

Appendix D Rainfall Runoff Summary

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:39 File 139 North Hyde Road.SRCX			Designed by sheph Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 1 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Summer	29.341	0.091	2.0	0.0	2.0	1.4	O K
30 min Summer	29.341	0.091	2.0	0.0	2.0	1.4	O K
60 min Summer	29.325	0.075	2.0	0.0	2.0	1.1	O K
120 min Summer	29.296	0.046	1.9	0.0	1.9	0.7	O K
180 min Summer	29.280	0.030	1.7	0.0	1.7	0.5	O K
240 min Summer	29.270	0.020	1.5	0.0	1.5	0.3	O K
360 min Summer	29.258	0.008	1.2	0.0	1.2	0.1	O K
480 min Summer	29.252	0.002	1.0	0.0	1.0	0.0	O K
600 min Summer	29.250	0.000	0.9	0.0	0.9	0.0	O K
720 min Summer	29.250	0.000	0.8	0.0	0.8	0.0	O K
960 min Summer	29.250	0.000	0.6	0.0	0.6	0.0	O K
1440 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
2160 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
2880 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
4320 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
5760 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Summer	29.250	0.000	0.1	0.0	0.1	0.0	O K
8640 min Summer	29.250	0.000	0.1	0.0	0.1	0.0	O K
10080 min Summer	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	32.306	0.0	2.7	0.0	13		
30 min Summer	20.902	0.0	3.5	0.0	22		
60 min Summer	13.089	0.0	4.3	0.0	38		
120 min Summer	8.023	0.0	5.3	0.0	68		
180 min Summer	5.995	0.0	6.0	0.0	98		
240 min Summer	4.869	0.0	6.4	0.0	128		
360 min Summer	3.611	0.0	7.1	0.0	188		
480 min Summer	2.912	0.0	7.7	0.0	246		
600 min Summer	2.464	0.0	8.1	0.0	0		
720 min Summer	2.150	0.0	8.5	0.0	0		
960 min Summer	1.733	0.0	9.2	0.0	0		
1440 min Summer	1.280	0.0	10.1	0.0	0		
2160 min Summer	0.945	0.0	11.2	0.0	0		
2880 min Summer	0.763	0.0	12.1	0.0	0		
4320 min Summer	0.563	0.0	13.4	0.0	0		
5760 min Summer	0.454	0.0	14.4	0.0	0		
7200 min Summer	0.384	0.0	15.2	0.0	0		
8640 min Summer	0.335	0.0	15.9	0.0	0		
10080 min Summer	0.299	0.0	16.6	0.0	0		
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55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:40			Designed by sheph				
File 139 North Hyde Road.SRCX			Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 2 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	29.384	0.134	2.0	0.0	2.0	2.0	O K
30 min Summer	29.387	0.137	2.0	0.0	2.0	2.1	O K
60 min Summer	29.368	0.118	2.0	0.0	2.0	1.8	O K
120 min Summer	29.326	0.076	2.0	0.0	2.0	1.1	O K
180 min Summer	29.298	0.048	2.0	0.0	2.0	0.7	O K
240 min Summer	29.284	0.034	1.7	0.0	1.7	0.5	O K
360 min Summer	29.267	0.017	1.4	0.0	1.4	0.3	O K
480 min Summer	29.258	0.008	1.2	0.0	1.2	0.1	O K
600 min Summer	29.253	0.003	1.0	0.0	1.0	0.0	O K
720 min Summer	29.250	0.000	0.9	0.0	0.9	0.0	O K
960 min Summer	29.250	0.000	0.7	0.0	0.7	0.0	O K
1440 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
2160 min Summer	29.250	0.000	0.4	0.0	0.4	0.0	O K
2880 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
4320 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
5760 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
8640 min Summer	29.250	0.000	0.1	0.0	0.1	0.0	O K
10080 min Summer	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	41.742	0.0	3.4	0.0	14		
30 min Summer	26.794	0.0	4.4	0.0	23		
60 min Summer	16.540	0.0	5.4	0.0	40		
