

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 24/01/2023 06:16 File Nutts Lane.SRCX			Designed by sheph Checked by				
Innovyze			Source Control 2020.1				
<u>Summary of Results for 100 year Return Period (+40%)</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	89.133	0.383	1.0	0.0	1.0	53.7	O K
30 min Summer	89.251	0.501	1.0	0.0	1.0	70.1	O K
60 min Summer	89.368	0.618	1.0	0.0	1.0	86.6	O K
120 min Summer	89.479	0.729	1.0	0.0	1.0	102.1	O K
180 min Summer	89.534	0.784	1.0	0.4	1.4	109.7	O K
240 min Summer	89.557	0.807	1.0	0.7	1.8	113.0	O K
360 min Summer	89.571	0.821	1.0	0.9	1.9	114.9	O K
480 min Summer	89.570	0.820	1.0	0.9	1.9	114.8	O K
600 min Summer	89.569	0.819	1.0	0.9	1.9	114.6	O K
720 min Summer	89.566	0.816	1.0	0.8	1.9	114.3	O K
960 min Summer	89.560	0.810	1.0	0.8	1.8	113.3	O K
1440 min Summer	89.543	0.793	1.0	0.5	1.6	111.0	O K
2160 min Summer	89.516	0.766	1.0	0.1	1.1	107.3	O K
2880 min Summer	89.472	0.722	1.0	0.0	1.0	101.1	O K
4320 min Summer	89.384	0.634	1.0	0.0	1.0	88.8	O K
5760 min Summer	89.303	0.553	1.0	0.0	1.0	77.5	O K
