.3	15.1	O K
1440 min Winter	-0.645	1.855	0.3	13.9	O K
2160 min Winter	-0.878	1.622	0.3	12.2	O K
2880 min Winter	-1.078	1.422	0.3	10.7	O K
4320 min Winter	-1.406	1.094	0.2	8.2	O K
5760 min Winter	-1.661	0.839	0.2	6.3	O K
7200 min Winter	-1.863	0.637	0.2	4.8	O K
8640 min Winter	-2.023	0.477	0.2	3.6	O K
10080 min Winter	-2.154	0.346	0.2	2.6	O K
Storm Event	Rain (mm/hr)		Flooded Volume (m³)	Time-Peak (mins)	
30 min Winter	77.804		0.0	33	
60 min Winter	49.937		0.0	62	
120 min Winter	30.956		0.0	120	
180 min Winter	23.058		0.0	178	
240 min Winter	18.577		0.0	234	
360 min Winter	13.656		0.0	344	
480 min Winter	10.974		0.0	442	
600 min Winter	9.254		0.0	476	
720 min Winter	8.046		0.0	550	
960 min Winter	6.447		0.0	704	
1440 min Winter	4.709		0.0	1010	
2160 min Winter	3.432		0.0	1448	
2880 min Winter	2.739		0.0	1872	
4320 min Winter	1.989		0.0	2680	
5760 min Winter	1.583		0.0	3456	
7200 min Winter	1.325		0.0	4184	
8640 min Winter	1.147		0.0	4936	
10080 min Winter	1.015		0.0	5656	
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Summer	-1.260	0.740	0.2	5.6	O K	60 min Summer	-1.080	0.920	0.2	6.9	O K	120 min Summer	-0.924	1.076	0.2	8.1	O K	180 min Summer	-0.865	1.135	0.2	8.5	O K	240 min Summer	-0.847	1.153	0.2	8.6	O K	360 min Summer	-0.850	1.150	0.2	8.6	O K	480 min Summer	-0.863	1.137	0.2	8.5	O K	600 min Summer	-0.881	1.119	0.2	8.4	O K	720 min Summer	-0.903	1.097	0.2	8.2	O K	960 min Summer	-0.950	1.050	0.2	7.9	O K	1440 min Summer	-1.038	0.962	0.2	7.2	O K	2160 min Summer	-1.160	0.840	0.2	6.3	O K	2880 min Summer	-1.268	0.732	0.2	5.5	O K	4320 min Summer	-1.449	0.551	0.2	4.1	O K	5760 min Summer	-1.590	0.410	0.2	3.1	O K	7200 min Summer	-1.701	0.299	0.2	2.2	O K	8640 min Summer	-1.786	0.214	0.1	1.6	O K	10080 min Summer	-1.852	0.148	0.1	1.1	O K	15 min Winter	-1.372	0.628	0.2	4.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	19	30 min Summer	77.804	0.0	33	60 min Summer	49.937	0.0	62	120 min Summer	30.956	0.0	122	180 min Summer	23.058	0.0	182	240 min Summer	18.577	0.0	240	360 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Date 09/04/2019			Designed by JB			
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Innovyze			Source Control 2018.1.1			
<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	-1.167	0.833	0.2	6.2	O K	
60 min Winter	-0.961	1.039	0.2	7.8	O K	
120 min Winter	-0.778	1.222	0.2	9.2	O K	
180 min Winter	-0.703	1.297	0.2	9.7	O K	
240 min Winter	-0.674	1.326	0.3	9.9	O K	
360 min Winter	-0.671	1.329	0.3	10.0	O K	
480 min Winter	-0.689	1.311	0.2	9.8	O K	
600 min Winter	-0.710	1.290	0.2	9.7	O K	
720 min Winter	-0.739	1.261	0.2	9.5	O K	
960 min Winter	-0.806	1.194	0.2	9.0	O K	
1440 min Winter	-0.939	1.061	0.2	8.0	O K	
2160 min Winter	-1.118	0.882	0.2	6.6	O K	
2880 min Winter	-1.273	0.727	0.2	5.4	O K	
4320 min Winter	-1.520	0.480	0.2	3.6	O K	
5760 min Winter	-1.703	0.297	0.2	2.2	O K	
7200 min Winter	-1.837	0.163	0.1	1.2	O K	
8640 min Winter	-1.926	0.074	0.1	0.6	O K	
10080 min Winter	-1.952	0.048	0.1	0.4	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	77.804	0.0	33			
60 min Winter	49.937	0.0	62			
120 min Winter	30.956	0.0	120			
180 min Winter	23.058	0.0	176			
240 min Winter	18.577	0.0	232			
360 min Winter	13.656	0.0	338			
480 min Winter	10.974	0.0	384			
600 min Winter	9.254	0.0	460			
720 min Winter	8.046	0.0	538			
960 min Winter	6.447	0.0	692			
1440 min Winter	4.709	0.0	994			
2160 min Winter	3.432	0.0	1408			
2880 min Winter	2.739	0.0	1820			
4320 min Winter	1.989	0.0	2596			
5760 min Winter	1.583	0.0	3344			
7200 min Winter	1.325	0.0	4032			
8640 min Winter	1.147	0.0	4584			
10080 min Winter	1.015	0.0	5128			