120 min Summer	9.990	0.0	6.6	0.0	70		
180 min Summer	7.397	0.0	7.3	0.0	98		
240 min Summer	5.967	0.0	7.9	0.0	128		
360 min Summer	4.394	0.0	8.7	0.0	188		
480 min Summer	3.530	0.0	9.3	0.0	248		
600 min Summer	2.978	0.0	9.8	0.0	308		
720 min Summer	2.592	0.0	10.3	0.0	0		
960 min Summer	2.081	0.0	11.0	0.0	0		
1440 min Summer	1.527	0.0	12.1	0.0	0		
2160 min Summer	1.121	0.0	13.3	0.0	0		
2880 min Summer	0.900	0.0	14.2	0.0	0		
4320 min Summer	0.660	0.0	15.7	0.0	0		
5760 min Summer	0.529	0.0	16.8	0.0	0		
7200 min Summer	0.446	0.0	17.7	0.0	0		
8640 min Summer	0.388	0.0	18.5	0.0	0		
10080 min Summer	0.345	0.0	19.1	0.0	0		
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Easy Flood Risk		Page 2					
55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:40 File 139 North Hyde Road.SRCX							
Designed by sheph Checked by							
Innovyze		Source Control 2020.1					
Summary of Results for 2 year Return Period							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Winter	29.408	0.158	2.0	0.0	2.0	2.4	O K
30 min Winter	29.409	0.159	2.0	0.0	2.0	2.4	O K
60 min Winter	29.375	0.125	2.0	0.0	2.0	1.9	O K
120 min Winter	29.311	0.061	2.0	0.0	2.0	0.9	O K
180 min Winter	29.284	0.034	1.7	0.0	1.7	0.5	O K
240 min Winter	29.270	0.020	1.5	0.0	1.5	0.3	O K
360 min Winter	29.255	0.005	1.1	0.0	1.1	0.1	O K
480 min Winter	29.250	0.000	0.9	0.0	0.9	0.0	O K
600 min Winter	29.250	0.000	0.8	0.0	0.8	0.0	O K
720 min Winter	29.250	0.000	0.7	0.0	0.7	0.0	O K
960 min Winter	29.250	0.000	0.5	0.0	0.5	0.0	O K
1440 min Winter	29.250	0.000	0.4	0.0	0.4	0.0	O K
2160 min Winter	29.250	0.000	0.3	0.0	0.3	0.0	O K
2880 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
4320 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
5760 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
7200 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
8640 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
10080 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	41.742	0.0	3.8	0.0	15		
30 min Winter	26.794	0.0	5.0	0.0	24		
60 min Winter	16.540	0.0	6.1	0.0	42		
120 min Winter	9.990	0.0	7.4	0.0	72		
180 min Winter	7.397	0.0	8.2	0.0	100		
240 min Winter	5.967	0.0	8.8	0.0	130		
360 min Winter	4.394	0.0	9.7	0.0	188		
480 min Winter	3.530	0.0	10.4	0.0	0		
600 min Winter	2.978	0.0	11.0	0.0	0		
720 min Winter	2.592	0.0	11.5	0.0	0		
960 min Winter	2.081	0.0	12.3	0.0	0		
1440 min Winter	1.527	0.0	13.5	0.0	0		
2160 min Winter	1.121	0.0	14.9	0.0	0		
2880 min Winter	0.900	0.0	16.0	0.0	0		
4320 min Winter	0.660	0.0	17.6	0.0	0		
5760 min Winter	0.529	0.0	18.8	0.0	0		
7200 min Winter	0.446	0.0	19.8	0.0	0		
8640 min Winter	0.388	0.0	20.7	0.0	0		
10080 min Winter	0.345	0.0	21.4	0.0	0		
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Easy Flood Risk								Page 1
55 Shepherds Lane Dartford DA1 2NL								
Date 16/02/2021 17:44 File 139 NORTH HYDE ROAD.SRCX				Designed by sheph Checked by				
Innovyze				Source Control 2020.1				
<u>Summary of Results for 5 year Return Period</u>								
Storm Event		Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Summer		29.443	0.193	2.0	0.0	2.0	2.9	O K
30 min Summer		29.452	0.202	2.0	0.0	2.0	3.0	O K
60 min Summer		29.431	0.181	2.0	0.0	2.0	2.7	O K
120 min Summer		29.379	0.129	2.0	0.0	2.0	1.9	O K
180 min Summer		29.336	0.086	2.0	0.0	2.0	1.3	O K
