

Appendix M Rainfall Runoff Modelling Summary 1 in 30 Year event

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 24/01/2023 06:51 File Nutts Lane.SRCX				Designed by sheph Checked by			
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<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	88.959	0.209	1.0	0.0	1.0	29.2	O K
30 min Summer	89.019	0.269	1.0	0.0	1.0	37.7	O K
60 min Summer	89.078	0.328	1.0	0.0	1.0	46.0	O K
120 min Summer	89.133	0.383	1.0	0.0	1.0	53.6	O K
180 min Summer	89.160	0.410	1.0	0.0	1.0	57.3	O K
240 min Summer	89.175	0.425	1.0	0.0	1.0	59.4	O K
360 min Summer	89.188	0.438	1.0	0.0	1.0	61.3	O K
480 min Summer	89.190	0.440	1.0	0.0	1.0	61.6	O K
600 min Summer	89.185	0.435	1.0	0.0	1.0	60.9	O K
720 min Summer	89.179	0.429	1.0	0.0	1.0	60.0	O K
960 min Summer	89.163	0.413	1.0	0.0	1.0	57.8	O K
1440 min Summer	89.131	0.381	1.0	0.0	1.0	53.3	O K
2160 min Summer	89.085	0.335	1.0	0.0	1.0	46.9	O K
2880 min Summer	89.043	0.293	1.0	0.0	1.0	41.0	O K
4320 min Summer	88.971	0.221	1.0	0.0	1.0	30.9	O K
5760 min Summer	88.917	0.167	1.0	0.0	1.0	23.4	O K
7200 min Summer	88.879	0.129	0.9	0.0	0.9	18.1	O K
8640 min Summer	88.853	0.103	0.9	0.0	0.9	14.5	O K
10080 min Summer	88.836	0.086	0.9	0.0	0.9	12.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	76.035	0.0	29.2	0.0	19		
30 min Summer	49.499	0.0	38.1	0.0	33		
60 min Summer	30.811	0.0	48.2	0.0	64		
120 min Summer	18.615	0.0	58.2	0.0	122		
180 min Summer	13.715	0.0	64.4	0.0	182		
240 min Summer	10.995	0.0	68.8	0.0	242		
360 min Summer	8.034	0.0	75.4	0.0	362		
480 min Summer	6.428	0.0	80.5	0.0	480		
600 min Summer	5.404	0.0	84.5	0.0	584		
720 min Summer	4.687	0.0	88.0	0.0	630		
960 min Summer	3.743	0.0	93.6	0.0	744		
1440 min Summer	2.723	0.0	102.0	0.0	984		
2160 min Summer	1.979	0.0	112.0	0.0	1384		
2880 min Summer	1.577	0.0	118.9	0.0	1764		
4320 min Summer	1.143	0.0	129.2	0.0	2508		
5760 min Summer	0.910	0.0	137.5	0.0	3224		
7200 min Summer	0.762	0.0	143.8	0.0	3896		
8640 min Summer	0.659	0.0	149.2	0.0	4584		
10080 min Summer	0.583	0.0	153.7	0.0	5248		
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Easy Flood Risk

55 Shepherds Lane

Dartford

DA1 2NL

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (1/s)	Max Overflow (1/s)	Max Outflow (1/s)	Max Volume (m³)	Status
15 min Winter	88.984	0.234	1.0	0.0	1.0	32.8	O K
30 min Winter	89.052	0.302	1.0	0.0	1.0	42.3	O K
60 min Winter	89.120	0.370	1.0	0.0	1.0	51.8	O K
120 min Winter	89.184	0.434	1.0	0.0	1.0	60.7	O K
180 min Winter	89.216	0.466	1.0	0.0	1.0	65.2	O K
240 min Winter	89.233	0.483	1.0	0.0	1.0	67.7	O K
360 min Winter	89.251	0.501	1.0	0.0	1.0	70.1	O K
480 min Winter	89.256	0.506	1.0	0.0	1.0	70.8	O K
600 min Winter	89.254	0.504	1.0	0.0	1.0	70.5	O K
720 min Winter	89.247	0.497	1.0	0.0	1.0	69.6	O K
960 min Winter	89.228	0.478	1.0	0.0	1.0	67.0	O K
1440 min Winter	89.190	0.440	1.0	0.0	1.0	61.5	O K
2160 min Winter	89.116	0.366	1.0	0.0	1.0	51.2	O K
2880 min Winter	89.048	0.298	1.0	0.0	1.0	41.8	O K
4320 min Winter	88.942	0.192	1.0	0.0	1.0	26.9	O K
5760 min Winter	88.875	0.125	0.9	0.0	0.9	17.5	O K
7200 min Winter	88.837	0.087	0.9	0.0	0.9	12.2	O K
8640 min Winter	88.821	0.071	0.8	0.0	0.8	9.9	O K
10080 min Winter	88.812	0.062	0.7	0.0	0.7	8.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)
15 min Winter	76.035	0.0	32.7	0.0	19
30 min Winter	49.499	0.0	42.7	0.0	33
60 min Winter	30.811	0.0	54.0	0.0	62
120 min Winter	18.615	0.0	65.2	0.0	122
180 min Winter	13.715	0.0	72.1	0.0	180
240 min Winter	10.995	0.0	77.1	0.0	238
360 min Winter	8.034	0.0	84.5	0.0	352
480 min Winter	6.428	0.0	90.1	0.0	466
600 min Winter	5.404	0.0	94.6	0.0	576
720 min Winter	4.687	0.0	98.5	0.0	682
960 min Winter	3.743	0.0	104.8	0.0	800
1440 min Winter	2.723	0.0	114.0	0.0	1096
2160 min Winter	1.979	0.0	125.4	0.0	1516
2880 min Winter	1.577	0.0	133.2	0.0	1904
4320 min Winter	1.143	0.0	144.8	0.0	2636
5760 min Winter	0.910	0.0	154.0	0.0	3288
7200 min Winter	0.762	0.0	161.1	0.0	3896
8640 min Winter	0.659	0.0	167.1	0.0	4576
10080 min Winter	0.583	0.0	172.2	0.0	5240

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.210

Time (mins)	Area
From:	To: (ha)
0	4 0.210

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Model Details

Storage is Online Cover Level (m) 90.000

Tank or Pond Structure

Invert Level (m) 88.750

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	140.0	0.750	140.0

Hydro-Brake® Optimum Outflow Control

Unit Reference	MD-SCI-0048-1000-0750-1000
Design Head (m)	0.750
Design Flow (l/s)	1.0
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	48
Invert Level (m)	88.750
Minimum Outlet Pipe Diameter (mm)	75
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.750	1.0	Kick-Flo®	0.424	0.8
Flush-Flo™	0.196	1.0	Mean Flow over Head Range	-	0.9

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.9	1.200	1.2	3.000	1.9	7.000	2.8
0.200	1.0	1.400	1.3	3.500	2.0	7.500	2.9
0.300	0.9	1.600	1.4	4.000	2.1	8.000	2.9
0.400	0.9	1.800	1.5	4.500	2.3	8.500	3.0
0.500	0.8	2.000	1.6	5.000	2.4	9.000	3.1
0.600	0.9	2.200	1.6	5.500	2.5	9.500	3.2
0.800	1.0	2.400	1.7	6.000	2.6		
1.000	1.1	2.600	1.7	6.500	2.7		

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Hydro-Brake® Optimum Overflow Control

Unit Reference	MD-SCL-0051-1000-0500-1000
Design Head (m)	0.500
Design Flow (l/s)	1.0
Flush-Flo™	Calculated
Objective	Minimise blockage risk
Application	Surface
Sump Available	Yes
Diameter (mm)	51
Invert Level (m)	89.500
Minimum Outlet Pipe Diameter (mm)	75
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.500	1.0	Kick-Flo®	0.306	0.8
Flush-Flo™	0.127	1.0	Mean Flow over Head Range	-	0.9

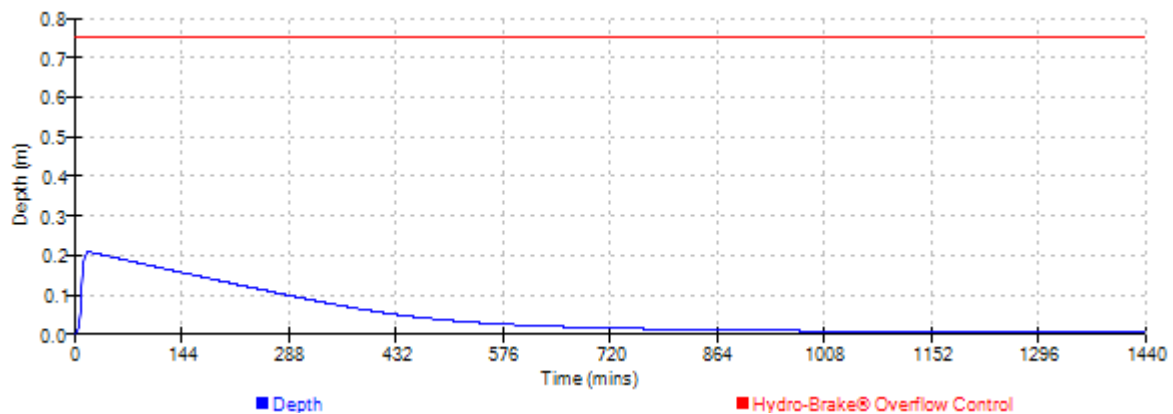
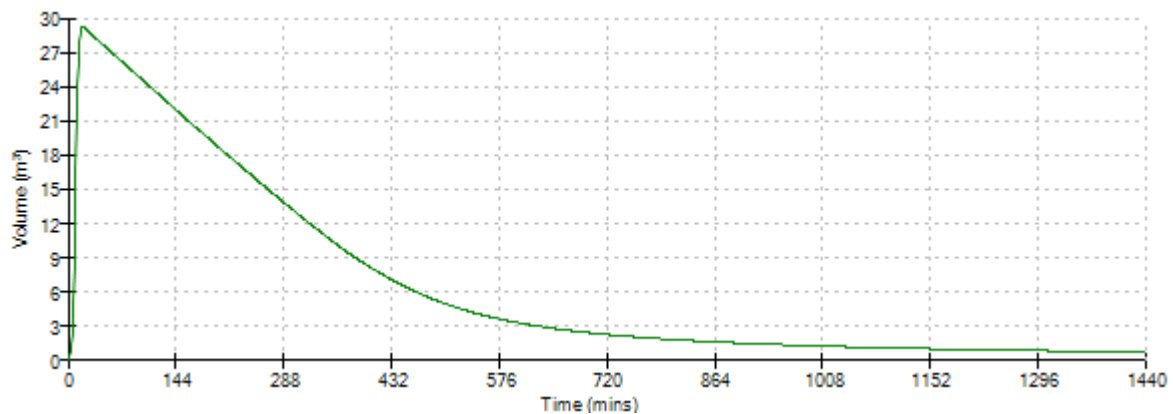
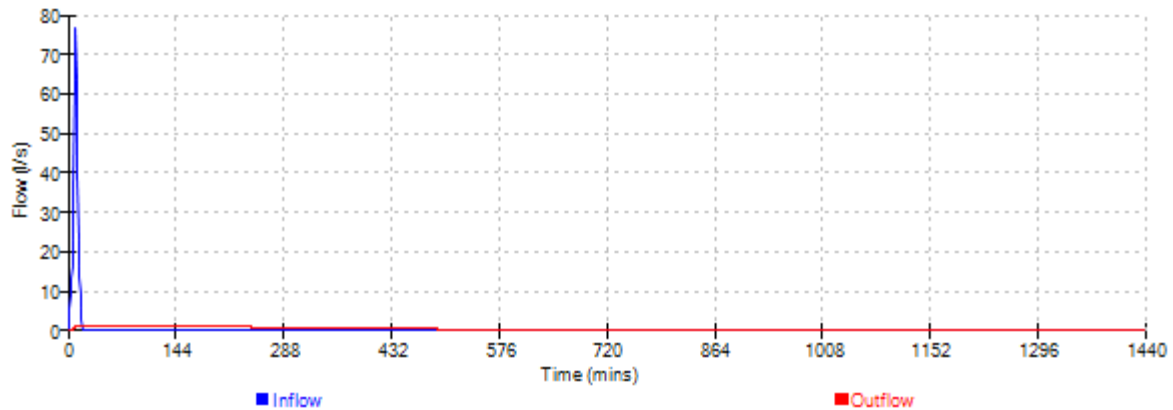
The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.0	1.200	1.5	3.000	2.2	7.000	3.3
0.200	1.0	1.400	1.6	3.500	2.4	7.500	3.4
0.300	0.8	1.600	1.7	4.000	2.5	8.000	3.6
0.400	0.9	1.800	1.8	4.500	2.7	8.500	3.7
0.500	1.0	2.000	1.9	5.000	2.8	9.000	3.8
0.600	1.1	2.200	1.9	5.500	2.9	9.500	3.9
0.800	1.2	2.400	2.0	6.000	3.1		
1.000	1.4	2.600	2.1	6.500	3.2		

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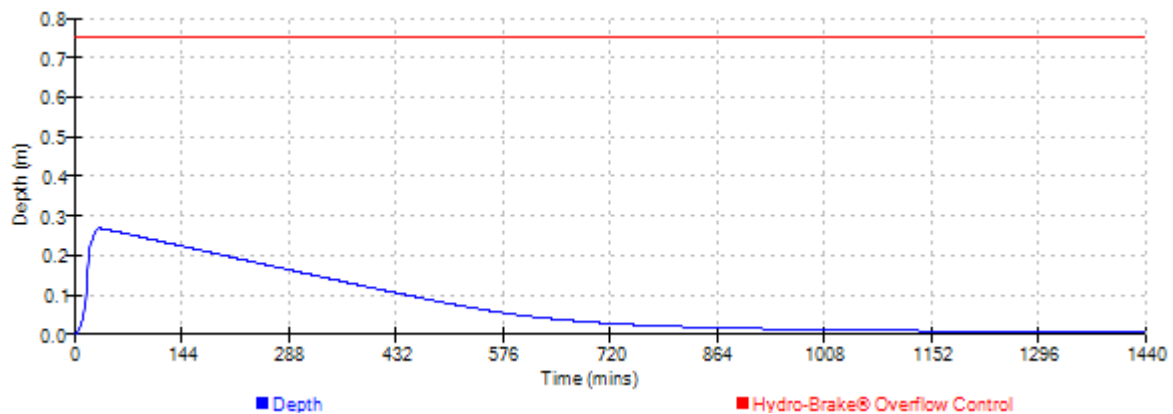
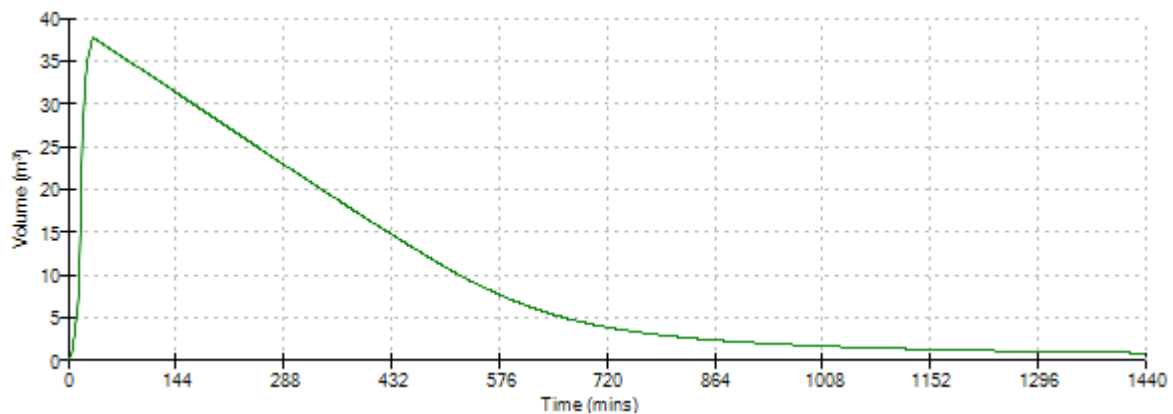
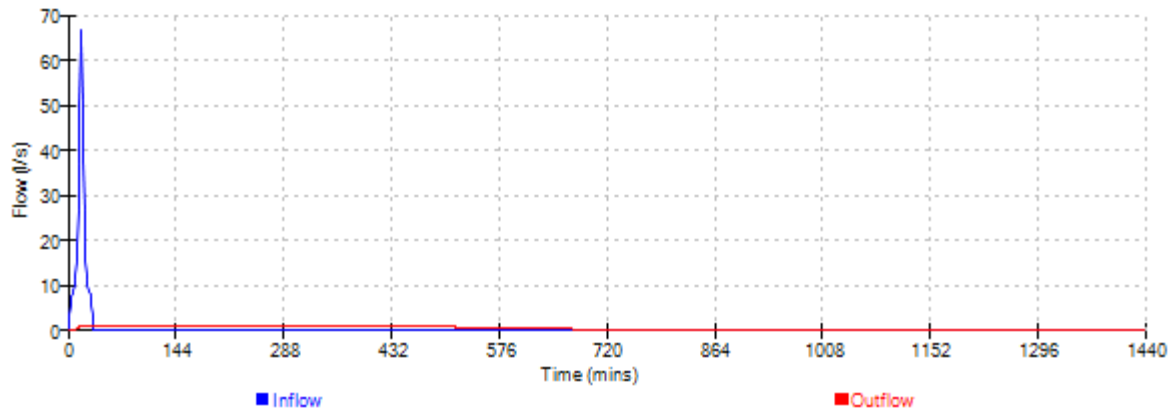
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Event: 15 min Summer



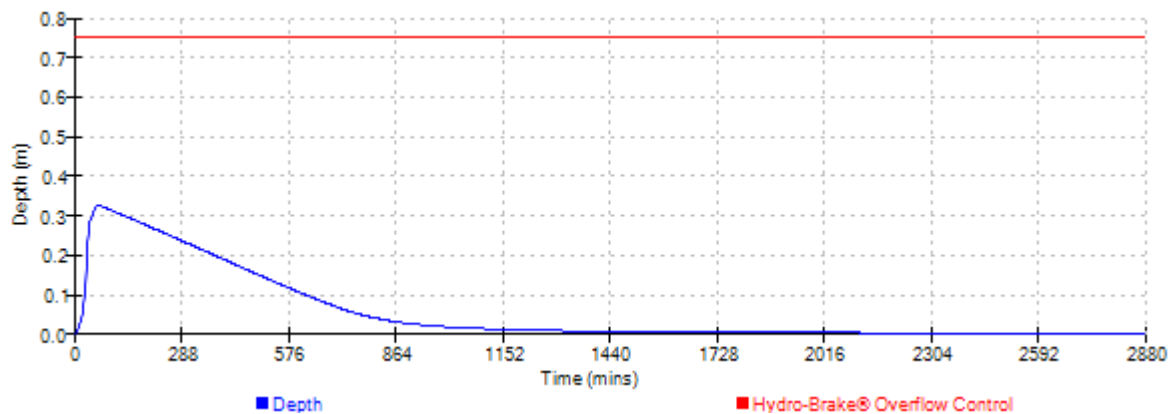
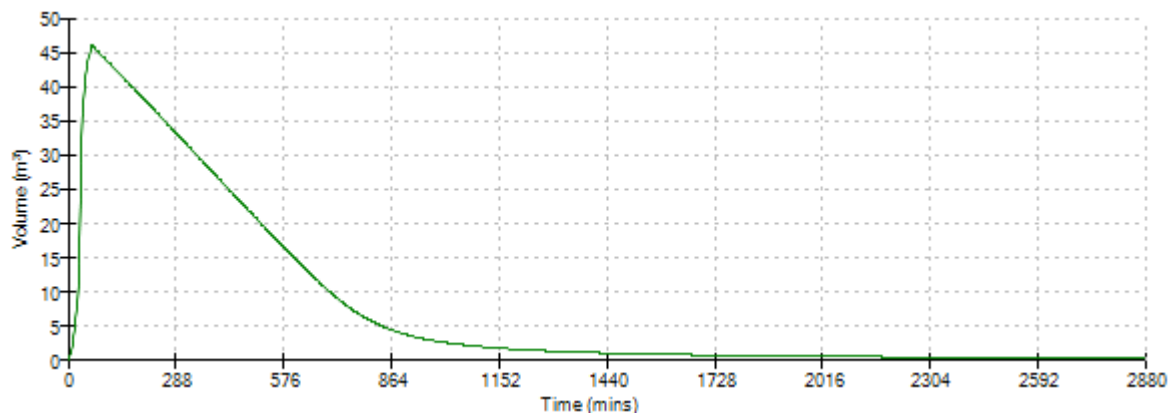
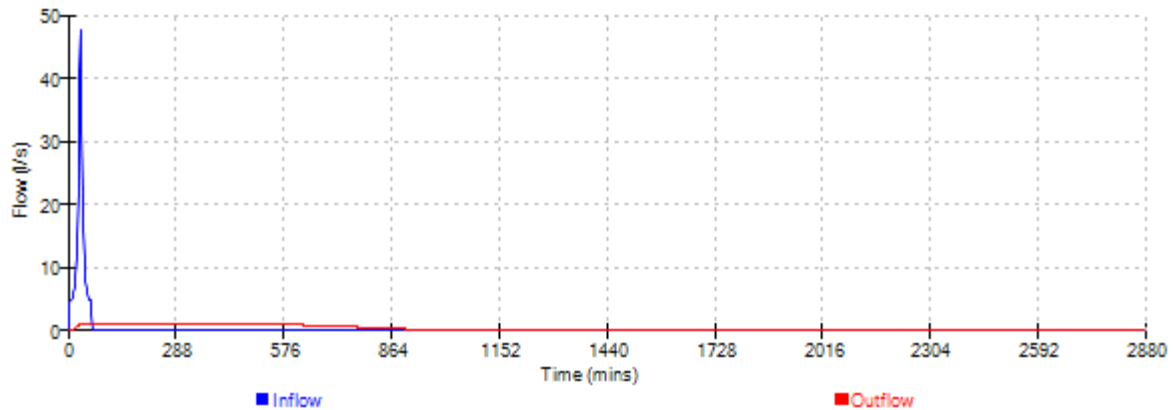
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Event: 30 min Summer