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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 06	
Date 09/04/2019	Designed by JB	
File Plots 22-23. 1in100 plu...	Checked by AS	
Innovyze		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.020

Time (mins)	Area
From:	To: (ha)
0	4 0.020

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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 06																					
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Summer	-0.537	0.463	1.1	6.8	O K	60 min Summer	-0.483	0.517	1.2	7.6	O K	120 min Summer	-0.477	0.523	1.2	7.7	O K	180 min Summer	-0.499	0.501	1.1	7.4	O K	240 min Summer	-0.529	0.471	1.1	6.9	O K	360 min Summer	-0.589	0.411	1.1	6.0	O K	480 min Summer	-0.645	0.355	1.1	5.2	O K	600 min Summer	-0.697	0.303	1.0	4.5	O K	720 min Summer	-0.743	0.257	1.0	3.8	O K	960 min Summer	-0.820	0.180	1.0	2.7	O K	1440 min Summer	-0.918	0.082	0.9	1.2	O K	2160 min Summer	-0.956	0.044	0.8	0.6	O K	2880 min Summer	-0.965	0.035	0.6	0.5	O K	4320 min Summer	-0.974	0.026	0.5	0.4	O K	5760 min Summer	-0.979	0.021	0.4	0.3	O K	7200 min Summer	-0.983	0.017	0.3	0.3	O K	8640 min Summer	-0.985	0.015	0.3	0.2	O K	10080 min Summer	-0.987	0.013	0.2	0.2	O K	15 min Winter	-0.579	0.421	1.1	6.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	17	30 min Summer	77.804	0.0	31	60 min Summer	49.937	0.0	54	120 min Summer	30.956	0.0	88	180 min Summer	23.058	0.0	122	240 min Summer	18.577	0.0	156	360 min Summer	13.656	0.0	224	480 min Summer	10.974	0.0	290	600 min Summer	9.254	0.0	354	720 min Summer	8.046	0.0	414	960 min Summer	6.447	0.0	532	1440 min Summer	4.709	0.0	754	2160 min Summer	3.432	0.0	1100	2880 min Summer	2.739	0.0	1468	4320 min Summer	1.989	0.0	2172	5760 min Summer	1.583	0.0	2920	7200 min Summer	1.325	0.0	3576	8640 min Summer	1.147	0.0	4352	10080 min Summer	1.015	0.0	5016	15 min Winter	115.731	0.0	17
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Date 09/04/2019			Designed by JB			
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Innovyze			Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	-0.469	0.531	1.2	7.8	O K	
60 min Winter	-0.399	0.601	1.2	8.8	O K	
120 min Winter	-0.396	0.604	1.2	8.9	O K	
180 min Winter	-0.430	0.570	1.2	8.4	O K	
240 min Winter	-0.476	0.524	1.2	7.7	O K	
360 min Winter	-0.569	0.431	1.1	6.3	O K	
480 min Winter	-0.654	0.346	1.1	5.1	O K	
600 min Winter	-0.729	0.271	1.0	4.0	O K	
720 min Winter	-0.795	0.205	1.0	3.0	O K	
960 min Winter	-0.896	0.104	0.9	1.5	O K	
1440 min Winter	-0.956	0.044	0.8	0.6	O K	
2160 min Winter	-0.968	0.032	0.6	0.5	O K	
2880 min Winter	-0.974	0.026	0.5	0.4	O K	
4320 min Winter	-0.981	0.019	0.3	0.3	O K	
5760 min Winter	-0.985	0.015	0.3	0.2	O K	
7200 min Winter	-0.987	0.013	0.2	0.2	O K	
8640 min Winter	-0.989	0.011	0.2	0.2	O K	
10080 min Winter	-0.990	0.010	0.2	0.1	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	77.804	0.0	31			
60 min Winter	49.937	0.0	58			
120 min Winter	30.956	0.0	94			
180 min Winter	23.058	0.0	132			
240 min Winter	18.577	0.0	170			
360 min Winter	13.656	0.0	242			
480 min Winter	10.974	0.0	310			
600 min Winter	9.254	0.0	374			
720 min Winter	8.046	0.0	434			
960 min Winter	6.447	0.0	542			
1440 min Winter	4.709	0.0	736			
2160 min Winter	3.432	0.0	1100			
2880 min Winter	2.739	0.0	1464			
4320 min Winter	1.989	0.0	2196			
5760 min Winter	1.583	0.0	2936			
7200 min Winter	1.325	0.0	3680			
8640 min Winter	1.147	0.0	4248			
10080 min Winter	1.015	0.0	5192			