240 min Summer		29.307	0.057	2.0	0.0	2.0	0.8	O K
360 min Summer		29.282	0.032	1.7	0.0	1.7	0.5	O K
480 min Summer		29.268	0.018	1.4	0.0	1.4	0.3	O K
600 min Summer		29.260	0.010	1.2	0.0	1.2	0.2	O K
720 min Summer		29.255	0.005	1.1	0.0	1.1	0.1	O K
960 min Summer		29.250	0.000	0.9	0.0	0.9	0.0	O K
1440 min Summer		29.250	0.000	0.7	0.0	0.7	0.0	O K
2160 min Summer		29.250	0.000	0.5	0.0	0.5	0.0	O K
2880 min Summer		29.250	0.000	0.4	0.0	0.4	0.0	O K
4320 min Summer		29.250	0.000	0.3	0.0	0.3	0.0	O K
5760 min Summer		29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Summer		29.250	0.000	0.2	0.0	0.2	0.0	O K
8640 min Summer		29.250	0.000	0.2	0.0	0.2	0.0	O K
10080 min Summer		29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer		53.690	0.0	4.4	0.0	15		
30 min Summer		34.181	0.0	5.6	0.0	24		
60 min Summer		20.914	0.0	6.9	0.0	42		
120 min Summer		12.507	0.0	8.3	0.0	74		
180 min Summer		9.201	0.0	9.1	0.0	104		
240 min Summer		7.386	0.0	9.8	0.0	132		
360 min Summer		5.410	0.0	10.7	0.0	190		
480 min Summer		4.334	0.0	11.4	0.0	248		
600 min Summer		3.647	0.0	12.0	0.0	308		
720 min Summer		3.167	0.0	12.5	0.0	368		
960 min Summer		2.535	0.0	13.4	0.0	0		
1440 min Summer		1.850	0.0	14.7	0.0	0		
2160 min Summer		1.350	0.0	16.0	0.0	0		
2880 min Summer		1.080	0.0	17.1	0.0	0		
4320 min Summer		0.788	0.0	18.7	0.0	0		
5760 min Summer		0.630	0.0	19.9	0.0	0		
7200 min Summer		0.529	0.0	21.0	0.0	0		
8640 min Summer		0.459	0.0	21.8	0.0	0		
10080 min Summer		0.407	0.0	22.6	0.0	0		
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55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:44 File 139 NORTH HYDE ROAD.SRCX							
Designed by sheph Checked by							
Innovyze		Source Control 2020.1					
Summary of Results for 5 year Return Period							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Winter	29.477	0.227	2.0	0.0	2.0	3.4	O K
30 min Winter	29.488	0.238	2.0	0.0	2.0	3.6	O K
60 min Winter	29.453	0.203	2.0	0.0	2.0	3.1	O K
120 min Winter	29.369	0.119	2.0	0.0	2.0	1.8	O K
180 min Winter	29.309	0.059	2.0	0.0	2.0	0.9	O K
240 min Winter	29.286	0.036	1.8	0.0	1.8	0.5	O K
360 min Winter	29.265	0.015	1.4	0.0	1.4	0.2	O K
480 min Winter	29.255	0.005	1.1	0.0	1.1	0.1	O K
600 min Winter	29.250	0.000	0.9	0.0	0.9	0.0	O K
720 min Winter	29.250	0.000	0.8	0.0	0.8	0.0	O K
960 min Winter	29.250	0.000	0.7	0.0	0.7	0.0	O K
1440 min Winter	29.250	0.000	0.5	0.0	0.5	0.0	O K
2160 min Winter	29.250	0.000	0.4	0.0	0.4	0.0	O K
2880 min Winter	29.250	0.000	0.3	0.0	0.3	0.0	O K
4320 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
5760 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
8640 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
10080 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	53.690	0.0	5.0	0.0	16		
30 min Winter	34.181	0.0	6.3	0.0	26		
60 min Winter	20.914	0.0	7.7	0.0	44		
120 min Winter	12.507	0.0	9.3	0.0	78		
180 min Winter	9.201	0.0	10.2	0.0	104		
240 min Winter	7.386	0.0	10.9	0.0	132		
360 min Winter	5.410	0.0	12.0	0.0	190		
480 min Winter	4.334	0.0	12.8	0.0	250		
600 min Winter	3.647	0.0	13.5	0.0	0		
720 min Winter	3.167	0.0	14.0	0.0	0		
960 min Winter	2.535	0.0	15.0	0.0	0		
1440 min Winter	1.850	0.0	16.4	0.0	0		
2160 min Winter	1.350	0.0	18.0	0.0	0		
2880 min Winter	1.080	0.0	19.2	0.0	0		