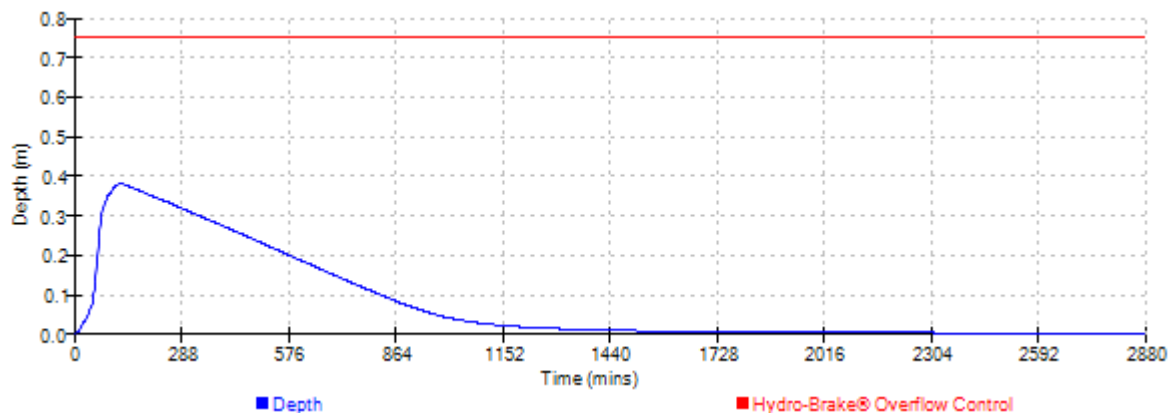
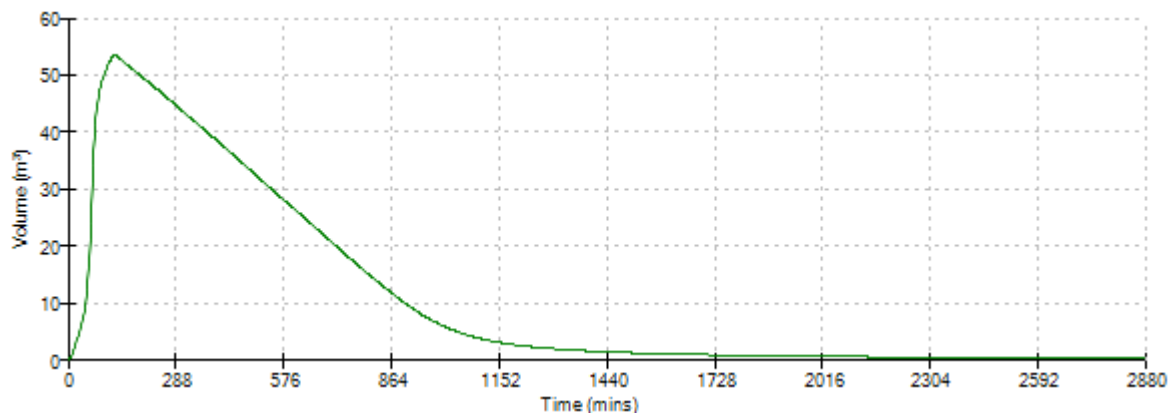
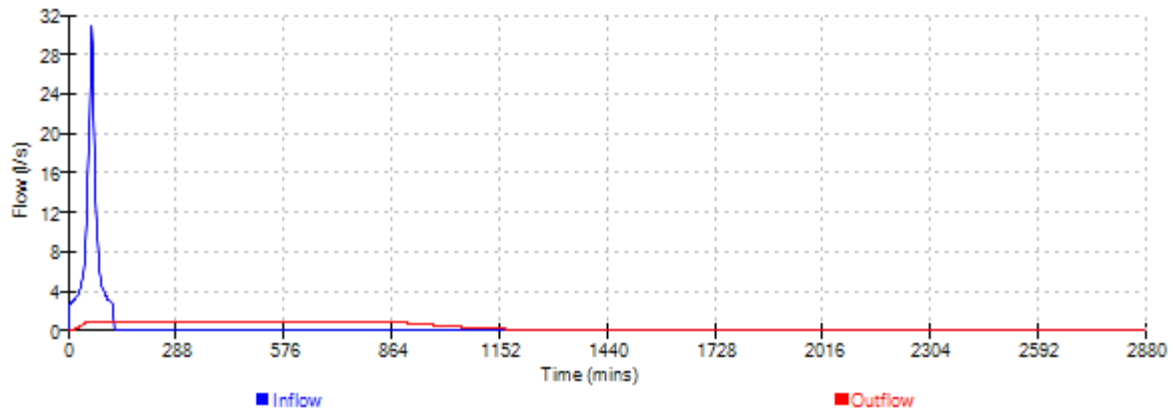
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Event: 60 min Summer



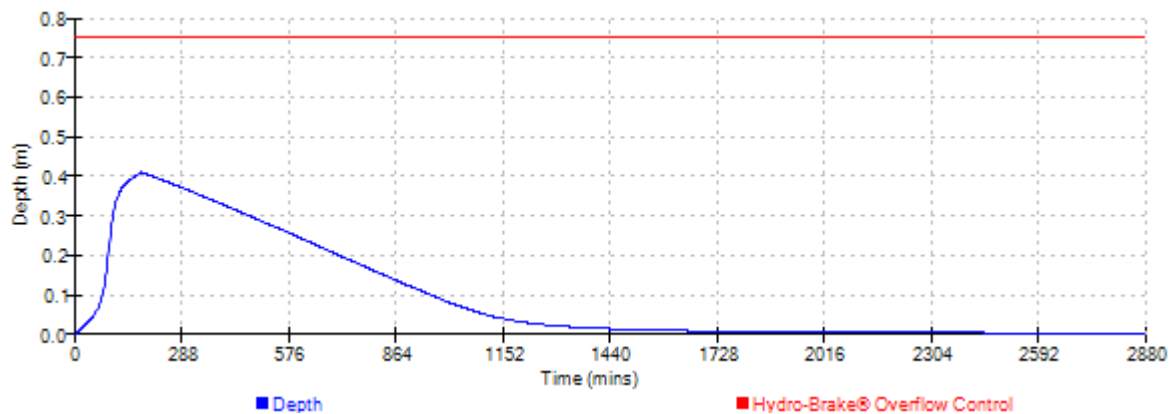
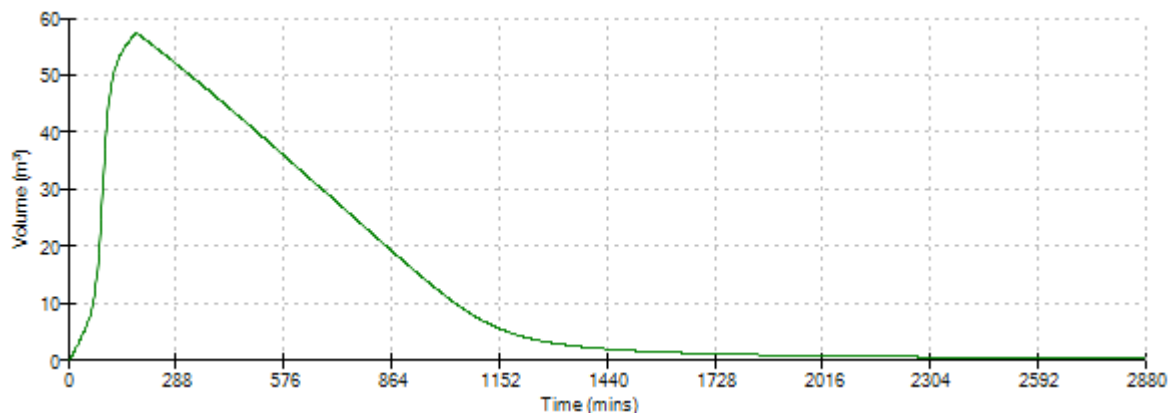
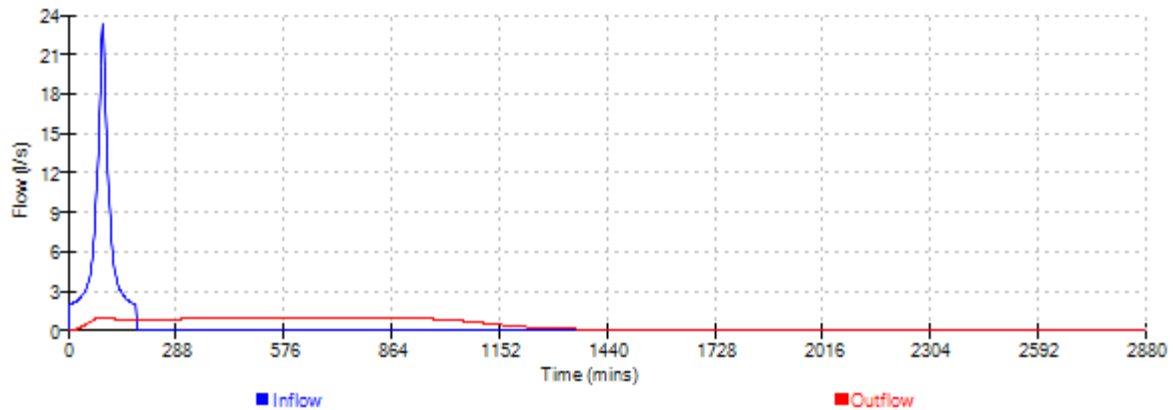
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Event: 120 min Summer



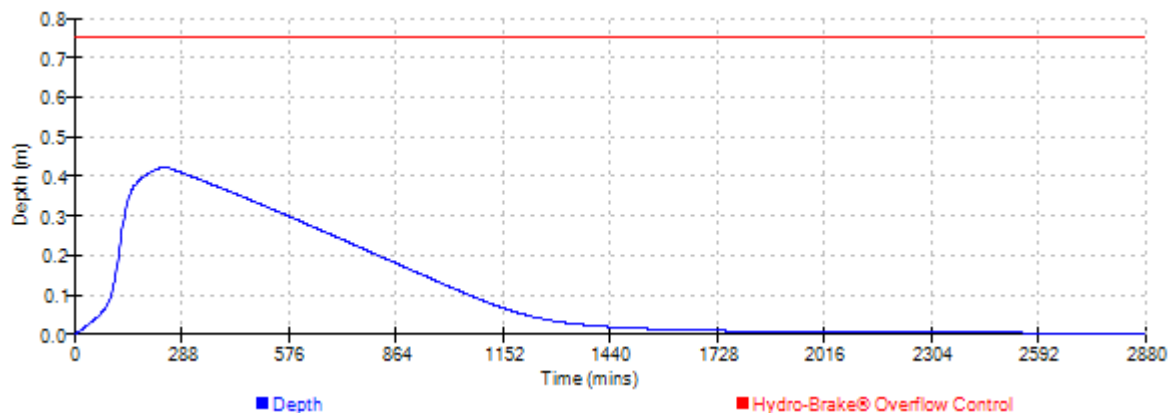
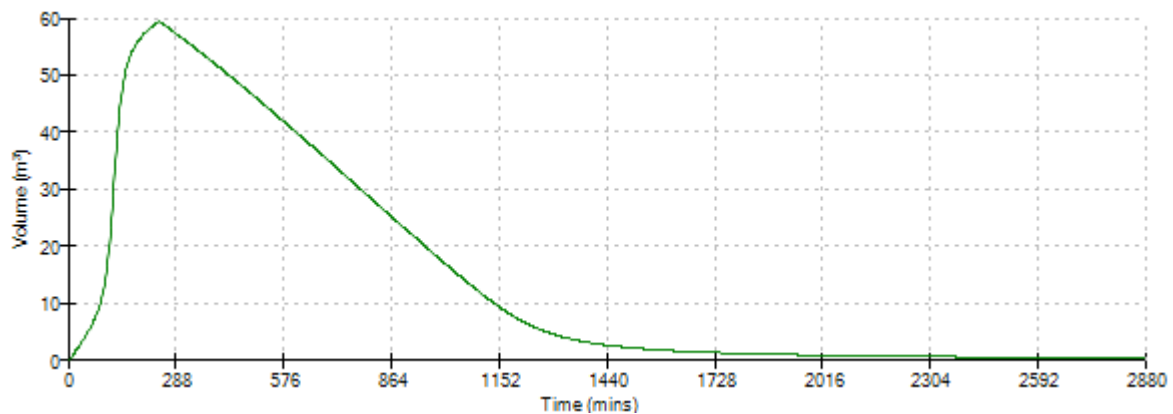
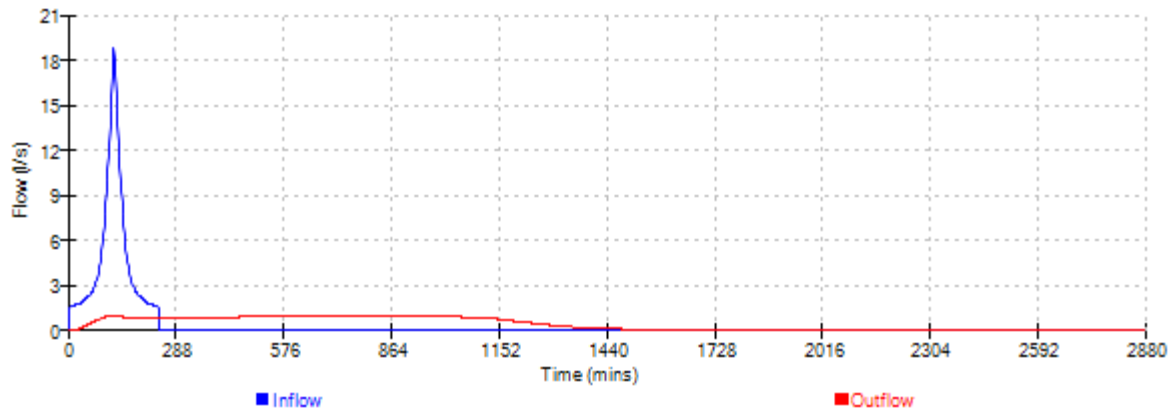
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Event: 180 min Summer



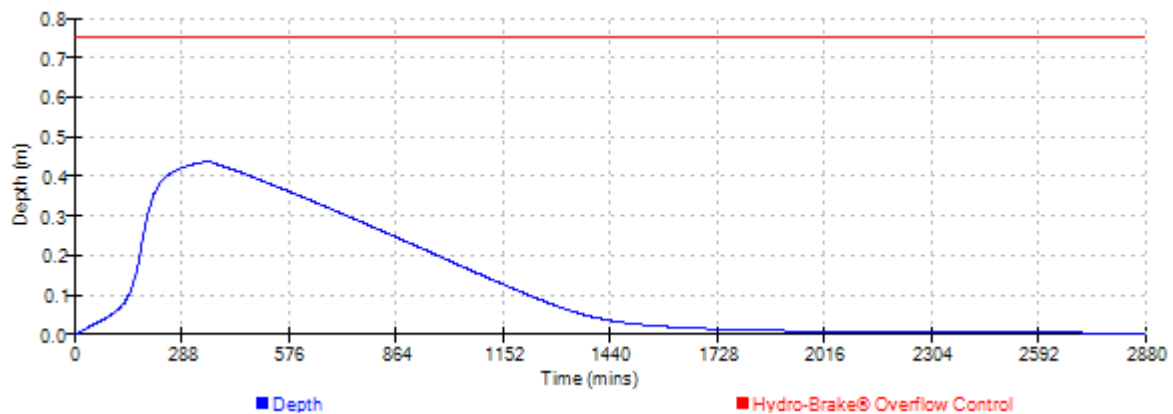
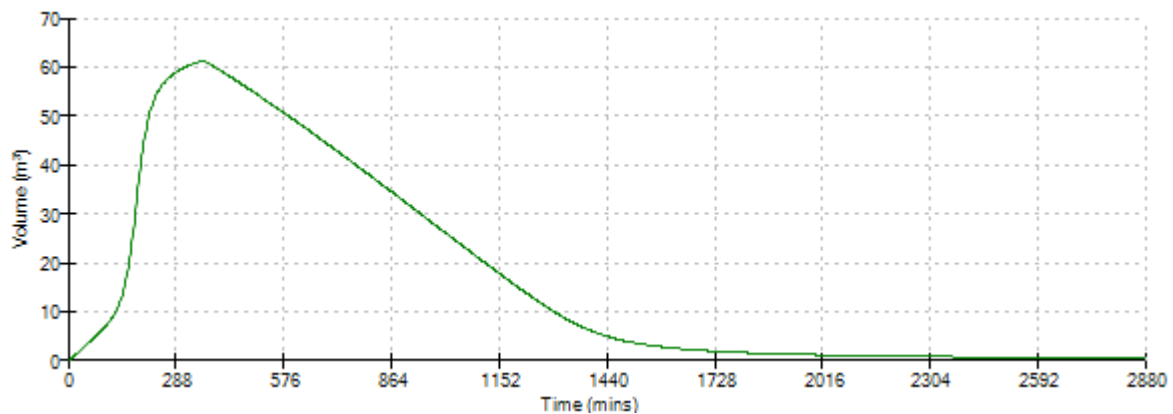
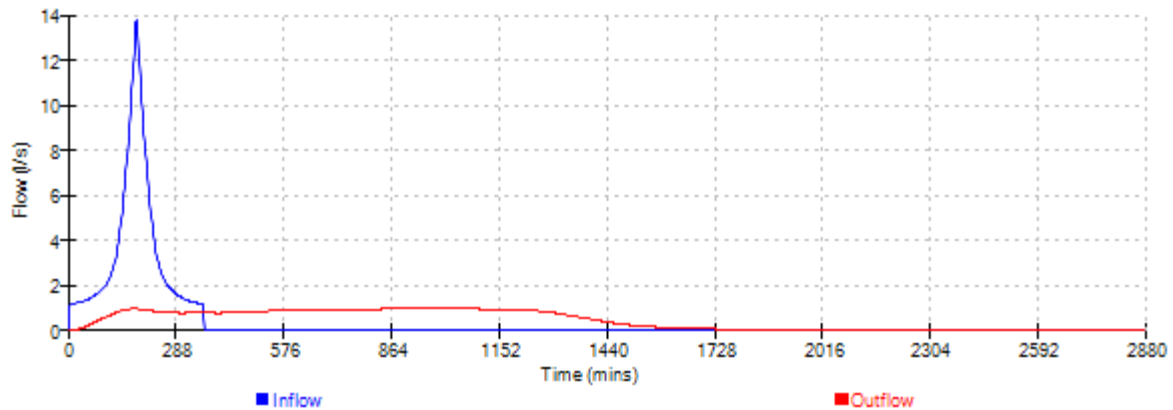
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Event: 240 min Summer



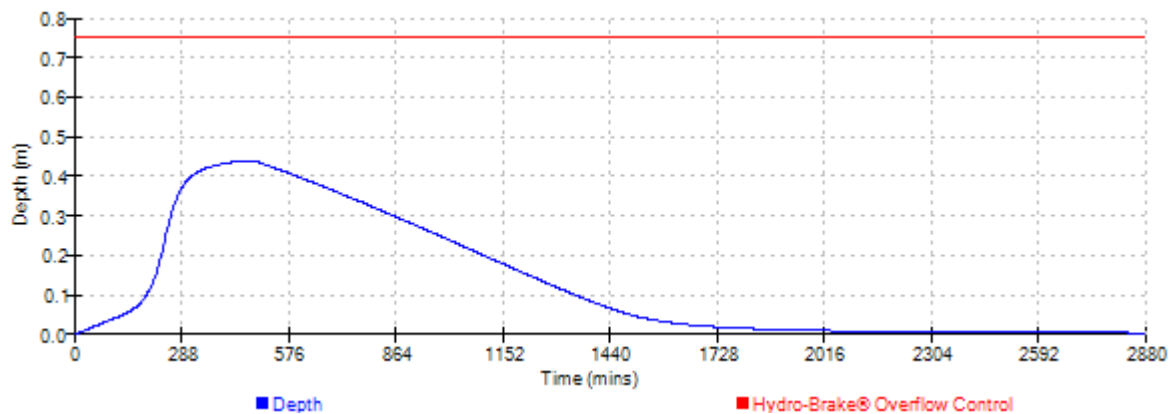
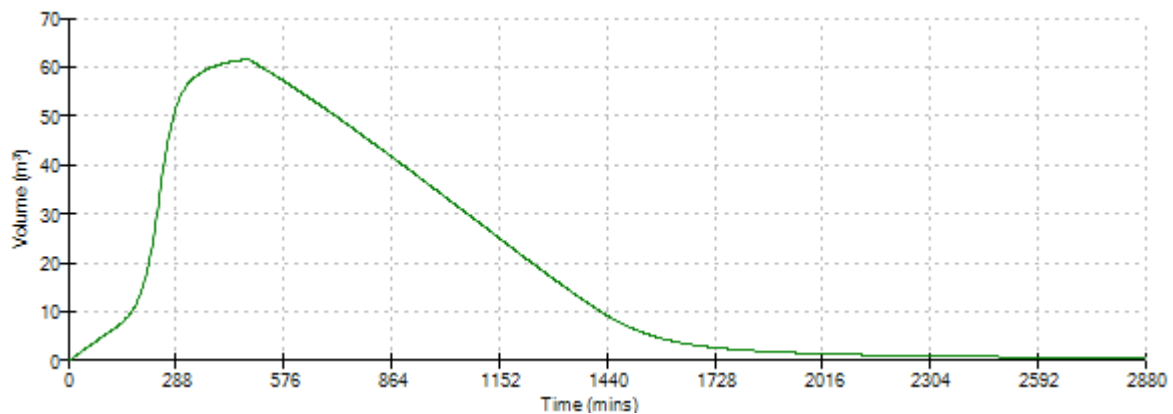
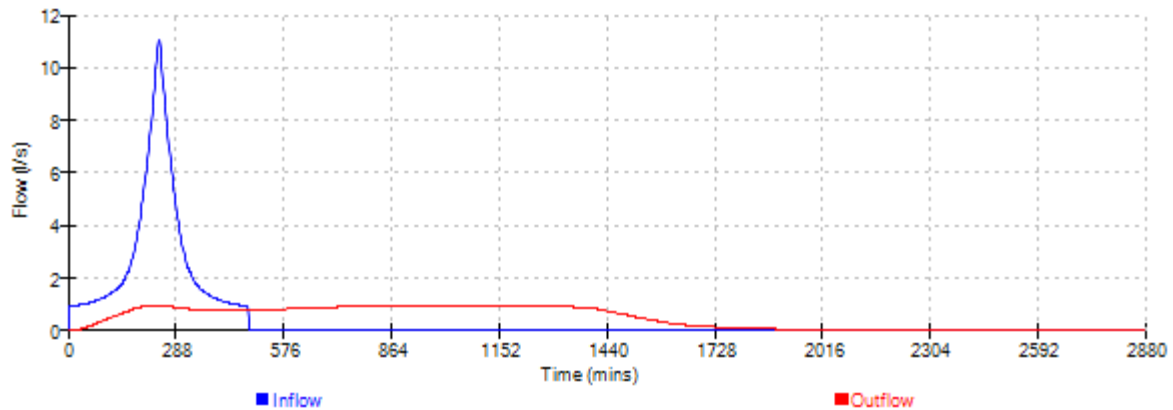
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Event: 360 min Summer