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Summer</td><td>-0.599</td><td>0.401</td><td>1.1</td><td>5.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-0.653</td><td>0.347</td><td>1.1</td><td>5.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-0.701</td><td>0.299</td><td>1.0</td><td>4.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-0.784</td><td>0.216</td><td>1.0</td><td>3.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-0.895</td><td>0.105</td><td>0.9</td><td>1.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-0.953</td><td>0.047</td><td>0.9</td><td>0.7</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-0.962</td><td>0.038</td><td>0.7</td><td>0.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-0.972</td><td>0.028</td><td>0.5</td><td>0.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-0.978</td><td>0.022</td><td>0.4</td><td>0.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-0.982</td><td>0.018</td><td>0.3</td><td>0.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-0.984</td><td>0.016</td><td>0.3</td><td>0.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-0.986</td><td>0.014</td><td>0.3</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-0.547</td><td>0.453</td><td>1.1</td><td>6.7</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>115.731</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>77.804</td><td>0.0</td><td>31</td></tr><tr><td>60 min Summer</td><td>49.937</td><td>0.0</td><td>56</td></tr><tr><td>120 min Summer</td><td>30.956</td><td>0.0</td><td>88</td></tr><tr><td>180 min Summer</td><td>23.058</td><td>0.0</td><td>124</td></tr><tr><td>240 min Summer</td><td>18.577</td><td>0.0</td><td>158</td></tr><tr><td>360 min Summer</td><td>13.656</td><td>0.0</td><td>226</td></tr><tr><td>480 min Summer</td><td>10.974</td><td>0.0</td><td>292</td></tr><tr><td>600 min Summer</td><td>9.254</td><td>0.0</td><td>356</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>420</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>540</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>766</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2180</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>2920</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4344</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>5032</td></tr><tr><td>15 min Winter</td><td>115.731</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	-0.601	0.399	1.1	5.9	O K	30 min Summer	-0.499	0.501	1.1	7.4	O K	60 min Summer	-0.438	0.562	1.2	8.3	O K	120 min Summer	-0.429	0.571	1.2	8.4	O K	180 min Summer	-0.450	0.550	1.2	8.1	O K	240 min Summer	-0.480	0.520	1.2	7.6	O K	360 min Summer	-0.542	0.458	1.1	6.7	O K	480 min Summer	-0.599	0.401	1.1	5.9	O K	600 min Summer	-0.653	0.347	1.1	5.1	O K	720 min Summer	-0.701	0.299	1.0	4.4	O K	960 min Summer	-0.784	0.216	1.0	3.2	O K	1440 min Summer	-0.895	0.105	0.9	1.5	O K	2160 min Summer	-0.953	0.047	0.9	0.7	O K	2880 min Summer	-0.962	0.038	0.7	0.6	O K	4320 min Summer	-0.972	0.028	0.5	0.4	O K	5760 min Summer	-0.978	0.022	0.4	0.3	O K	7200 min Summer	-0.982	0.018	0.3	0.3	O K	8640 min Summer	-0.984	0.016	0.3	0.2	O K	10080 min Summer	-0.986	0.014	0.3	0.2	O K	15 min Winter	-0.547	0.453	1.1	6.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	17	30 min Summer	77.804	0.0	31	60 min Summer	49.937	0.0	56	120 min Summer	30.956	0.0	88	180 min Summer	23.058	0.0	124	240 min Summer	18.577	0.0	158	360 min Summer	13.656	0.0	226	480 min Summer	10.974	0.0	292	600 min Summer	9.254	0.0	356	720 min Summer	8.046	0.0	420	960 min Summer	6.447	0.0	540	1440 min Summer	4.709	0.0	766	2160 min Summer	3.432	0.0	1100	2880 min Summer	2.739	0.0	1468	4320 min Summer	1.989	0.0	2180	5760 min Summer	1.583	0.0	2920	7200 min Summer	1.325	0.0	3672	8640 min Summer	1.147	0.0	4344	10080 min Summer	1.015	0.0	5032	15 min Winter	115.731	0.0	17
