

Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 1 year Return Period

Half Drain Time : 73 minutes.

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	49.285	0.035	0.0	0.2	0.2	0.8	O K
30 min Summer	49.297	0.047	0.0	0.2	0.2	1.1	O K
60 min Summer	49.307	0.057	0.0	0.2	0.2	1.4	O K
120 min Summer	49.314	0.064	0.0	0.2	0.2	1.5	O K
180 min Summer	49.317	0.067	0.0	0.2	0.2	1.6	O K
240 min Summer	49.317	0.067	0.0	0.2	0.2	1.6	O K
360 min Summer	49.314	0.064	0.0	0.2	0.2	1.5	O K
480 min Summer	49.311	0.061	0.0	0.2	0.2	1.4	O K
600 min Summer	49.307	0.057	0.0	0.2	0.2	1.3	O K
720 min Summer	49.303	0.053	0.0	0.2	0.2	1.3	O K
960 min Summer	49.297	0.047	0.0	0.2	0.2	1.1	O K
1440 min Summer	49.287	0.037	0.0	0.2	0.2	0.9	O K
2160 min Summer	49.276	0.026	0.0	0.2	0.2	0.6	O K
2880 min Summer	49.269	0.019	0.0	0.1	0.1	0.5	O K
4320 min Summer	49.262	0.012	0.0	0.1	0.1	0.3	O K
5760 min Summer	49.258	0.008	0.0	0.1	0.1	0.2	O K
7200 min Summer	49.256	0.006	0.0	0.1	0.1	0.1	O K
8640 min Summer	49.254	0.004	0.0	0.1	0.1	0.1	O K
10080 min Summer	49.253	0.003	0.0	0.1	0.1	0.1	O K
15 min Winter	49.285	0.035	0.0	0.2	0.2	0.8	O K
30 min Winter	49.297	0.047	0.0	0.2	0.2	1.1	O K
60 min Winter	49.307	0.057	0.0	0.2	0.2	1.4	O K
120 min Winter	49.313	0.063	0.0	0.2	0.2	1.5	O K
180 min Winter	49.315	0.065	0.0	0.2	0.2	1.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	29.648	0.0	0.9	17
30 min Summer	19.726	0.0	1.3	31
60 min Summer	12.800	0.0	1.8	56
120 min Summer	8.156	0.0	2.3	88
180 min Summer	6.242	0.0	2.7	122
240 min Summer	5.155	0.0	3.0	156
360 min Summer	3.898	0.0	3.4	226
480 min Summer	3.196	0.0	3.8	292
600 min Summer	2.740	0.0	4.1	356
720 min Summer	2.417	0.0	4.3	420
960 min Summer	1.983	0.0	4.7	548
1440 min Summer	1.501	0.0	5.4	794
2160 min Summer	1.134	0.0	6.0	1148
2880 min Summer	0.930	0.0	6.6	1504
4320 min Summer	0.704	0.0	7.4	2208
5760 min Summer	0.578	0.0	8.0	2936
7200 min Summer	0.495	0.0	8.5	3672
8640 min Summer	0.436	0.0	8.9	4400
10080 min Summer	0.391	0.0	9.2	5136
15 min Winter	29.648	0.0	0.9	17
30 min Winter	19.726	0.0	1.3	31
60 min Winter	12.800	0.0	1.8	58
120 min Winter	8.156	0.0	2.3	92
180 min Winter	6.242	0.0	2.7	130

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 1 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.314	0.064	0.0	0.2	0.2	1.5	O K
360 min Winter	49.308	0.058	0.0	0.2	0.2	1.4	O K
480 min Winter	49.303	0.053	0.0	0.2	0.2	1.2	O K
600 min Winter	49.297	0.047	0.0	0.2	0.2	1.1	O K
720 min Winter	49.292	0.042	0.0	0.2	0.2	1.0	O K
960 min Winter	49.284	0.034	0.0	0.2	0.2	0.8	O K
1440 min Winter	49.273	0.023	0.0	0.1	0.1	0.5	O K
2160 min Winter	49.263	0.013	0.0	0.1	0.1	0.3	O K
2880 min Winter	49.259	0.009	0.0	0.1	0.1	0.2	O K
4320 min Winter	49.255	0.005	0.0	0.1	0.1	0.1	O K
5760 min Winter	49.252	0.002	0.0	0.1	0.1	0.0	O K
7200 min Winter	49.251	0.001	0.0	0.1	0.1	0.0	O K
8640 min Winter	49.250	0.000	0.0	0.0	0.0	0.0	O K
10080 min Winter	49.250	0.000	0.0	0.0	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	5.155	0.0	3.0	168
360 min Winter	3.898	0.0	3.4	240
480 min Winter	3.196	0.0	3.8	308
600 min Winter	2.740	0.0	4.1	374
720 min Winter	2.417	0.0	4.3	440
960 min Winter	1.983	0.0	4.7	568
1440 min Winter	1.501	0.0	5.4	810
2160 min Winter	1.134	0.0	6.0	1152
2880 min Winter	0.930	0.0	6.6	1496
4320 min Winter	0.704	0.0	7.4	2208
5760 min Winter	0.578	0.0	8.0	2936
7200 min Winter	0.495	0.0	8.5	3712
8640 min Winter	0.436	0.0	8.9	0
10080 min Winter	0.391	0.0	9.2	0

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	1	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.950

Complex Structure

Porous Car Park

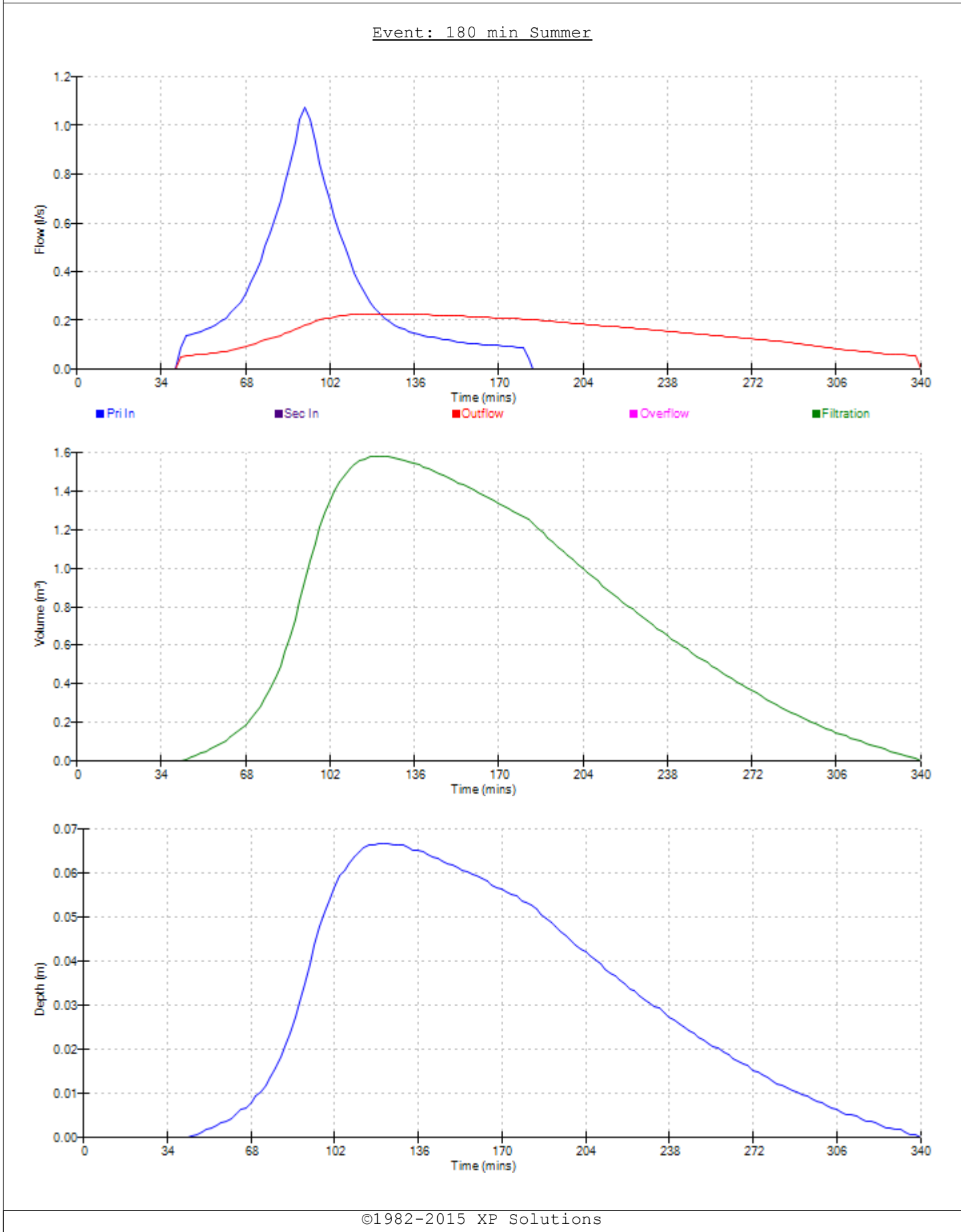
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.250	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.550	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.233



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 30 year Return Period

Half Drain Time : 123 minutes.

