

Peter Brett Associates LLP		Page 1			
Caversham Bridge House	Green Park Village				
Waterman Place	Lake View Villas				
Reading RG1 8DN	Network				
Date 01.07.2010	Designed By CMB				
File LAKE VIEW VILLAS.SUM	Checked By				
Micro Drainage	Simulation W.11.4 net				
Global Variables					
Region	FSR - England & Wales	Manhole Headloss Coefficient 0.500			
Return Period (yrs)	1	MADD Factor * 10m³/ha Storage 2.000			
M5-60 (mm)	18.700	Foul Sewage/Hectare (l/s) 0.00			
Ratio R	0.400	Additional Flow - % of Total Flow 0			
Volumetric Runoff Coef	0.750	Inlet Coefficient 0.800			
Profile Type	Summer	Number of Input Hydrographs 0			
PIMP (%)	100	Number of Time/Area Diagrams 0			
Areal Reduction Factor	1.000	Number of Bifurcations 0			
Storm Duration (mins)	15	Number of Overflows 0			
Hot Start (mins)	0	Number of Off-Line Controls 1			
Hot Start Level (mm)	0	Number of On-Line Controls 0			
Starting Storm file name					
J:\11321\2002\WINDES\LAKE VIEW VILLAS\LAKE VIEW VILLAS.SWS					
Freely Discharging Outfalls					
Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
40.004		40.350	39.595	225	0
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Infiltration Systems

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier.

DS/PN	MH Loss	Height above DS PN (m)	Filename	Type	Include Volume
40.004	0.500	-0.800	Soakaway.src	Cellular Storage	Yes (capped) (lvl 39.600m)

Network Details

* - Indicates pipe has been modified outside of WinDes's Storm/Foul & Schedules

PN	Length (m)	Fall (m)	Slope (1:x)	Area (ha)	T.E. (mins)	Rain Pro	k (mm)	Hyd Sect	Dia (mm)
40.000	13.00	0.078	166.7	0.005	4.00	1	0.600	o	225
40.001	6.00	0.036	166.7	0.005	0.00	1	0.600	o	225
40.002	14.00	0.084	166.7	0.005	0.00	1	0.600	o	225
41.000	15.00	0.090	166.7	0.005	4.00	1	0.600	o	225
40.003	5.00	0.030	166.7	0.009	0.00	1	0.600	o	225
40.004	1.00	0.005	200.1	0.000	0.00	1	0.600	o	225

PN	USMH No.	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl No.	US/MH (mm)
40.000	1	40.353	39.228	0.900	40.275	39.150	0.900		1050
40.001	2	40.275	39.150	0.900	40.239	39.114	0.900		1050
40.002	3	40.239	39.114	0.900	40.200	39.030	0.945		1050
41.000	4	40.245	39.120	0.900	40.200	39.030	0.945		1050
40.003	5	40.200	39.030	0.945	40.200	39.000	0.975		1500
40.004	6	40.200	39.600	0.375	40.350	39.595	0.530		1050

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	1	0%	1				
40.001	15 Summer	1	0%	1				
40.002	15 Winter	1	0%	1				
41.000	15 Summer	1	0%	1				
40.003	15 Winter	1	0%	1				
40.004	360 Winter	1	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	39.249	-0.204	0.000	0.02	0.0	0.7	0 K
	40.001	39.179	-0.196	0.000	0.04	0.0	1.2	0 K
	40.002	39.147	-0.192	0.000	0.05	0.0	1.8	0 K
	41.000	39.141	-0.204	0.000	0.02	0.0	0.7	0 K
	40.003	39.081	-0.174	0.000	0.12	0.0	3.4	0 K
	40.004	38.898	-0.927	0.000	0.00	0.2	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
 DTS Status ON Analysis Time Step Fine
 DVD Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	30	0%	1				
40.001	15 Summer	30	0%	1				
40.002	15 Summer	30	0%	1				
41.000	15 Summer	30	0%	1				
40.003	15 Summer	30	0%	1				
40.004	240 Winter	30	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	39.260	-0.193	0.000	0.05	0.0	1.7	0 K
	40.001	39.201	-0.174	0.000	0.11	0.0	3.4	0 K
	40.002	39.171	-0.168	0.000	0.15	0.0	5.1	0 K
	41.000	39.154	-0.191	0.000	0.05	0.0	1.7	0 K
	40.003	39.120	-0.135	0.000	0.33	0.0	9.6	0 K
	40.004	39.056	-0.769	0.000	0.00	0.2	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	100	0%	1				
40.001	15 Summer	100	0%	1				
40.002	15 Summer	100	0%	1				
41.000	15 Summer	100	0%	1				
40.003	360 Winter	100	0%	1				
40.004	360 Winter	100	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	39.265	-0.188	0.000	0.06	0.0	2.2	0 K
	40.001	39.208	-0.167	0.000	0.15	0.0	4.4	0 K
	40.002	39.180	-0.159	0.000	0.19	0.0	6.6	0 K
	41.000	39.162	-0.183	0.000	0.06	0.0	2.2	0 K
	40.003	39.141	-0.114	0.000	0.06	0.0	1.7	0 K
	40.004	39.141	-0.684	0.000	0.00	0.2	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 30