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Paul Basham Associates				Page 2	
Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 09			
Date 09/04/2019		Designed by JB			
File PLOTS 62-65. 1IN100 PLU...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-0.427	0.573	1.2	8.4	O K
60 min Winter	-0.347	0.653	1.2	9.6	O K
120 min Winter	-0.339	0.661	1.2	9.7	O K
180 min Winter	-0.372	0.628	1.2	9.2	O K
240 min Winter	-0.418	0.582	1.2	8.6	O K
360 min Winter	-0.513	0.487	1.1	7.2	O K
480 min Winter	-0.601	0.399	1.1	5.9	O K
600 min Winter	-0.679	0.321	1.1	4.7	O K
720 min Winter	-0.749	0.251	1.0	3.7	O K
960 min Winter	-0.860	0.140	1.0	2.1	O K
1440 min Winter	-0.953	0.047	0.9	0.7	O K
2160 min Winter	-0.966	0.034	0.6	0.5	O K
2880 min Winter	-0.973	0.027	0.5	0.4	O K
4320 min Winter	-0.980	0.020	0.4	0.3	O K
5760 min Winter	-0.984	0.016	0.3	0.2	O K
7200 min Winter	-0.987	0.013	0.2	0.2	O K
8640 min Winter	-0.988	0.012	0.2	0.2	O K
10080 min Winter	-0.990	0.010	0.2	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	31		
60 min Winter	49.937	0.0	58		
120 min Winter	30.956	0.0	94		
180 min Winter	23.058	0.0	134		
240 min Winter	18.577	0.0	172		
360 min Winter	13.656	0.0	244		
480 min Winter	10.974	0.0	312		
600 min Winter	9.254	0.0	378		
720 min Winter	8.046	0.0	440		
960 min Winter	6.447	0.0	556		
1440 min Winter	4.709	0.0	736		
2160 min Winter	3.432	0.0	1076		
2880 min Winter	2.739	0.0	1468		
4320 min Winter	1.989	0.0	2196		
5760 min Winter	1.583	0.0	2936		
7200 min Winter	1.325	0.0	3616		
8640 min Winter	1.147	0.0	4304		
10080 min Winter	1.015	0.0	5096		
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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 09	
Date 09/04/2019	Designed by JB	
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Innovyze		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.031

Time (mins)	Area
From:	To: (ha)
0	4 0.031

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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.13104</td> <td>Trench Width (m)</td> <td>7.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.13104</td> <td>Trench Length (m)</td> <td>7.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.700</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.000</td> <td>Cap Infiltration Depth (m)</td> <td>0.700</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.13104	Trench Width (m)	7.0	Infiltration Coefficient Side (m/hr)	0.13104	Trench Length (m)	7.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	0.700	Invert Level (m)	-1.000	Cap Infiltration Depth (m)	0.700
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Summer</td><td>-1.692</td><td>0.808</td><td>0.0</td><td>19.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-1.655</td><td>0.845</td><td>0.0</td><td>20.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-1.625</td><td>0.875</td><td>0.0</td><td>21.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-1.579</td><td>0.921</td><td>0.0</td><td>22.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-1.520</td><td>0.980</td><td>0.0</td><td>23.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-1.472</td><td>1.028</td><td>0.0</td><td>25.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-1.449</td><td>1.051</td><td>0.0</td><td>25.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-1.441</td><td>1.059</td><td>0.0</td><td>25.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-1.458</td><td>1.042</td><td>0.0</td><td>25.