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	49.354	0.104	0.0	0.3	0.3	2.5	O K
30 min Summer	49.387	0.137	0.0	0.3	0.3	3.2	O K
60 min Summer	49.414	0.164	0.0	0.3	0.3	3.9	O K
120 min Summer	49.429	0.179	0.0	0.4	0.4	4.2	O K
180 min Summer	49.432	0.182	0.0	0.4	0.4	4.3	O K
240 min Summer	49.432	0.182	0.0	0.4	0.4	4.3	O K
360 min Summer	49.427	0.177	0.0	0.4	0.4	4.2	O K
480 min Summer	49.419	0.169	0.0	0.4	0.4	4.0	O K
600 min Summer	49.411	0.161	0.0	0.3	0.3	3.8	O K
720 min Summer	49.403	0.153	0.0	0.3	0.3	3.6	O K
960 min Summer	49.388	0.138	0.0	0.3	0.3	3.3	O K
1440 min Summer	49.363	0.113	0.0	0.3	0.3	2.7	O K
2160 min Summer	49.336	0.086	0.0	0.3	0.3	2.0	O K
2880 min Summer	49.318	0.068	0.0	0.2	0.2	1.6	O K
4320 min Summer	49.294	0.044	0.0	0.2	0.2	1.0	O K
5760 min Summer	49.280	0.030	0.0	0.2	0.2	0.7	O K
7200 min Summer	49.272	0.022	0.0	0.1	0.1	0.5	O K
8640 min Summer	49.266	0.016	0.0	0.1	0.1	0.4	O K
10080 min Summer	49.262	0.012	0.0	0.1	0.1	0.3	O K
15 min Winter	49.355	0.105	0.0	0.3	0.3	2.5	O K
30 min Winter	49.387	0.137	0.0	0.3	0.3	3.3	O K
60 min Winter	49.415	0.165	0.0	0.3	0.3	3.9	O K
120 min Winter	49.429	0.179	0.0	0.4	0.4	4.3	O K
180 min Winter	49.431	0.181	0.0	0.4	0.4	4.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	72.682	0.0	2.6	18
30 min Summer	48.363	0.0	3.6	32
60 min Summer	30.811	0.0	4.7	60
120 min Summer	19.036	0.0	5.8	102
180 min Summer	14.191	0.0	6.5	132
240 min Summer	11.467	0.0	7.0	166
360 min Summer	8.493	0.0	7.9	236
480 min Summer	6.855	0.0	8.5	304
600 min Summer	5.801	0.0	9.0	372
720 min Summer	5.059	0.0	9.4	440
960 min Summer	4.074	0.0	10.1	568
1440 min Summer	2.998	0.0	11.1	822
2160 min Summer	2.203	0.0	12.2	1188
2880 min Summer	1.769	0.0	13.0	1556
4320 min Summer	1.297	0.0	14.2	2252
5760 min Summer	1.040	0.0	15.1	2992
7200 min Summer	0.876	0.0	15.8	3680
8640 min Summer	0.762	0.0	16.4	4408
10080 min Summer	0.677	0.0	16.9	5136
15 min Winter	72.682	0.0	2.6	18
30 min Winter	48.363	0.0	3.6	32
60 min Winter	30.811	0.0	4.7	60
120 min Winter	19.036	0.0	5.8	112
180 min Winter	14.191	0.0	6.5	140

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.429	0.179	0.0	0.4	0.4	4.2	O K
360 min Winter	49.419	0.169	0.0	0.4	0.4	4.0	O K
480 min Winter	49.408	0.158	0.0	0.3	0.3	3.7	O K
600 min Winter	49.396	0.146	0.0	0.3	0.3	3.5	O K
720 min Winter	49.385	0.135	0.0	0.3	0.3	3.2	O K
960 min Winter	49.365	0.115	0.0	0.3	0.3	2.7	O K
1440 min Winter	49.336	0.086	0.0	0.3	0.3	2.0	O K
2160 min Winter	49.307	0.057	0.0	0.2	0.2	1.4	O K
2880 min Winter	49.289	0.039	0.0	0.2	0.2	0.9	O K
4320 min Winter	49.271	0.021	0.0	0.1	0.1	0.5	O K
5760 min Winter	49.262	0.012	0.0	0.1	0.1	0.3	O K
7200 min Winter	49.258	0.008	0.0	0.1	0.1	0.2	O K
8640 min Winter	49.256	0.006	0.0	0.1	0.1	0.1	O K
10080 min Winter	49.254	0.004	0.0	0.1	0.1	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	11.467	0.0	7.1	178
360 min Winter	8.493	0.0	7.9	254
480 min Winter	6.855	0.0	8.5	326
600 min Winter	5.801	0.0	9.0	396
720 min Winter	5.059	0.0	9.4	464
960 min Winter	4.074	0.0	10.1	598
1440 min Winter	2.998	0.0	11.1	852
2160 min Winter	2.203	0.0	12.2	1216
2880 min Winter	1.769	0.0	13.0	1584
4320 min Winter	1.297	0.0	14.2	2288
5760 min Winter	1.040	0.0	15.1	2944
7200 min Winter	0.876	0.0	15.8	3680
8640 min Winter	0.762	0.0	16.4	4320
10080 min Winter	0.677	0.0	16.9	5144

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.950

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.250	Cap Volume Depth (m)	0.300

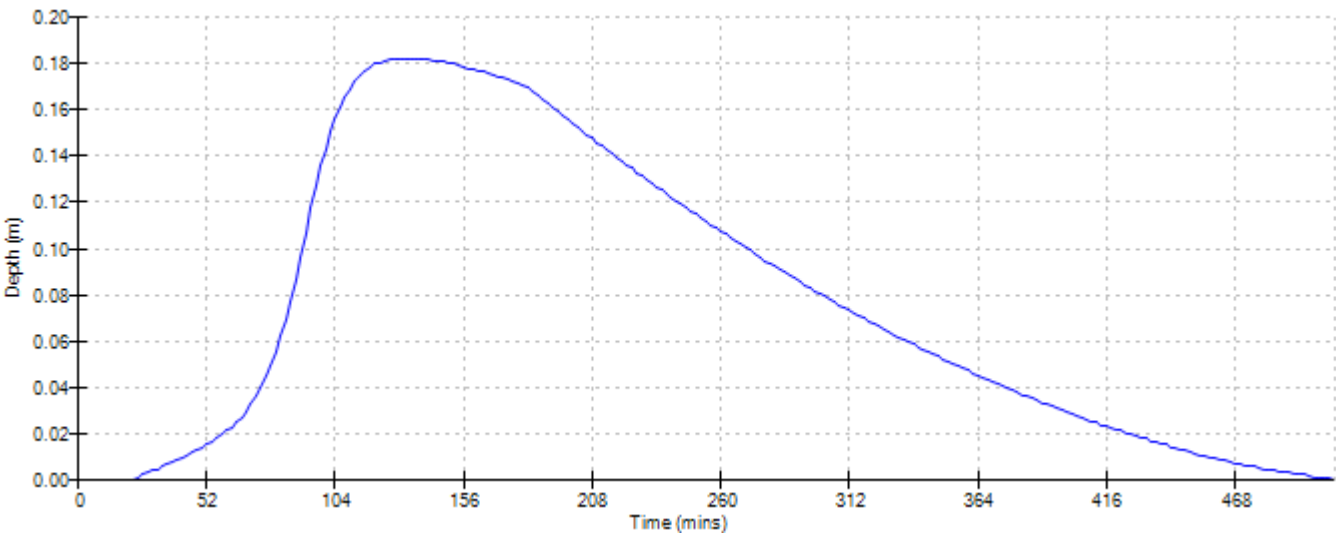
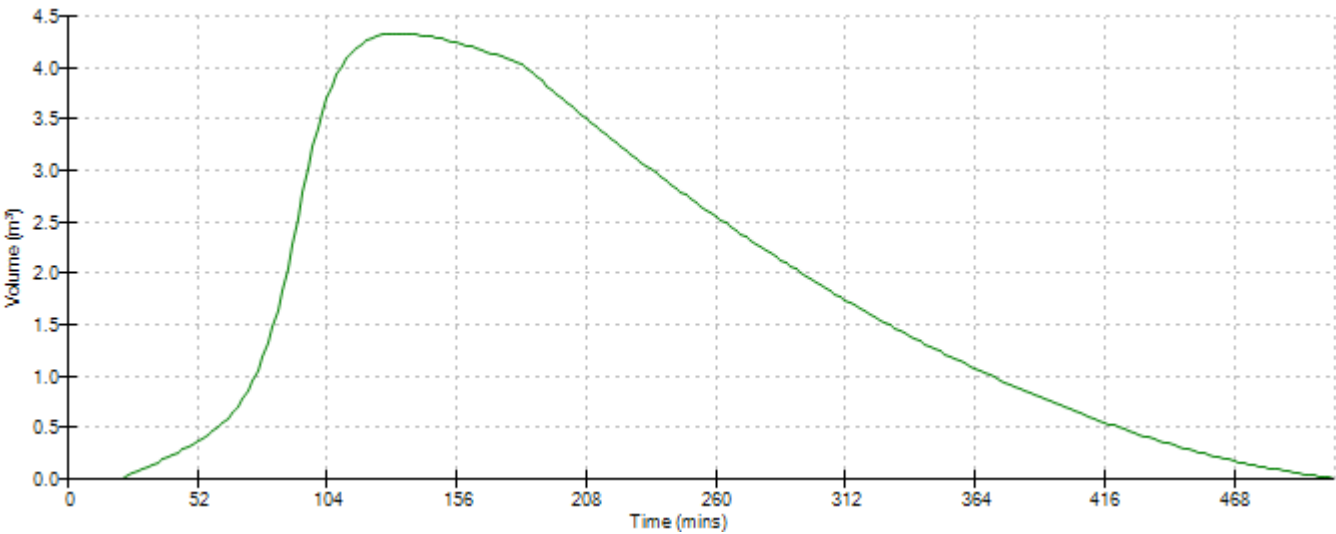
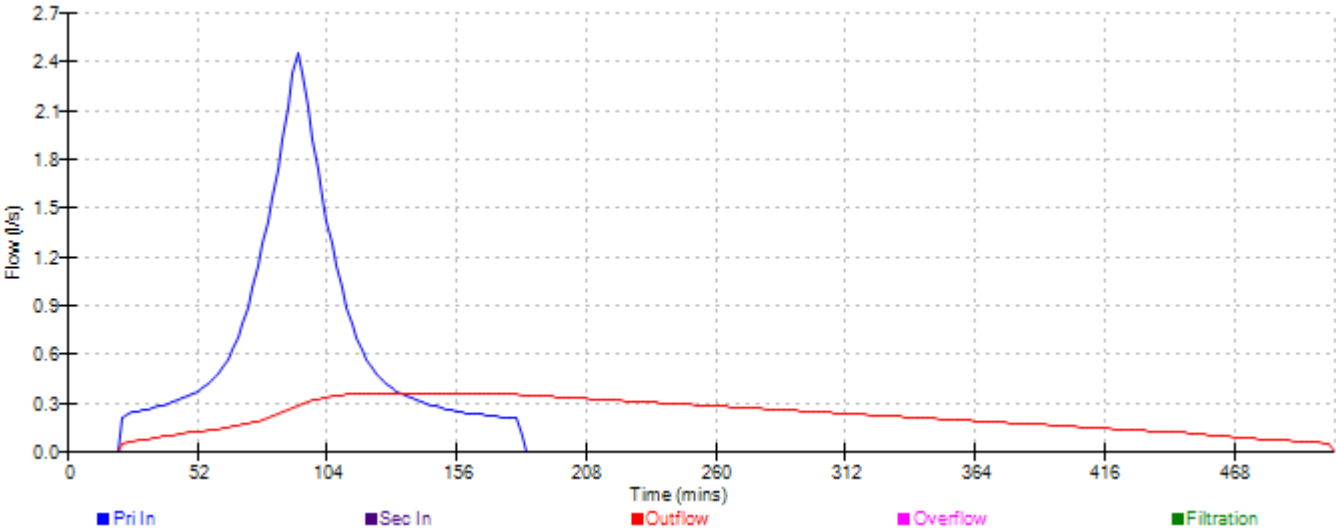
Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.550	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.233