7200 min Summer	89.226	0.476	1.0	0.0	1.0	66.6	O K
8640 min Summer	89.133	0.383	1.0	0.0	1.0	53.6	O K
10080 min Summer	89.056	0.306	1.0	0.0	1.0	42.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Summer	138.153	0.0	53.1	0.0	19		
30 min Summer	90.705	0.0	68.7	0.0	34		
60 min Summer	56.713	0.0	88.8	0.0	64		
120 min Summer	34.246	0.0	107.1	0.0	124		
180 min Summer	25.149	0.0	117.9	0.8	182		
240 min Summer	20.078	0.0	125.5	3.3	242		
360 min Summer	14.585	0.0	136.6	7.3	360		
480 min Summer	11.622	0.0	144.9	10.1	428		
600 min Summer	9.738	0.0	151.5	11.7	488		
720 min Summer	8.424	0.0	156.7	12.6	554		
960 min Summer	6.697	0.0	163.3	12.3	686		
1440 min Summer	4.839	0.0	156.8	7.8	982		
2160 min Summer	3.490	0.0	197.5	1.1	1472		
2880 min Summer	2.766	0.0	208.6	0.0	1932		
4320 min Summer	1.989	0.0	224.5	0.0	2764		
5760 min Summer	1.573	0.0	237.7	0.0	3576		
7200 min Summer	1.311	0.0	247.5	0.0	4400		
8640 min Summer	1.129	0.0	255.7	0.0	5104		
10080 min Summer	0.994	0.0	262.6	0.0	5752		