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-1.479</td><td>1.021</td><td>0.0</td><td>24.8</td><td>O K</td></tr><tr><td>8640 min 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Summer</td><td>10.974</td><td>0.0</td><td>484</td></tr><tr><td>600 min Summer</td><td>9.254</td><td>0.0</td><td>604</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>724</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>962</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>1442</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>2160</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>2880</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>4320</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>5360</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>5984</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>6744</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>7472</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.0</td><td>19</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	-2.224	0.276	0.0	6.7	O K	30 min Summer	-2.130	0.370	0.0	9.0	O K	60 min Summer	-2.026	0.474	0.0	11.5	O K	120 min Summer	-1.915	0.585	0.0	14.2	O K	180 min Summer	-1.850	0.650	0.0	15.8	O K	240 min Summer	-1.805	0.695	0.0	16.9	O K	360 min Summer	-1.740	0.760	0.0	18.5	O K	480 min Summer	-1.692	0.808	0.0	19.6	O K	600 min Summer	-1.655	0.845	0.0	20.5	O K	720 min Summer	-1.625	0.875	0.0	21.3	O K	960 min Summer	-1.579	0.921	0.0	22.4	O K	1440 min Summer	-1.520	0.980	0.0	23.8	O K	2160 min Summer	-1.472	1.028	0.0	25.0	O K	2880 min Summer	-1.449	1.051	0.0	25.5	O K	4320 min Summer	-1.441	1.059	0.0	25.7	O K	5760 min Summer	-1.458	1.042	0.0	25.3	O K	7200 min Summer	-1.479	1.021	0.0	24.8	O K	8640 min Summer	-1.499	1.001	0.0	24.3	O K	10080 min Summer	-1.518	0.982	0.0	23.9	O K	15 min Winter	-2.191	0.309	0.0	7.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	19	30 min Summer	77.804	0.0	34	60 min Summer	49.937	0.0	64	120 min Summer	30.956	0.0	124	180 min Summer	23.058	0.0	184	240 min Summer	18.577	0.0	244	360 min Summer	13.656	0.0	364	480 min Summer	10.974	0.0	484	600 min Summer	9.254	0.0	604	720 min Summer	8.046	0.0	724	960 min Summer	6.447	0.0	962	1440 min Summer	4.709	0.0	1442	2160 min Summer	3.432	0.0	2160	2880 min Summer	2.739	0.0	2880	4320 min Summer	1.989	0.0	4320	5760 min Summer	1.583	0.0	5360	7200 min Summer	1.325	0.0	5984	8640 min Summer	1.147	0.0	6744	10080 min Summer	1.015	0.0	7472	15 min Winter	115.731	0.0	19
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Lancaster Court Fareham Hampshire, PO15 5TU		TENCH 10			
Date 09/04/2019		Designed by JB			
File MODEL 10. PLOTS 68-72. ...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-2.085	0.415	0.0	10.1	O K
60 min Winter	-1.969	0.531	0.0	12.9	O K
120 min Winter	-1.844	0.656	0.0	15.9	O K
180 min Winter	-1.770	0.730	0.0	17.7	O K
240 min Winter	-1.719	0.781	0.0	19.0	O K
360 min Winter	-1.646	0.854	0.0	20.8	O K
480 min Winter	-1.592	0.908	0.0	22.1	O K
600 min Winter	-1.549	0.951	0.0	23.1	O K
720 min Winter	-1.515	0.985	0.0	23.9	O K
960 min Winter	-1.462	1.038	0.0	25.2	O K
1440 min Winter	-1.391	1.109	0.0	26.9	O K
2160 min Winter	-1.331	1.169	0.0	28.4	O K
2880 min Winter	-1.299	1.201	0.0	29.2	O K
4320 min Winter	-1.278	1.222	0.0	29.7	O K
5760 min Winter	-1.286	1.214	0.0	29.5	O K
7200 min Winter	-1.309	1.191	0.0	28.9	O K
8640 min Winter	-1.336	1.164	0.0	28.3	O K
10080 min Winter	-1.358	1.142	0.0	27.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	34		
60 min Winter	49.937	0.0	64		
120 min Winter	30.956	0.0	124		
180 min Winter	23.058	0.0	182		
240 min Winter	18.577	0.0	242		