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	100	30%	1				
40.001	480 Winter	100	30%	1				
40.002	480 Winter	100	30%	1				
41.000	480 Winter	100	30%	1				
40.003	480 Winter	100	30%	1				
40.004	480 Winter	100	30%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	39.271	-0.182	0.000	0.08	0.0	2.9	0 K
	40.001	39.237	-0.138	0.000	0.02	0.0	0.6	0 K
	40.002	39.237	-0.102	0.000	0.03	0.0	0.9	0 K
	41.000	39.237	-0.108	0.000	0.01	0.0	0.3	0 K
	40.003	39.238	-0.017	0.000	0.06	0.0	1.7	0 K
	40.004	39.237	-0.588	0.000	0.00	0.2	0.0	0 K

Summary of Results for 10 year Return Period

Half Drain Time : 293 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.2	0.2	0.0963	0.0963	2.9	0 K
30 Summer	0.2	0.2	0.1218	0.1218	3.7	0 K
60 Summer	0.2	0.2	0.1457	0.1457	4.4	0 K
120 Summer	0.2	0.2	0.1642	0.1642	5.0	0 K
180 Summer	0.2	0.2	0.1702	0.1702	5.2	0 K
240 Summer	0.2	0.2	0.1712	0.1712	5.2	0 K
360 Summer	0.2	0.2	0.1702	0.1702	5.2	0 K
480 Summer	0.2	0.2	0.1672	0.1672	5.1	0 K
600 Summer	0.2	0.2	0.1637	0.1637	5.0	0 K
720 Summer	0.2	0.2	0.1592	0.1592	4.8	0 K
960 Summer	0.2	0.2	0.1498	0.1498	4.5	0 K
1440 Summer	0.2	0.2	0.1303	0.1303	4.0	0 K
2160 Summer	0.2	0.2	0.1043	0.1043	3.2	0 K
2880 Summer	0.2	0.2	0.0833	0.0833	2.5	0 K
4320 Summer	0.2	0.2	0.0558	0.0558	1.7	0 K
5760 Summer	0.2	0.2	0.0452	0.0452	1.4	0 K
7200 Summer	0.1	0.1	0.0387	0.0387	1.2	0 K
8640 Summer	0.1	0.1	0.0347	0.0347	1.1	0 K
10080 Summer	0.1	0.1	0.0312	0.0312	0.9	0 K
15 Winter	0.2	0.2	0.1083	0.1083	3.3	0 K
30 Winter	0.2	0.2	0.1373	0.1373	4.2	0 K
60 Winter	0.2	0.2	0.1647	0.1647	5.0	0 K
120 Winter	0.2	0.2	0.1867	0.1867	5.7	0 K
180 Winter	0.2	0.2	0.1952	0.1952	5.9	0 K
240 Winter	0.2	0.2	0.1972	0.1972	6.0	0 K
360 Winter	0.2	0.2	0.1942	0.1942	5.9	0 K
480 Winter	0.2	0.2	0.1902	0.1902	5.8	0 K
600 Winter	0.2	0.2	0.1847	0.1847	5.6	0 K
720 Winter	0.2	0.2	0.1777	0.1777	5.4	0 K
960 Winter	0.2	0.2	0.1628	0.1628	5.0	0 K
1440 Winter	0.2	0.2	0.1333	0.1333	4.0	0 K
2160 Winter	0.2	0.2	0.0943	0.0943	2.9	0 K
2880 Winter	0.2	0.2	0.0653	0.0653	2.0	0 K
4320 Winter	0.1	0.1	0.0432	0.0432	1.3	0 K
5760 Winter	0.1	0.1	0.0352	0.0352	1.1	0 K
7200 Winter	0.1	0.1	0.0302	0.0302	0.9	0 K
8640 Winter	0.1	0.1	0.0262	0.0262	0.8	0 K
10080 Winter	0.1	0.1	0.0232	0.0232	0.7	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
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15 Summer	55.95	18
30 Summer	36.15	33
60 Summer	22.43	62
120 Summer	13.57	122
180 Summer	10.04	180
240 Summer	8.09	218
360 Summer	5.94	278
480 Summer	4.77	342
600 Summer	4.02	410
720 Summer	3.50	480
960 Summer	2.81	616
1440 Summer	2.05	882
2160 Summer	1.50	1260
2880 Summer	1.20	1616
4320 Summer	0.88	2292
5760 Summer	0.70	2992
7200 Summer	0.59	3680
8640 Summer	0.51	4416
10080 Summer	0.46	5144
15 Winter	55.95	18
30 Winter	36.15	33
60 Winter	22.43	62
120 Winter	13.57	118
180 Winter	10.04	176
240 Winter	8.09	230
360 Winter	5.94	298
480 Winter	4.77	370
600 Winter	4.02	446
720 Winter	3.50	522
960 Winter	2.81	672
1440 Winter	2.05	952
2160 Winter	1.50	1324
2880 Winter	1.20	1668
4320 Winter	0.88	2292
5760 Winter	0.70	3008
7200 Winter	0.59	3736
8640 Winter	0.51	4416
10080 Winter	0.46	5152