Event: 180 min Summer



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 100 year Return Period

Half Drain Time : 145 minutes.

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	49.389	0.139	0.0	0.3	0.3	3.3	O K
30 min Summer	49.434	0.184	0.0	0.4	0.4	4.4	O K
60 min Summer	49.473	0.223	0.0	0.4	0.4	5.3	O K
120 min Summer	49.496	0.246	0.0	0.4	0.4	5.8	O K
180 min Summer	49.500	0.250	0.0	0.4	0.4	5.9	O K
240 min Summer	49.499	0.249	0.0	0.4	0.4	5.9	O K
360 min Summer	49.493	0.243	0.0	0.4	0.4	5.8	O K
480 min Summer	49.483	0.233	0.0	0.4	0.4	5.5	O K
600 min Summer	49.473	0.223	0.0	0.4	0.4	5.3	O K
720 min Summer	49.462	0.212	0.0	0.4	0.4	5.0	O K
960 min Summer	49.442	0.192	0.0	0.4	0.4	4.6	O K
1440 min Summer	49.409	0.159	0.0	0.3	0.3	3.8	O K
2160 min Summer	49.373	0.123	0.0	0.3	0.3	2.9	O K
2880 min Summer	49.348	0.098	0.0	0.3	0.3	2.3	O K
4320 min Summer	49.315	0.065	0.0	0.2	0.2	1.5	O K
5760 min Summer	49.296	0.046	0.0	0.2	0.2	1.1	O K
7200 min Summer	49.283	0.033	0.0	0.2	0.2	0.8	O K
8640 min Summer	49.275	0.025	0.0	0.1	0.1	0.6	O K
10080 min Summer	49.269	0.019	0.0	0.1	0.1	0.5	O K
15 min Winter	49.390	0.140	0.0	0.3	0.3	3.3	O K
30 min Winter	49.435	0.185	0.0	0.4	0.4	4.4	O K
60 min Winter	49.474	0.224	0.0	0.4	0.4	5.3	O K
120 min Winter	49.497	0.247	0.0	0.4	0.4	5.9	O K
180 min Winter	49.499	0.249	0.0	0.4	0.4	5.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	94.179	0.0	3.5	18
30 min Summer	63.261	0.0	4.8	32
60 min Summer	40.510	0.0	6.2	62
120 min Summer	25.003	0.0	7.7	108
180 min Summer	18.552	0.0	8.6	138
240 min Summer	14.912	0.0	9.3	172
360 min Summer	10.975	0.0	10.2	240
480 min Summer	8.815	0.0	11.0	310
600 min Summer	7.430	0.0	11.6	378
720 min Summer	6.458	0.0	12.1	444
960 min Summer	5.172	0.0	12.9	578
1440 min Summer	3.774	0.0	14.1	836
2160 min Summer	2.748	0.0	15.3	1208
2880 min Summer	2.192	0.0	16.3	1560
4320 min Summer	1.590	0.0	17.6	2288
5760 min Summer	1.265	0.0	18.6	3000
7200 min Summer	1.060	0.0	19.3	3680
8640 min Summer	0.917	0.0	20.0	4416
10080 min Summer	0.812	0.0	20.5	5144
15 min Winter	94.179	0.0	3.5	18
30 min Winter	63.261	0.0	4.8	32
60 min Winter	40.510	0.0	6.2	60
120 min Winter	25.003	0.0	7.7	114
180 min Winter	18.552	0.0	8.6	144

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.497	0.247	0.0	0.4	0.4	5.9	O K
360 min Winter	49.485	0.235	0.0	0.4	0.4	5.6	O K
480 min Winter	49.471	0.221	0.0	0.4	0.4	5.2	O K
600 min Winter	49.456	0.206	0.0	0.4	0.4	4.9	O K
720 min Winter	49.442	0.192	0.0	0.4	0.4	4.6	O K
960 min Winter	49.416	0.166	0.0	0.3	0.3	3.9	O K
1440 min Winter	49.376	0.126	0.0	0.3	0.3	3.0	O K
2160 min Winter	49.336	0.086	0.0	0.3	0.3	2.0	O K
2880 min Winter	49.311	0.061	0.0	0.2	0.2	1.5	O K
4320 min Winter	49.284	0.034	0.0	0.2	0.2	0.8	O K
5760 min Winter	49.270	0.020	0.0	0.1	0.1	0.5	O K
7200 min Winter	49.262	0.012	0.0	0.1	0.1	0.3	O K
8640 min Winter	49.259	0.009	0.0	0.1	0.1	0.2	O K
10080 min Winter	49.257	0.007	0.0	0.1	0.1	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	14.912	0.0	9.3	182
360 min Winter	10.975	0.0	10.2	258
480 min Winter	8.815	0.0	11.0	332
600 min Winter	7.430	0.0	11.6	404
720 min Winter	6.458	0.0	12.1	472
960 min Winter	5.172	0.0	12.9	608
1440 min Winter	3.774	0.0	14.1	866
2160 min Winter	2.748	0.0	15.3	1236
2880 min Winter	2.192	0.0	16.3	1588
4320 min Winter	1.590	0.0	17.6	2292
5760 min Winter	1.265	0.0	18.6	3000
7200 min Winter	1.060	0.0	19.3	3680
8640 min Winter	0.917	0.0	20.0	4408
10080 min Winter	0.812	0.0	20.5	5016

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.950

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.250	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.550	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.233