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<u>Summary of Results for 100 year Return Period (+40%)</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	89.180	0.430	1.0	0.0	1.0	60.2	O K
30 min Winter	89.311	0.561	1.0	0.0	1.0	78.6	O K
60 min Winter	89.444	0.694	1.0	0.0	1.0	97.2	O K
120 min Winter	89.565	0.815	1.0	0.8	1.9	114.1	O K
180 min Winter	89.617	0.867	1.1	1.0	2.1	121.4	O K
240 min Winter	89.644	0.894	1.1	1.0	2.1	125.2	O K
360 min Winter	89.670	0.920	1.1	1.0	2.1	128.8	O K
480 min Winter	89.676	0.926	1.1	1.0	2.1	129.6	O K
600 min Winter	89.670	0.920	1.1	1.0	2.1	128.9	O K
720 min Winter	89.666	0.916	1.1	1.0	2.1	128.3	O K
960 min Winter	89.654	0.904	1.1	1.0	2.1	126.5	O K
1440 min Winter	89.616	0.866	1.1	1.0	2.1	121.2	O K
2160 min Winter	89.568	0.818	1.0	0.8	1.9	114.5	O K
2880 min Winter	89.538	0.788	1.0	0.5	1.5	110.3	O K
4320 min Winter	89.440	0.690	1.0	0.0	1.0	96.6	O K
5760 min Winter	89.320	0.570	1.0	0.0	1.0	79.8	O K
7200 min Winter	89.197	0.447	1.0	0.0	1.0	62.6	O K
8640 min Winter	89.053	0.303	1.0	0.0	1.0	42.4	O K
10080 min Winter	88.962	0.212	1.0	0.0	1.0	29.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	138.153	0.0	59.3	0.0	19		