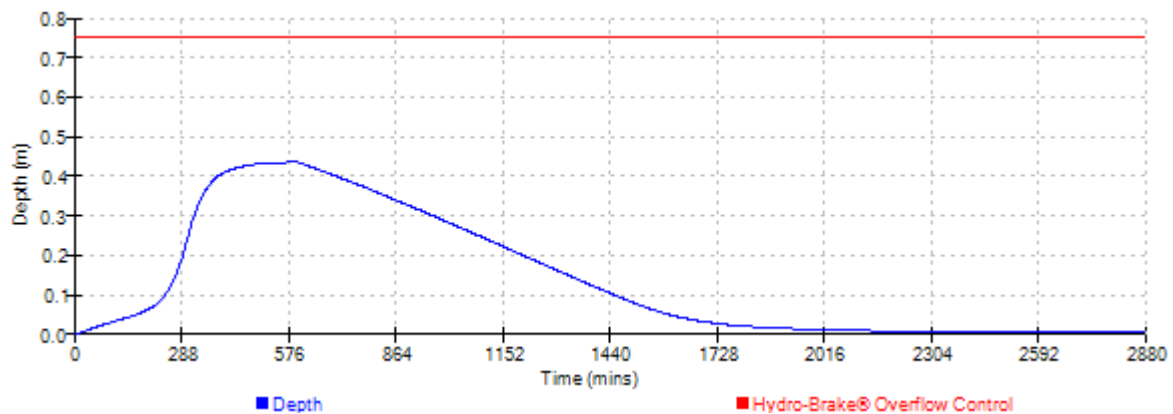
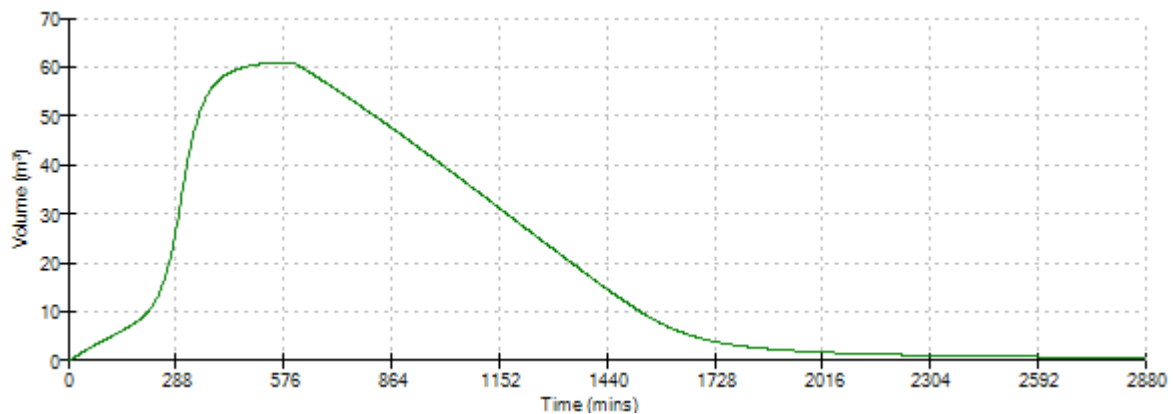
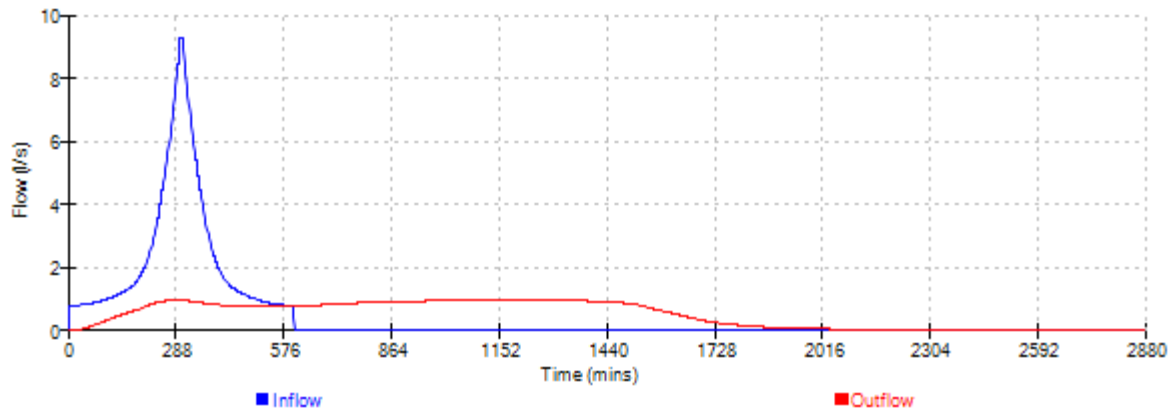
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Event: 480 min Summer



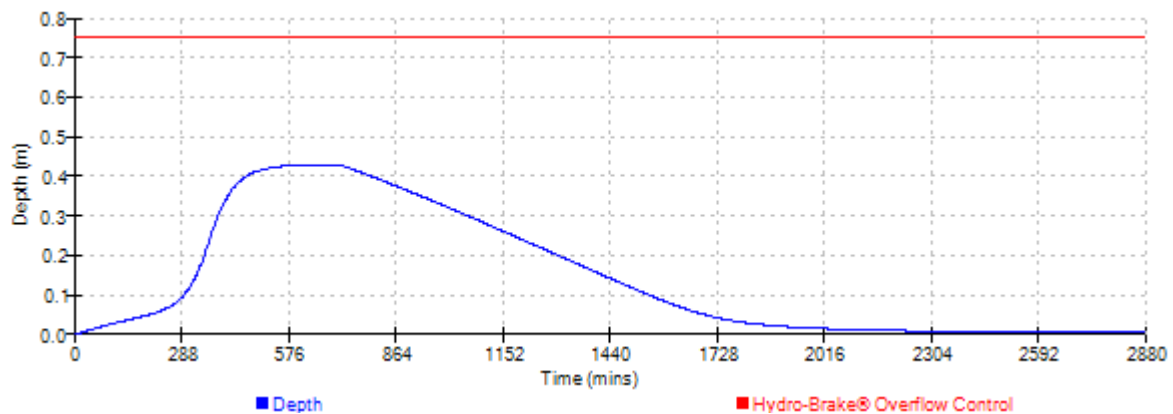
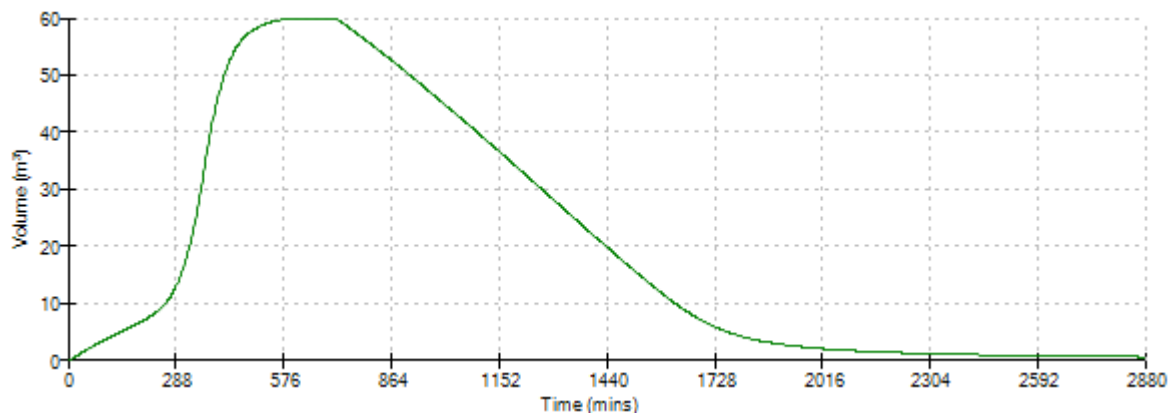
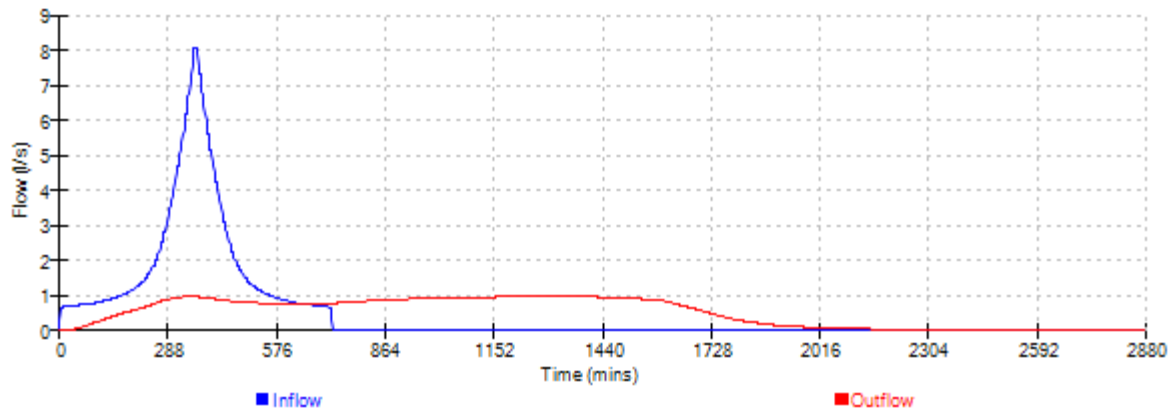
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Event: 600 min Summer



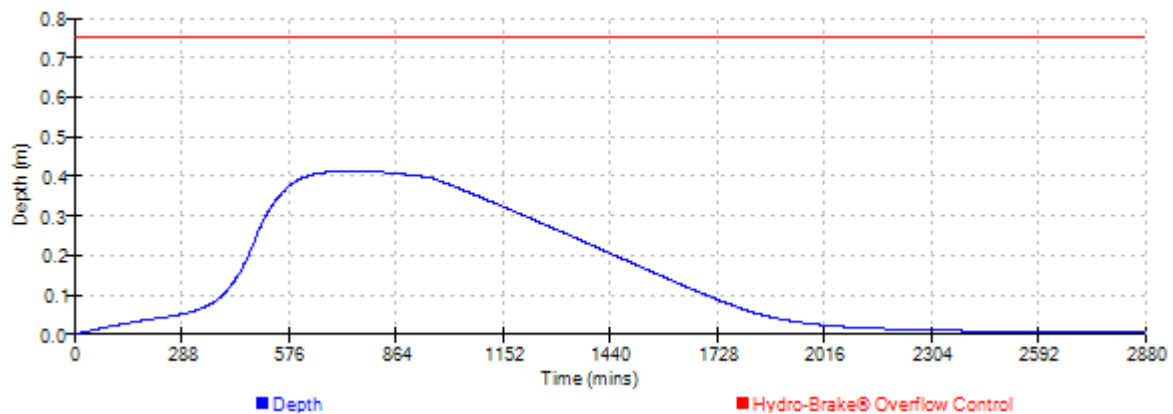
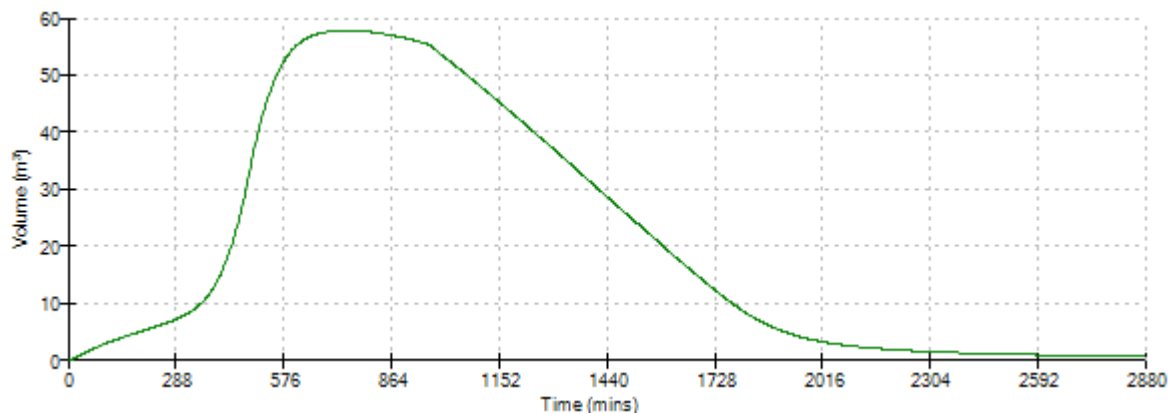
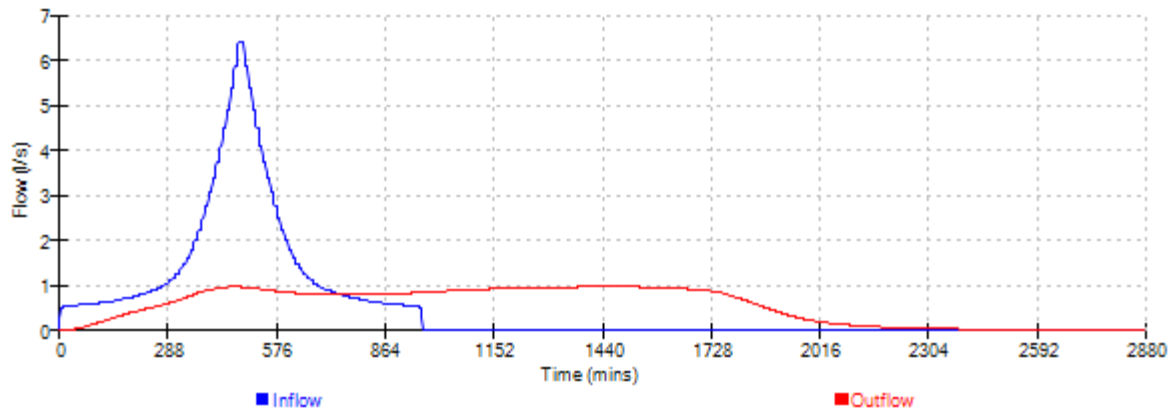
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Event: 720 min Summer



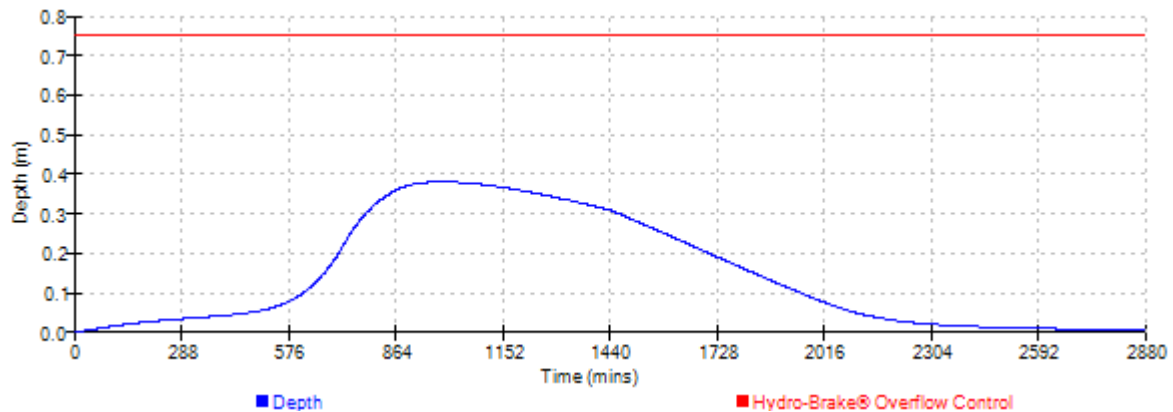
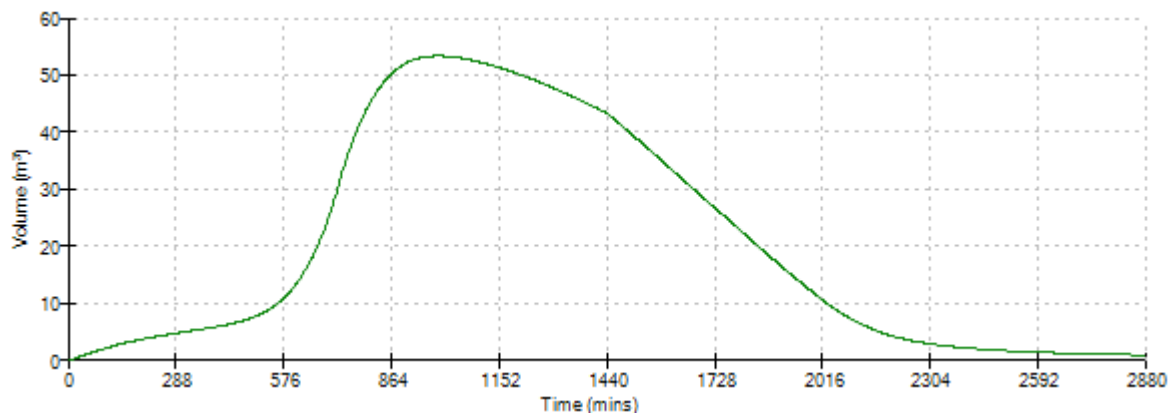
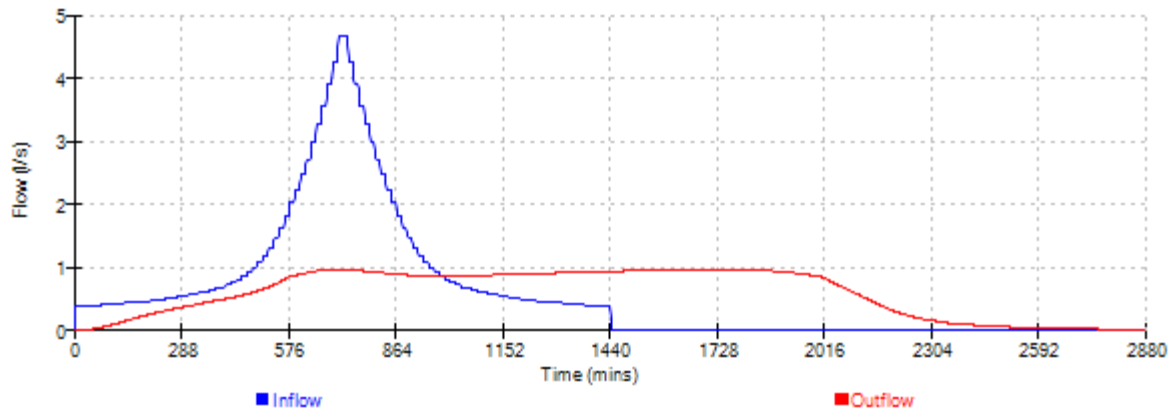
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Event: 960 min Summer



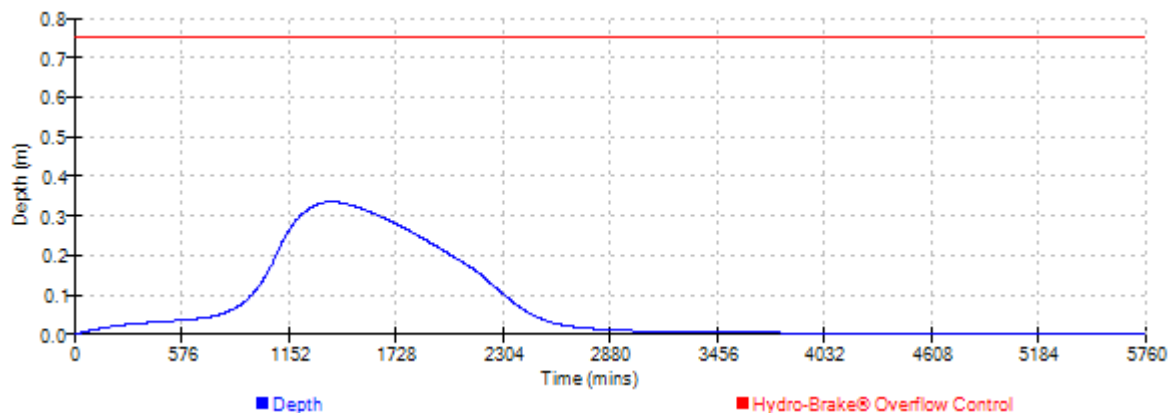
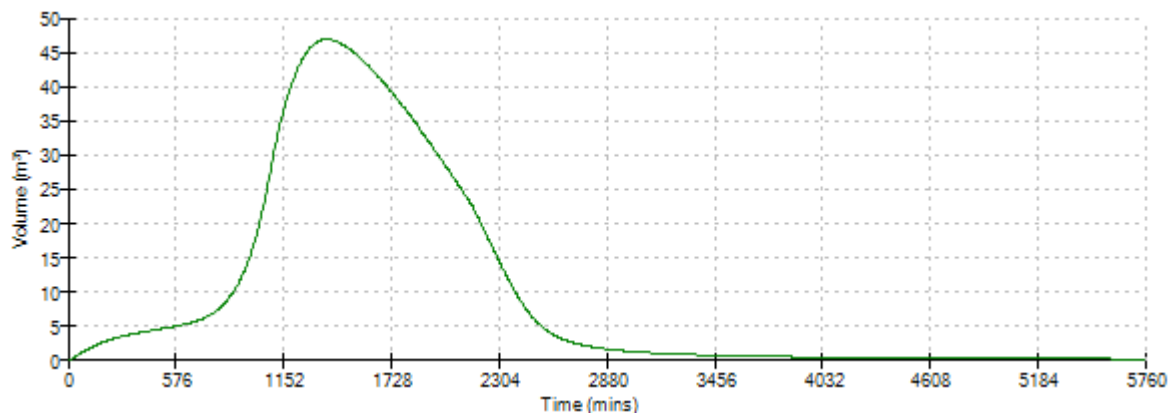
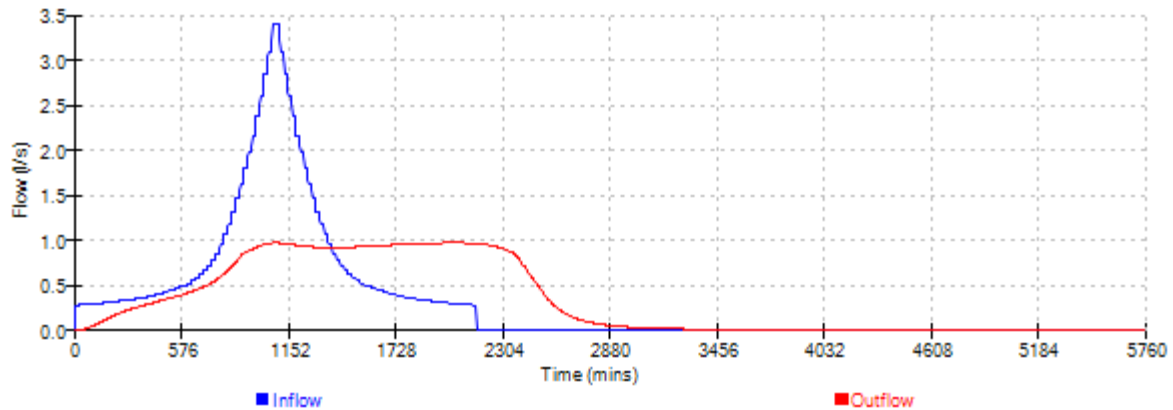
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