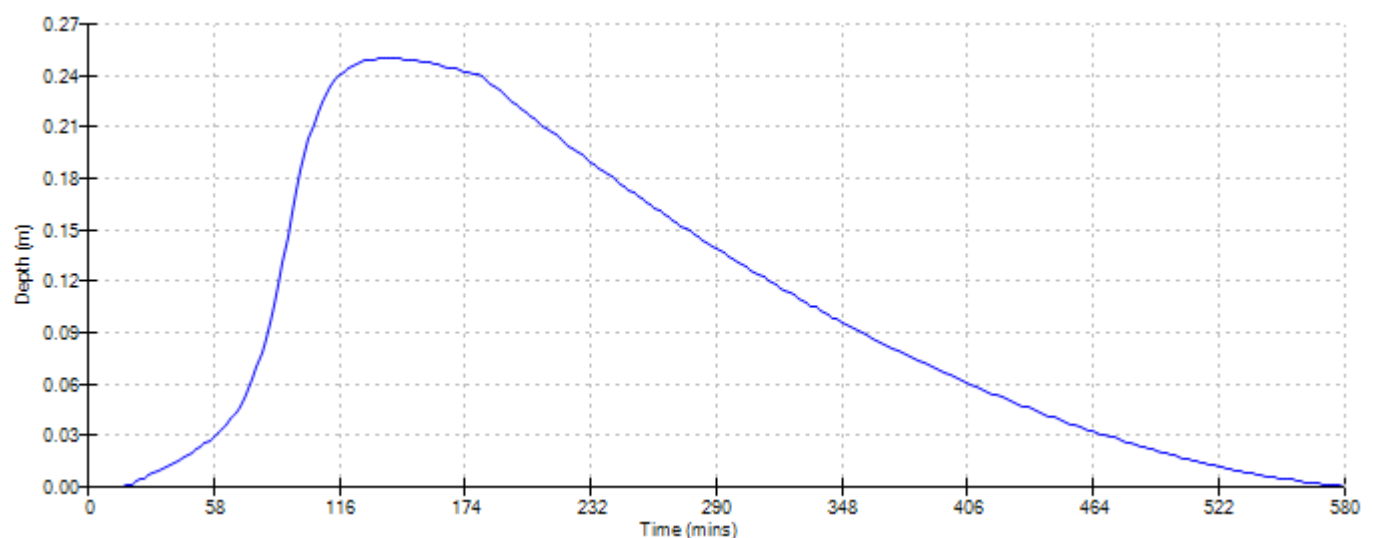
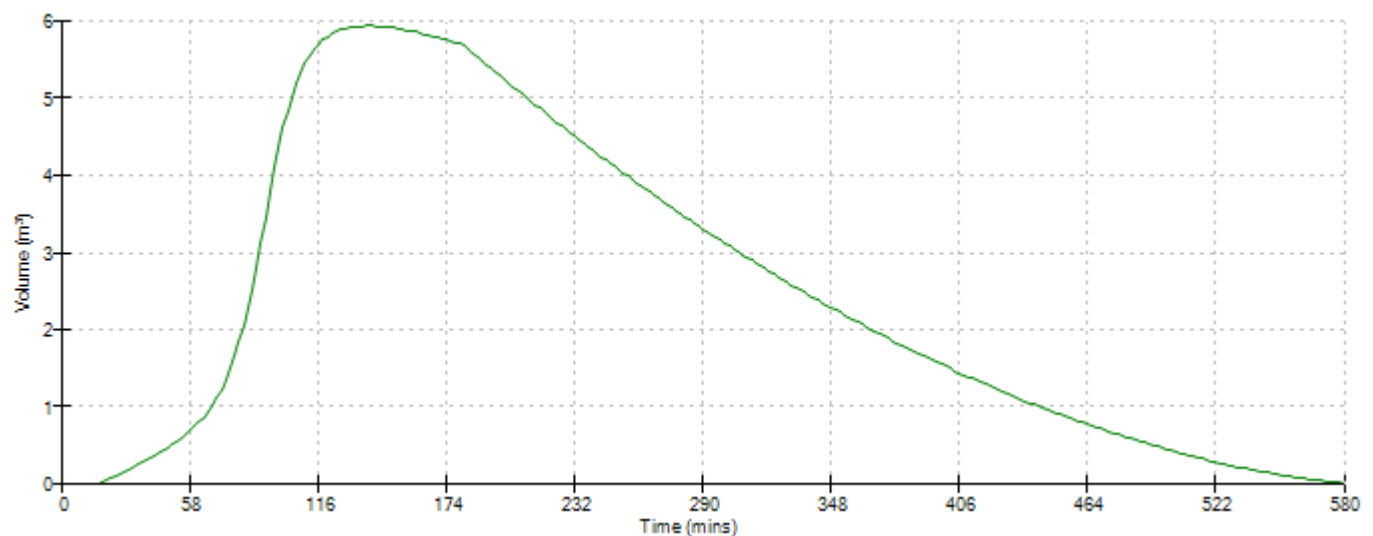
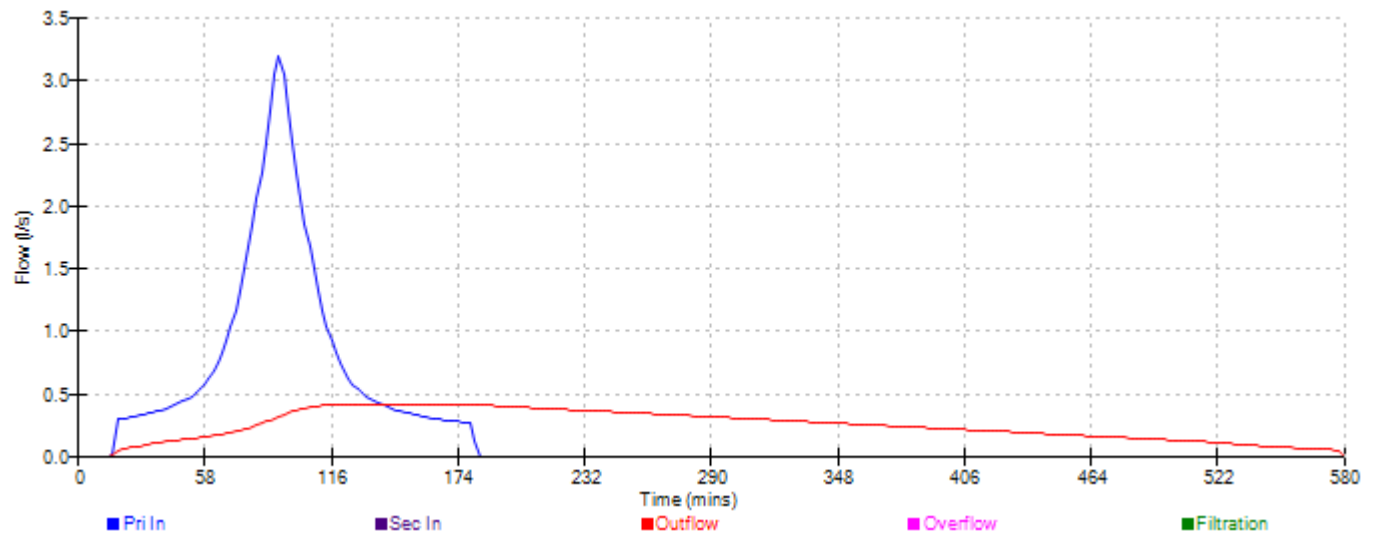
27 Knowle Drive,
Copthorne,
Crawley RH10 3LW

Designed by IN

Checked by RS

Source Control 2015.1

Event: 180 min Summer



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

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

Half Drain Time : 158 minutes.

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	49.451	0.201	0.0	0.4	0.4	4.8	O K
30 min Summer	49.516	0.266	0.0	0.4	0.4	6.3	O K
60 min Summer	49.624	0.374	0.0	0.5	0.5	7.7	O K
120 min Summer	49.725	0.475	0.0	0.6	0.6	8.4	Flood Risk
180 min Summer	49.748	0.498	0.0	0.6	0.6	8.6	Flood Risk
240 min Summer	49.750	0.500	0.0	0.6	0.6	8.6	Flood Risk
360 min Summer	49.734	0.484	0.0	0.6	0.6	8.5	Flood Risk
480 min Summer	49.704	0.454	0.0	0.6	0.6	8.3	Flood Risk
600 min Summer	49.668	0.418	0.0	0.5	0.5	8.0	Flood Risk
720 min Summer	49.632	0.382	0.0	0.5	0.5	7.7	O K
960 min Summer	49.560	0.310	0.0	0.5	0.5	7.2	O K
1440 min Summer	49.509	0.259	0.0	0.4	0.4	6.1	O K
2160 min Summer	49.457	0.207	0.0	0.4	0.4	4.9	O K
2880 min Summer	49.420	0.170	0.0	0.4	0.4	4.0	O K
4320 min Summer	49.369	0.119	0.0	0.3	0.3	2.8	O K
5760 min Summer	49.337	0.087	0.0	0.3	0.3	2.1	O K
7200 min Summer	49.317	0.067	0.0	0.2	0.2	1.6	O K
8640 min Summer	49.302	0.052	0.0	0.2	0.2	1.2	O K
10080 min Summer	49.292	0.042	0.0	0.2	0.2	1.0	O K
15 min Winter	49.451	0.201	0.0	0.4	0.4	4.8	O K
30 min Winter	49.516	0.266	0.0	0.4	0.4	6.3	O K
60 min Winter	49.628	0.378	0.0	0.5	0.5	7.7	O K
120 min Winter	49.735	0.485	0.0	0.6	0.6	8.5	Flood Risk
180 min Winter	49.750	0.500	0.0	0.6	0.6	8.6	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	131.851	0.0	5.0	18
30 min Summer	88.566	0.0	6.8	33
60 min Summer	56.713	0.0	8.8	62
120 min Summer	35.004	0.0	10.9	110
180 min Summer	25.973	0.0	12.2	138
240 min Summer	20.877	0.0	13.1	172
360 min Summer	15.365	0.0	14.5	240
480 min Summer	12.341	0.0	15.5	310
600 min Summer	10.402	0.0	16.3	380
720 min Summer	9.042	0.0	17.0	448
960 min Summer	7.241	0.0	18.2	586
1440 min Summer	5.284	0.0	19.9	850
2160 min Summer	3.848	0.0	21.7	1228
2880 min Summer	3.068	0.0	23.0	1588
4320 min Summer	2.226	0.0	24.9	2296
5760 min Summer	1.771	0.0	26.3	3048
7200 min Summer	1.483	0.0	27.5	3744
8640 min Summer	1.284	0.0	28.4	4488
10080 min Summer	1.137	0.0	29.3	5144
15 min Winter	131.851	0.0	5.0	18
30 min Winter	88.566	0.0	6.8	32
60 min Winter	56.713	0.0	8.8	60
120 min Winter	35.004	0.0	10.9	114
180 min Winter	25.973	0.0	12.2	142

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

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
240 min Winter	49.746	0.496	0.0	0.6	0.6	8.6	Flood Risk
360 min Winter	49.714	0.464	0.0	0.6	0.6	8.4	Flood Risk
480 min Winter	49.667	0.417	0.0	0.5	0.5	8.0	Flood Risk
600 min Winter	49.617	0.367	0.0	0.5	0.5	7.6	O K
720 min Winter	49.566	0.316	0.0	0.5	0.5	7.2	O K
960 min Winter	49.521	0.271	0.0	0.4	0.4	6.4	O K
1440 min Winter	49.464	0.214	0.0	0.4	0.4	5.1	O K
2160 min Winter	49.405	0.155	0.0	0.3	0.3	3.7	O K
2880 min Winter	49.365	0.115	0.0	0.3	0.3	2.7	O K
4320 min Winter	49.319	0.069	0.0	0.2	0.2	1.6	O K
5760 min Winter	49.295	0.045	0.0	0.2	0.2	1.1	O K
7200 min Winter	49.280	0.030	0.0	0.2	0.2	0.7	O K
8640 min Winter	49.271	0.021	0.0	0.1	0.1	0.5	O K
10080 min Winter	49.265	0.015	0.0	0.1	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	20.877	0.0	13.1	182
360 min Winter	15.365	0.0	14.5	258
480 min Winter	12.341	0.0	15.5	334
600 min Winter	10.402	0.0	16.3	408
720 min Winter	9.042	0.0	17.0	482
960 min Winter	7.241	0.0	18.2	624
1440 min Winter	5.284	0.0	19.9	892
2160 min Winter	3.848	0.0	21.7	1272
2880 min Winter	3.068	0.0	23.0	1640
4320 min Winter	2.226	0.0	24.9	2336
5760 min Winter	1.771	0.0	26.3	3048
7200 min Winter	1.483	0.0	27.5	3752
8640 min Winter	1.284	0.0	28.4	4488
10080 min Winter	1.137	0.0	29.3	5152