30 min Winter	90.705	0.0	74.7	0.0	33		
60 min Winter	56.713	0.0	99.4	0.0	62		
120 min Winter	34.246	0.0	119.9	3.0	120		
180 min Winter	25.149	0.0	132.1	8.4	178		
240 min Winter	20.078	0.0	140.5	11.9	236		
360 min Winter	14.585	0.0	152.9	16.6	348		
480 min Winter	11.622	0.0	162.1	19.7	456		
600 min Winter	9.738	0.0	169.2	22.0	548		
720 min Winter	8.424	0.0	174.8	23.7	570		
960 min Winter	6.697	0.0	180.8	26.0	722		
1440 min Winter	4.839	0.0	176.9	25.5	1022		
2160 min Winter	3.490	0.0	221.3	16.4	1468		
2880 min Winter	2.766	0.0	233.6	7.2	1960		
4320 min Winter	1.989	0.0	251.0	0.0	2984		
5760 min Winter	1.573	0.0	266.3	0.0	3864		
7200 min Winter	1.311	0.0	277.3	0.0	4760		
8640 min Winter	1.129	0.0	286.4	0.0	5280		
10080 min Winter	0.994	0.0	294.2	0.0	5856		
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	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 %	+40

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 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>140.0</td><td>0.750</td><td>140.0</td></tr></table> Hydro-Brake® Optimum Outflow Control Unit Reference MD-SCL-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 <table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>0.750</td><td>1.0</td><td>Kick-Flo®</td><td>0.424</td><td>0.8</td></tr><tr><td>Flush-Flo™</td><td>0.196</td><td>1.0</td><td>Mean Flow over Head Range</td><td>-</td><td>0.9</td></tr></table> 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 <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>0.9</td><td>1.200</td><td>1.2</td><td>3.000</td><td>1.9</td><td>7.000</td><td>2.8</td></tr><tr><td>0.200</td><td>1.0</td><td>1.400</td><td>1.3</td><td>3.500</td><td>2.0</td><td>7.500</td><td>2.9</td></tr><tr><td>0.300</td><td>0.9</td><td>1.600</td><td>1.4</td><td>4.000</td><td>2.1</td><td>8.000</td><td>2.9</td></tr><tr><td>0.400</td><td>0.9</td><td>1.800</td><td>1.5</td><td>4.500</td><td>2.3</td><td>8.500</td><td>3.0</td></tr><tr><td>0.500</td><td>0.8</td><td>2.000</td><td>1.6</td><td>5.000</td><td>2.4</td><td>9.000</td><td>3.1</td></tr><tr><td>0.600</td><td>0.9</td><td>2.200</td