4320 min Winter	0.788	0.0	21.0	0.0	0		
5760 min Winter	0.630	0.0	22.3	0.0	0		
7200 min Winter	0.529	0.0	23.5	0.0	0		
8640 min Winter	0.459	0.0	24.4	0.0	0		
10080 min Winter	0.407	0.0	25.3	0.0	0		
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55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:42			Designed by sheph				
File 139 NORTH HYDE ROAD.SRCX			Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 10 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	29.489	0.239	2.0	0.0	2.0	3.6	O K
30 min Summer	29.508	0.258	2.0	0.0	2.0	3.9	O K
60 min Summer	29.488	0.238	2.0	0.0	2.0	3.6	O K
120 min Summer	29.433	0.183	2.0	0.0	2.0	2.7	O K
180 min Summer	29.380	0.130	2.0	0.0	2.0	2.0	O K
240 min Summer	29.339	0.089	2.0	0.0	2.0	1.3	O K
360 min Summer	29.295	0.045	1.9	0.0	1.9	0.7	O K
480 min Summer	29.279	0.029	1.6	0.0	1.6	0.4	O K
600 min Summer	29.268	0.018	1.4	0.0	1.4	0.3	O K
720 min Summer	29.261	0.011	1.3	0.0	1.3	0.2	O K
960 min Summer	29.253	0.003	1.0	0.0	1.0	0.0	O K
1440 min Summer	29.250	0.000	0.8	0.0	0.8	0.0	O K
2160 min Summer	29.250	0.000	0.6	0.0	0.6	0.0	O K
2880 min Summer	29.250	0.000	0.4	0.0	0.4	0.0	O K
4320 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
5760 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
7200 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
8640 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
10080 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	62.438	0.0	5.2	0.0	16		
30 min Summer	39.931	0.0	6.6	0.0	26		
60 min Summer	24.486	0.0	8.1	0.0	42		
120 min Summer	14.636	0.0	9.6	0.0	76		
180 min Summer	10.746	0.0	10.6	0.0	106		
240 min Summer	8.608	0.0	11.4	0.0	134		
360 min Summer	6.284	0.0	12.4	0.0	190		
480 min Summer	5.024	0.0	13.3	0.0	250		
600 min Summer	4.221	0.0	13.9	0.0	308		
720 min Summer	3.660	0.0	14.5	0.0	370		
960 min Summer	2.922	0.0	15.4	0.0	490		
1440 min Summer	2.125	0.0	16.8	0.0	0		
2160 min Summer	1.545	0.0	18.4	0.0	0		
2880 min Summer	1.232	0.0	19.5	0.0	0		
4320 min Summer	0.895	0.0	21.3	0.0	0		
5760 min Summer	0.713	0.0	22.6	0.0	0		
7200 min Summer	0.598	0.0	23.7	0.0	0		
8640 min Summer	0.517	0.0	24.6	0.0	0		
10080 min Summer	0.458	0.0	25.4	0.0	0		
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55 Shepherds Lane Dartford DA1 2NL							
Date 16/02/2021 17:42			Designed by sheph				
File 139 NORTH HYDE ROAD.SRCX			Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 10 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Winter	29.530	0.280	2.0	0.0	2.0	4.2	O K
30 min Winter	29.554	0.304	2.0	0.0	2.0	4.6	O K
60 min Winter	29.528	0.278	2.0	0.0	2.0	4.2	O K
120 min Winter	29.434	0.184	2.0	0.0	2.0	2.8	O K
180 min Winter	29.353	0.103	2.0	0.0	2.0	1.5	O K
240 min Winter	29.304	0.054	2.0	0.0	2.0	0.8	O K
360 min Winter	29.275	0.025	1.6	0.0	1.6	0.4	O K
480 min Winter	29.262	0.012	1.3	0.0	1.3	0.2	O K
600 min Winter	29.254	0.004	1.1	0.0	1.1	0.1	O K
720 min Winter	29.250	0.000	1.0	0.0	1.0	0.0	O K
960 min Winter	29.250	0.000	0.8	0.0	0.8	0.0	O K
1440 min Winter	29.250	0.000	0.6	0.0	0.6	0.0	O K
2160 min Winter	29.250	0.000	0.4	0.0	0.4	0.0	O K
2880 min Winter	29.250	0.000	0.3	0.0	0.3	0.0	O K
4320 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
5760 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
