Summary of Results for 100 year Return Period (+40%)

Half Drain Time exceeds 7 days.

Outflow is too low. Design is unsatisfactory.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	10.286	0.086	0.0	0.0	0.0	9.2	O K
30 min Summer	10.313	0.113	0.0	0.0	0.0	13.3	O K
60 min Summer	10.344	0.144	0.0	0.0	0.0	17.8	O K
120 min Summer	10.377	0.177	0.0	0.0	0.0	22.8	O K
180 min Summer	10.397	0.197	0.0	0.0	0.0	25.8	O K
240 min Summer	10.410	0.210	0.0	0.0	0.0	27.8	O K
360 min Summer	10.431	0.231	0.0	0.0	0.0	31.0	O K
480 min Summer	10.447	0.247	0.0	0.0	0.0	33.3	O K
600 min Summer	10.460	0.260	0.0	0.0	0.0	35.2	O K
720 min Summer	10.470	0.270	0.0	0.0	0.0	36.8	O K
960 min Summer	10.488	0.288	0.0	0.0	0.0	39.4	O K
1440 min Summer	10.512	0.312	0.0	0.0	0.0	43.1	O K
2160 min Summer	10.537	0.337	0.0	0.0	0.0	46.9	O K
2880 min Summer	10.555	0.355	0.0	0.0	0.0	49.5	O K
4320 min Summer	10.578	0.378	0.0	0.0	0.0	53.0	O K
5760 min Summer	10.593	0.393	0.0	0.0	0.0	55.3	O K
7200 min Summer	10.604	0.404	0.0	0.0	0.0	56.9	O K
8640 min Summer	10.612	0.412	0.0	0.0	0.0	58.1	O K
10080 min Summer	10.618	0.418	0.0	0.0	0.0	58.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	124.544	0.0	0.0	19
30 min Summer	84.215	0.0	0.0	34
60 min Summer	54.368	0.0	0.0	64
120 min Summer	33.870	0.0	0.0	124
180 min Summer	25.280	0.0	0.0	184
240 min Summer	20.382	0.0	0.0	244
360 min Summer	15.043	0.0	0.0	364
480 min Summer	12.112	0.0	0.0	484
600 min Summer	10.228	0.0	0.0	604
720 min Summer	8.904	0.0	0.0	724
960 min Summer	7.147	0.0	0.0	964
1440 min Summer	5.233	0.0	0.0	1444
2160 min Summer	3.822	0.0	0.0	2164
2880 min Summer	3.054	0.0	0.0	2884
4320 min Summer	2.222	0.0	0.0	4324
5760 min Summer	1.771	0.0	0.0	5768
7200 min Summer	1.486	0.0	0.0	7208
8640 min Summer	1.288	0.0	0.0	8648
10080 min Summer	1.142	0.0	0.0	10088

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Winter	10.295	0.095	0.0	0.0	0.0	10.6	O K
30 min Winter	10.326	0.126	0.0	0.0	0.0	15.2	O K
60 min Winter	10.360	0.160	0.0	0.0	0.0	20.3	O K
120 min Winter	10.397	0.197	0.0	0.0	0.0	25.8	O K
180 min Winter	10.419	0.219	0.0	0.0	0.0	29.2	O K
240 min Winter	10.435	0.235	0.0	0.0	0.0	31.5	O K
360 min Winter	10.459	0.259	0.0	0.0	0.0	35.0	O K
480 min Winter	10.476	0.276	0.0	0.0	0.0	37.7	O K
600 min Winter	10.491	0.291	0.0	0.0	0.0	39.8	O K
720 min Winter	10.503	0.303	0.0	0.0	0.0	41.6	O K
960 min Winter	10.522	0.322	0.0	0.0	0.0	44.5	O K
1440 min Winter	10.550	0.350	0.0	0.0	0.0	48.7	O K
2160 min Winter	10.579	0.379	0.0	0.0	0.0	53.1	O K
2880 min Winter	10.599	0.399	0.0	0.0	0.0	56.1	O K
4320 min Winter	10.627	0.427	0.0	0.0	0.0	60.3	O K
5760 min Winter	10.645	0.445	0.0	0.0	0.0	63.0	O K
7200 min Winter	10.658	0.458	0.0	0.0	0.0	65.0	O K
8640 min Winter	10.669	0.469	0.0	0.0	0.0	66.6	O K
10080 min Winter	10.677	0.477	0.0	0.0	0.0	67.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Winter	124.544	0.0	0.0	19
30 min Winter	84.215	0.0	0.0	34
60 min Winter	54.368	0.0	0.0	64
120 min Winter	33.870	0.0	0.0	124
180 min Winter	25.280	0.0	0.0	184
240 min Winter	20.382	0.0	0.0	244
360 min Winter	15.043	0.0	0.0	364
480 min Winter	12.112	0.0	0.0	484
600 min Winter	10.228	0.0	0.0	604
720 min Winter	8.904	0.0	0.0	722
960 min Winter	7.147	0.0	0.0	962
1440 min Winter	5.233	0.0	0.0	1442
2160 min Winter	3.822	0.0	0.0	2144
2880 min Winter	3.054	0.0	0.0	2856
4320 min Winter	2.222	0.0	0.0	4280
5760 min Winter	1.771	0.0	0.0	5712
7200 min Winter	1.486	0.0	0.0	7136
8640 min Winter	1.288	0.0	0.0	8560
10080 min Winter	1.142	0.0	0.0	9888

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Model Details

Storage is Online Cover Level (m) 10.750

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	10.0
Membrane Percolation (mm/hr)	1000	Length (m)	50.0
Max Percolation (l/s)	138.9	Slope (1:X)	1000.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	10.200	Cap Volume Depth (m)	0.500

Weir Outflow Control

Discharge Coef 0.544 Width (m) 1.000 Invert Level (m) 10.750

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