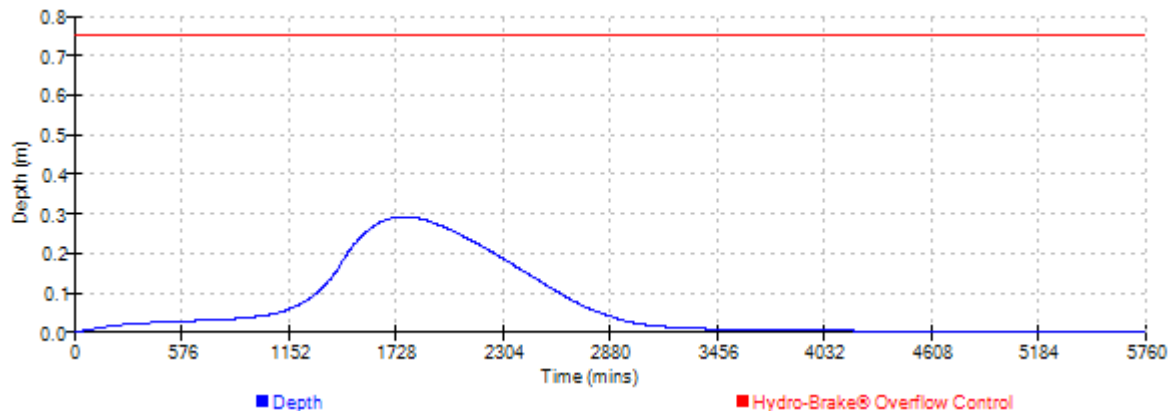
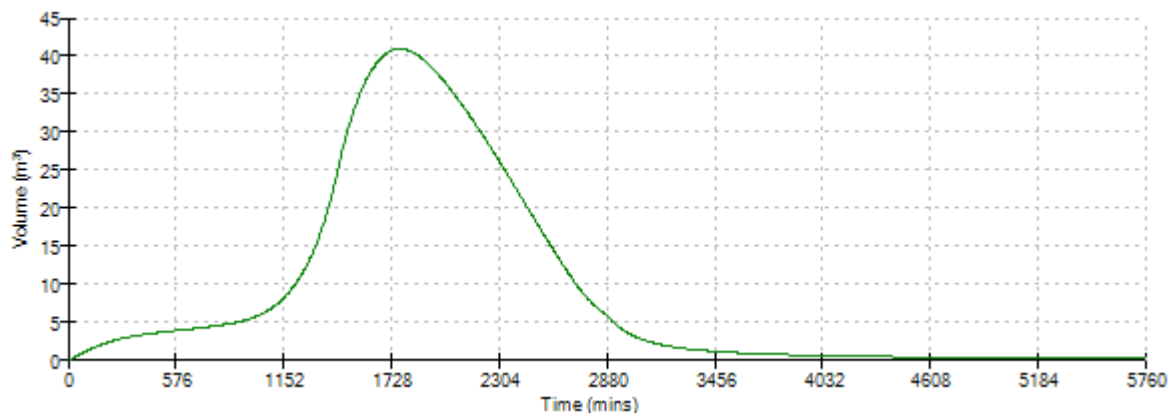
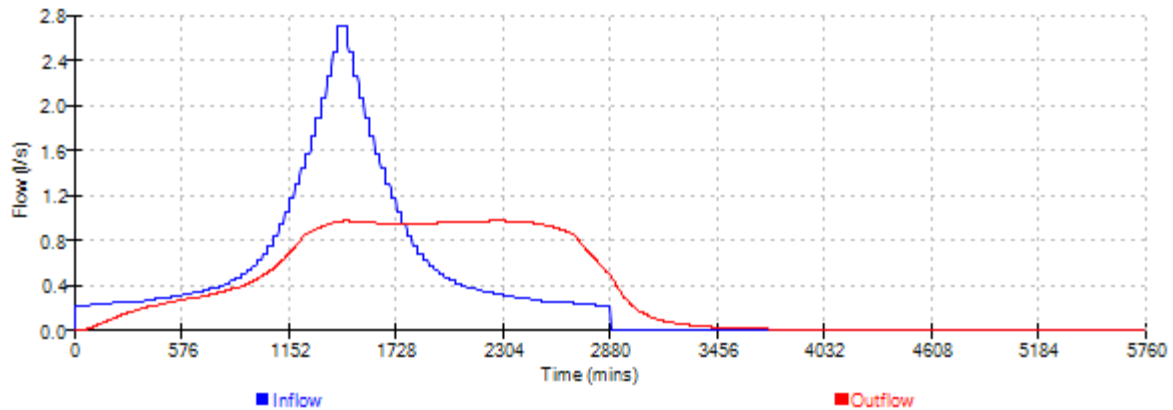
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Summer



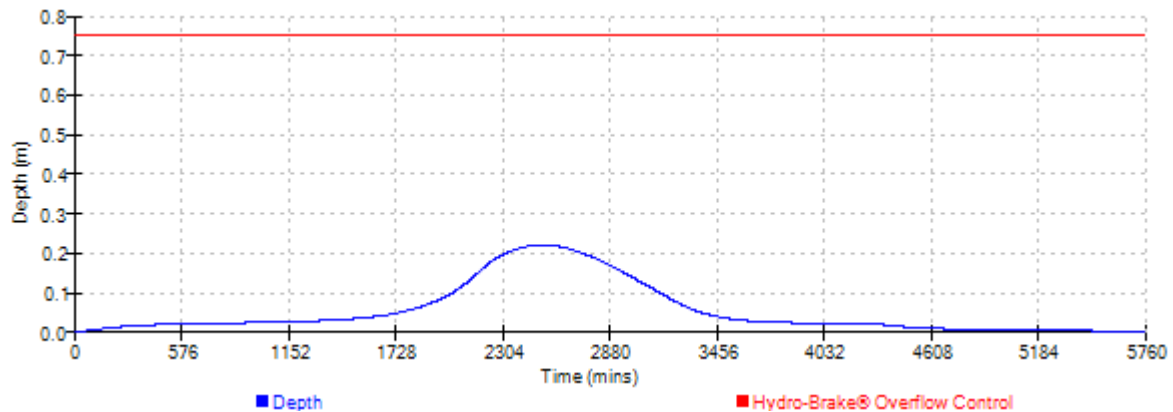
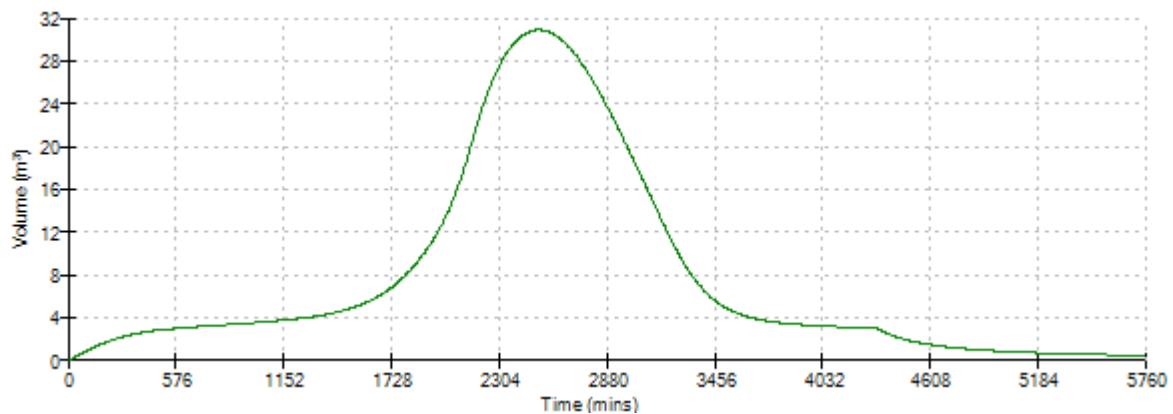
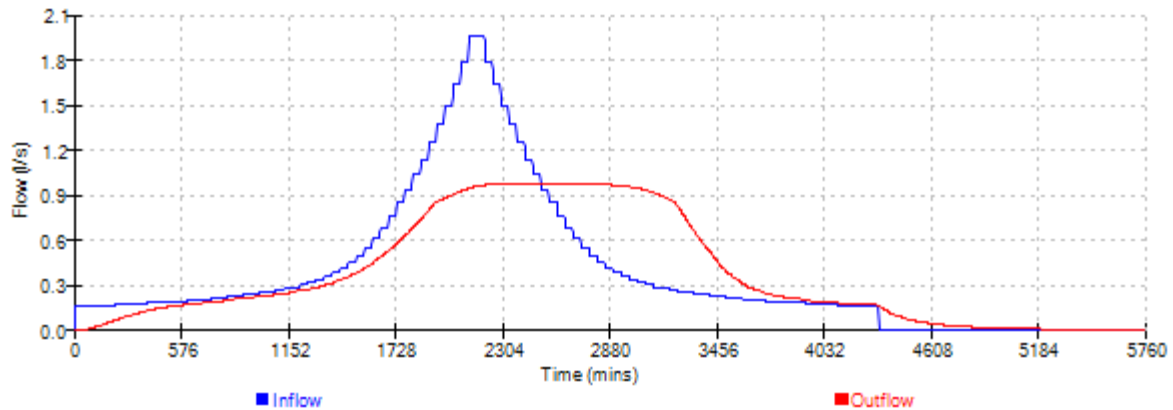
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



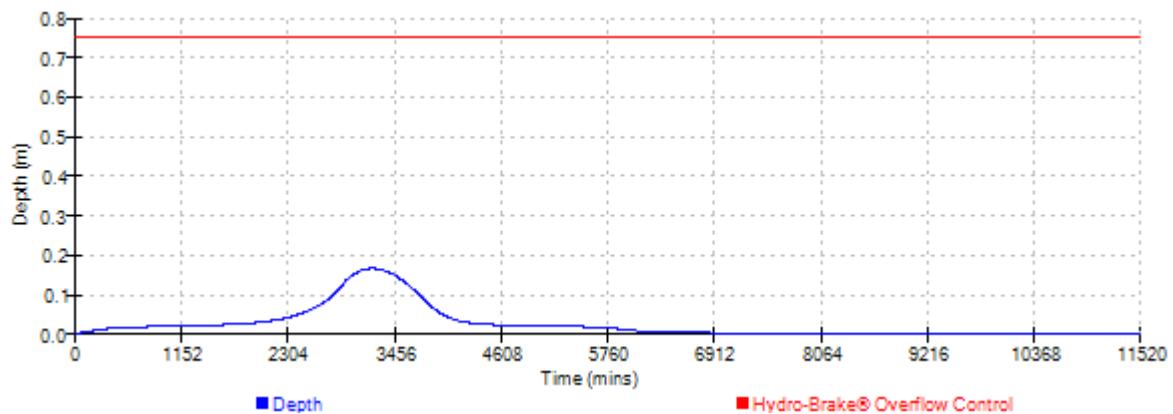
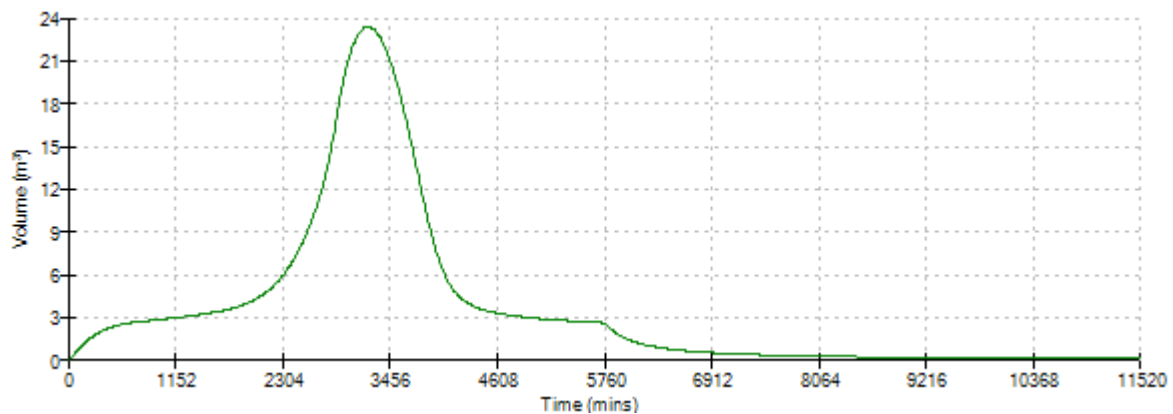
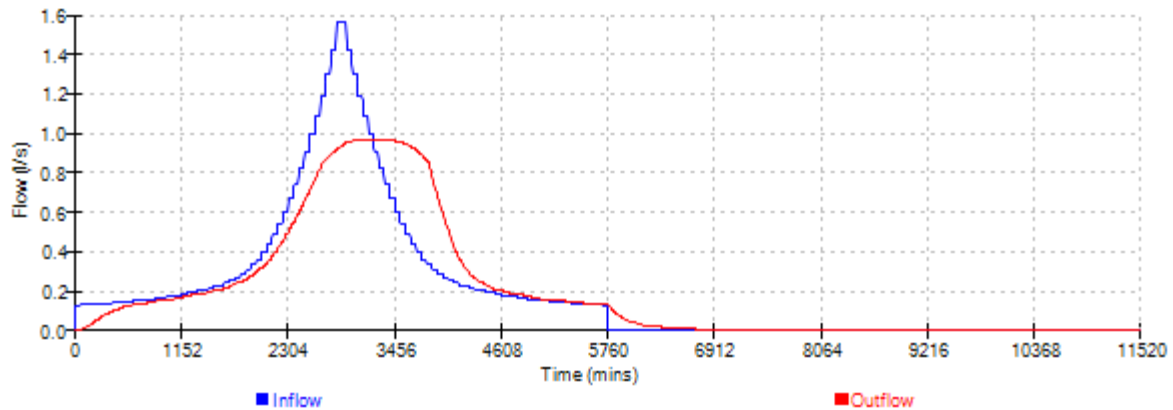
Easy Flood Risk		Page 20
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 4320 min Summer



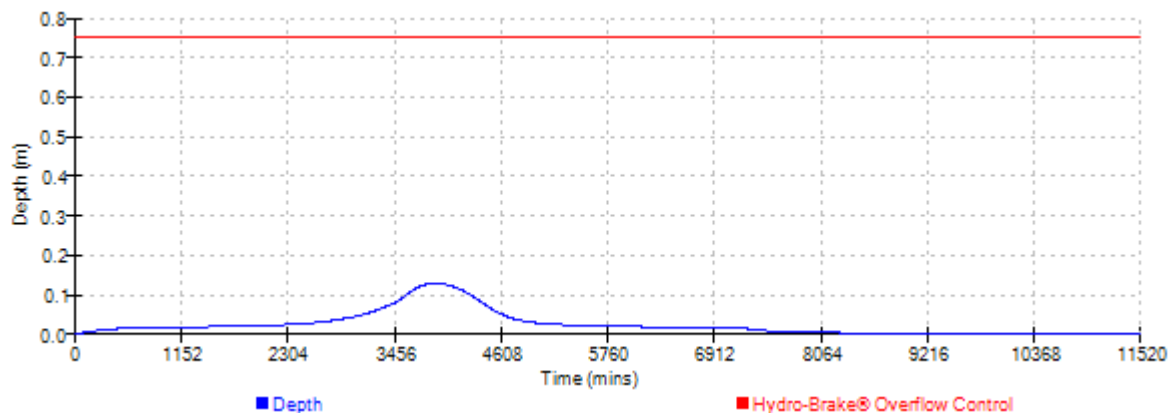
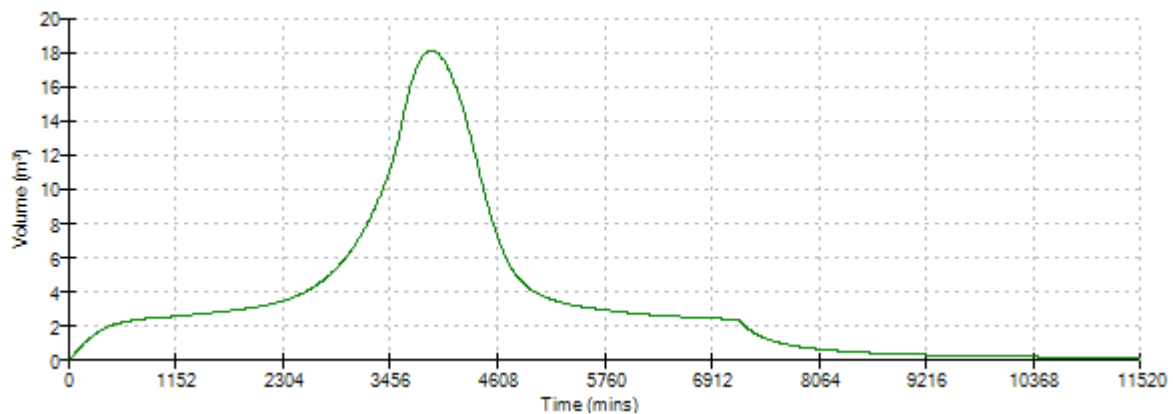
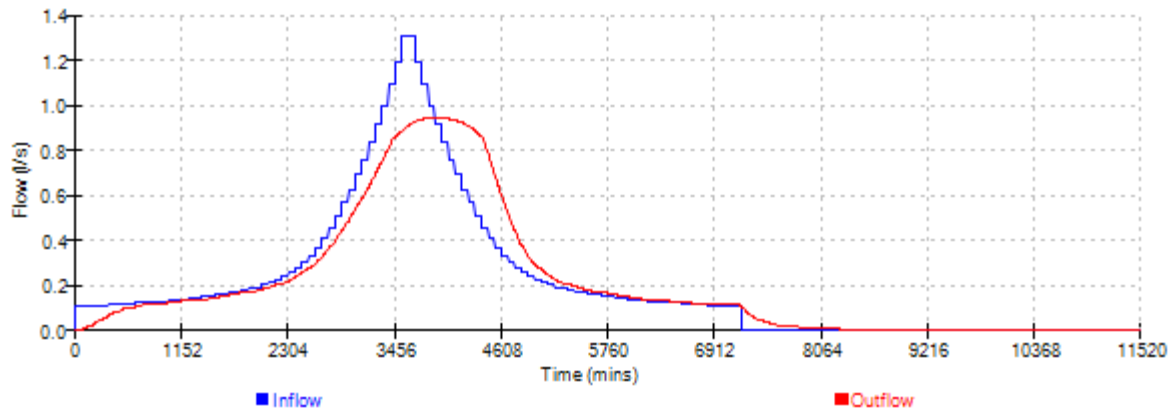
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



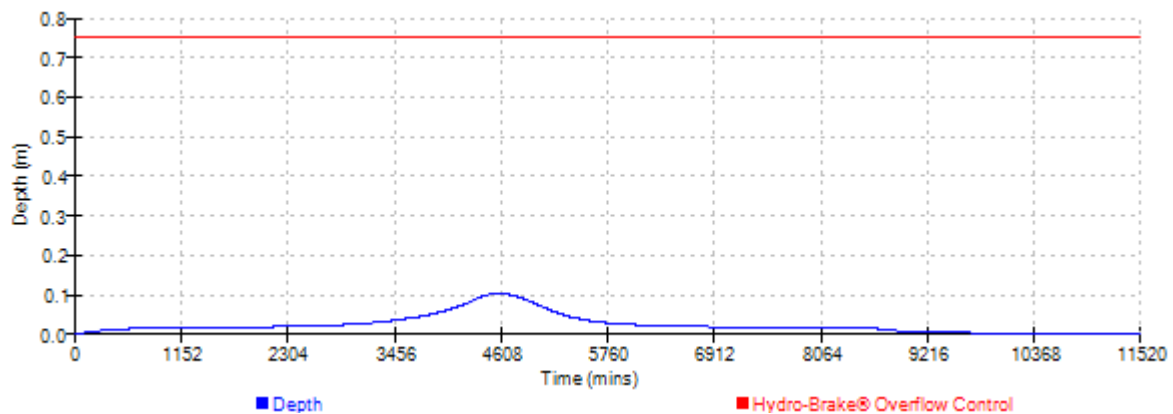
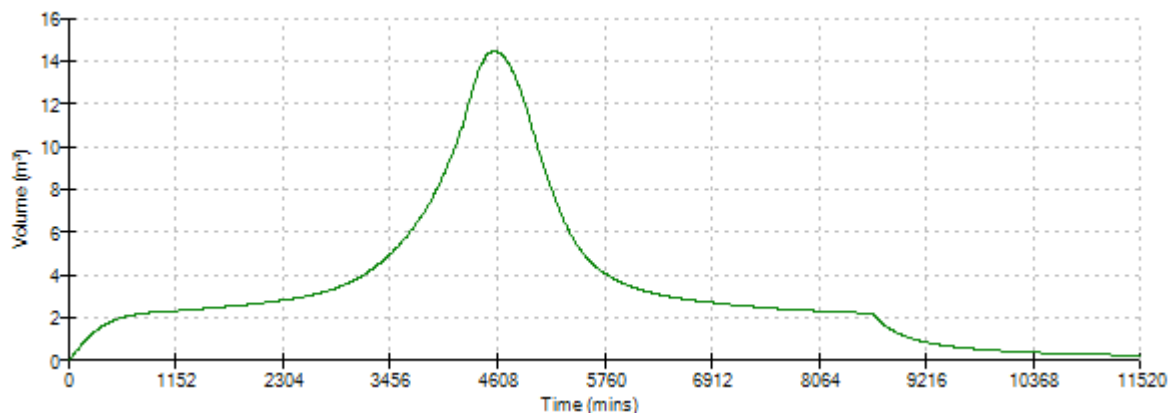
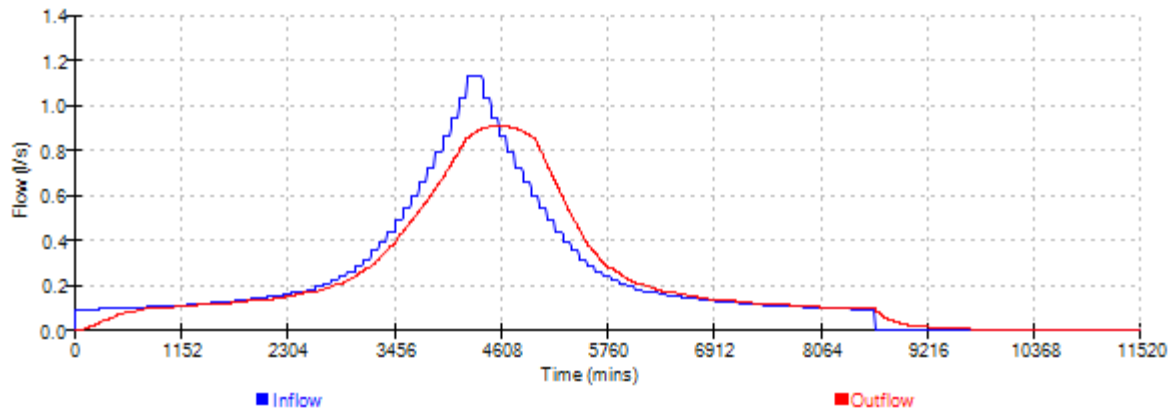
Easy Flood Risk		Page 22
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