><td>1.6</td><td>5.500</td><td>2.5</td><td>9.500</td><td>3.2</td></tr><tr><td>0.800</td><td>1.0</td><td>2.400</td><td>1.7</td><td>6.000</td><td>2.6</td><td></td><td></td></tr><tr><td>1.000</td><td>1.1</td><td>2.600</td><td>1.7</td><td>6.500</td><td>2.7</td><td></td><td></td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	140.0	0.750	140.0	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	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		
Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																																																																	
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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																																																																																															
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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

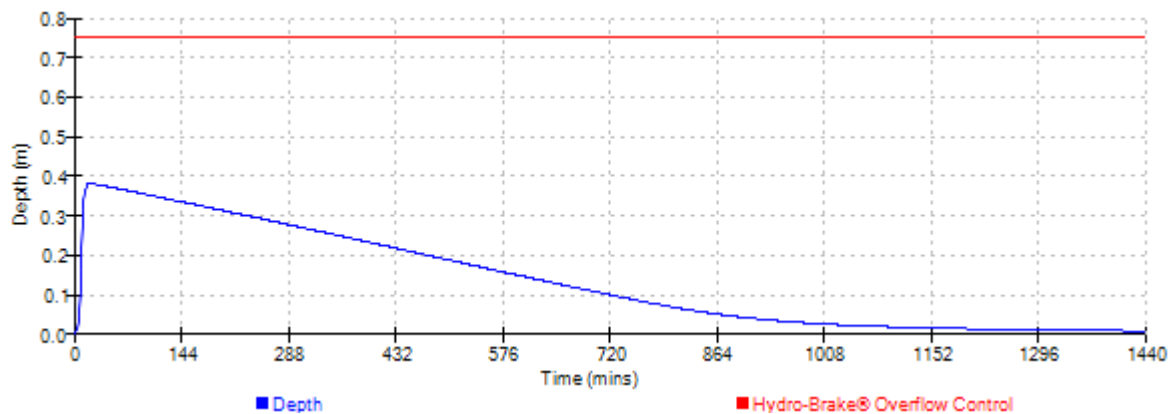
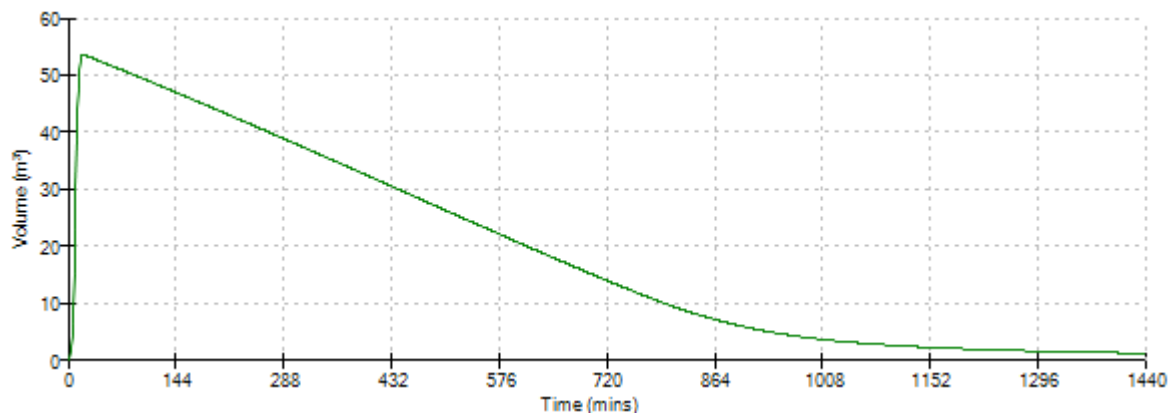
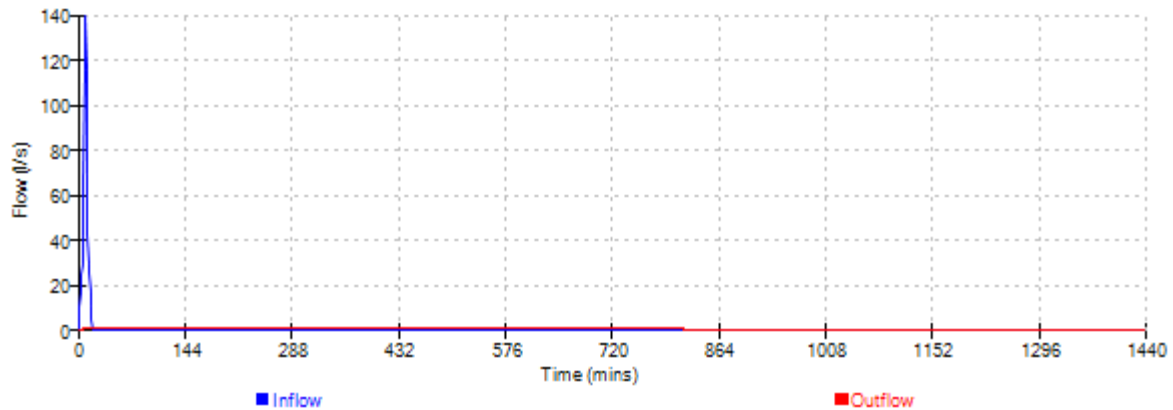
The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