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP1.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.950

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.250	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.550	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.233

27 Knowle Drive,
Cophthorne,
Crawley RH10 3LW

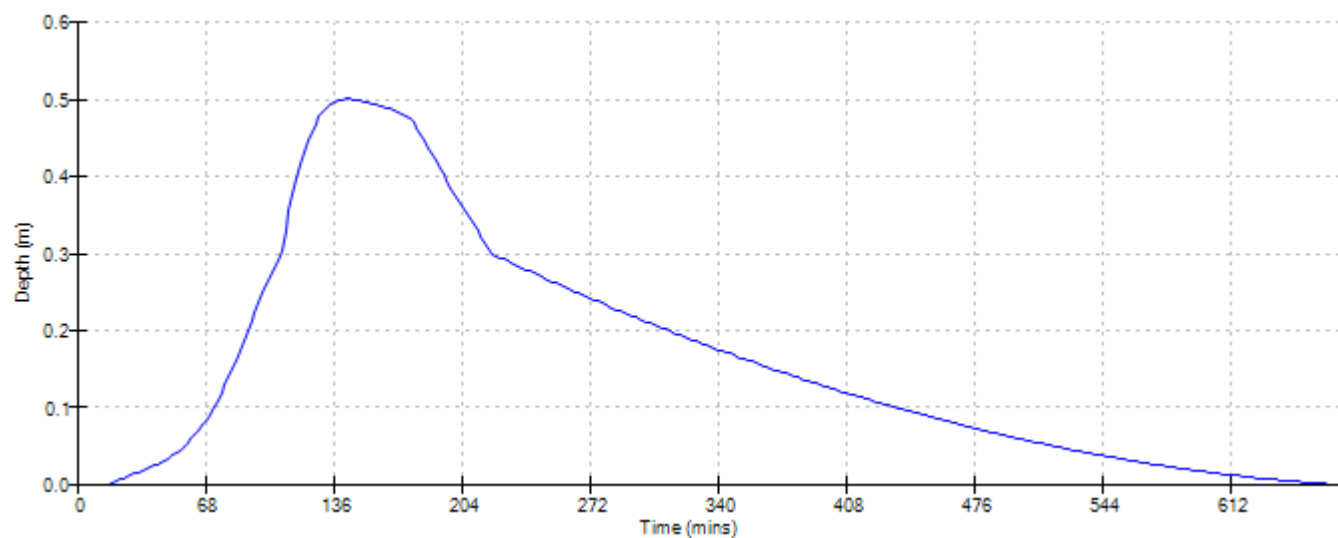
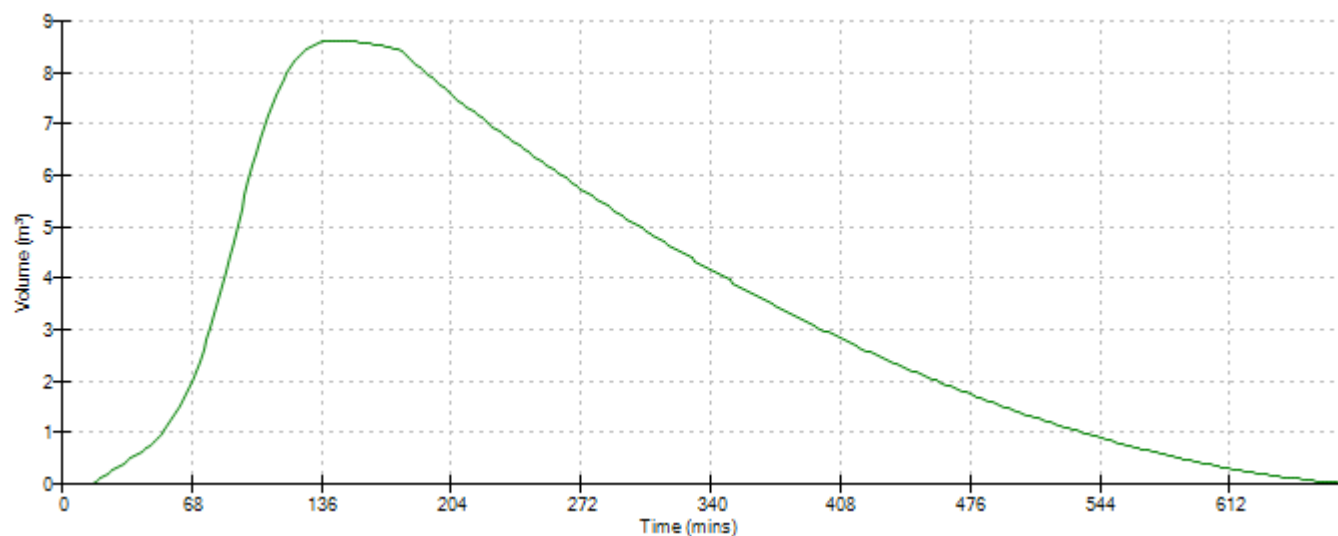
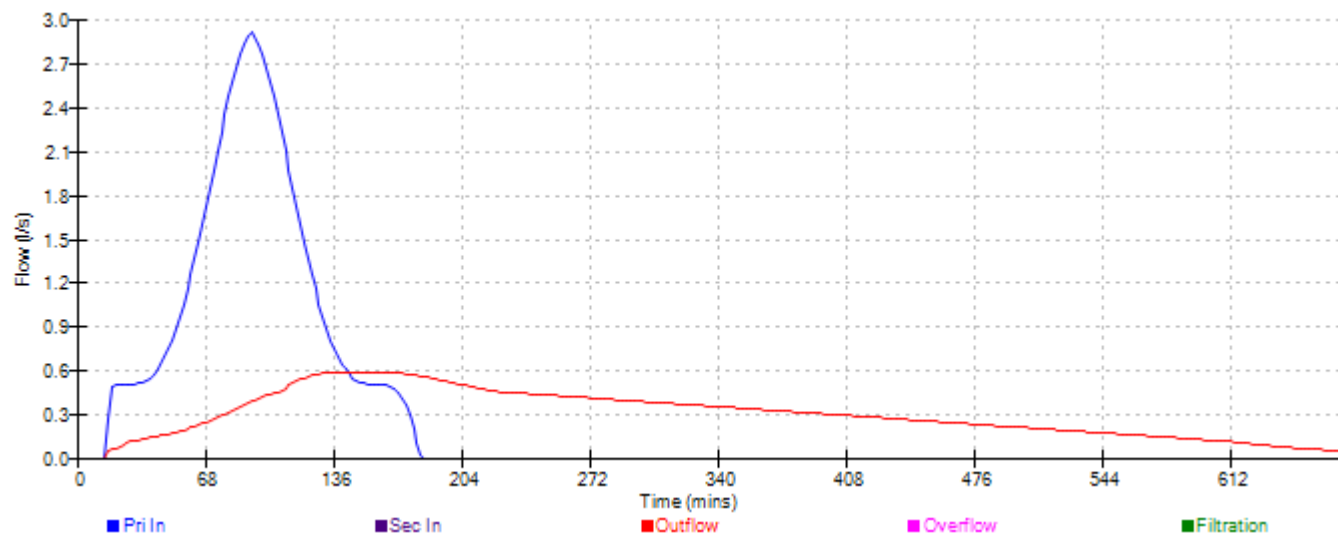
Designed by IN

Checked by RS

Source Control 2015.1



Event: 180 min Winter



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 1 year Return Period

Half Drain Time : 38 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m ³)	Status
15 min Summer	49.182	0.032	0.0	0.3	0.3	0.8	O K
30 min Summer	49.191	0.041	0.0	0.3	0.3	1.0	O K
60 min Summer	49.197	0.047	0.0	0.3	0.3	1.1	O K
120 min Summer	49.198	0.048	0.0	0.3	0.3	1.1	O K
180 min Summer	49.195	0.045	0.0	0.3	0.3	1.1	O K
240 min Summer	49.192	0.042	0.0	0.3	0.3	1.0	O K
360 min Summer	49.185	0.035	0.0	0.3	0.3	0.8	O K
480 min Summer	49.178	0.028	0.0	0.3	0.3	0.7	O K
600 min Summer	49.172	0.022	0.0	0.3	0.3	0.5	O K
720 min Summer	49.167	0.017	0.0	0.3	0.3	0.4	O K
960 min Summer	49.159	0.009	0.0	0.3	0.3	0.2	O K
1440 min Summer	49.151	0.001	0.0	0.3	0.3	0.0	O K
2160 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
2880 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
4320 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
5760 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
7200 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
8640 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
10080 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
15 min Winter	49.182	0.032	0.0	0.3	0.3	0.7	O K
30 min Winter	49.191	0.041	0.0	0.3	0.3	1.0	O K
60 min Winter	49.196	0.046	0.0	0.3	0.3	1.1	O K
120 min Winter	49.195	0.045	0.0	0.3	0.3	1.1	O K
180 min Winter	49.190	0.040	0.0	0.3	0.3	1.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	29.648	0.0	0.9	17
30 min Summer	19.726	0.0	1.3	30
60 min Summer	12.800	0.0	1.8	46
120 min Summer	8.156	0.0	2.3	82
180 min Summer	6.242	0.0	2.7	116
240 min Summer	5.155	0.0	3.0	150
360 min Summer	3.898	0.0	3.4	216
480 min Summer	3.196	0.0	3.8	280
600 min Summer	2.740	0.0	4.1	340
720 min Summer	2.417	0.0	4.3	400
960 min Summer	1.983	0.0	4.7	518
1440 min Summer	1.501	0.0	5.4	736
2160 min Summer	1.134	0.0	6.1	0
2880 min Summer	0.930	0.0	6.6	0
4320 min Summer	0.704	0.0	7.4	0
5760 min Summer	0.578	0.0	8.0	0
7200 min Summer	0.495	0.0	8.5	0
8640 min Summer	0.436	0.0	8.9	0
10080 min Summer	0.391	0.0	9.2	0
15 min Winter	29.648	0.0	0.9	17
30 min Winter	19.726	0.0	1.3	30
60 min Winter	12.800	0.0	1.8	48
120 min Winter	8.156	0.0	2.3	88
180 min Winter	6.242	0.0	2.7	124

