

Paul Basham Associates				Page 0	
Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH SA 10			
Date 17/04/2019 File Plots 42-44. lin10 plus...		Designed by JB Checked by RW			
Innovyze		Source Control 2018.1.1			
<u>Summary of Results for 10 year Return Period (+30%)</u>					
Half Drain Time : 4 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-0.769	0.231	2.3	0.6	O K
30 min Summer	-0.785	0.215	2.2	0.6	O K
60 min Summer	-0.854	0.146	2.0	0.4	O K
120 min Summer	-0.939	0.061	1.7	0.2	O K
180 min Summer	-0.958	0.042	1.4	0.1	O K
240 min Summer	-0.965	0.035	1.2	0.1	O K
360 min Summer	-0.974	0.026	0.9	0.1	O K
480 min Summer	-0.979	0.021	0.7	0.1	O K
600 min Summer	-0.982	0.018	0.6	0.0	O K
720 min Summer	-0.984	0.016	0.5	0.0	O K
960 min Summer	-0.987	0.013	0.4	0.0	O K
1440 min Summer	-0.990	0.010	0.3	0.0	O K
2160 min Summer	-0.993	0.007	0.2	0.0	O K
2880 min Summer	-0.994	0.006	0.2	0.0	O K
4320 min Summer	-0.995	0.005	0.2	0.0	O K
5760 min Summer	-0.996	0.004	0.1	0.0	O K
7200 min Summer	-0.997	0.003	0.1	0.0	O K
8640 min Summer	-0.997	0.003	0.1	0.0	O K
10080 min Summer	-0.997	0.003	0.1	0.0	O K
15 min Winter	-0.746	0.254	2.4	0.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	70.770	0.0	12		
30 min Summer	46.698	0.0	20		
60 min Summer	29.629	0.0	36		
120 min Summer	18.344	0.0	64		
180 min Summer	13.747	0.0	94		
240 min Summer	11.169	0.0	124		
360 min Summer	8.317	0.0	182		
480 min Summer	6.743	0.0	244		
600 min Summer	5.728	0.0	302		
720 min Summer	5.011	0.0	366		
960 min Summer	4.057	0.0	480		
1440 min Summer	3.009	0.0	714		
2160 min Summer	2.231	0.0	1080		
2880 min Summer	1.803	0.0	1456		
4320 min Summer	1.335	0.0	2200		
5760 min Summer	1.078	0.0	2936		
7200 min Summer	0.913	0.0	3552		
8640 min Summer	0.798	0.0	4280		
10080 min Summer	0.711	0.0	5192		
15 min Winter	70.770	0.0	12		

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Innovyze			Source Control 2018.1.1			
<div>Summary of Results for 10 year Return Period (+30%)</div>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	-0.788	0.212	2.2	0.6	O K	
60 min Winter	-0.891	0.109	1.9	0.3	O K	
120 min Winter	-0.959	0.041	1.4	0.1	O K	
180 min Winter	-0.969	0.031	1.0	0.1	O K	
240 min Winter	-0.974	0.026	0.9	0.1	O K	
360 min Winter	-0.981	0.019	0.6	0.1	O K	
480 min Winter	-0.984	0.016	0.5	0.0	O K	
600 min Winter	-0.987	0.013	0.4	0.0	O K	
720 min Winter	-0.988	0.012	0.4	0.0	O K	
960 min Winter	-0.991	0.009	0.3	0.0	O K	
1440 min Winter	-0.993	0.007	0.2	0.0	O K	
2160 min Winter	-0.995	0.005	0.2	0.0	O K	
2880 min Winter	-0.996	0.004	0.1	0.0	O K	
4320 min Winter	-0.997	0.003	0.1	0.0	O K	
5760 min Winter	-0.997	0.003	0.1	0.0	O K	
7200 min Winter	-0.998	0.002	0.1	0.0	O K	
8640 min Winter	-0.998	0.002	0.1	0.0	O K	
10080 min Winter	-0.998	0.002	0.1	0.0	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	46.698	0.0	21			
60 min Winter	29.629	0.0	36			
120 min Winter	18.344	0.0	64			
180 min Winter	13.747	0.0	94			
240 min Winter	11.169	0.0	122			
360 min Winter	8.317	0.0	188			
480 min Winter	6.743	0.0	248			
600 min Winter	5.728	0.0	308			
720 min Winter	5.011	0.0	352			
960 min Winter	4.057	0.0	490			
1440 min Winter	3.009	0.0	738			
2160 min Winter	2.231	0.0	1104			
2880 min Winter	1.803	0.0	1420			
4320 min Winter	1.335	0.0	2192			
5760 min Winter	1.078	0.0	2760			
7200 min Winter	0.913	0.0	3584			
8640 min Winter	0.798	0.0	4248			
10080 min Winter	0.711	0.0	4752			
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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) 0.013

Time (mins)		Area
From:	To:	(ha)
0	4	0.013

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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>1.81080</td> <td>Trench Width (m)</td> <td>1.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.81080</td> <td>Trench Length (m)</td> <td>9.0</td> </tr> <tr> <td>Safety Factor</td> <td>3.0</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)	1.81080	Trench Width (m)	1.0	Infiltration Coefficient Side (m/hr)	1.81080	Trench Length (m)	9.0	Safety Factor	3.0	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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