Note:

1 in 10 year water
level below incoming
pipe invert level

Rainfall Details

Region	ENG+WAL	Cv (Summer)	0.750	Summer Storms	Yes
Return Period (years)	10	Cv (Winter)	0.840	Winter Storms	Yes
M5-60 (mm)	18.700	Shortest Storm (mins)	15	Climate Change %	+0
Ratio-R	0.400	Longest Storm (mins)	10080		

Time / Area Diagram

Total Area (ha) = 0.029

Time from:	(mins) to:	Area (ha)
0	4	0.029

Cellular Storage Details

Infil Coef - Base (m/hr) 0.036000 Safety Factor 2.0 Invert Level (m) 0.000
Infil Coef - Sides (m/hr) 0.036000 Porosity 0.95 Ground Level (m) 0.800

Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)
0.00	32.0	32.0	0.60	32.0	46.4	1.20	0.0	51.2	1.80	0.0	51.2	2.40	0.0	51.2
0.10	32.0	34.4	0.70	32.0	48.8	1.30	0.0	51.2	1.90	0.0	51.2	2.50	0.0	51.2
0.20	32.0	36.8	0.80	32.0	51.2	1.40	0.0	51.2	2.00	0.0	51.2			
0.30	32.0	39.2	0.90	0.0	51.2	1.50	0.0	51.2	2.10	0.0	51.2			
0.40	32.0	41.6	1.00	0.0	51.2	1.60	0.0	51.2	2.20	0.0	51.2			
0.50	32.0	44.0	1.10	0.0	51.2	1.70	0.0	51.2	2.30	0.0	51.2			