8640 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
10080 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	62.438	0.0	5.8	0.0	16		
30 min Winter	39.931	0.0	7.3	0.0	29		
60 min Winter	24.486	0.0	9.0	0.0	46		
120 min Winter	14.636	0.0	10.9	0.0	82		
180 min Winter	10.746	0.0	11.9	0.0	110		
240 min Winter	8.608	0.0	12.7	0.0	134		
360 min Winter	6.284	0.0	13.9	0.0	192		
480 min Winter	5.024	0.0	14.9	0.0	250		
600 min Winter	4.221	0.0	15.6	0.0	308		
720 min Winter	3.660	0.0	16.2	0.0	0		
960 min Winter	2.922	0.0	17.3	0.0	0		
1440 min Winter	2.125	0.0	18.9	0.0	0		
2160 min Winter	1.545	0.0	20.6	0.0	0		
2880 min Winter	1.232	0.0	21.9	0.0	0		
4320 min Winter	0.895	0.0	23.8	0.0	0		
5760 min Winter	0.713	0.0	25.3	0.0	0		
7200 min Winter	0.598	0.0	26.5	0.0	0		
8640 min Winter	0.517	0.0	27.5	0.0	0		
10080 min Winter	0.458	0.0	28.4	0.0	0		
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Innovyze		Source Control 2020.1					
<u>Summary of Results for 30 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Summer	29.578	0.328	2.0	0.0	2.0	4.9	O K
30 min Summer	29.614	0.364	2.0	0.0	2.0	5.5	O K
60 min Summer	29.605	0.355	2.0	0.0	2.0	5.3	O K
120 min Summer	29.555	0.305	2.0	0.0	2.0	4.6	O K
180 min Summer	29.492	0.242	2.0	0.0	2.0	3.6	O K
240 min Summer	29.431	0.181	2.0	0.0	2.0	2.7	O K
360 min Summer	29.345	0.095	2.0	0.0	2.0	1.4	O K
480 min Summer	29.301	0.051	2.0	0.0	2.0	0.8	O K
600 min Summer	29.285	0.035	1.8	0.0	1.8	0.5	O K
720 min Summer	29.275	0.025	1.6	0.0	1.6	0.4	O K
960 min Summer	29.262	0.012	1.3	0.0	1.3	0.2	O K
1440 min Summer	29.250	0.000	1.0	0.0	1.0	0.0	O K
2160 min Summer	29.250	0.000	0.7	0.0	0.7	0.0	O K
2880 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
4320 min Summer	29.250	0.000	0.4	0.0	0.4	0.0	O K
5760 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
7200 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
8640 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
10080 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	79.312	0.0	6.5	0.0	16		
30 min Summer	51.088	0.0	8.4	0.0	28		
60 min Summer	31.437	0.0	10.4	0.0	44		
120 min Summer	18.775	0.0	12.4	0.0	80		
180 min Summer	13.745	0.0	13.6	0.0	112		
240 min Summer	10.972	0.0	14.5	0.0	142		
360 min Summer	7.969	0.0	15.8	0.0	198		
480 min Summer	6.349	0.0	16.8	0.0	252		
600 min Summer	5.320	0.0	17.6	0.0	310		
720 min Summer	4.602	0.0	18.2	0.0	370		
960 min Summer	3.660	0.0	19.3	0.0	490		
1440 min Summer	2.648	0.0	21.0	0.0	0		
2160 min Summer	1.913	0.0	22.7	0.0	0		
2880 min Summer	1.518	0.0	24.0	0.0	0		
4320 min Summer	1.095	0.0	26.0	0.0	0		
5760 min Summer	0.868	0.0	27.5	0.0	0		
7200 min Summer	0.725	0.0	28.7	0.0	0		
8640 min Summer	0.625	0.0	29.7	0.0	0		
10080 min Summer	0.552	0.0	30.6	0.0	0		
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Innovyze				Source Control 2020.1			
<u>Summary of Results for 30 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Winter	29.627	0.377	2.0	0.0	2.0	5.7	O K
30 min Winter	29.675	0.425	2.0	0.0	2.0	6.4	O K
60 min Winter	29.662	0.412	2.0	0.0	2.0	6.2	O K
120 min Winter	29.584	0.334	2.0	0.0	2.0	5.0	O K
180 min Winter	29.485	0.235	2.0	0.0	2.0	3.5	O K
240 min Winter	29.393	0.143	2.0	0.0	2.0	2.1	O K
360 min Winter	29.297	0.047	2.0	0.0	2.0	0.7	O K
480 min Winter	29.277	0.027	1.6	0.0	1.6	0.4	O K