360 min Winter	13.656	0.0	360		
480 min Winter	10.974	0.0	480		
600 min Winter	9.254	0.0	598		
720 min Winter	8.046	0.0	716		
960 min Winter	6.447	0.0	952		
1440 min Winter	4.709	0.0	1426		
2160 min Winter	3.432	0.0	2120		
2880 min Winter	2.739	0.0	2820		
4320 min Winter	1.989	0.0	4188		
5760 min Winter	1.583	0.0	5480		
7200 min Winter	1.325	0.0	6704		
8640 min Winter	1.147	0.0	7096		
10080 min Winter	1.015	0.0	7960		
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Summer</td><td>-0.836</td><td>0.164</td><td>1.8</td><td>0.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-0.902</td><td>0.098</td><td>1.6</td><td>0.4</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-0.942</td><td>0.058</td><td>1.5</td><td>0.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-0.958</td><td>0.042</td><td>1.2</td><td>0.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-0.969</td><td>0.031</td><td>0.9</td><td>0.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-0.978</td><td>0.022</td><td>0.6</td><td>0.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-0.982</td><td>0.018</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-0.987</td><td>0.013</td><td>0.4</td><td>0.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-0.990</td><td>0.010</td><td>0.3</td><td>0.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-0.991</td><td>0.009</td><td>0.3</td><td>0.0</td><td>O K</td></tr><tr><td>8640 min 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Summer</td><td>9.254</td><td>0.0</td><td>312</td></tr><tr><td>720 min Summer</td><td>8.046</td><td>0.0</td><td>368</td></tr><tr><td>960 min Summer</td><td>6.447</td><td>0.0</td><td>488</td></tr><tr><td>1440 min Summer</td><td>4.709</td><td>0.0</td><td>718</td></tr><tr><td>2160 min Summer</td><td>3.432</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>2.739</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>1.989</td><td>0.0</td><td>2184</td></tr><tr><td>5760 min Summer</td><td>1.583</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.325</td><td>0.0</td><td>3656</td></tr><tr><td>8640 min Summer</td><td>1.147</td><td>0.0</td><td>4368</td></tr><tr><td>10080 min Summer</td><td>1.015</td><td>0.0</td><td>4968</td></tr><tr><td>15 min Winter</td><td>115.731</td><td>0.8</td><td>14</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.000	1.000	3.3	3.1	FLOOD	30 min Summer	0.000	1.000	3.3	3.4	FLOOD	60 min Summer	0.000	1.000	3.3	3.2	FLOOD	120 min Summer	-0.349	0.651	3.1	2.5	O K	180 min Summer	-0.482	0.518	2.8	2.0	O K	240 min Summer	-0.589	0.411	2.5	1.6	O K	360 min Summer	-0.739	0.261	2.0	1.0	O K	480 min Summer	-0.836	0.164	1.8	0.6	O K	600 min Summer	-0.902	0.098	1.6	0.4	O K	720 min Summer	-0.942	0.058	1.5	0.2	O K	960 min Summer	-0.958	0.042	1.2	0.2	O K	1440 min Summer	-0.969	0.031	0.9	0.1	O K	2160 min Summer	-0.978	0.022	0.6	0.1	O K	2880 min Summer	-0.982	0.018	0.5	0.1	O K	4320 min Summer	-0.987	0.013	0.4	0.1	O K	5760 min Summer	-0.990	0.010	0.3	0.0	O K	7200 min Summer	-0.991	0.009	0.3	0.0	O K	8640 min Summer	-0.992	0.008	0.2	0.0	O K	10080 min Summer	-0.993	0.007	0.2	0.0	O K	15 min Winter	0.001	1.001	3.3	3.5	FLOOD	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.3	13	30 min Summer	77.804	0.7	22	60 min Summer	49.937	0.5	40	120 min Summer	30.956	0.0	70	180 min Summer	23.058	0.0	102	240 min 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Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 11			
Date 09/09/2019		Designed by JB			
File PLOTS 42-44. 1IN100 PLU...		Checked by AS			
Innovyze		Source Control 2018.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.001	1.001	3.3	3.8	FLOOD