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 1 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.185	0.035	0.0	0.3	0.3	0.8	O K
360 min Winter	49.173	0.023	0.0	0.3	0.3	0.6	O K
480 min Winter	49.164	0.014	0.0	0.3	0.3	0.3	O K
600 min Winter	49.157	0.007	0.0	0.3	0.3	0.2	O K
720 min Winter	49.152	0.002	0.0	0.3	0.3	0.0	O K
960 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
1440 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
2160 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
2880 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
4320 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
5760 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
7200 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
8640 min Winter	49.150	0.000	0.0	0.0	0.0	0.0	O K
10080 min Winter	49.150	0.000	0.0	0.0	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	5.155	0.0	3.0	160
360 min Winter	3.898	0.0	3.4	226
480 min Winter	3.196	0.0	3.8	286
600 min Winter	2.740	0.0	4.1	342
720 min Winter	2.417	0.0	4.3	390
960 min Winter	1.983	0.0	4.7	0
1440 min Winter	1.501	0.0	5.4	0
2160 min Winter	1.134	0.0	6.1	0
2880 min Winter	0.930	0.0	6.6	0
4320 min Winter	0.704	0.0	7.4	0
5760 min Winter	0.578	0.0	8.0	0
7200 min Winter	0.495	0.0	8.5	0
8640 min Winter	0.436	0.0	8.9	0
10080 min Winter	0.391	0.0	9.2	0

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	1	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.850

Complex Structure

Porous Car Park

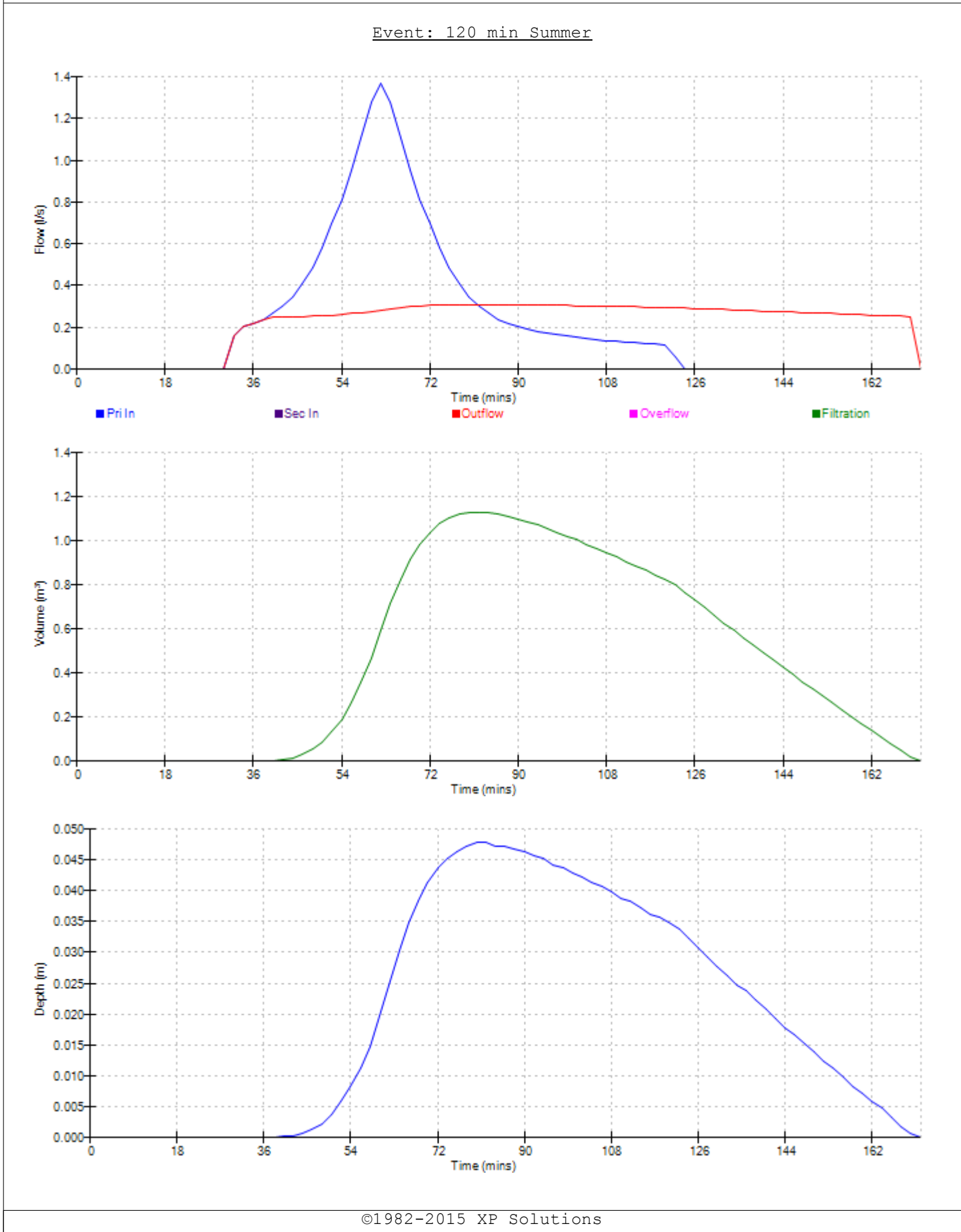
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.150	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.450	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.050



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 30 year Return Period

Half Drain Time : 91 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m ³)	Status
15 min Summer	49.250	0.100	0.0	0.4	0.4	2.4	O K
30 min Summer	49.280	0.130	0.0	0.4	0.4	3.1	O K
60 min Summer	49.301	0.151	0.0	0.4	0.4	3.6	O K
120 min Summer	49.308	0.158	0.0	0.4	0.4	3.7	O K
180 min Summer	49.305	0.155	0.0	0.4	0.4	3.7	O K
240 min Summer	49.299	0.149	0.0	0.4	0.4	3.5	O K
360 min Summer	49.288	0.138	0.0	0.4	0.4	3.3	O K
480 min Summer	49.277	0.127	0.0	0.4	0.4	3.0	O K
600 min Summer	49.267	0.117	0.0	0.4	0.4	2.8	O K
720 min Summer	49.256	0.106	0.0	0.4	0.4	2.5	O K
960 min Summer	49.238	0.088	0.0	0.4	0.4	2.1	O K
1440 min Summer	49.209	0.059	0.0	0.3	0.3	1.4	O K
2160 min Summer	49.179	0.029	0.0	0.3	0.3	0.7	O K
2880 min Summer	49.160	0.010	0.0	0.3	0.3	0.2	O K
4320 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
5760 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
7200 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
8640 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
10080 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
15 min Winter	49.251	0.101	0.0	0.4	0.4	2.4	O K
30 min Winter	49.280	0.130	0.0	0.4	0.4	3.1	O K
60 min Winter	49.302	0.152	0.0	0.4	0.4	3.6	O K
120 min Winter	49.308	0.158	0.0	0.4	0.4	3.8	O K
180 min Winter	49.303	0.153	0.0	0.4	0.4	3.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	72.682	0.0	2.6	18
30 min Summer	48.363	0.0	3.6	32
60 min Summer	30.811	0.0	4.7	60
120 min Summer	19.036	0.0	5.8	94
180 min Summer	14.191	0.0	6.5	128
240 min Summer	11.467	0.0	7.0	164
360 min Summer	8.493	0.0	7.8	232
480 min Summer	6.855	0.0	8.5	300
600 min Summer	5.801	0.0	9.0	368
720 min Summer	5.059	0.0	9.4	434
960 min Summer	4.074	0.0	10.1	560
1440 min Summer	2.998	0.0	11.1	808
2160 min Summer	2.203	0.0	12.2	1164
2880 min Summer	1.769	0.0	13.0	1500
4320 min Summer	1.297	0.0	14.2	0
5760 min Summer	1.040	0.0	15.1	0
7200 min Summer	0.876	0.0	15.8	0
8640 min Summer	0.762	0.0	16.4	0
10080 min Summer	0.677	0.0	16.9	0
15 min Winter	72.682	0.0	2.6	18
30 min Winter	48.363	0.0	3.6	31
60 min Winter	30.811	0.0	4.7	60
120 min Winter	19.036	0.0	5.8	98
180 min Winter	14.191	0.0	6.5	136