Note:
Infiltration Rate = 1 x 10 ⁻⁵mls
Area = 8.0 x 4.0m x 0.5m deep

Summary of Results for 30 year Return Period						
Half Drain Time : 373 minutes						
Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.2	0.2	0.1223	0.1223	3.7	0 K
30 Summer	0.2	0.2	0.1572	0.1572	4.8	0 K
60 Summer	0.2	0.2	0.1897	0.1897	5.8	0 K
120 Summer	0.2	0.2	0.2172	0.2172	6.6	0 K
180 Summer	0.2	0.2	0.2272	0.2272	6.9	0 K
240 Summer	0.2	0.2	0.2307	0.2307	7.0	0 K
360 Summer	0.2	0.2	0.2287	0.2287	6.9	0 K
480 Summer	0.2	0.2	0.2252	0.2252	6.8	0 K
600 Summer	0.2	0.2	0.2207	0.2207	6.7	0 K
720 Summer	0.2	0.2	0.2157	0.2157	6.6	0 K
960 Summer	0.2	0.2	0.2047	0.2047	6.2	0 K
1440 Summer	0.2	0.2	0.1822	0.1822	5.5	0 K
2160 Summer	0.2	0.2	0.1513	0.1513	4.6	0 K
2880 Summer	0.2	0.2	0.1243	0.1243	3.8	0 K
4320 Summer	0.2	0.2	0.0838	0.0838	2.5	0 K
5760 Summer	0.2	0.2	0.0583	0.0583	1.8	0 K
7200 Summer	0.2	0.2	0.0472	0.0472	1.4	0 K
8640 Summer	0.1	0.1	0.0417	0.0417	1.3	0 K
10080 Summer	0.1	0.1	0.0372	0.0372	1.1	0 K
15 Winter	0.2	0.2	0.1378	0.1378	4.2	0 K
30 Winter	0.2	0.2	0.1767	0.1767	5.4	0 K
60 Winter	0.2	0.2	0.2142	0.2142	6.5	0 K
120 Winter	0.2	0.2	0.2462	0.2462	7.5	0 K
180 Winter	0.2	0.2	0.2597	0.2597	7.9	0 K
240 Winter	0.2	0.2	0.2647	0.2647	8.1	0 K
360 Winter	0.2	0.2	0.2637	0.2637	8.0	0 K
480 Winter	0.2	0.2	0.2582	0.2582	7.8	0 K
600 Winter	0.2	0.2	0.2522	0.2522	7.7	0 K
720 Winter	0.2	0.2	0.2452	0.2452	7.5	0 K
960 Winter	0.2	0.2	0.2292	0.2292	7.0	0 K
1440 Winter	0.2	0.2	0.1952	0.1952	5.9	0 K
2160 Winter	0.2	0.2	0.1483	0.1483	4.5	0 K
2880 Winter	0.2	0.2	0.1093	0.1093	3.3	0 K
4320 Winter	0.2	0.2	0.0568	0.0568	1.7	0 K
5760 Winter	0.1	0.1	0.0432	0.0432	1.3	0 K
7200 Winter	0.1	0.1	0.0362	0.0362	1.1	0 K
8640 Winter	0.1	0.1	0.0317	0.0317	1.0	0 K
10080 Winter	0.1	0.1	0.0282	0.0282	0.9	0 K
Storm Duration (mins)	Rain (mm/hr)		Time-Peak (mins)			
15 Summer	70.81		19			
30 Summer	46.13		33			
60 Summer	28.76		62			
120 Summer	17.43		122			
180 Summer	12.87		182			
240 Summer	10.34		240			
360 Summer	7.55		306			
480 Summer	6.05		368			
600 Summer	5.08		432			
720 Summer	4.41		500			
960 Summer	3.52		636			
1440 Summer	2.57		908			
2160 Summer	1.87		1300			
2880 Summer	1.49		1672			
4320 Summer	1.08		2380			
5760 Summer	0.86		3056			
7200 Summer	0.72		3680			
8640 Summer	0.62		4416			
10080 Summer	0.55		5144			
15 Winter	70.81		18			
30 Winter	46.13		33			
60 Winter	28.76		62			
120 Winter	17.43		120			
180 Winter	12.87		178			
240 Winter	10.34		234			
360 Winter	7.55		340			
480 Winter	6.05		390			
600 Winter	5.08		464			
720 Winter	4.41		542			
960 Winter	3.52		694			
1440 Winter	2.57		982			
2160 Winter	1.87		1388			
2880 Winter	1.49		1760			
4320 Winter	1.08		2376			
5760 Winter	0.86		3000			
7200 Winter	0.72		3744			
8640 Winter	0.62		4416			
10080 Winter	0.55		5144			