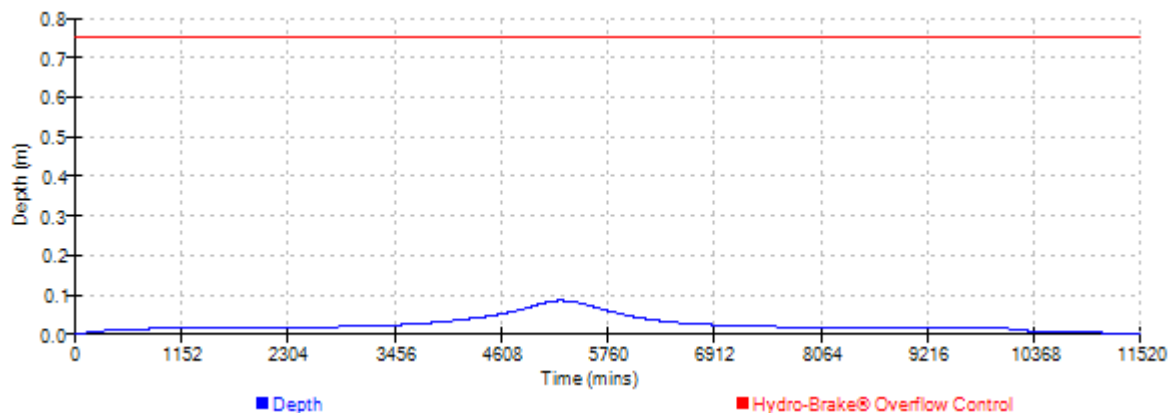
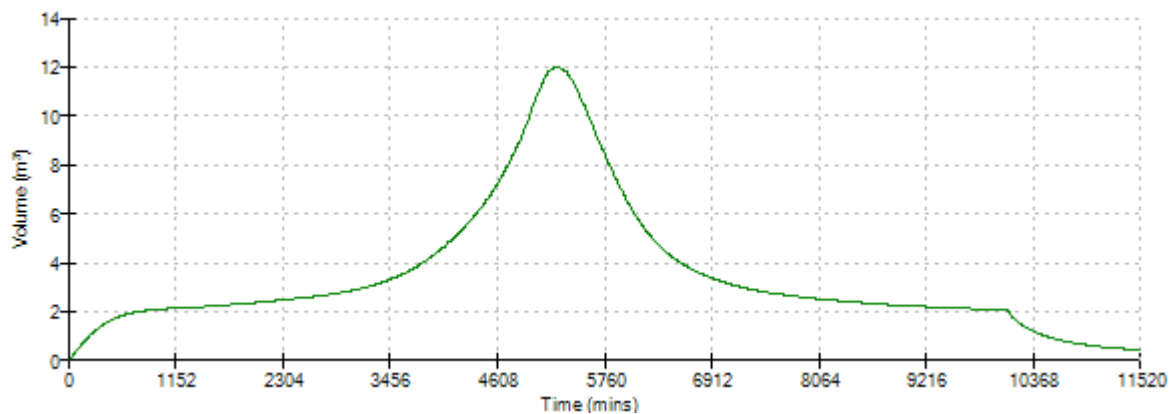
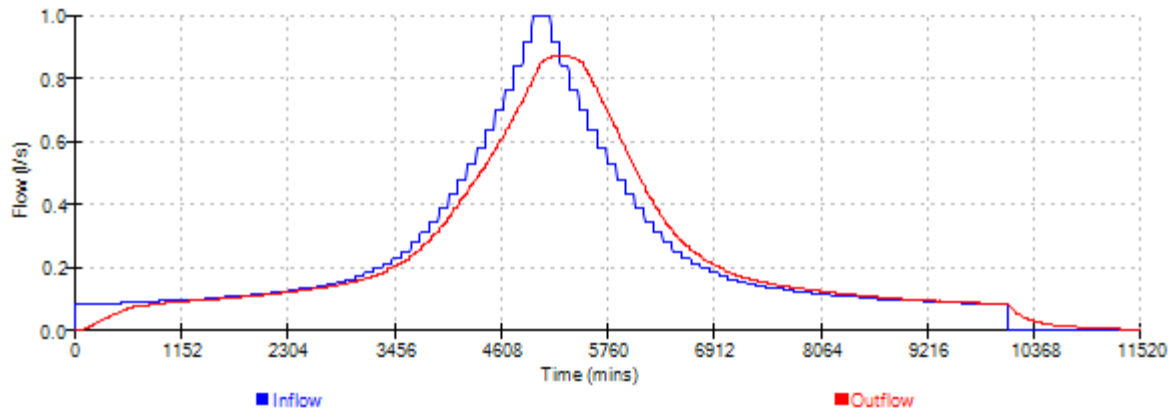
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



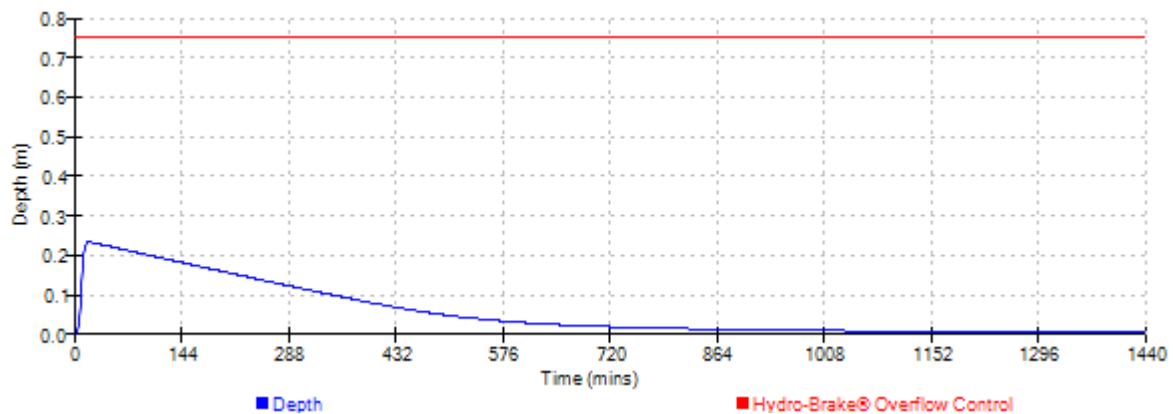
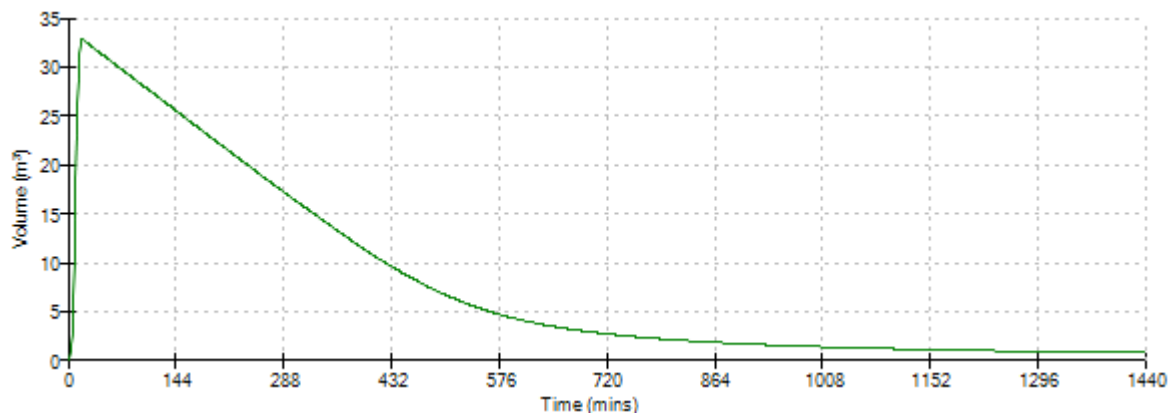
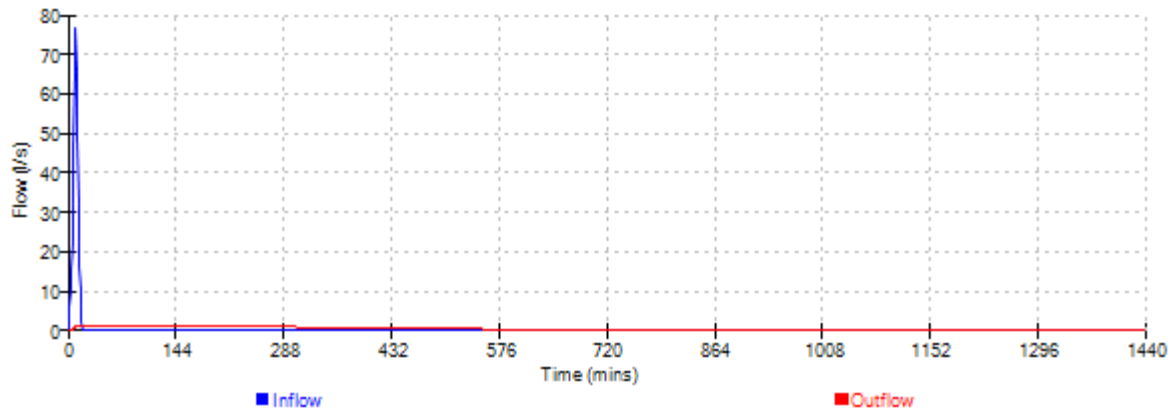
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



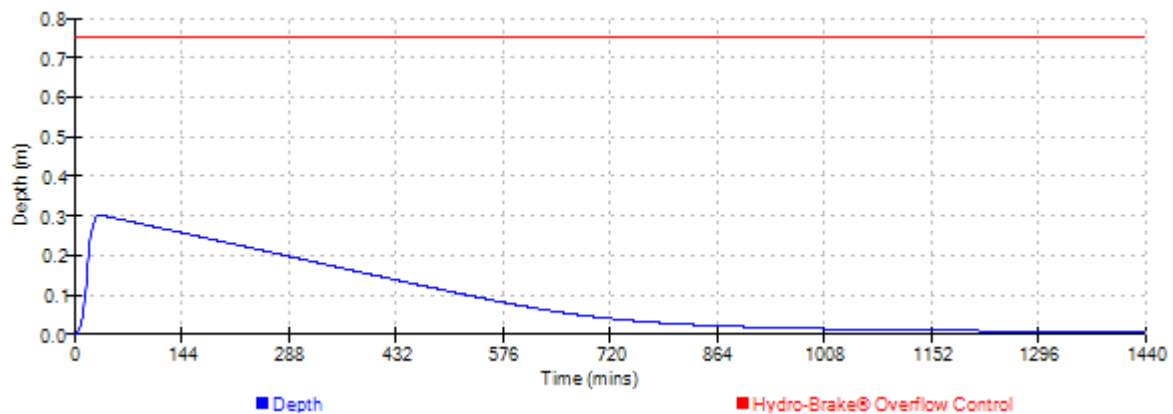
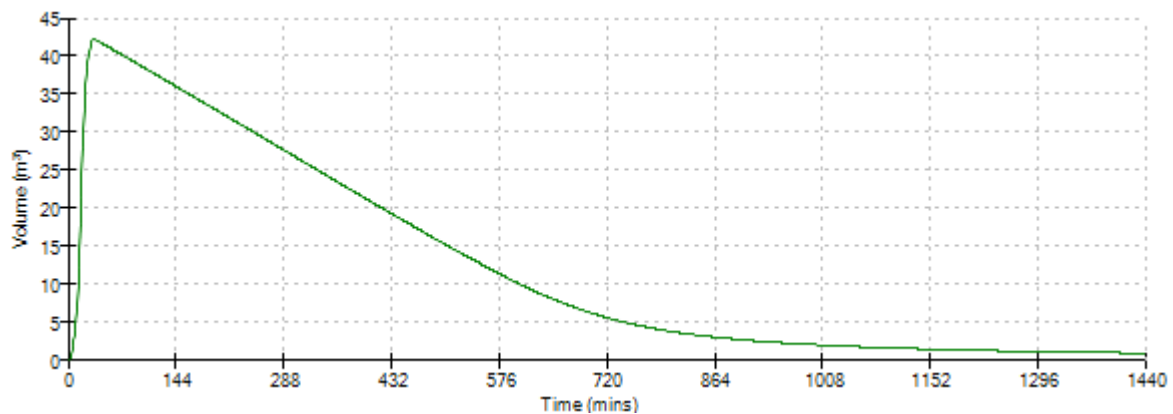
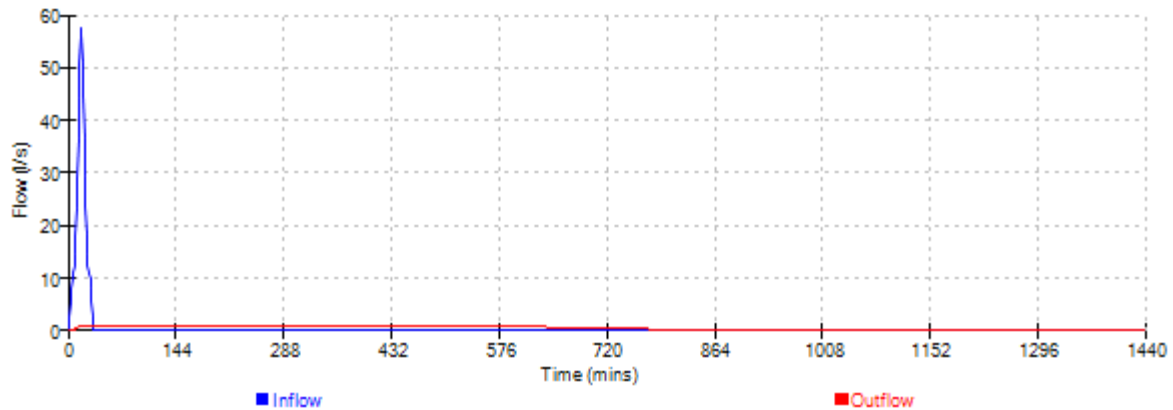
Easy Flood Risk		Page 25
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 15 min Winter



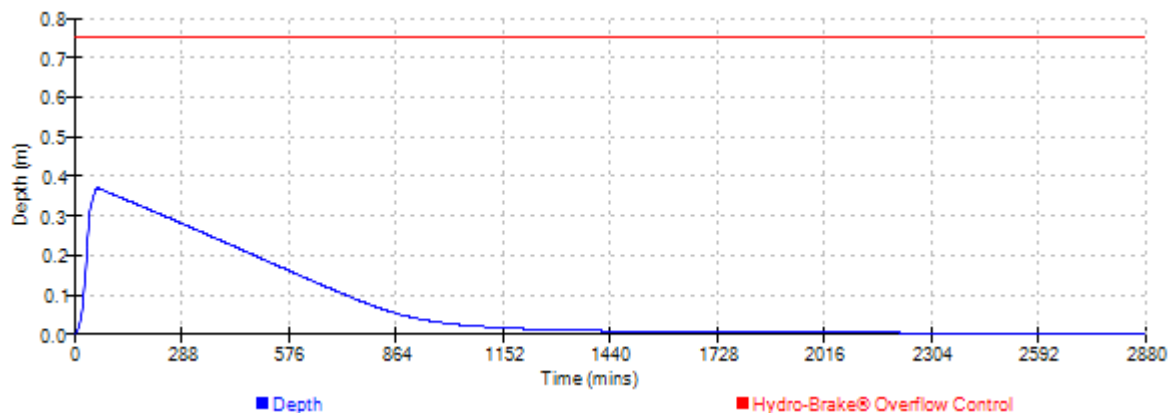
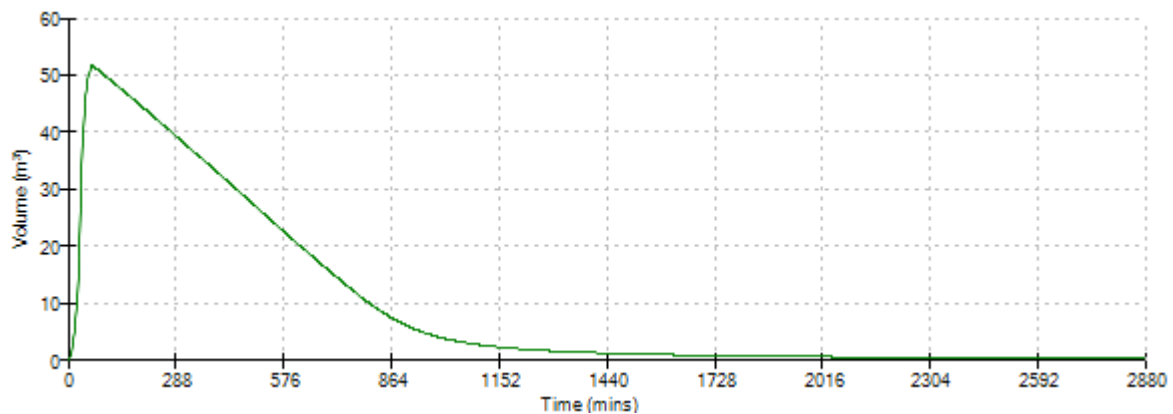
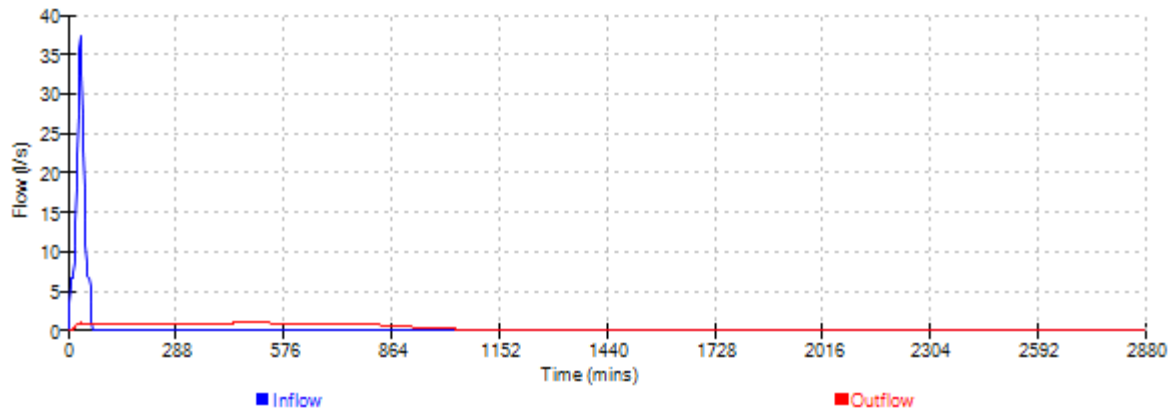
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze		Source Control 2020.1