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.295	0.145	0.0	0.4	0.4	3.4	O K
360 min Winter	49.278	0.128	0.0	0.4	0.4	3.0	O K
480 min Winter	49.262	0.112	0.0	0.4	0.4	2.7	O K
600 min Winter	49.246	0.096	0.0	0.4	0.4	2.3	O K
720 min Winter	49.232	0.082	0.0	0.3	0.3	2.0	O K
960 min Winter	49.208	0.058	0.0	0.3	0.3	1.4	O K
1440 min Winter	49.174	0.024	0.0	0.3	0.3	0.6	O K
2160 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
2880 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
4320 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
5760 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
7200 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
8640 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
10080 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	11.467	0.0	7.1	174
360 min Winter	8.493	0.0	7.8	248
480 min Winter	6.855	0.0	8.5	320
600 min Winter	5.801	0.0	9.0	388
720 min Winter	5.059	0.0	9.4	454
960 min Winter	4.074	0.0	10.1	580
1440 min Winter	2.998	0.0	11.1	822
2160 min Winter	2.203	0.0	12.2	0
2880 min Winter	1.769	0.0	13.0	0
4320 min Winter	1.297	0.0	14.2	0
5760 min Winter	1.040	0.0	15.1	0
7200 min Winter	0.876	0.0	15.8	0
8640 min Winter	0.762	0.0	16.4	0
10080 min Winter	0.677	0.0	16.9	0

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)		Area
From:	To:	(ha)
0	4	0.016

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.850

Complex Structure

Porous Car Park

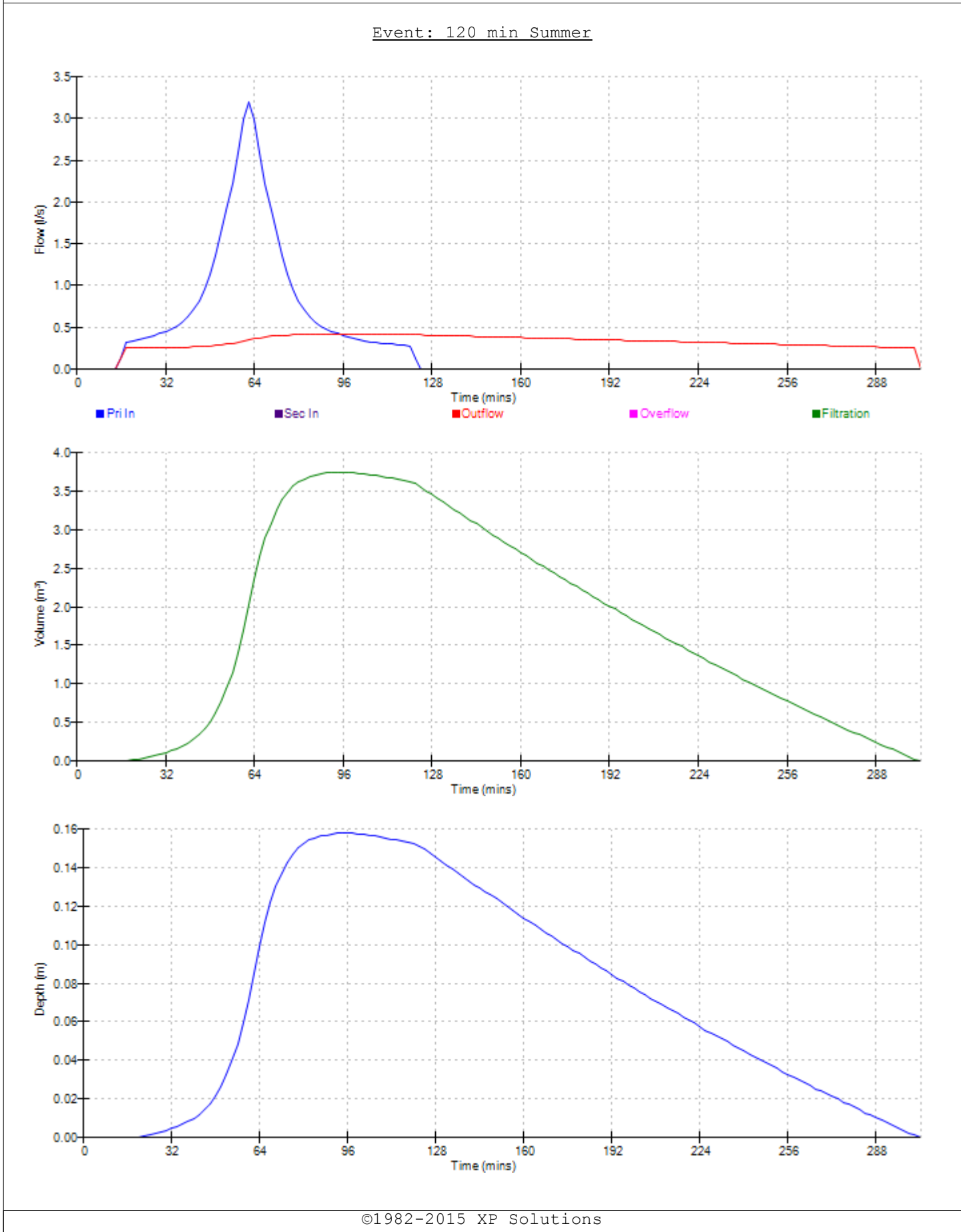
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.150	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.450	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.050



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 100 year Return Period

Half Drain Time : 109 minutes.

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	49.286	0.136	0.0	0.4	0.4	3.2	O K
30 min Summer	49.327	0.177	0.0	0.4	0.4	4.2	O K
60 min Summer	49.361	0.211	0.0	0.5	0.5	5.0	O K
120 min Summer	49.374	0.224	0.0	0.5	0.5	5.3	O K
180 min Summer	49.372	0.222	0.0	0.5	0.5	5.3	O K
240 min Summer	49.365	0.215	0.0	0.5	0.5	5.1	O K
360 min Summer	49.351	0.201	0.0	0.5	0.5	4.8	O K
480 min Summer	49.338	0.188	0.0	0.4	0.4	4.5	O K
600 min Summer	49.325	0.175	0.0	0.4	0.4	4.2	O K
720 min Summer	49.312	0.162	0.0	0.4	0.4	3.9	O K
960 min Summer	49.290	0.140	0.0	0.4	0.4	3.3	O K
1440 min Summer	49.252	0.102	0.0	0.4	0.4	2.4	O K
2160 min Summer	49.212	0.062	0.0	0.3	0.3	1.5	O K
2880 min Summer	49.185	0.035	0.0	0.3	0.3	0.8	O K
4320 min Summer	49.155	0.005	0.0	0.3	0.3	0.1	O K
5760 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
7200 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
8640 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
10080 min Summer	49.150	0.000	0.0	0.1	0.1	0.0	O K
15 min Winter	49.286	0.136	0.0	0.4	0.4	3.2	O K
30 min Winter	49.328	0.178	0.0	0.4	0.4	4.2	O K
60 min Winter	49.362	0.212	0.0	0.5	0.5	5.0	O K
120 min Winter	49.376	0.226	0.0	0.5	0.5	5.4	O K
180 min Winter	49.372	0.222	0.0	0.5	0.5	5.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	94.179	0.0	3.5	18
30 min Summer	63.261	0.0	4.8	32
60 min Summer	40.510	0.0	6.2	60
120 min Summer	25.003	0.0	7.7	102
180 min Summer	18.552	0.0	8.6	134
240 min Summer	14.912	0.0	9.3	168
360 min Summer	10.975	0.0	10.2	236
480 min Summer	8.815	0.0	11.0	306
600 min Summer	7.430	0.0	11.5	374
720 min Summer	6.458	0.0	12.1	440
960 min Summer	5.172	0.0	12.9	570
1440 min Summer	3.774	0.0	14.1	822
2160 min Summer	2.748	0.0	15.4	1188
2880 min Summer	2.192	0.0	16.3	1532
4320 min Summer	1.590	0.0	17.6	2208
5760 min Summer	1.265	0.0	18.6	0
7200 min Summer	1.060	0.0	19.3	0
8640 min Summer	0.917	0.0	20.0	0
10080 min Summer	0.812	0.0	20.5	0
15 min Winter	94.179	0.0	3.5	18
30 min Winter	63.261	0.0	4.8	32
60 min Winter	40.510	0.0	6.2	60
120 min Winter	25.003	0.0	7.7	112
180 min Winter	18.552	0.0	8.6	140

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
240 min Winter	49.363	0.213	0.0	0.5	0.5	5.0	O K
360 min Winter	49.342	0.192	0.0	0.4	0.4	4.6	O K
480 min Winter	49.323	0.173	0.0	0.4	0.4	4.1	O K
600 min Winter	49.304	0.154	0.0	0.4	0.4	3.7	O K
720 min Winter	49.287	0.137	0.0	0.4	0.4	3.3	O K
960 min Winter	49.257	0.107	0.0	0.4	0.4	2.5	O K
1440 min Winter	49.211	0.061	0.0	0.3	0.3	1.5	O K
2160 min Winter	49.168	0.018	0.0	0.3	0.3	0.4	O K
2880 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
4320 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
5760 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
7200 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
8640 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
10080 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
240 min Winter	14.912	0.0	9.2	178
360 min Winter	10.975	0.0	10.2	254
480 min Winter	8.815	0.0	11.0	328
600 min Winter	7.430	0.0	11.6	398
720 min Winter	6.458	0.0	12.1	466
960 min Winter	5.172	0.0	12.9	598
1440 min Winter	3.774	0.0	14.1	850
2160 min Winter	2.748	0.0	15.3	1192
2880 min Winter	2.192	0.0	16.3	0
4320 min Winter	1.590	0.0	17.6	0
5760 min Winter	1.265	0.0	18.6	0
7200 min Winter	1.060	0.0	19.3	0
8640 min Winter	0.917	0.0	20.0	0
10080 min Winter	0.812	0.0	20.5	0