60 min Winter	0.000	1.000	3.3	3.4	FLOOD
120 min Winter	-0.387	0.613	3.0	2.4	O K
180 min Winter	-0.561	0.439	2.5	1.7	O K
240 min Winter	-0.688	0.312	2.2	1.2	O K
360 min Winter	-0.852	0.148	1.7	0.6	O K
480 min Winter	-0.944	0.056	1.5	0.2	O K
600 min Winter	-0.957	0.043	1.3	0.2	O K
720 min Winter	-0.962	0.038	1.1	0.1	O K
960 min Winter	-0.970	0.030	0.9	0.1	O K
1440 min Winter	-0.978	0.022	0.6	0.1	O K
2160 min Winter	-0.984	0.016	0.5	0.1	O K
2880 min Winter	-0.987	0.013	0.4	0.1	O K
4320 min Winter	-0.990	0.010	0.3	0.0	O K
5760 min Winter	-0.992	0.008	0.2	0.0	O K
7200 min Winter	-0.993	0.007	0.2	0.0	O K
8640 min Winter	-0.994	0.006	0.2	0.0	O K
10080 min Winter	-0.995	0.005	0.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	1.1	24		
60 min Winter	49.937	0.7	42		
120 min Winter	30.956	0.0	74		
180 min Winter	23.058	0.0	106		
240 min Winter	18.577	0.0	136		
360 min Winter	13.656	0.0	196		
480 min Winter	10.974	0.0	250		
600 min Winter	9.254	0.0	306		
720 min Winter	8.046	0.0	364		
960 min Winter	6.447	0.0	488		
1440 min Winter	4.709	0.0	726		
2160 min Winter	3.432	0.0	1072		
2880 min Winter	2.739	0.0	1424		
4320 min Winter	1.989	0.0	2156		
5760 min Winter	1.583	0.0	2952		
7200 min Winter	1.325	0.0	3536		
8640 min Winter	1.147	0.0	4496		
10080 min Winter	1.015	0.0	4984		
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Summer</td><td>-1.388</td><td>0.112</td><td>1.4</td><td>0.7</td><td>O K</td></tr><tr><td>600 min Summer</td><td>-1.434</td><td>0.066</td><td>1.4</td><td>0.4</td><td>O K</td></tr><tr><td>720 min Summer</td><td>-1.452</td><td>0.048</td><td>1.3</td><td>0.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>-1.461</td><td>0.039</td><td>1.0</td><td>0.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>-1.471</td><td>0.029</td><td>0.8</td><td>0.2</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>-1.479</td><td>0.021</td><td>0.6</td><td>0.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>-1.483</td><td>0.017</td><td>0.5</td><td>0.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>-1.488</td><td>0.012</td><td>0.3</td><td>0.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>-1.490</td><td>0.010</td><td>0.3</td><td>0.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>-1.492</td><td>0.008</td><td>0.2</td><td>0.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>-1.493</td><td>0.007</td><td>0.2</td><td>0.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>-1.494</td><td>0.006</td><td>0.2</td><td>0.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>-0.974</td><td>0.526</td><td>2.1</td><td>3.5</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>115.731</td><td>0.0</td><td>15</td></tr><tr><td>30 min Summer</td><td>77.804</td><td>0.0</td><td>24</td></tr><tr><td>60 min Summer</td><td>49.937</td><td>0.0</td><td>42</td></tr><tr><td>120 min Summer</td><td>30.956</td><td>0.0</td><td>74</td></tr><tr><td>180 min Summer</td><td>23.058</td><td>0.0</td><td>108</td></tr><tr><td>240 min Summer</td><td>18.577</td><td>0.0</td><td>138</td></tr><tr><td>360 min Summer</td><td>13.656</td><td>0.0</td><td>198</td></tr><tr><td>480 min Summer</td><td>10.974</td><td>0.0</td><td>256</td></tr><tr><td>600 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Summer	-0.983	0.517	2.1	3.4	O K	60 min Summer	-0.983	0.517	2.1	3.4	O K	120 min Summer	-1.052	0.448	2.0	3.0	O K	180 min Summer	-1.131	0.369	1.8	2.4	O K	240 min Summer	-1.204	0.296	1.7	2.0	O K	360 min Summer	-1.314	0.186	1.6	1.2	O K	480 min Summer	-1.388	0.112	1.4	0.7	O K	600 min Summer	-1.434	0.066	1.4	0.4	O K	720 min Summer	-1.452	0.048	1.3	0.3	O K	960 min Summer	-1.461	0.039	1.0	0.3	O K	1440 min Summer	-1.471	0.029	0.8	0.2	O K	2160 min Summer	-1.479	0.021	0.6	0.1	O K	2880 min Summer	-1.483	0.017	0.5	0.1	O K	4320 min Summer	-1.488	0.012	0.3	0.1	O K	5760 min Summer	-1.490	0.010	0.3	0.1	O K	7200 min Summer	-1.492	0.008	0.2	0.1	O K	8640 min Summer	-1.493	0.007	0.2	0.0	O K	10080 min Summer	-1.494	0.006	0.2	0.0	O K	15 min Winter	-0.974	0.526	2.1	3.