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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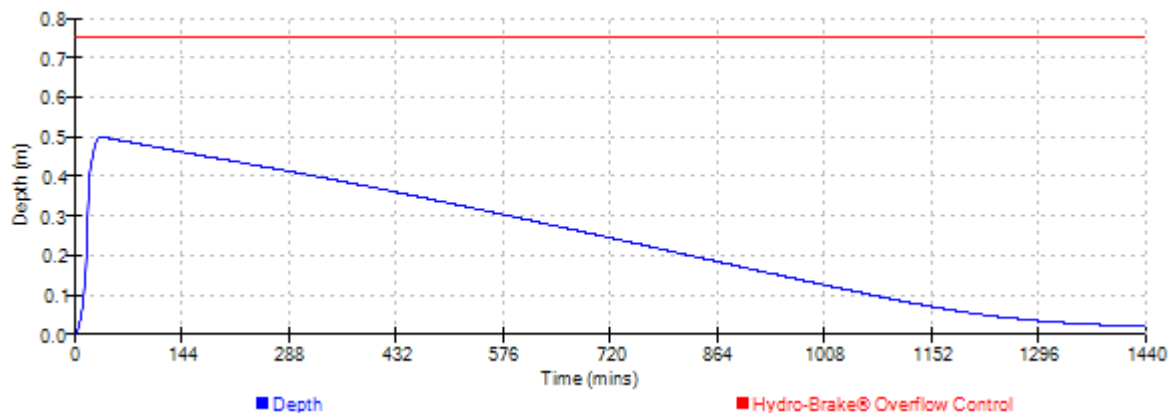
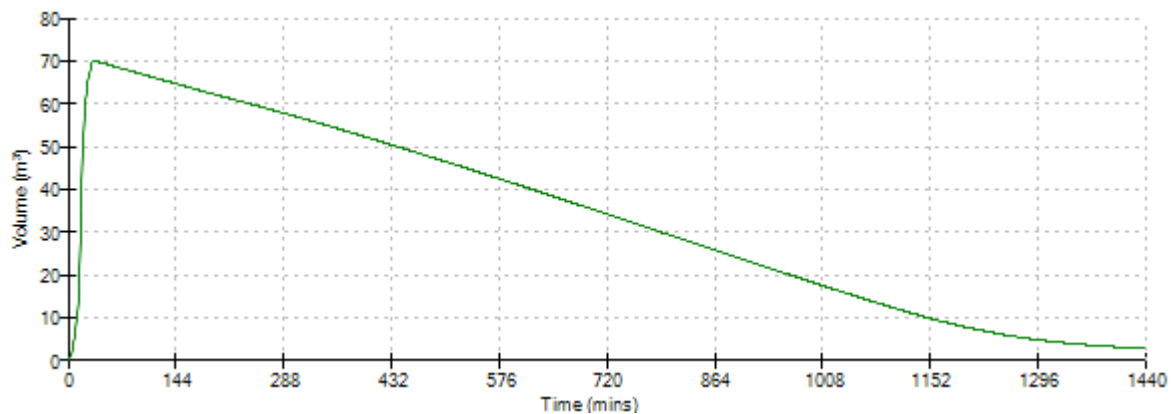
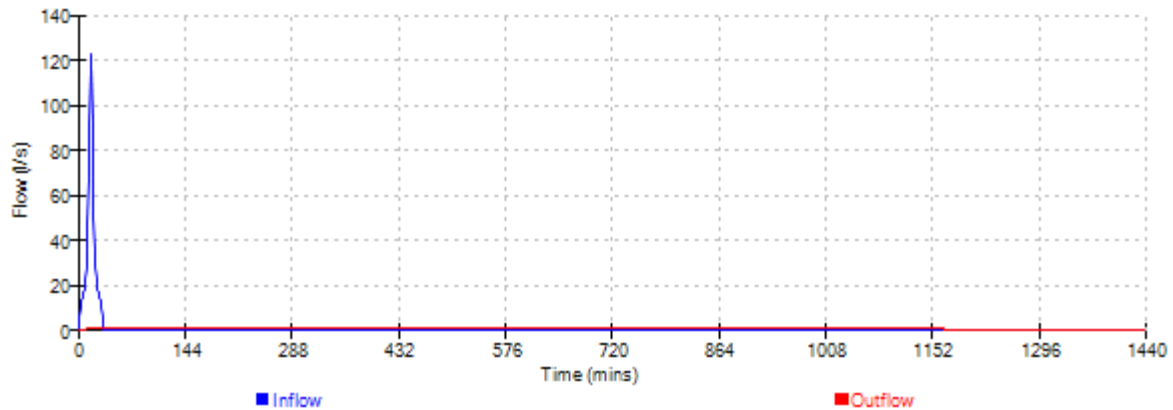
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Event: 15 min Summer



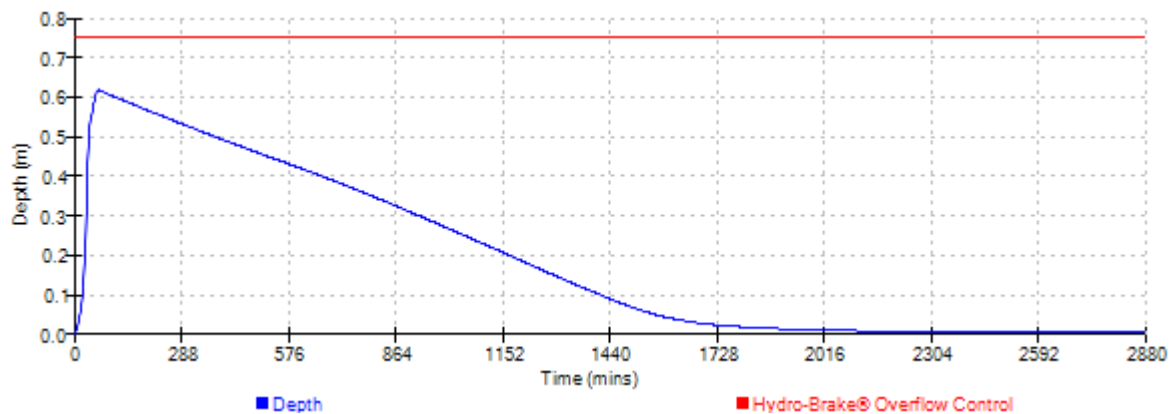
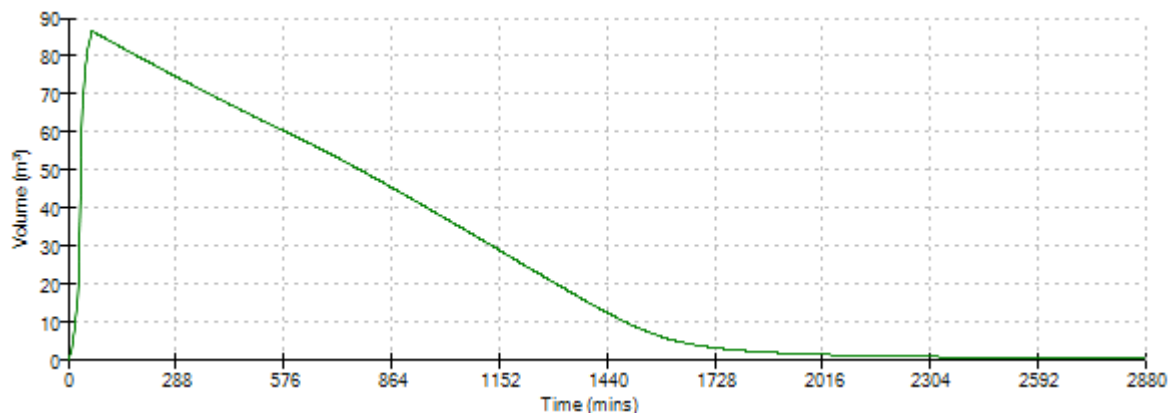
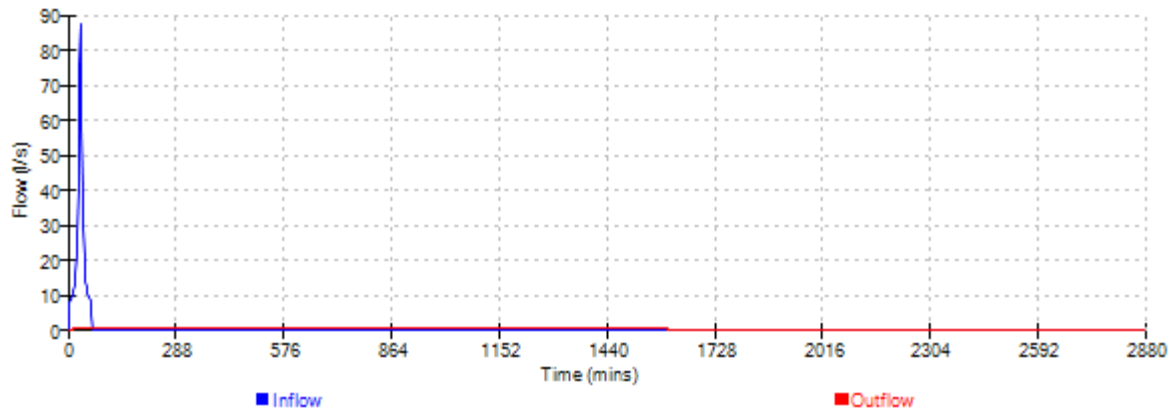
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Event: 30 min Summer



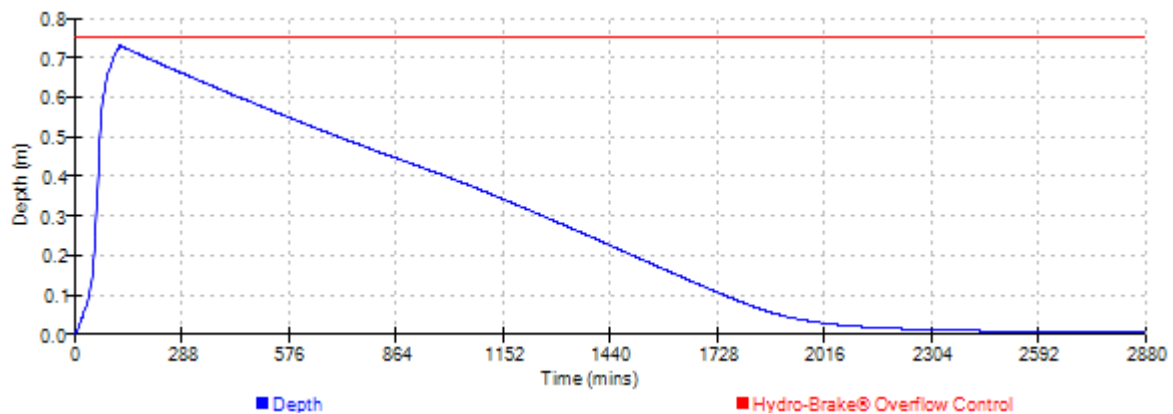
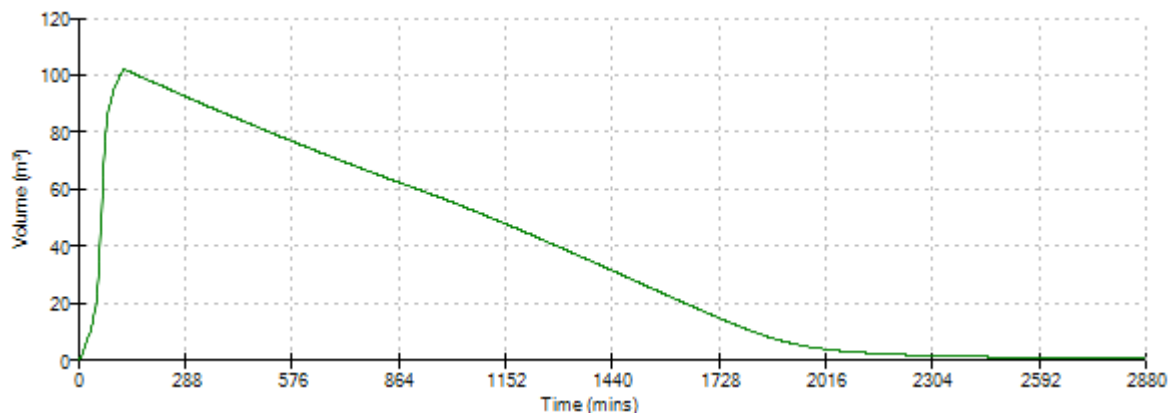
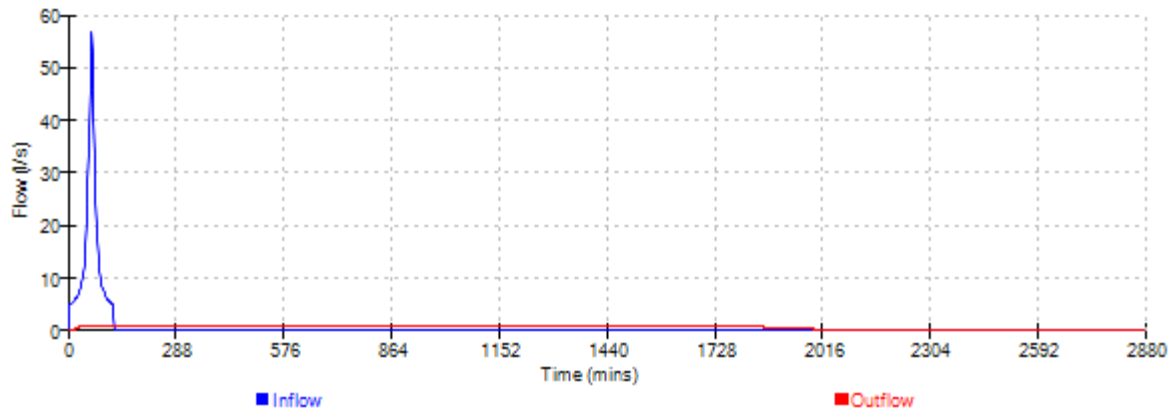
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Event: 60 min Summer



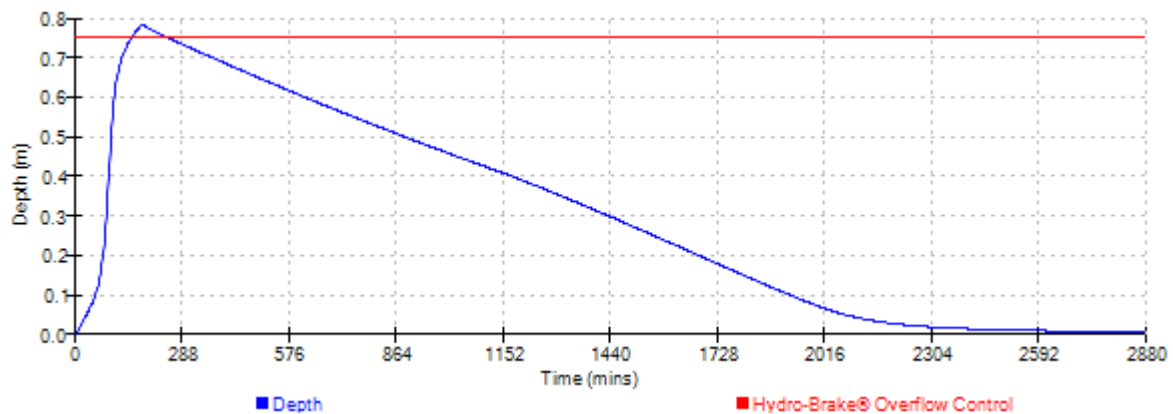
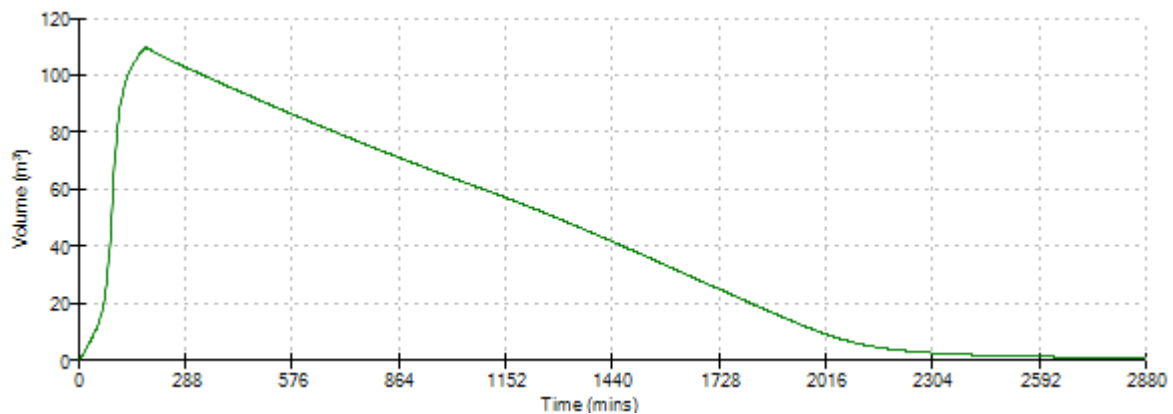
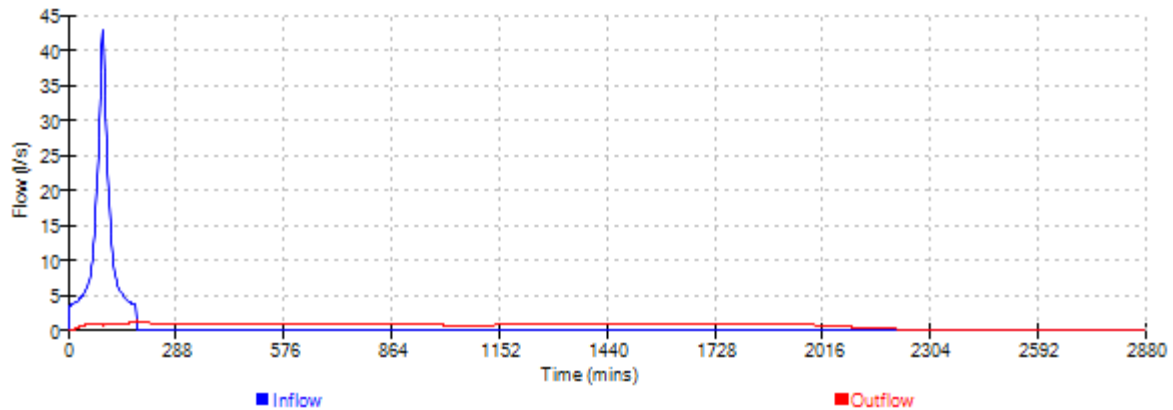
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Event: 120 min Summer



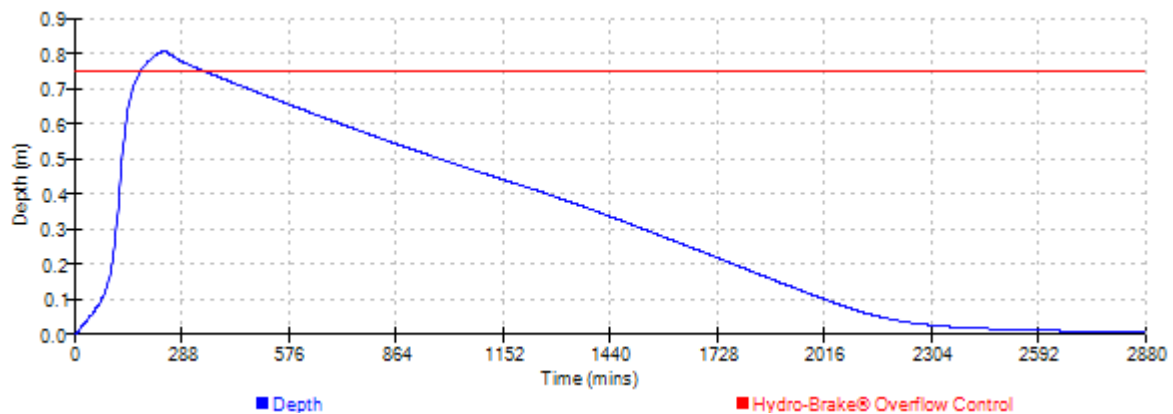
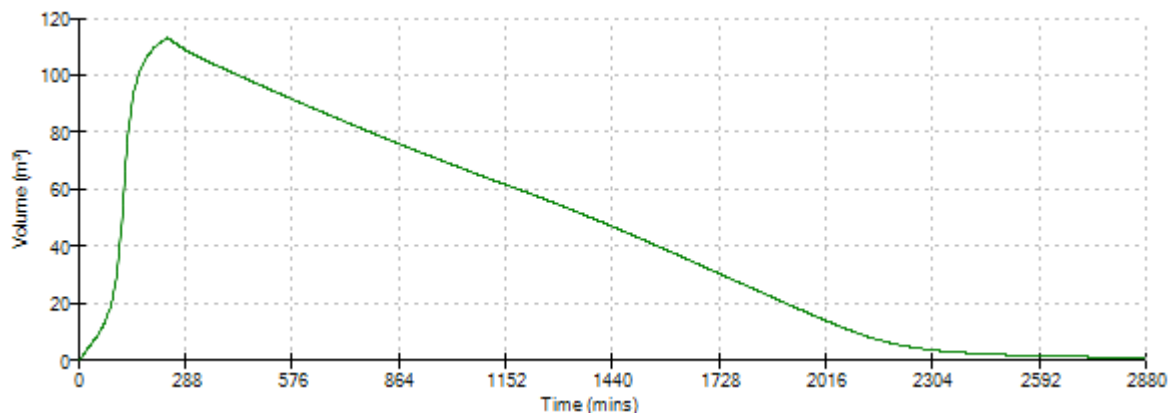
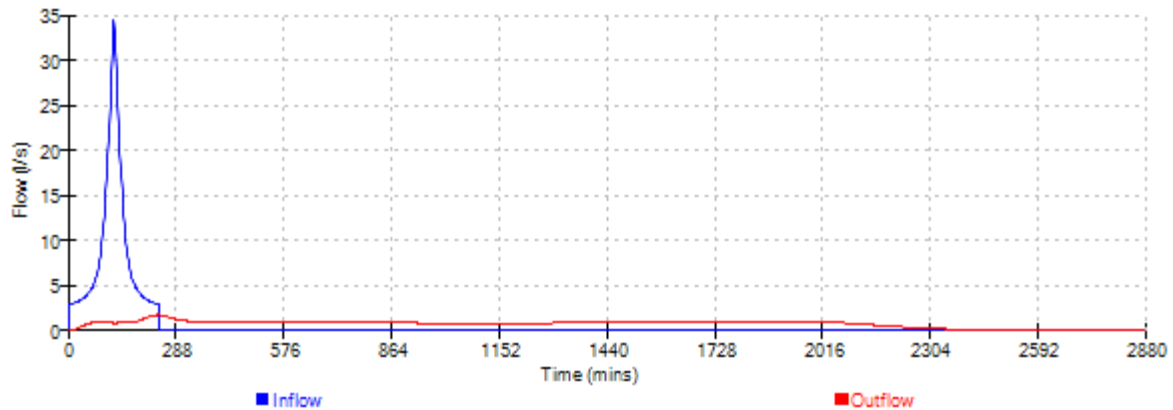