Event: 30 min Winter



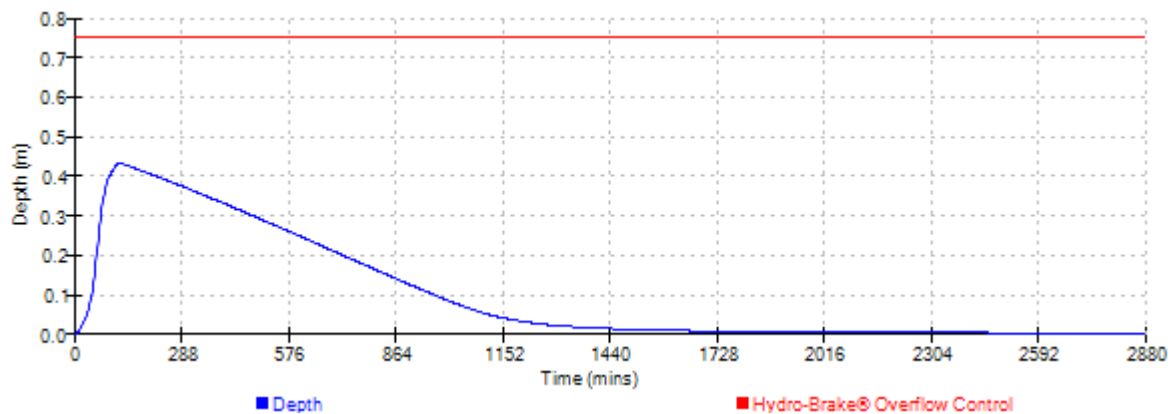
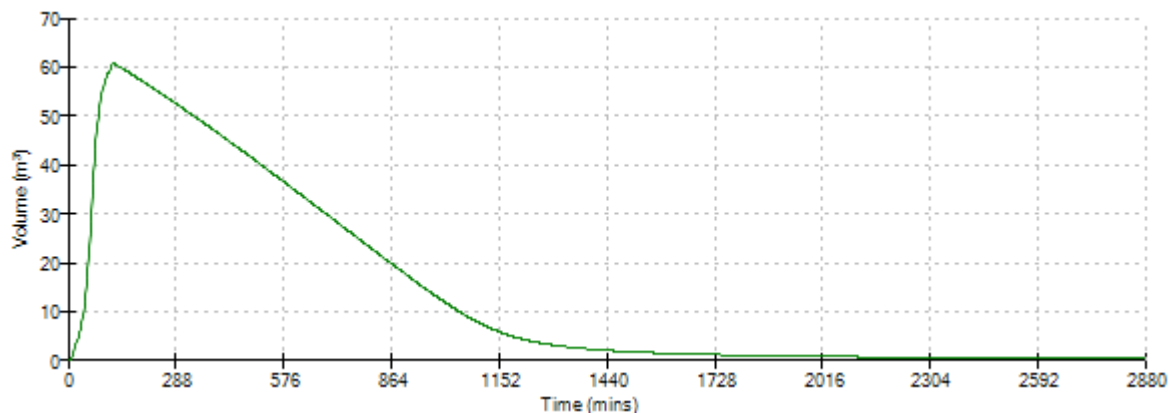
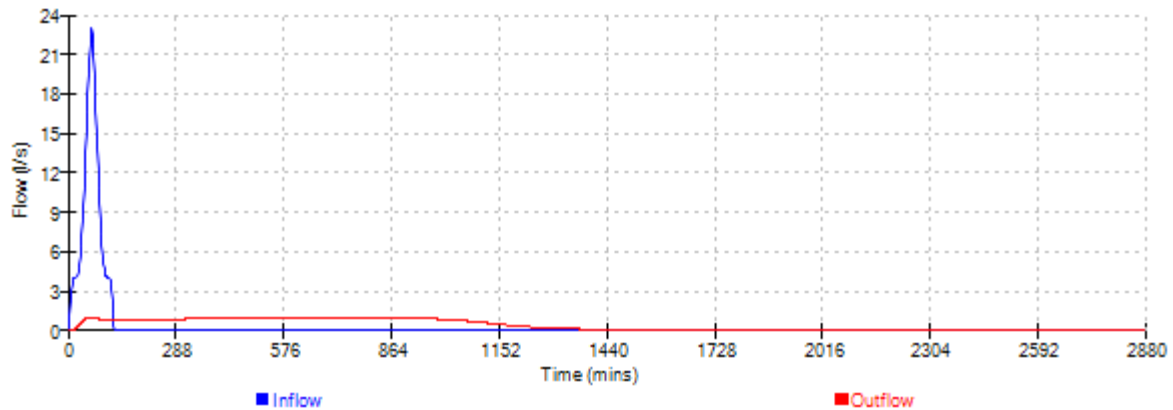
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



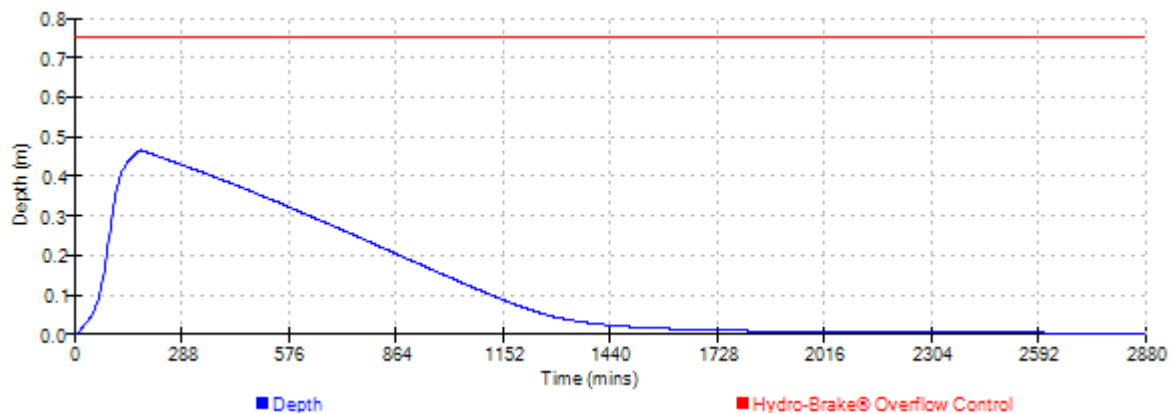
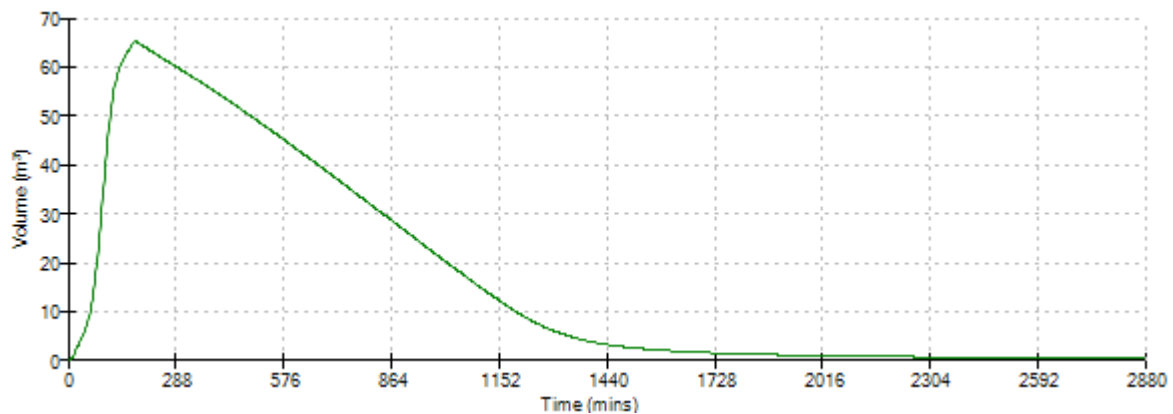
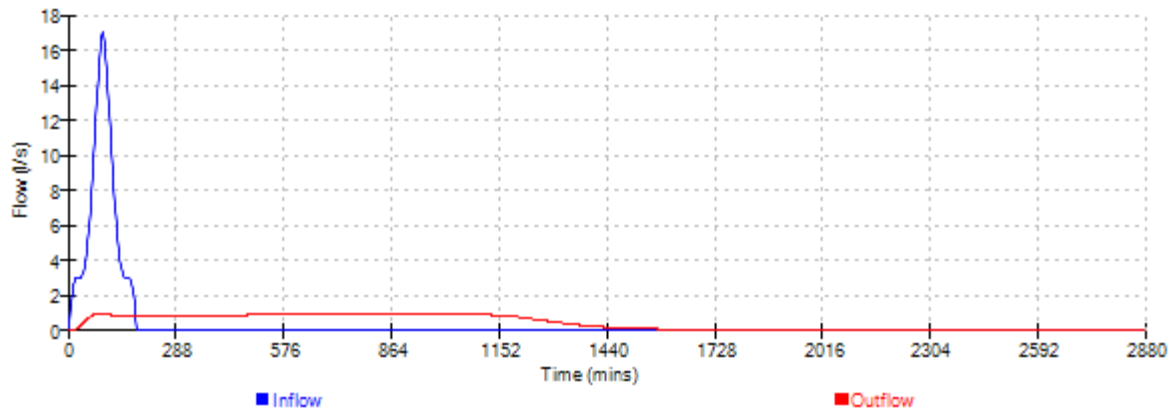
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



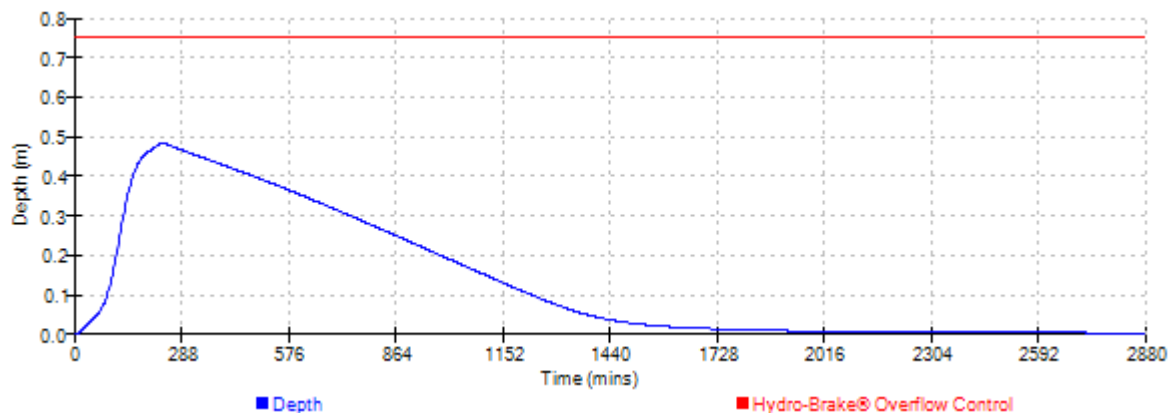
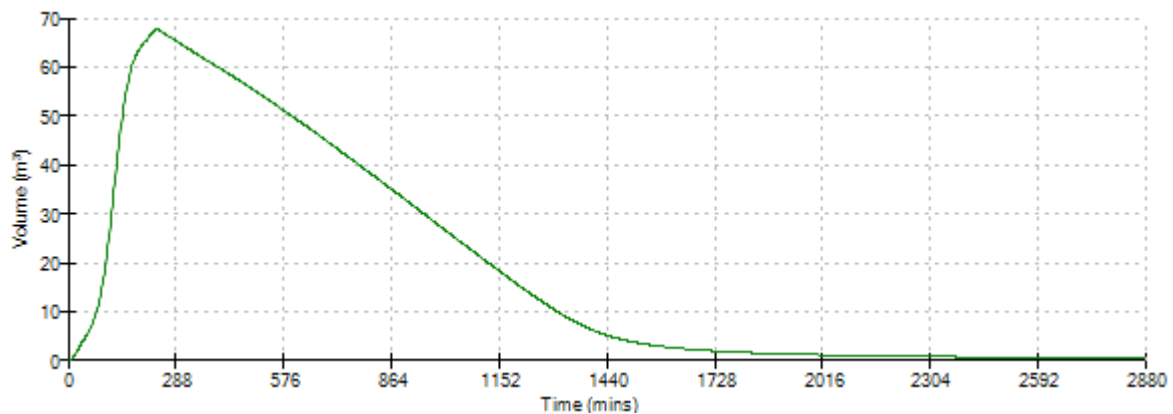
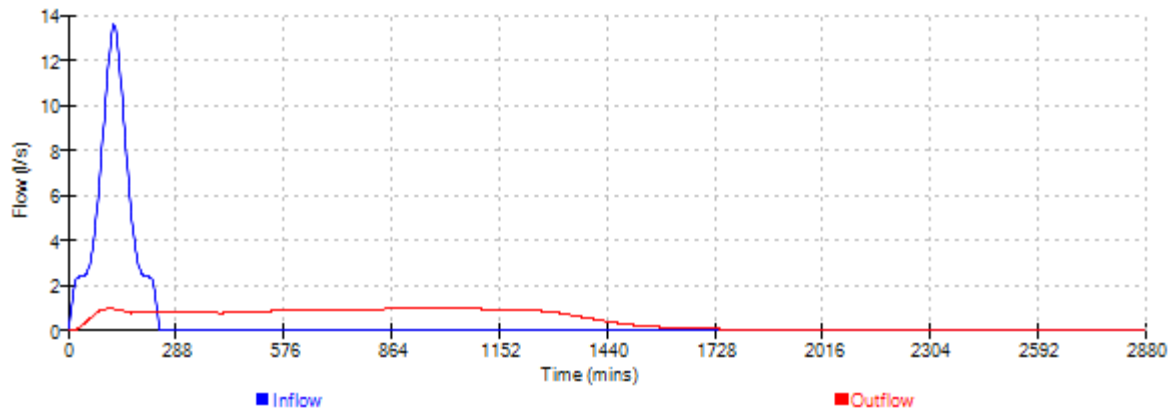
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



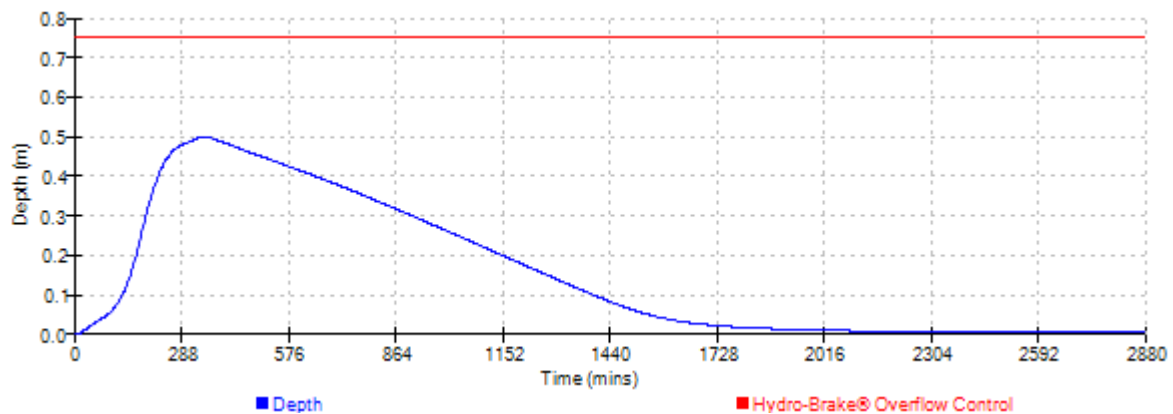
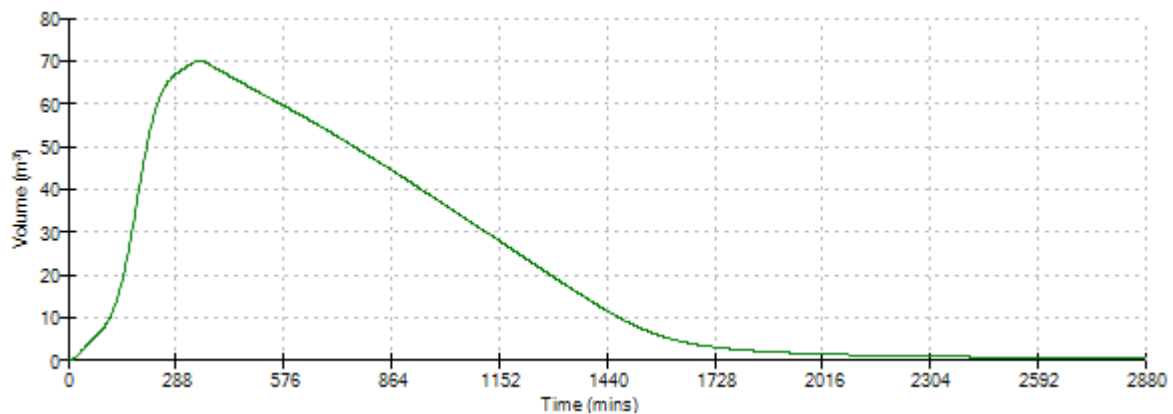
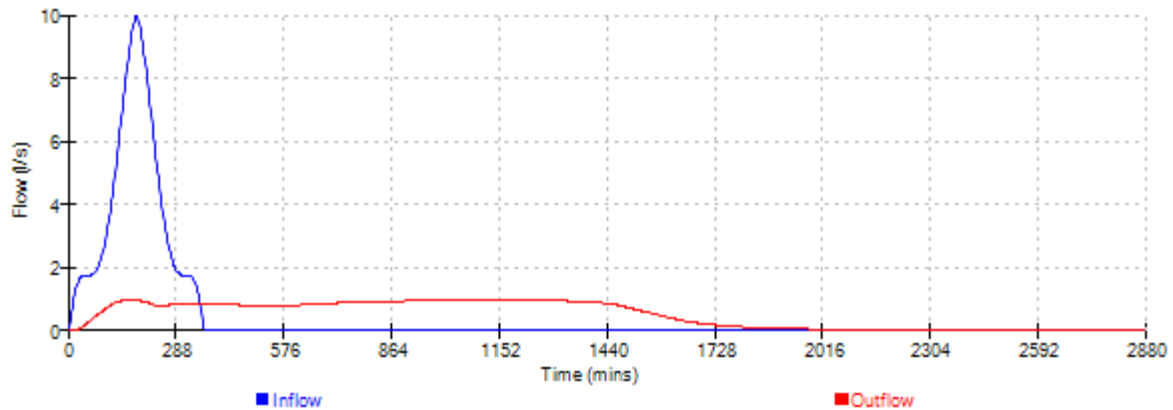
Easy Flood Risk		Page 30
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



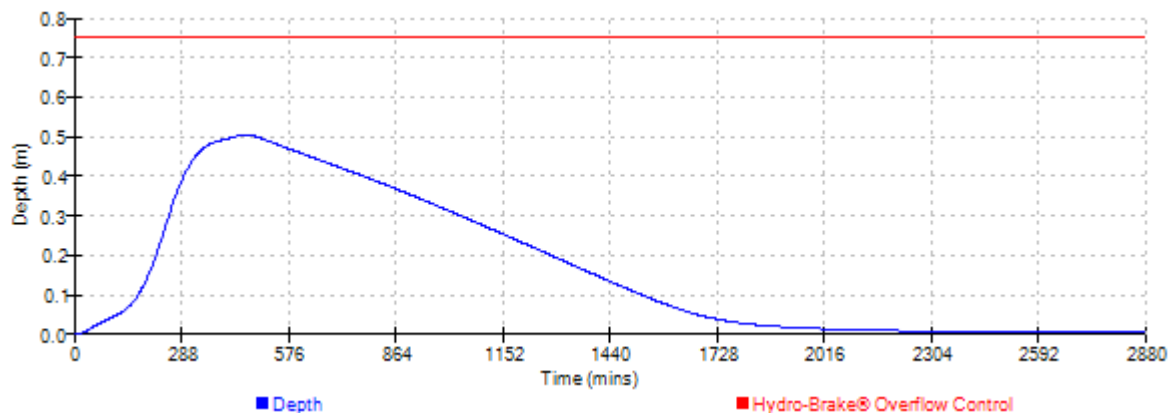
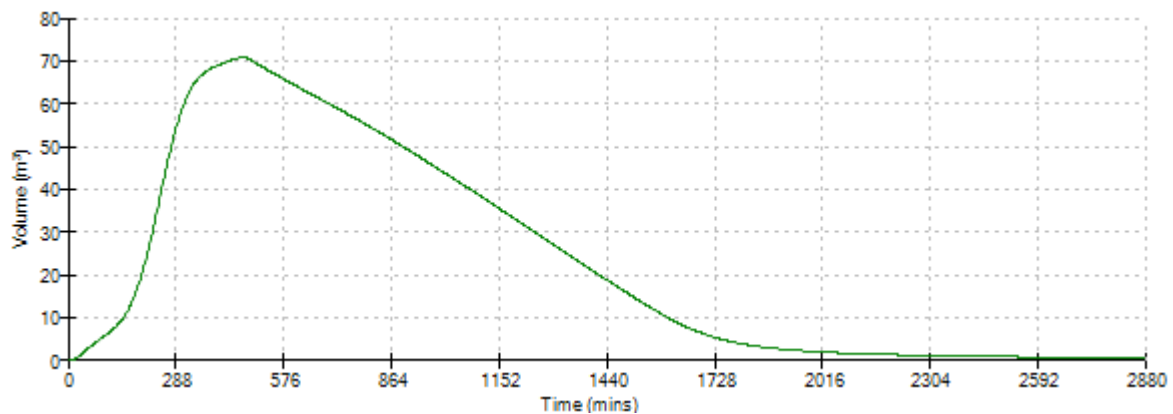
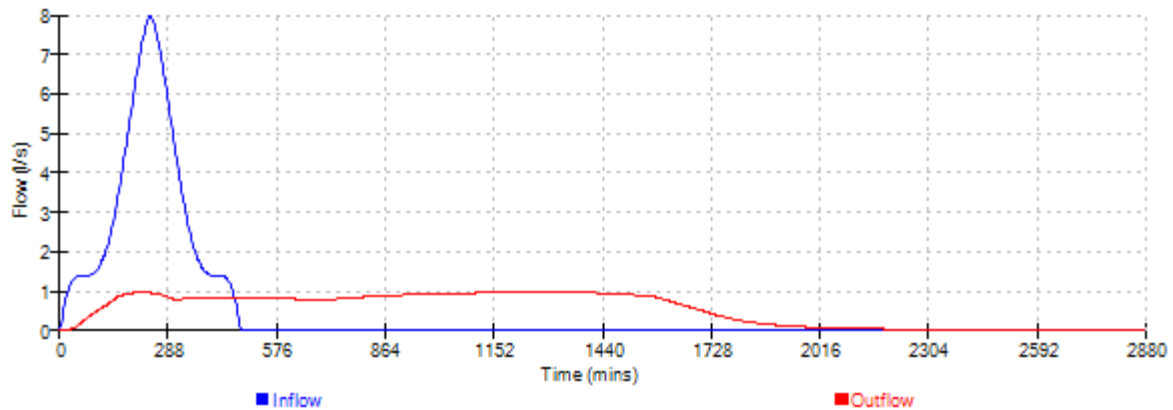
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 360 min Winter