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.731	0.0	15	30 min Summer	77.804	0.0	24	60 min Summer	49.937	0.0	42	120 min Summer	30.956	0.0	74	180 min Summer	23.058	0.0	108	240 min Summer	18.577	0.0	138	360 min Summer	13.656	0.0	198	480 min Summer	10.974	0.0	256	600 min Summer	9.254	0.0	312	720 min Summer	8.046	0.0	366	960 min Summer	6.447	0.0	490	1440 min Summer	4.709	0.0	734	2160 min Summer	3.432	0.0	1072	2880 min Summer	2.739	0.0	1432	4320 min Summer	1.989	0.0	2148	5760 min Summer	1.583	0.0	2880	7200 min Summer	1.325	0.0	3672	8640 min Summer	1.147	0.0	4256	10080 min Summer	1.015	0.0	5024	15 min Winter	115.731	0.0	15
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Paul Basham Associates				Page 2	
Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH 12			
Date 09/04/2019		Designed by JB			
File TRENCH 12. PLOTS 40-41....		Checked by AS			
Innovyze		Source Control 2018.1.1			
<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	-0.907	0.593	2.2	3.9	O K
60 min Winter	-0.922	0.578	2.1	3.8	O K
120 min Winter	-1.040	0.460	2.0	3.0	O K
180 min Winter	-1.158	0.342	1.8	2.3	O K
240 min Winter	-1.257	0.243	1.6	1.6	O K
360 min Winter	-1.397	0.103	1.4	0.7	O K
480 min Winter	-1.452	0.048	1.3	0.3	O K
600 min Winter	-1.460	0.040	1.1	0.3	O K
720 min Winter	-1.465	0.035	1.0	0.2	O K
960 min Winter	-1.472	0.028	0.8	0.2	O K
1440 min Winter	-1.479	0.021	0.6	0.1	O K
2160 min Winter	-1.485	0.015	0.4	0.1	O K
2880 min Winter	-1.488	0.012	0.3	0.1	O K
4320 min Winter	-1.491	0.009	0.2	0.1	O K
5760 min Winter	-1.493	0.007	0.2	0.0	O K
7200 min Winter	-1.494	0.006	0.2	0.0	O K
8640 min Winter	-1.495	0.005	0.1	0.0	O K
10080 min Winter	-1.495	0.005	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	25		
60 min Winter	49.937	0.0	44		
120 min Winter	30.956	0.0	80		
180 min Winter	23.058	0.0	112		
240 min Winter	18.577	0.0	144		
360 min Winter	13.656	0.0	202		
480 min Winter	10.974	0.0	246		
600 min Winter	9.254	0.0	308		
720 min Winter	8.046	0.0	366		
960 min Winter	6.447	0.0	490		
1440 min Winter	4.709	0.0	732		
2160 min Winter	3.432	0.0	1092		
2880 min Winter	2.739	0.0	1440		
4320 min Winter	1.989	0.0	2204		
5760 min Winter	1.583	0.0	2920		
7200 min Winter	1.325	0.0	3632		
8640 min Winter	1.147	0.0	4360		
10080 min Winter	1.015	0.0	4920		
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Lancaster Court Fareham Hampshire, PO15 5TU	TRENCH 12	
Date 09/04/2019 File TRENCH 12. PLOTS 40-41....	Designed by JB Checked by AS	
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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.41760</td> <td>Trench Width (m)</td> <td>2.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.41760</td> <td>Trench Length (m)</td> <td>11.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.200</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.500</td> <td>Cap Infiltration Depth (m)</td> <td>1.200</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.41760	Trench Width (m)	2.0	Infiltration Coefficient Side (m/hr)	0.41760	Trench Length (m)	11.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	1.200	Invert Level (m)	-1.500	Cap Infiltration Depth (m)	1.200
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