600 min Winter	29.265	0.015	1.4	0.0	1.4	0.2	O K
720 min Winter	29.258	0.008	1.2	0.0	1.2	0.1	O K
960 min Winter	29.250	0.000	1.0	0.0	1.0	0.0	O K
1440 min Winter	29.250	0.000	0.7	0.0	0.7	0.0	O K
2160 min Winter	29.250	0.000	0.5	0.0	0.5	0.0	O K
2880 min Winter	29.250	0.000	0.4	0.0	0.4	0.0	O K
4320 min Winter	29.250	0.000	0.3	0.0	0.3	0.0	O K
5760 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
7200 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
8640 min Winter	29.250	0.000	0.2	0.0	0.2	0.0	O K
10080 min Winter	29.250	0.000	0.1	0.0	0.1	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	79.312	0.0	7.3	0.0	16		
30 min Winter	51.088	0.0	9.4	0.0	30		
60 min Winter	31.437	0.0	11.6	0.0	48		
120 min Winter	18.775	0.0	13.8	0.0	86		
180 min Winter	13.745	0.0	15.2	0.0	120		
240 min Winter	10.972	0.0	16.2	0.0	148		
360 min Winter	7.969	0.0	17.7	0.0	194		
480 min Winter	6.349	0.0	18.8	0.0	252		
600 min Winter	5.320	0.0	19.7	0.0	310		
720 min Winter	4.602	0.0	20.4	0.0	370		
960 min Winter	3.660	0.0	21.6	0.0	0		
1440 min Winter	2.648	0.0	23.5	0.0	0		
2160 min Winter	1.913	0.0	25.5	0.0	0		
2880 min Winter	1.518	0.0	26.9	0.0	0		
4320 min Winter	1.095	0.0	29.1	0.0	0		
5760 min Winter	0.868	0.0	30.8	0.0	0		
7200 min Winter	0.725	0.0	32.2	0.0	0		
8640 min Winter	0.625	0.0	33.3	0.0	0		
10080 min Winter	0.552	0.0	34.3	0.0	0		
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<u>Summary of Results for 100 year Return Period</u>							
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	29.700	0.450	2.0	0.0	2.0	6.7	O K
30 min Summer	29.763	0.513	2.1	0.1	2.2	7.7	O K
60 min Summer	29.766	0.516	2.1	0.1	2.2	7.7	O K
120 min Summer	29.718	0.468	2.0	0.0	2.0	7.0	O K
180 min Summer	29.660	0.410	2.0	0.0	2.0	6.1	O K
240 min Summer	29.602	0.352	2.0	0.0	2.0	5.3	O K
360 min Summer	29.480	0.230	2.0	0.0	2.0	3.5	O K
480 min Summer	29.384	0.134	2.0	0.0	2.0	2.0	O K
600 min Summer	29.326	0.076	2.0	0.0	2.0	1.1	O K
720 min Summer	29.298	0.048	2.0	0.0	2.0	0.7	O K
960 min Summer	29.278	0.028	1.6	0.0	1.6	0.4	O K
1440 min Summer	29.258	0.008	1.2	0.0	1.2	0.1	O K
2160 min Summer	29.250	0.000	0.9	0.0	0.9	0.0	O K
2880 min Summer	29.250	0.000	0.7	0.0	0.7	0.0	O K
4320 min Summer	29.250	0.000	0.5	0.0	0.5	0.0	O K
5760 min Summer	29.250	0.000	0.4	0.0	0.4	0.0	O K
7200 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
8640 min Summer	29.250	0.000	0.3	0.0	0.3	0.0	O K
10080 min Summer	29.250	0.000	0.2	0.0	0.2	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	103.086	0.0	8.5	0.0	17		
30 min Summer	66.926	0.0	11.1	0.0	30		
60 min Summer	41.341	0.0	13.7	0.1	46		
120 min Summer	24.668	0.0	16.3	0.0	80		
180 min Summer	18.001	0.0	17.8	0.0	116		
240 min Summer	14.314	0.0	18.9	0.0	150		
360 min Summer	10.338	0.0	20.5	0.0	212		
480 min Summer	8.206	0.0	21.7	0.0	266		
600 min Summer	6.855	0.0	22.6	0.0	320		
720 min Summer	5.916	0.0	23.4	0.0	370		
960 min Summer	4.685	0.0	24.7	0.0	492		
1440 min Summer	3.368	0.0	26.7	0.0	734		
2160 min Summer	2.418	0.0	28.7	0.0	0		
2880 min Summer	1.909	0.0	30.2	0.0	0		
4320 min Summer	1.367	0.0	32.5	0.0	0		
5760 min Summer	1.078	0.0	34.1	0.0	0		
7200 min Summer	0.896	0.0	35.5	0.0	0		
8640 min Summer	0.770	0.0	36.6	0.0	0		
10080 min Summer	0.677	0.0	37.5	0.0	0		
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