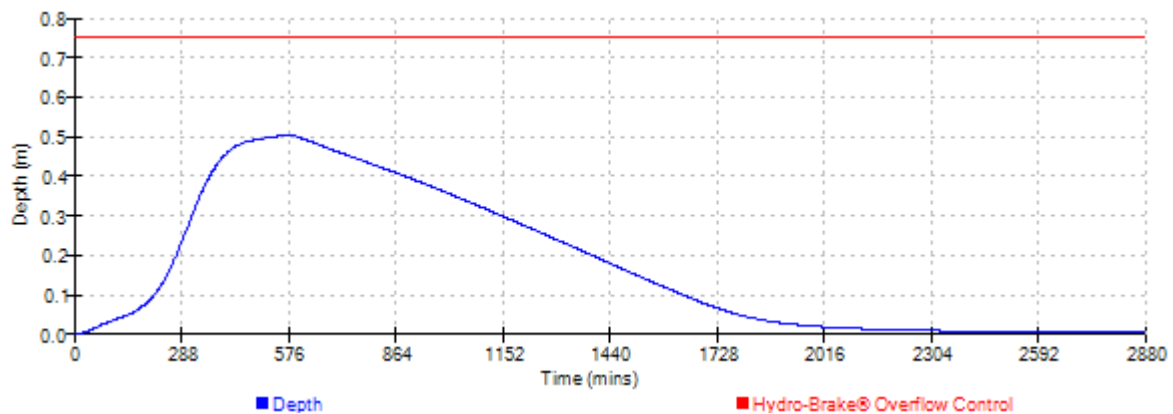
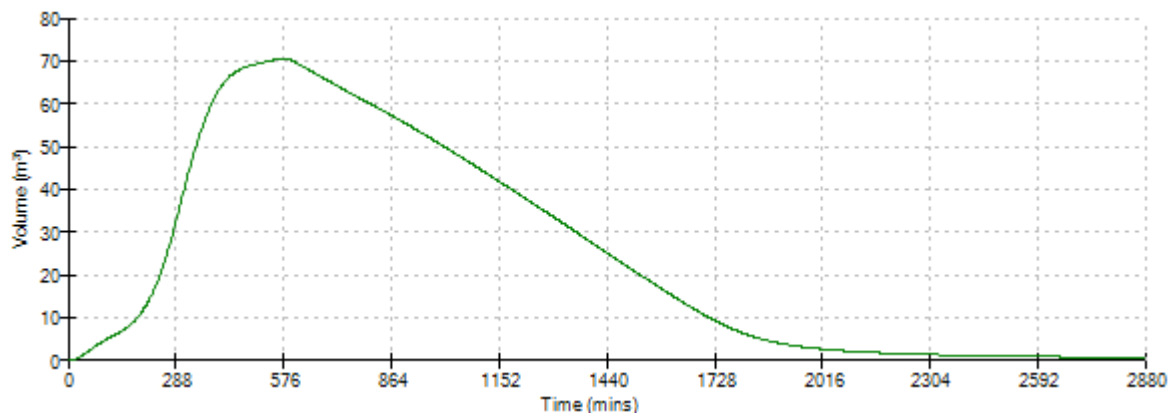
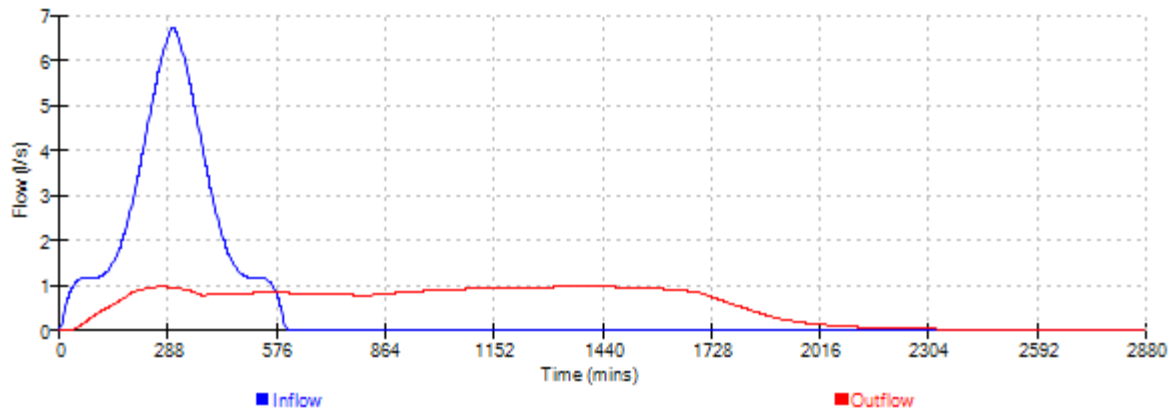
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



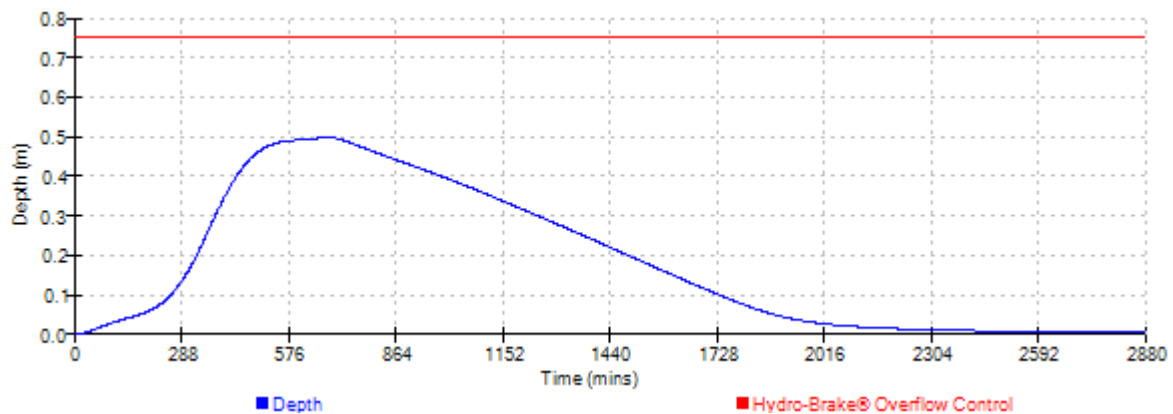
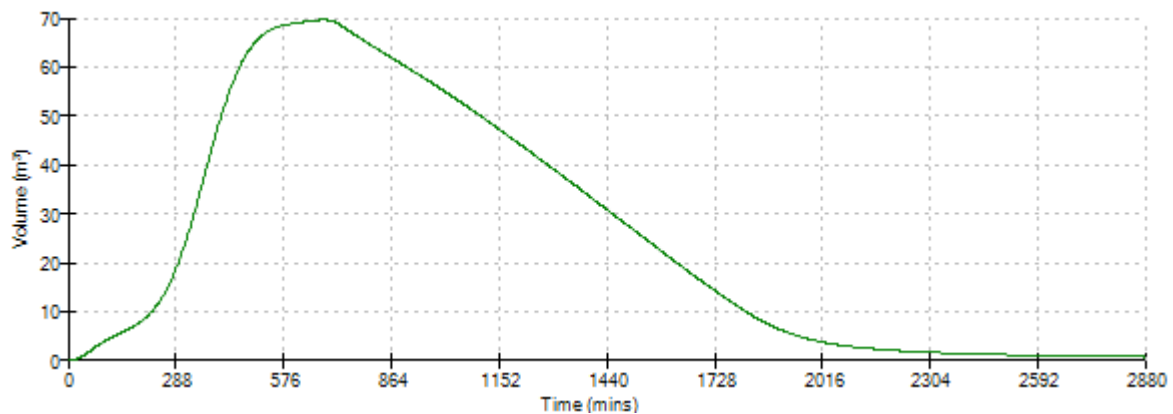
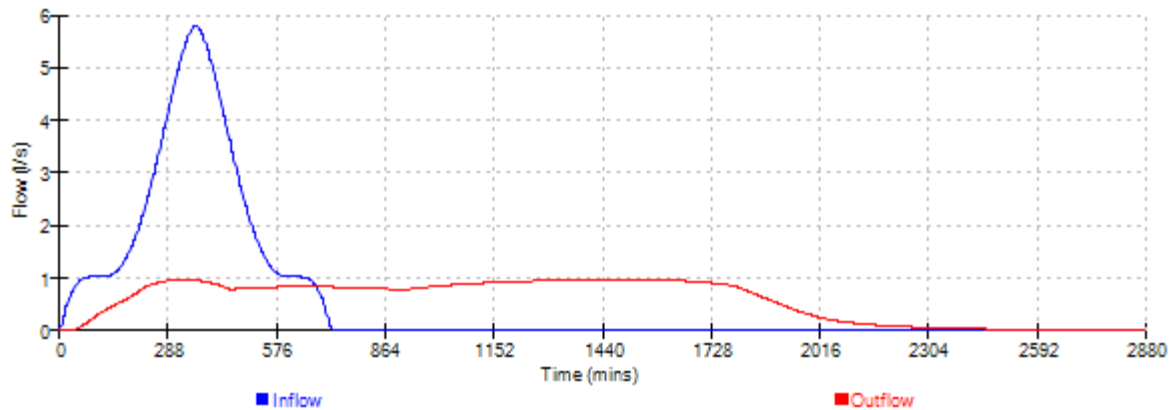
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 600 min Winter



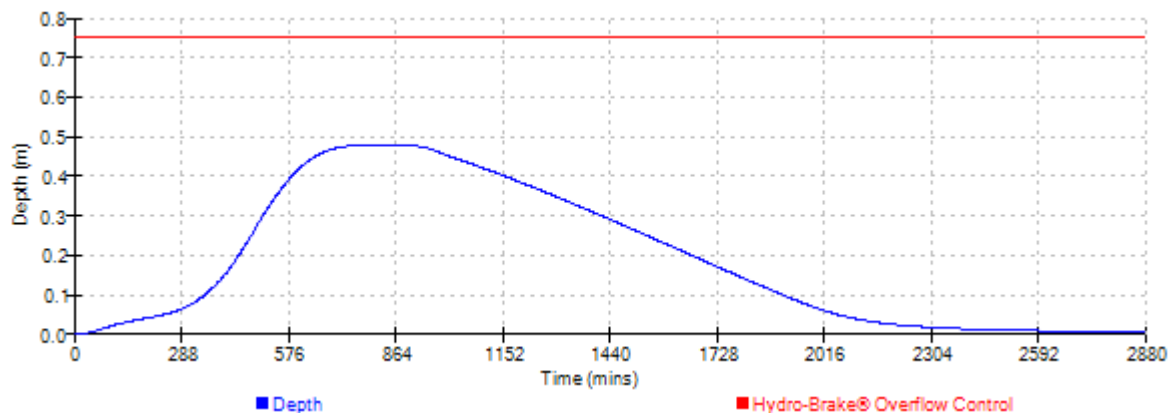
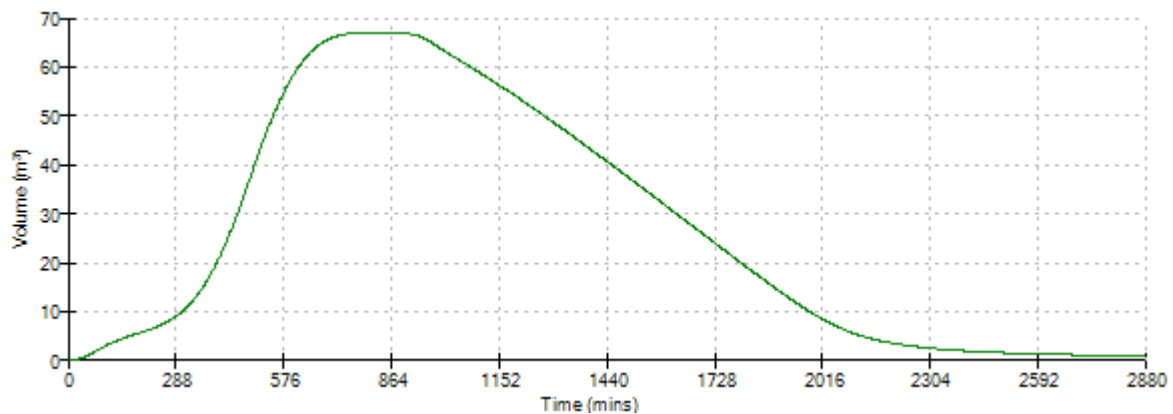
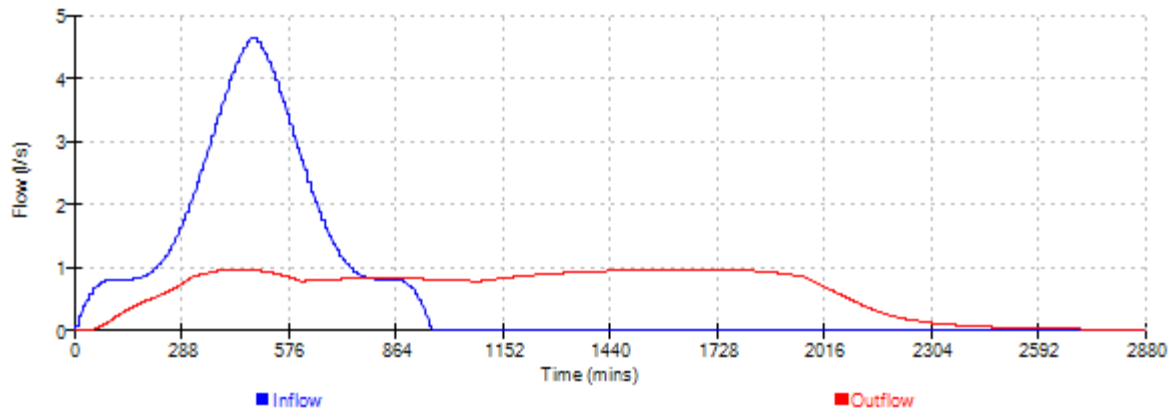
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze		Source Control 2020.1

Event: 720 min Winter



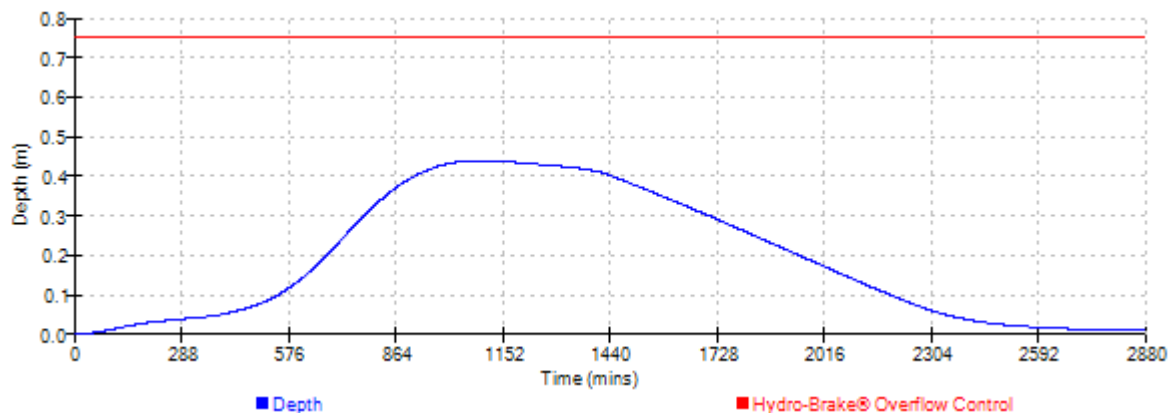
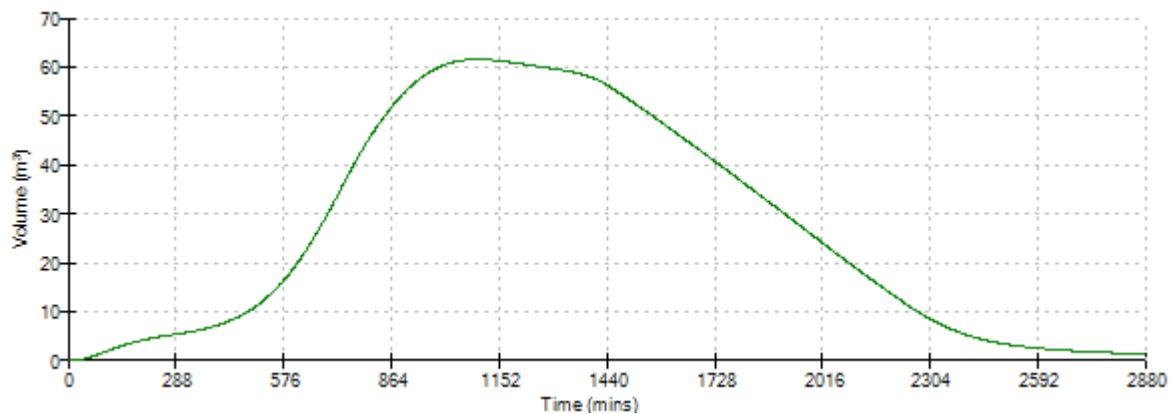
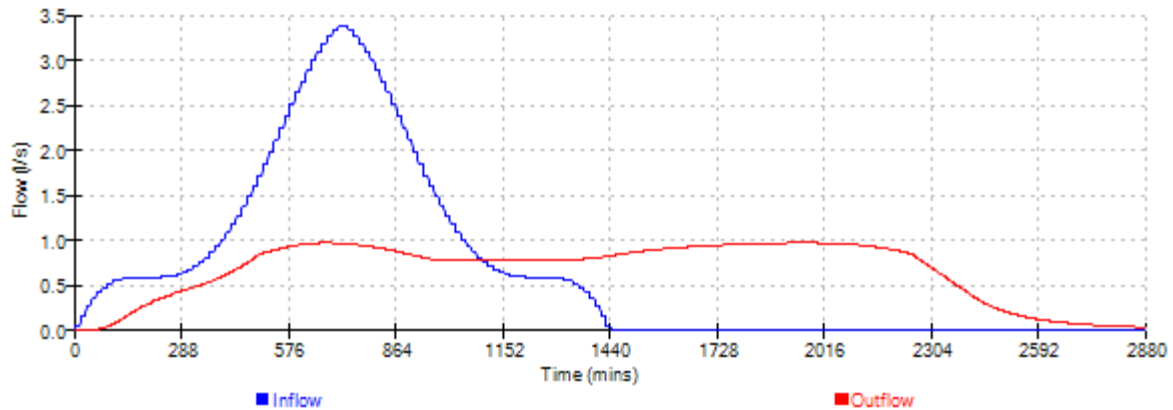
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



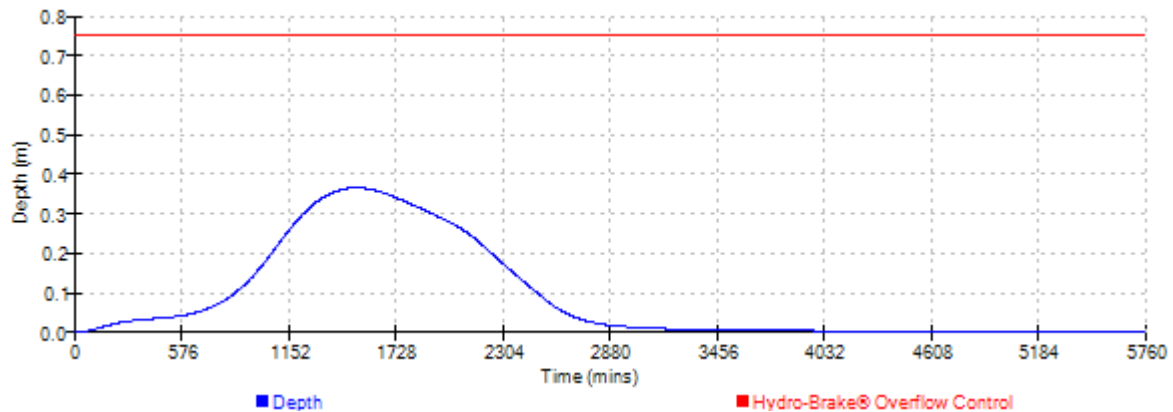
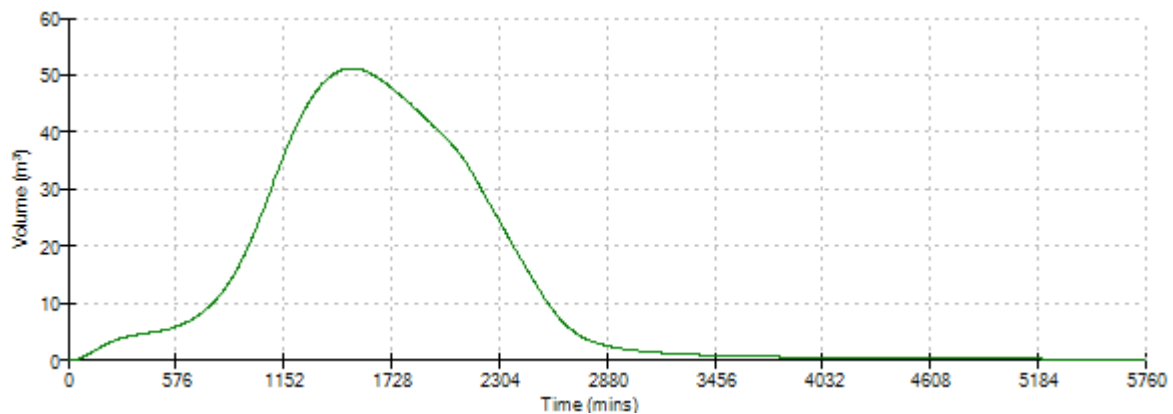
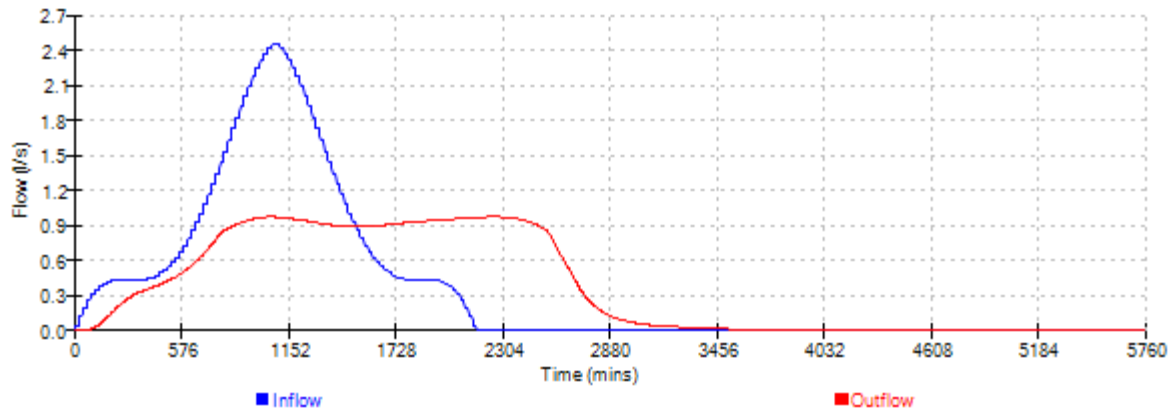
Easy Flood Risk		Page 36
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