Green Park Village
Lake View Villas
Soakaway

Designed By	CMB
Checked By	

Source Control W.11.4 net



Half Drain Time : 489 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.2	0.2	0.1597	0.1597	4.8	OK
30 Summer	0.2	0.2	0.2072	0.2072	6.3	OK
60 Summer	0.2	0.2	0.2532	0.2532	7.7	OK
120 Summer	0.2	0.2	0.2932	0.2932	8.9	OK
180 Summer	0.2	0.2	0.3097	0.3097	9.4	OK
240 Summer	0.2	0.2	0.3162	0.3162	9.6	OK
360 Summer	0.2	0.2	0.3152	0.3152	9.6	OK
480 Summer	0.2	0.2	0.3107	0.3107	9.4	OK
600 Summer	0.2	0.2	0.3047	0.3047	9.3	OK
720 Summer	0.2	0.2	0.2987	0.2987	9.1	OK
960 Summer	0.2	0.2	0.2857	0.2857	8.7	OK
1440 Summer	0.2	0.2	0.2597	0.2597	7.9	OK
2160 Summer	0.2	0.2	0.2222	0.2222	6.8	OK
2880 Summer	0.2	0.2	0.1892	0.1892	5.8	OK
4320 Summer	0.2	0.2	0.1348	0.1348	4.1	OK
5760 Summer	0.2	0.2	0.0953	0.0953	2.9	OK
7200 Summer	0.2	0.2	0.0678	0.0678	2.1	OK
8640 Summer	0.2	0.2	0.0517	0.0517	1.6	OK
10080 Summer	0.2	0.2	0.0462	0.0462	1.4	OK
15 Winter	0.2	0.2	0.1792	0.1792	5.4	OK
30 Winter	0.2	0.2	0.2327	0.2327	7.1	OK
60 Winter	0.2	0.2	0.2852	0.2852	8.7	OK
120 Winter	0.2	0.2	0.3317	0.3317	10.1	OK
180 Winter	0.2	0.2	0.3522	0.3522	10.7	OK
240 Winter	0.2	0.2	0.3617	0.3617	11.0	OK
360 Winter	0.2	0.2	0.3647	0.3647	11.1	OK
480 Winter	0.2	0.2	0.3597	0.3597	10.9	OK
600 Winter	0.2	0.2	0.3512	0.3512	10.7	OK
720 Winter	0.2	0.2	0.3437	0.3437	10.4	OK
960 Winter	0.2	0.2	0.3262	0.3262	9.9	OK
1440 Winter	0.2	0.2	0.2882	0.2882	8.8	OK
2160 Winter	0.2	0.2	0.2332	0.2332	7.1	OK
2880 Winter	0.2	0.2	0.1842	0.1842	5.6	OK
4320 Winter	0.2	0.2	0.1068	0.1068	3.2	OK
5760 Winter	0.2	0.2	0.0583	0.0583	1.8	OK
7200 Winter	0.2	0.2	0.0452	0.0452	1.4	OK
8640 Winter	0.1	0.1	0.0392	0.0392	1.2	OK
10080 Winter	0.1	0.1	0.0347	0.0347	1.0	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	91.67	19
30 Summer	60.26	33
60 Summer	37.78	62
120 Summer	22.92	122
180 Summer	16.90	182
240 Summer	13.54	242
360 Summer	9.83	352
480 Summer	7.84	404
600 Summer	6.57	464
720 Summer	5.69	528
960 Summer	4.52	664
1440 Summer	3.27	938
2160 Summer	2.36	1340
2880 Summer	1.87	1728
4320 Summer	1.35	2464
5760 Summer	1.07	3168
7200 Summer	0.89	3824
8640 Summer	0.77	4416
10080 Summer	0.68	5144
15 Winter	91.67	19
30 Winter	60.26	33
60 Winter	37.78	62
120 Winter	22.92	120
180 Winter	16.90	178
240 Winter	13.54	236
360 Winter	9.83	346
480 Winter	7.84	452
600 Winter	6.57	494
720 Winter	5.69	564
960 Winter	4.52	716
1440 Winter	3.27	1022
2160 Winter	2.36	1448
2880 Winter	1.87	1844
4320 Winter	1.35	2552
5760 Winter	1.07	3168
7200 Winter	0.89	3720
8640 Winter	0.77	4464
10080 Winter	0.68	5184