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.850

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.150	Cap Volume Depth (m)	0.300

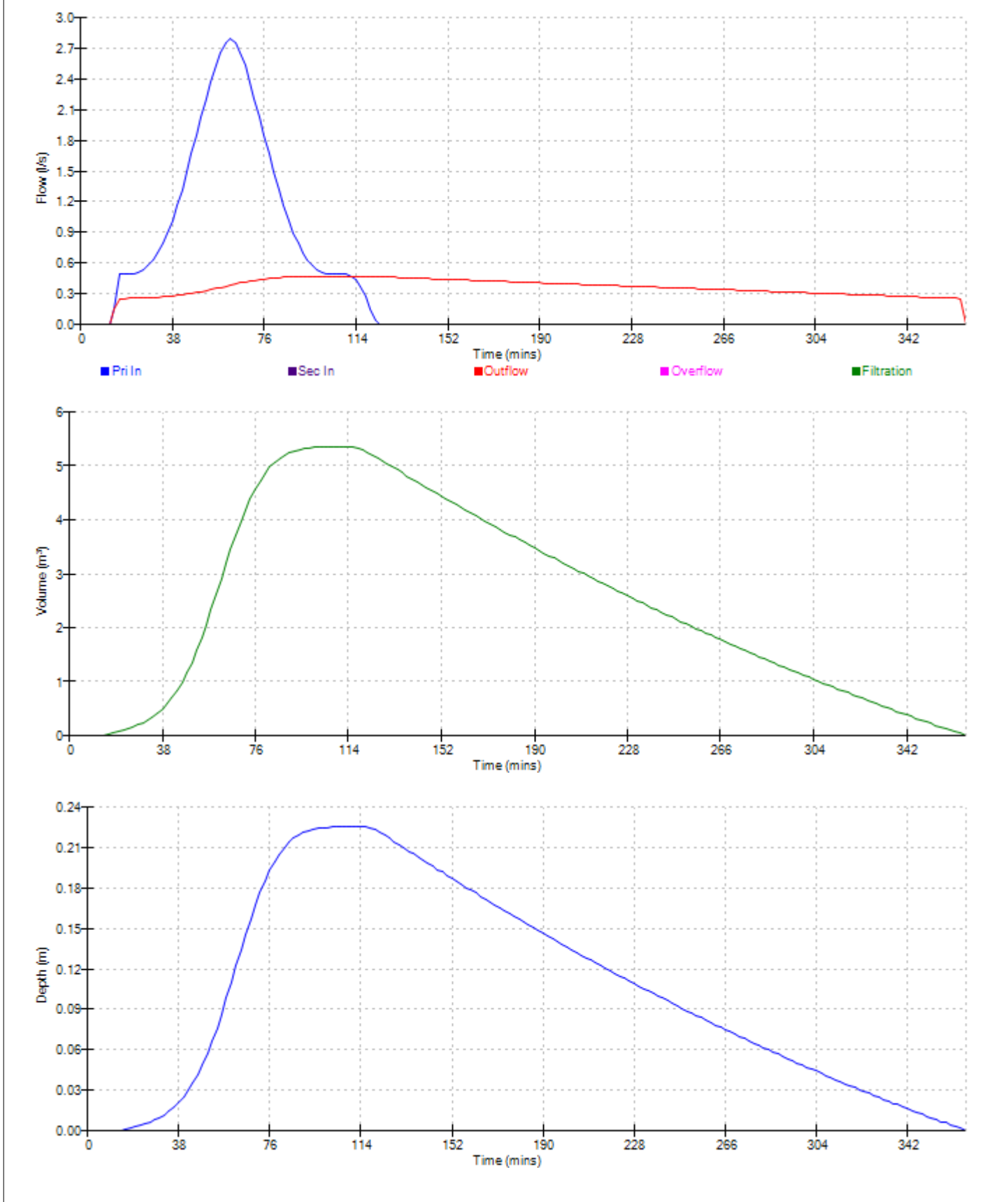
Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.450	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.050

Event: 120 min Winter



Lanmor Consulting Ltd		Page 1
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

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

Half Drain Time : 134 minutes.

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	49.347	0.197	0.0	0.4	0.4	4.7	O K
30 min Summer	49.409	0.259	0.0	0.5	0.5	6.2	O K
60 min Summer	49.488	0.338	0.0	0.5	0.5	7.4	O K
120 min Summer	49.566	0.416	0.0	0.6	0.6	8.0	Flood Risk
180 min Summer	49.572	0.422	0.0	0.6	0.6	8.0	Flood Risk
240 min Summer	49.557	0.407	0.0	0.6	0.6	7.9	Flood Risk
360 min Summer	49.512	0.362	0.0	0.6	0.6	7.6	O K
480 min Summer	49.464	0.314	0.0	0.5	0.5	7.2	O K
600 min Summer	49.439	0.289	0.0	0.5	0.5	6.9	O K
720 min Summer	49.424	0.274	0.0	0.5	0.5	6.5	O K
960 min Summer	49.396	0.246	0.0	0.5	0.5	5.8	O K
1440 min Summer	49.348	0.198	0.0	0.4	0.4	4.7	O K
2160 min Summer	49.292	0.142	0.0	0.4	0.4	3.4	O K
2880 min Summer	49.251	0.101	0.0	0.4	0.4	2.4	O K
4320 min Summer	49.198	0.048	0.0	0.3	0.3	1.1	O K
5760 min Summer	49.167	0.017	0.0	0.3	0.3	0.4	O K
7200 min Summer	49.152	0.002	0.0	0.3	0.3	0.0	O K
8640 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
10080 min Summer	49.150	0.000	0.0	0.2	0.2	0.0	O K
15 min Winter	49.347	0.197	0.0	0.4	0.4	4.7	O K
30 min Winter	49.410	0.260	0.0	0.5	0.5	6.2	O K
60 min Winter	49.493	0.343	0.0	0.5	0.5	7.4	O K
120 min Winter	49.577	0.427	0.0	0.6	0.6	8.1	Flood Risk
180 min Winter	49.576	0.426	0.0	0.6	0.6	8.1	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	131.851	0.0	5.0	18
30 min Summer	88.566	0.0	6.8	32
60 min Summer	56.713	0.0	8.8	62
120 min Summer	35.004	0.0	10.9	108
180 min Summer	25.973	0.0	12.2	138
240 min Summer	20.877	0.0	13.1	172
360 min Summer	15.365	0.0	14.5	242
480 min Summer	12.341	0.0	15.5	312
600 min Summer	10.402	0.0	16.3	382
720 min Summer	9.042	0.0	17.0	450
960 min Summer	7.241	0.0	18.2	586
1440 min Summer	5.284	0.0	19.9	838
2160 min Summer	3.848	0.0	21.7	1212
2880 min Summer	3.068	0.0	23.0	1584
4320 min Summer	2.226	0.0	24.9	2292
5760 min Summer	1.771	0.0	26.3	2992
7200 min Summer	1.483	0.0	27.5	3672
8640 min Summer	1.284	0.0	28.4	0
10080 min Summer	1.137	0.0	29.3	0
15 min Winter	131.851	0.0	5.0	18
30 min Winter	88.566	0.0	6.8	32
60 min Winter	56.713	0.0	8.8	60
120 min Winter	35.004	0.0	10.9	114
180 min Winter	25.973	0.0	12.2	142

Lanmor Consulting Ltd		Page 2
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

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 (m ³)	Status
240 min Winter	49.556	0.406	0.0	0.6	0.6	7.9	Flood Risk
360 min Winter	49.495	0.345	0.0	0.6	0.6	7.5	O K
480 min Winter	49.441	0.291	0.0	0.5	0.5	6.9	O K
600 min Winter	49.419	0.269	0.0	0.5	0.5	6.4	O K
720 min Winter	49.398	0.248	0.0	0.5	0.5	5.9	O K
960 min Winter	49.359	0.209	0.0	0.5	0.5	5.0	O K
1440 min Winter	49.297	0.147	0.0	0.4	0.4	3.5	O K
2160 min Winter	49.233	0.083	0.0	0.3	0.3	2.0	O K
2880 min Winter	49.191	0.041	0.0	0.3	0.3	1.0	O K
4320 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
5760 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
7200 min Winter	49.150	0.000	0.0	0.2	0.2	0.0	O K
8640 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K
10080 min Winter	49.150	0.000	0.0	0.1	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
240 min Winter	20.877	0.0	13.1	182
360 min Winter	15.365	0.0	14.4	260
480 min Winter	12.341	0.0	15.5	336
600 min Winter	10.402	0.0	16.3	410
720 min Winter	9.042	0.0	17.0	480
960 min Winter	7.241	0.0	18.2	616
1440 min Winter	5.284	0.0	19.9	880
2160 min Winter	3.848	0.0	21.7	1252
2880 min Winter	3.068	0.0	23.0	1612
4320 min Winter	2.226	0.0	24.9	0
5760 min Winter	1.771	0.0	26.3	0
7200 min Winter	1.483	0.0	27.5	0
8640 min Winter	1.284	0.0	28.4	0
10080 min Winter	1.137	0.0	29.3	0

Lanmor Consulting Ltd		Page 3
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Cophthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)

0	4 0.016
---	---------

Lanmor Consulting Ltd		Page 4
Thorogood House 34 Tolworth Close Surbition Surrey KT6 7EW	27 Knowle Drive, Copthorne, Crawley RH10 3LW	
Date April 2026 File PP2.SRCX	Designed by IN Checked by RS	
XP Solutions	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.850

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.95	Evaporation (mm/day)	3
Invert Level (m)	49.150	Cap Volume Depth (m)	0.300

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	49.450	Cap Volume Depth (m)	0.250

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 49.050