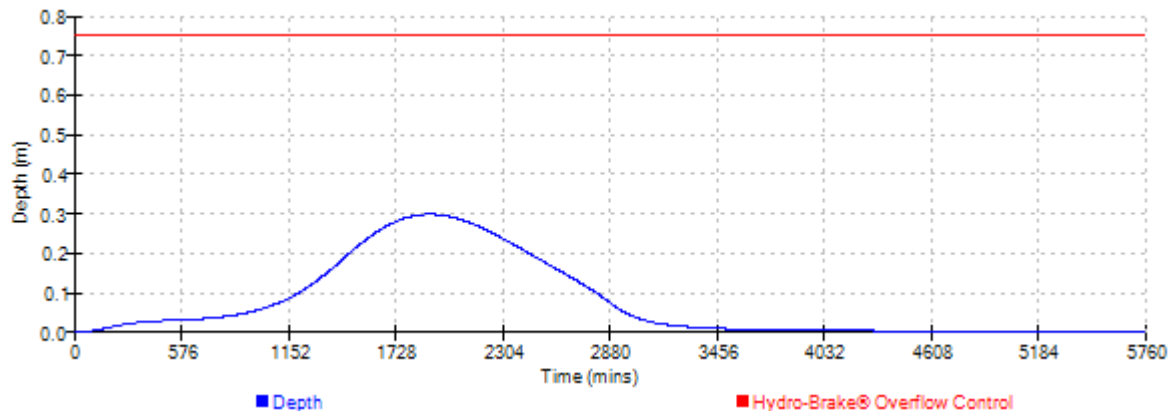
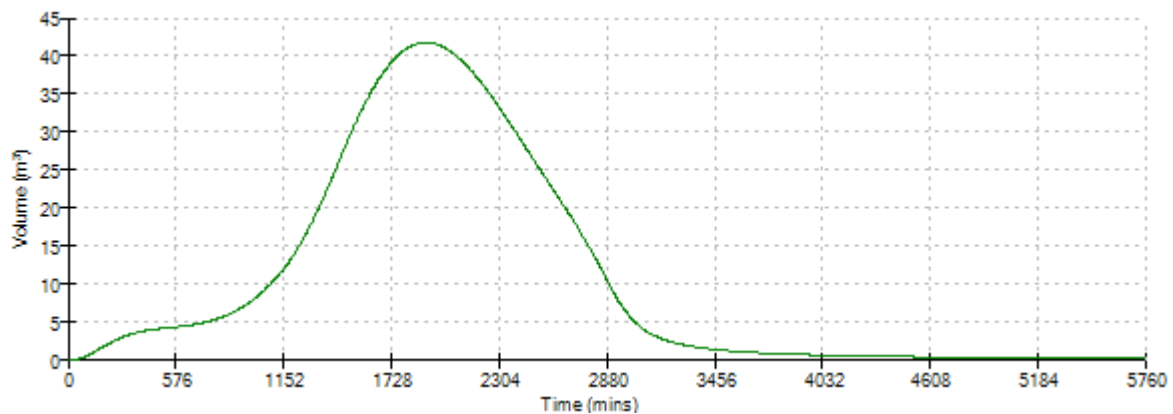
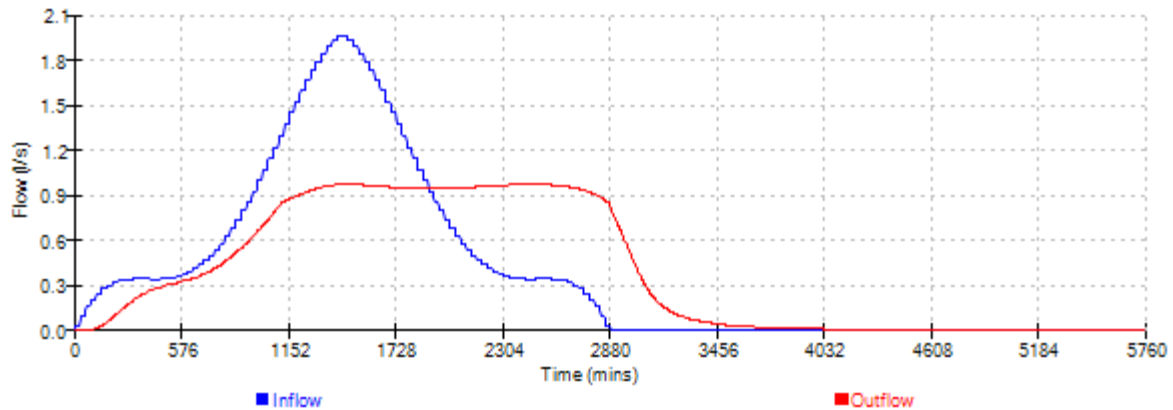
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



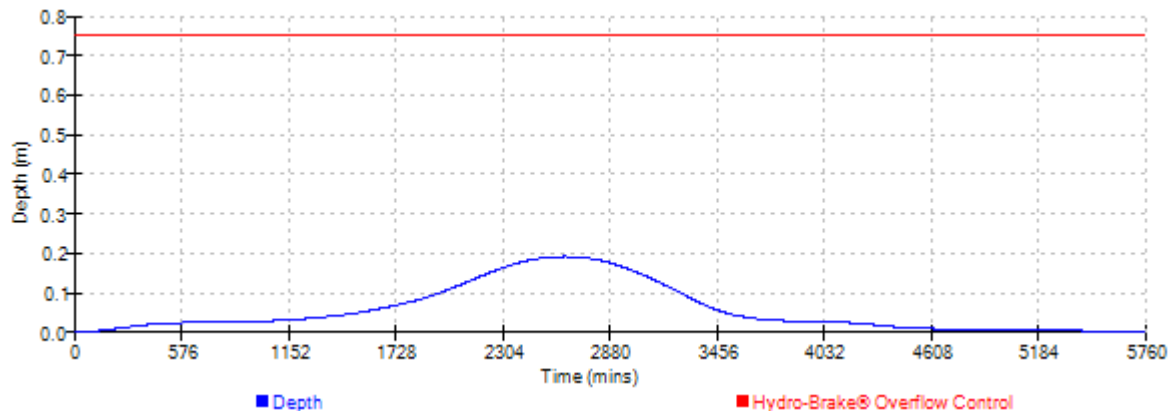
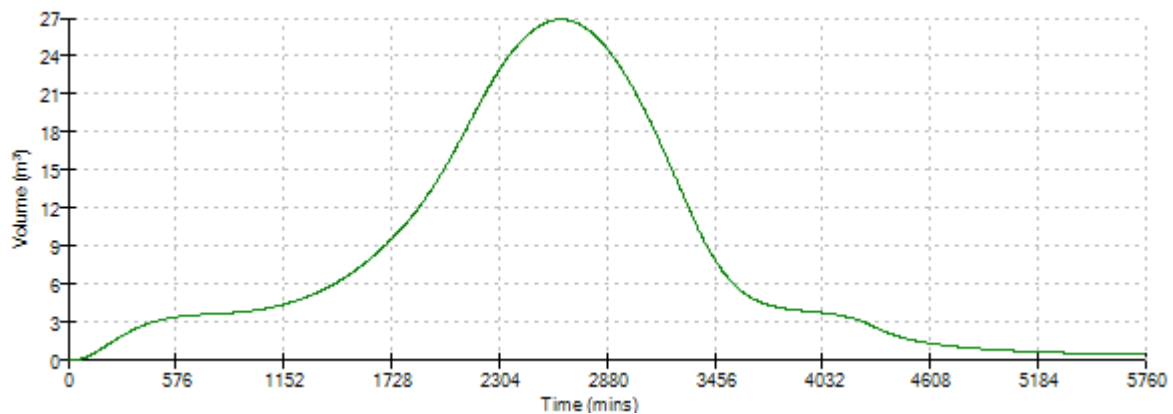
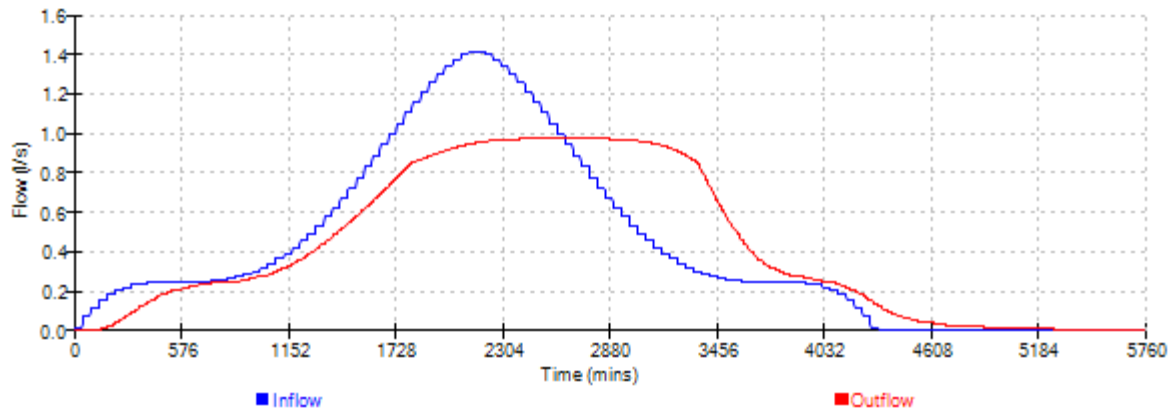
Easy Flood Risk		Page 38
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



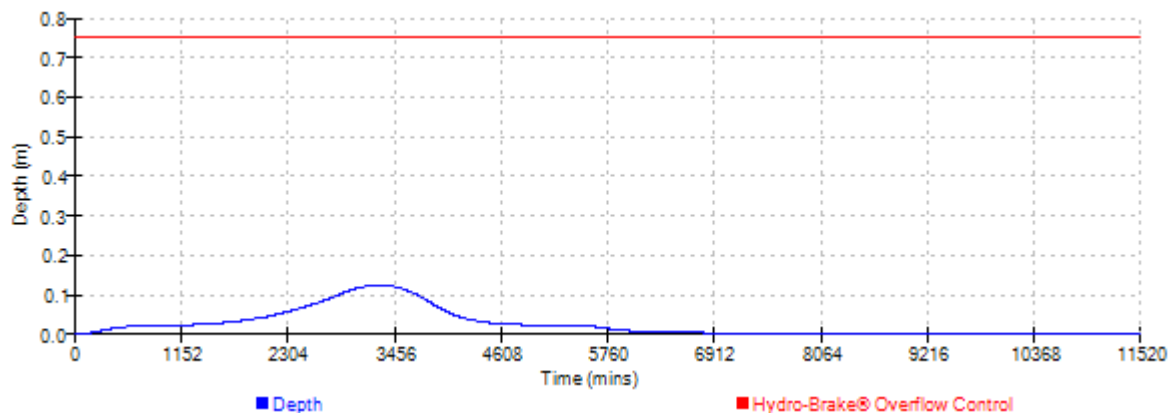
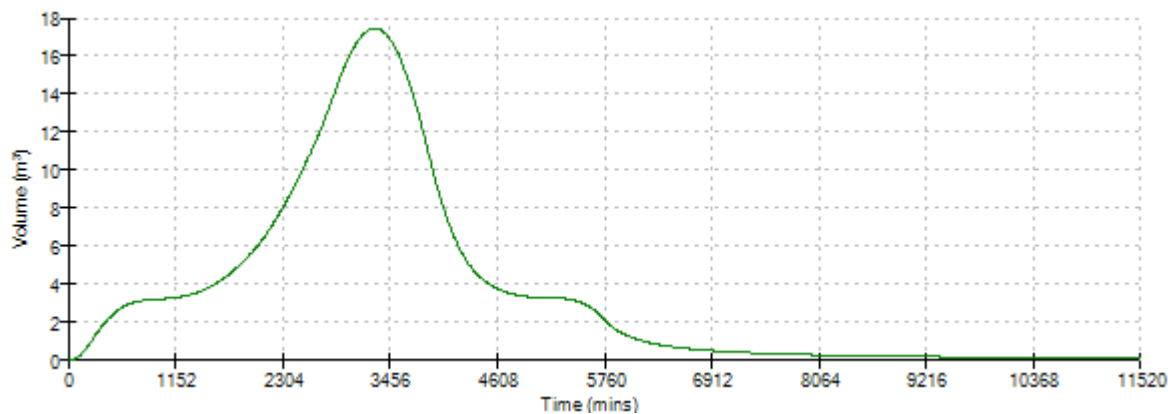
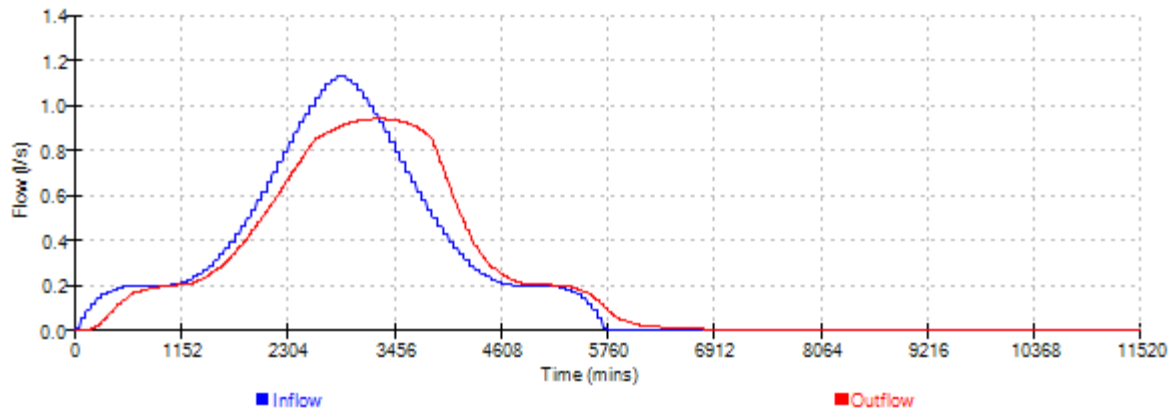
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



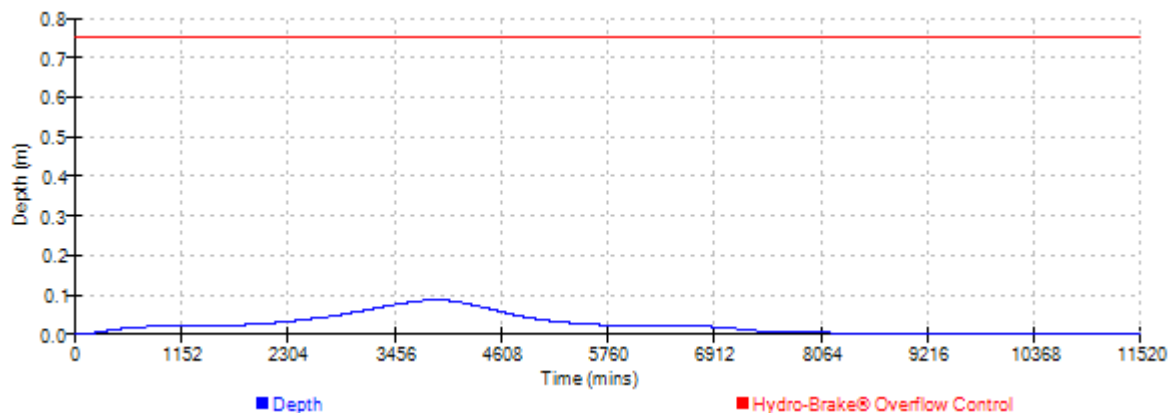
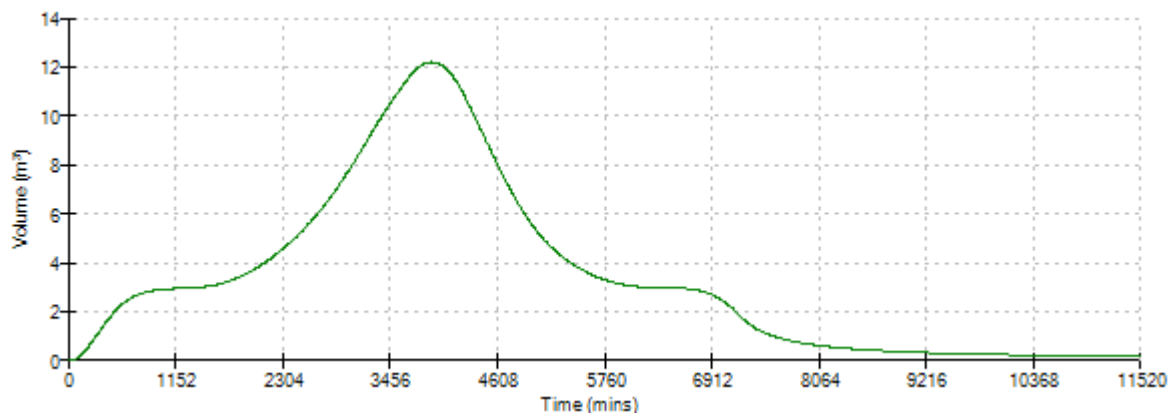
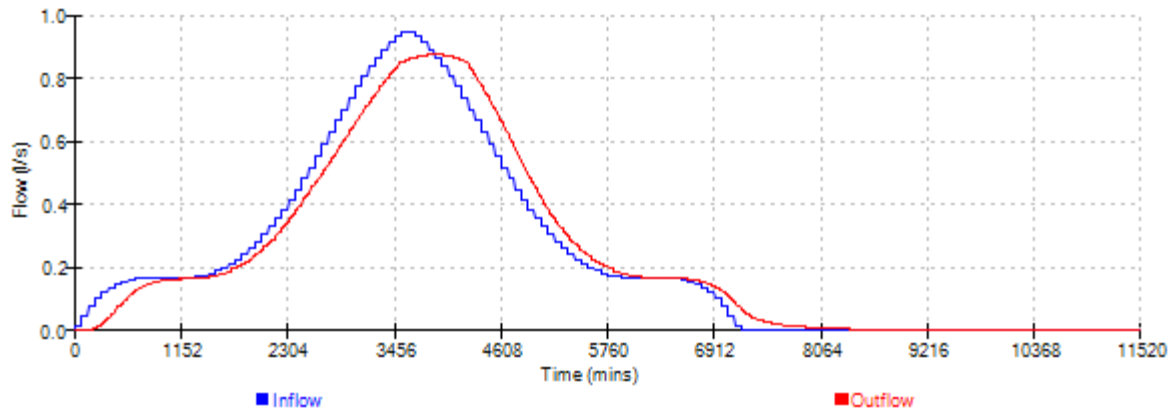
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:51 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



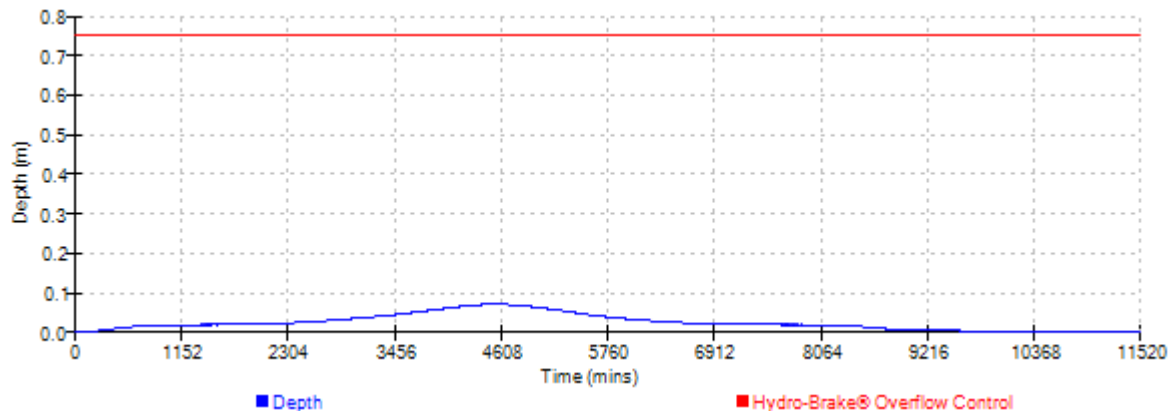
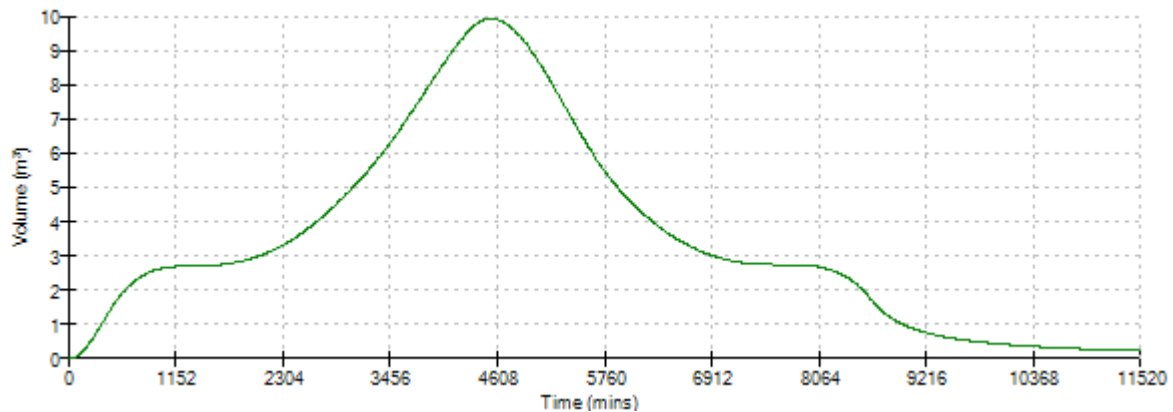
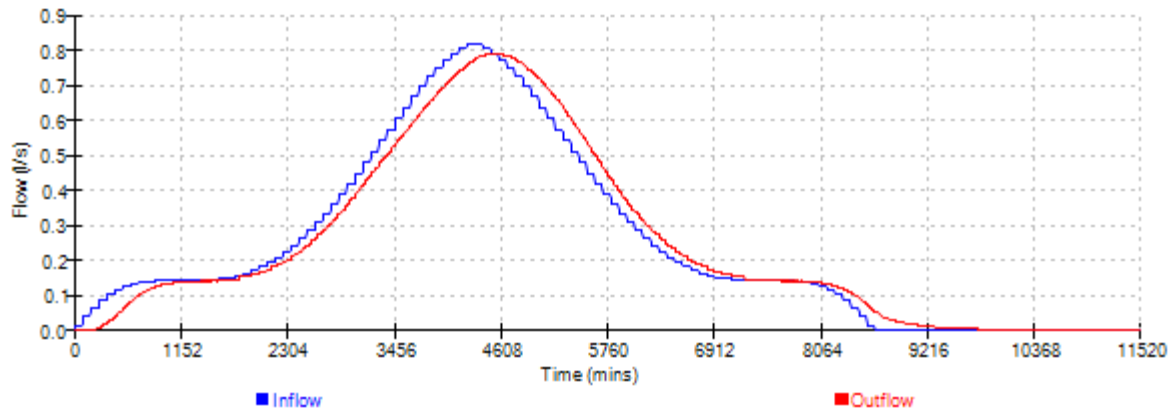
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Event: 7200 min Winter



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Event: 8640 min Winter



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Innovyze	Source Control 2020.1	

Event: 10080 min Winter