Green Park Village
Lake View Villas
Soakaway

Designed By	CMB
Checked By	

Source Control W.11.4 net



Half Drain Time : 618 minutes

Storm Duration (mins)		Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer		0.2	0.2	0.2082	0.2082	6.3	OK
30 Summer		0.2	0.2	0.2712	0.2712	8.2	OK
60 Summer		0.2	0.2	0.3327	0.3327	10.1	OK
120 Summer		0.2	0.2	0.3887	0.3887	11.8	OK
180 Summer		0.2	0.2	0.4142	0.4142	12.6	OK
240 Summer		0.2	0.2	0.4267	0.4267	13.0	OK
360 Summer		0.2	0.2	0.4322	0.4322	13.1	OK
480 Summer		0.2	0.2	0.4282	0.4282	13.0	OK
600 Summer		0.2	0.2	0.4222	0.4222	12.8	OK
720 Summer		0.2	0.2	0.4162	0.4162	12.6	OK
960 Summer		0.2	0.2	0.4022	0.4022	12.2	OK
1440 Summer		0.2	0.2	0.3732	0.3732	11.3	OK
2160 Summer		0.2	0.2	0.3322	0.3322	10.1	OK
2880 Summer		0.2	0.2	0.2942	0.2942	8.9	OK
4320 Summer		0.2	0.2	0.2287	0.2287	6.9	OK
5760 Summer		0.2	0.2	0.1747	0.1747	5.3	OK
7200 Summer		0.2	0.2	0.1318	0.1318	4.0	OK
8640 Summer		0.2	0.2	0.0988	0.0988	3.0	OK
10080 Summer		0.2	0.2	0.0743	0.0743	2.3	OK
15 Winter		0.2	0.2	0.2337	0.2337	7.1	OK
30 Winter		0.2	0.2	0.3047	0.3047	9.3	OK
60 Winter		0.2	0.2	0.3747	0.3747	11.4	OK
120 Winter		0.2	0.2	0.4392	0.4392	13.3	OK
180 Winter		0.2	0.2	0.4697	0.4697	14.3	OK
240 Winter		0.2	0.2	0.4862	0.4862	14.8	OK
360 Winter		0.2	0.2	0.4967	0.4967	15.1	OK
480 Winter		0.2	0.2	0.4967	0.4967	15.1	OK
600 Winter		0.2	0.2	0.4902	0.4902	14.9	OK
720 Winter		0.2	0.2	0.4807	0.4807	14.6	OK
960 Winter		0.2	0.2	0.4632	0.4632	14.1	OK
1440 Winter		0.2	0.2	0.4242	0.4242	12.9	OK
2160 Winter		0.2	0.2	0.3642	0.3642	11.1	OK
2880 Winter		0.2	0.2	0.3082	0.3082	9.4	OK
4320 Winter		0.2	0.2	0.2122	0.2122	6.5	OK
5760 Winter		0.2	0.2	0.1373	0.1373	4.2	OK
7200 Winter		0.2	0.2	0.0823	0.0823	2.5	OK
8640 Winter		0.2	0.2	0.0512	0.0512	1.6	OK
10080 Winter		0.1	0.1	0.0447	0.0447	1.4	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	119.17	19
30 Summer	78.33	34
60 Summer	49.11	64
120 Summer	29.80	122
180 Summer	21.97	182
240 Summer	17.60	242
360 Summer	12.78	360
480 Summer	10.19	458
600 Summer	8.54	510
720 Summer	7.39	570
960 Summer	5.88	694
1440 Summer	4.25	968
2160 Summer	3.07	1384
2880 Summer	2.43	1784
4320 Summer	1.75	2552
5760 Summer	1.39	3288
7200 Summer	1.16	3968
8640 Summer	1.00	4672
10080 Summer	0.88	5344
15 Winter	119.17	19
30 Winter	78.33	33
60 Winter	49.11	62
120 Winter	29.80	120
180 Winter	21.97	178
240 Winter	17.60	236
360 Winter	12.78	350
480 Winter	10.19	460
600 Winter	8.54	566
720 Winter	7.39	656
960 Winter	5.88	742
1440 Winter	4.25	1052
2160 Winter	3.07	1492
2880 Winter	2.43	1928
4320 Winter	1.75	2720
5760 Winter	1.39	3408
7200 Winter	1.16	4040
8640 Winter	1.00	4496
10080 Winter	0.88	5152