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Event: 180 min Summer



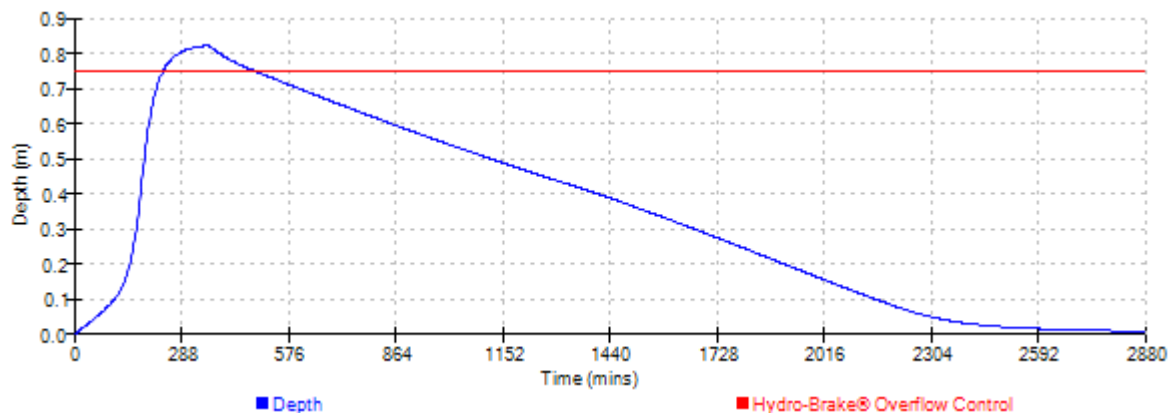
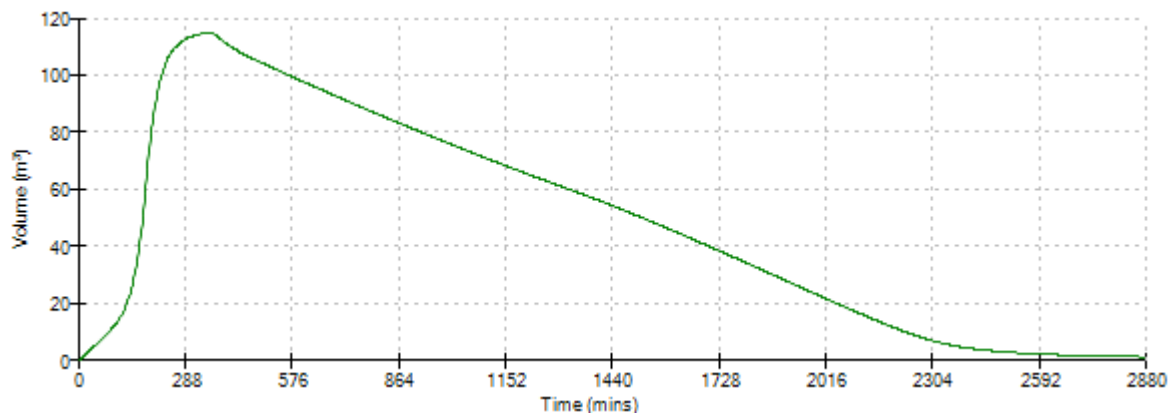
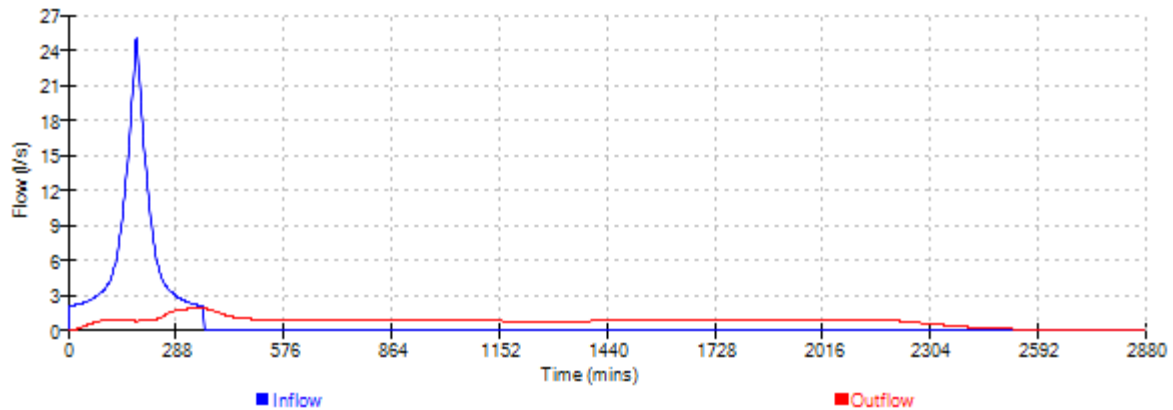
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Event: 240 min Summer



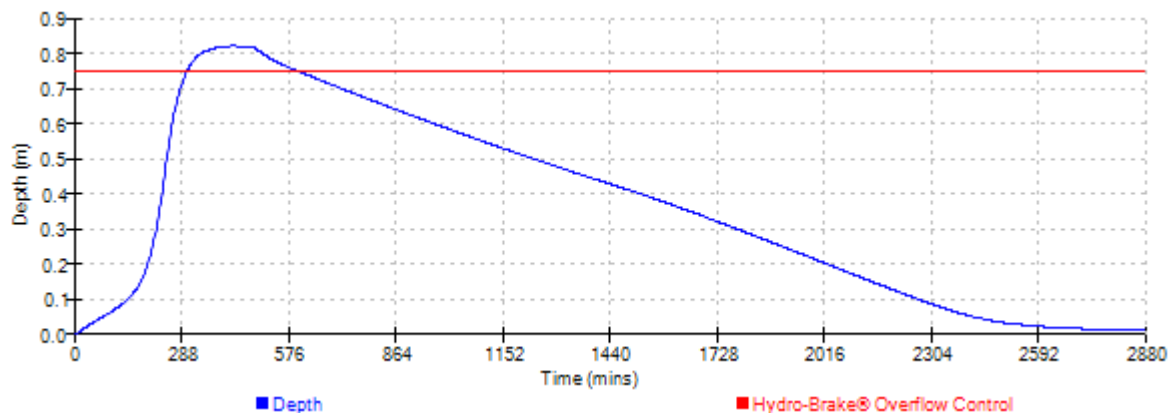
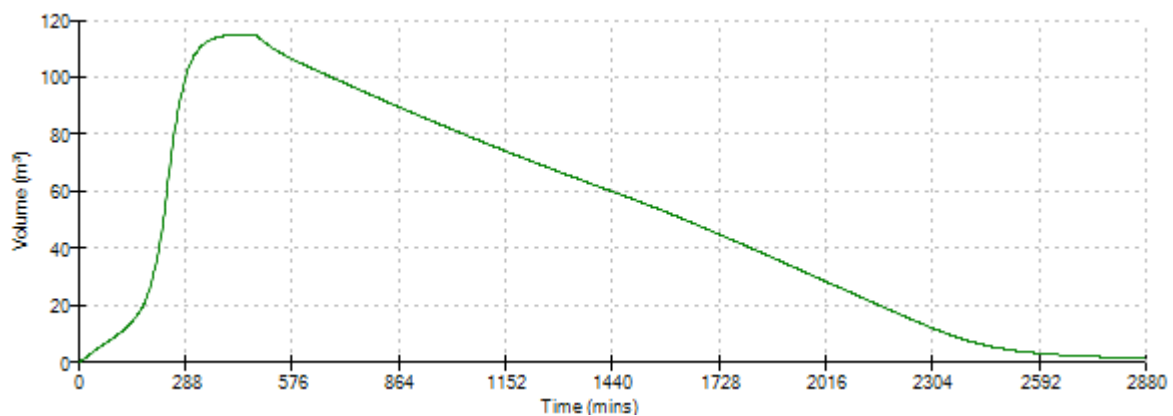
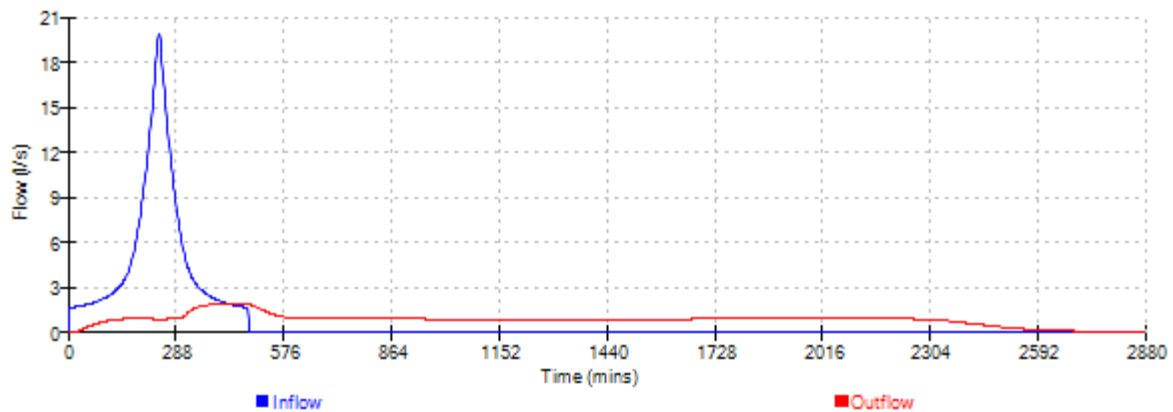
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Innovyze	Source Control 2020.1	

Event: 360 min Summer



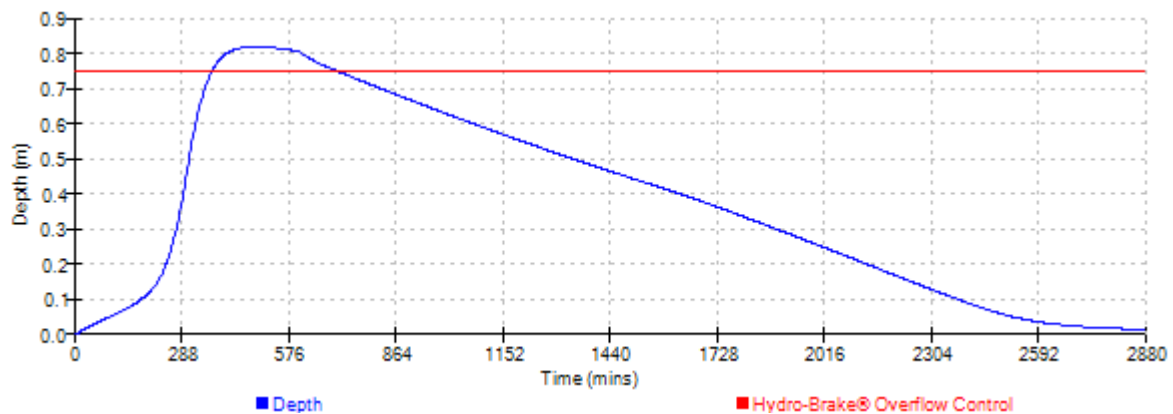
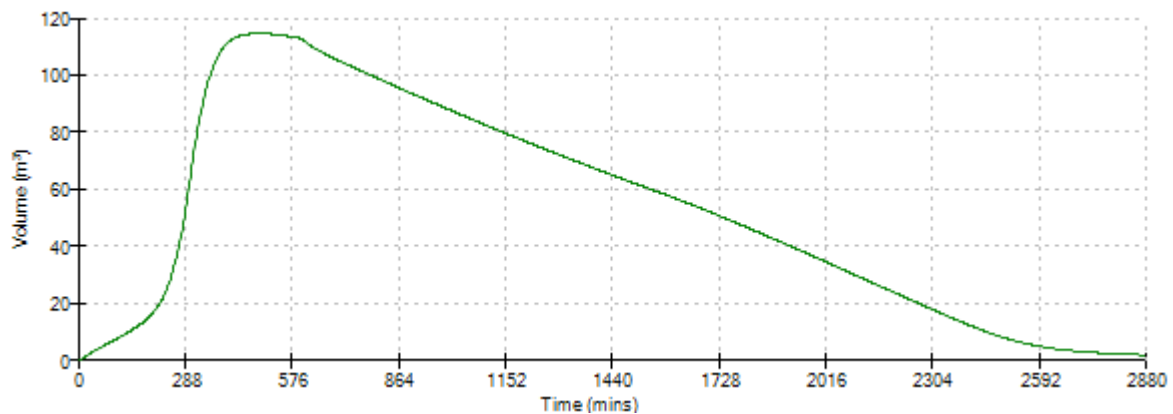
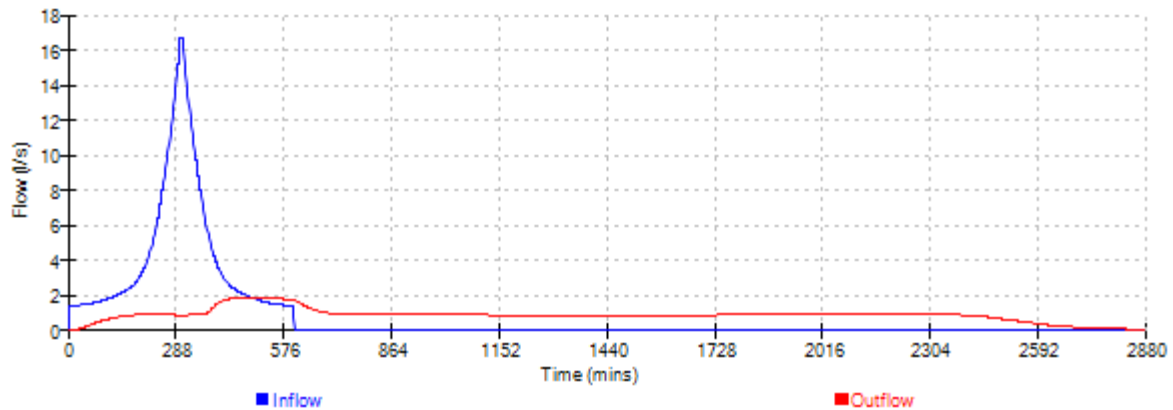
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Summer



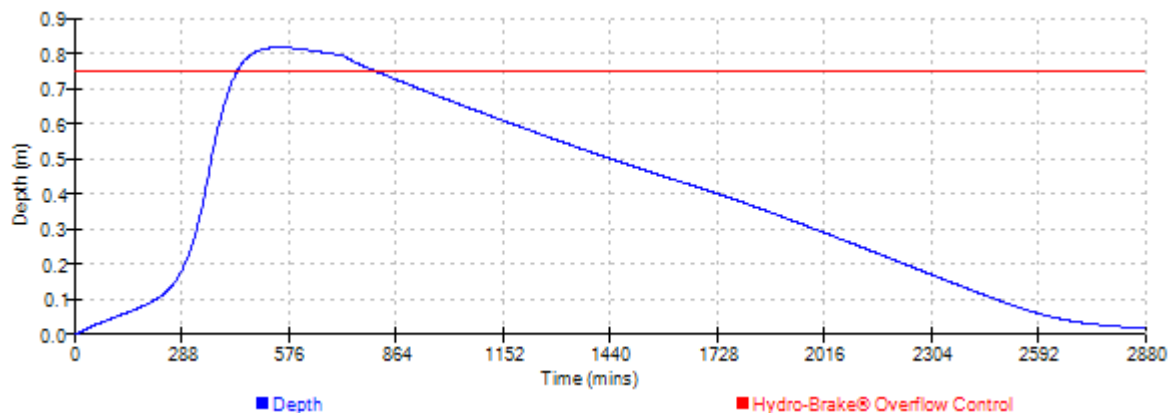
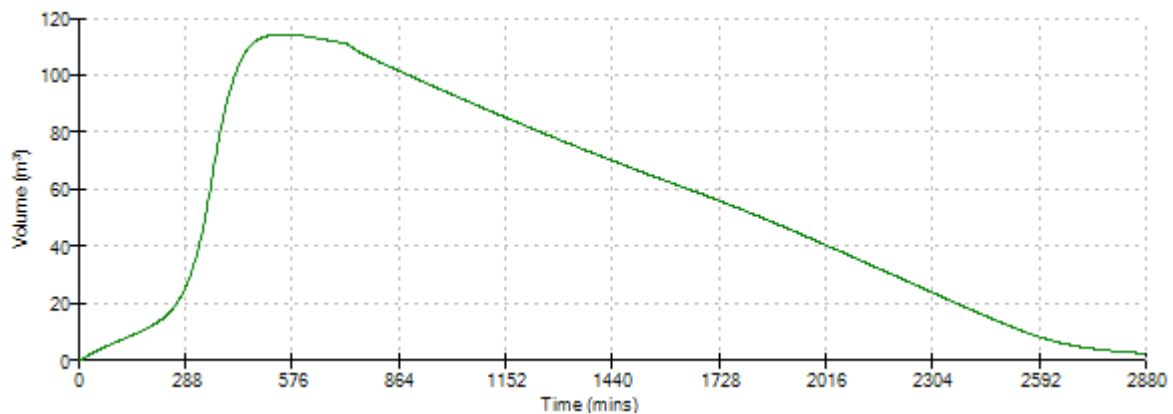
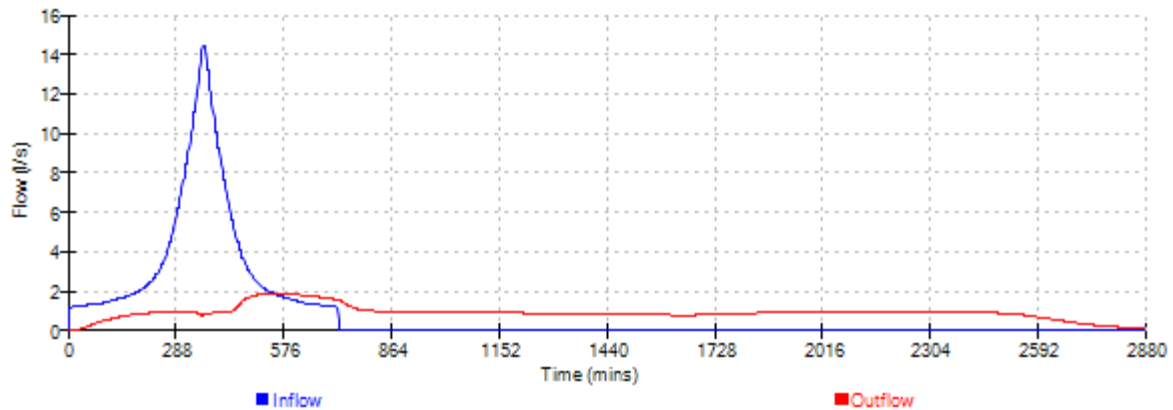
Easy Flood Risk		Page 14
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Summer



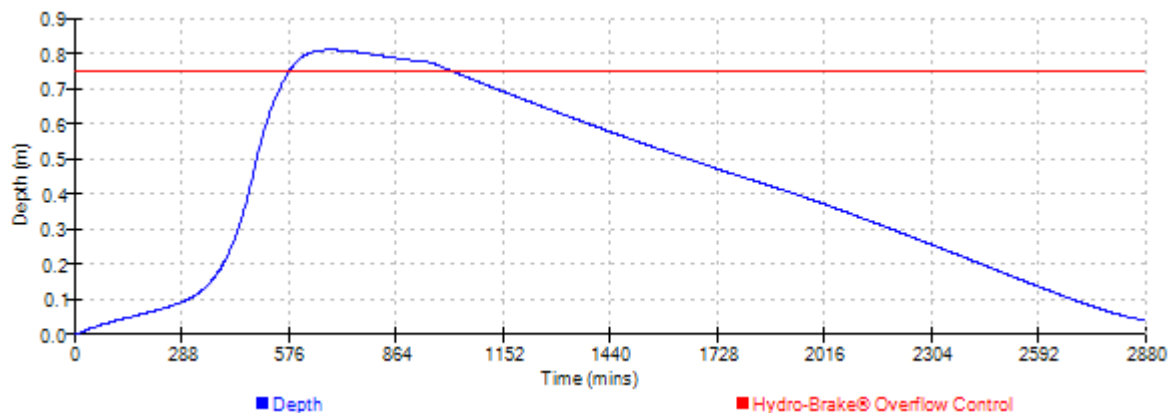
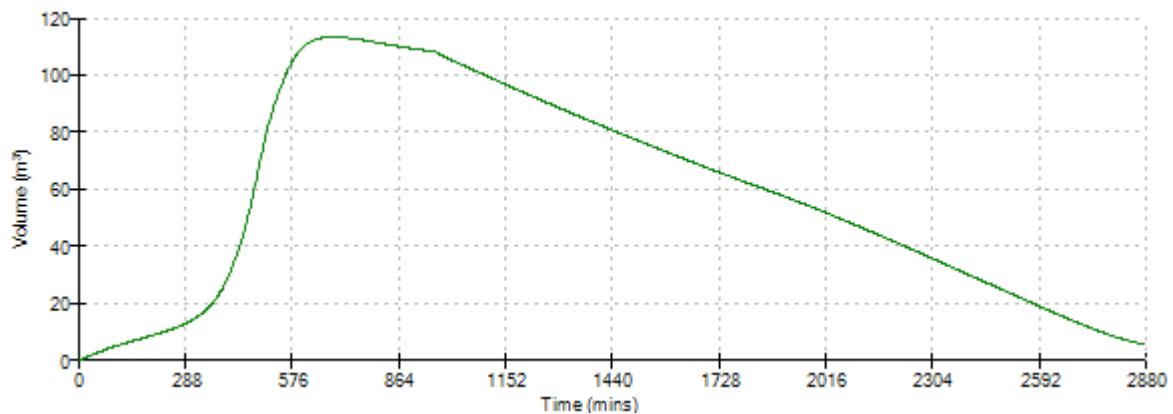
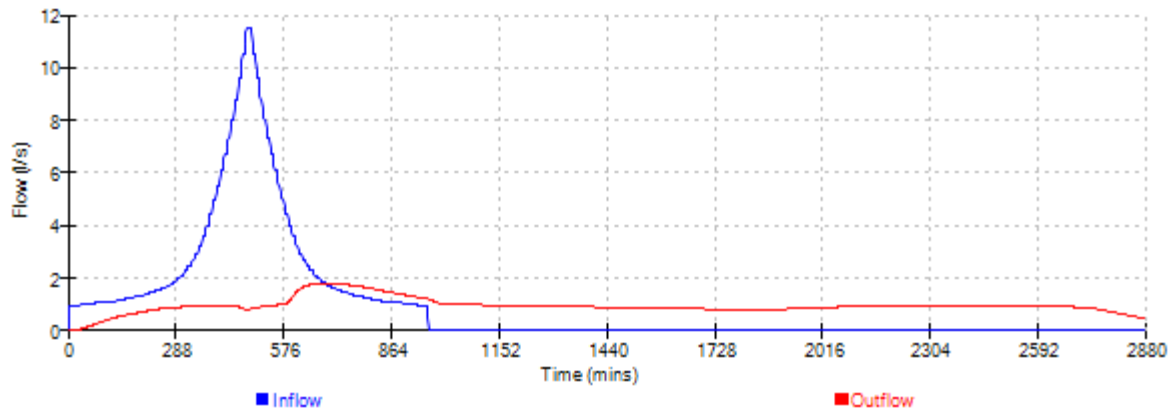
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Summer



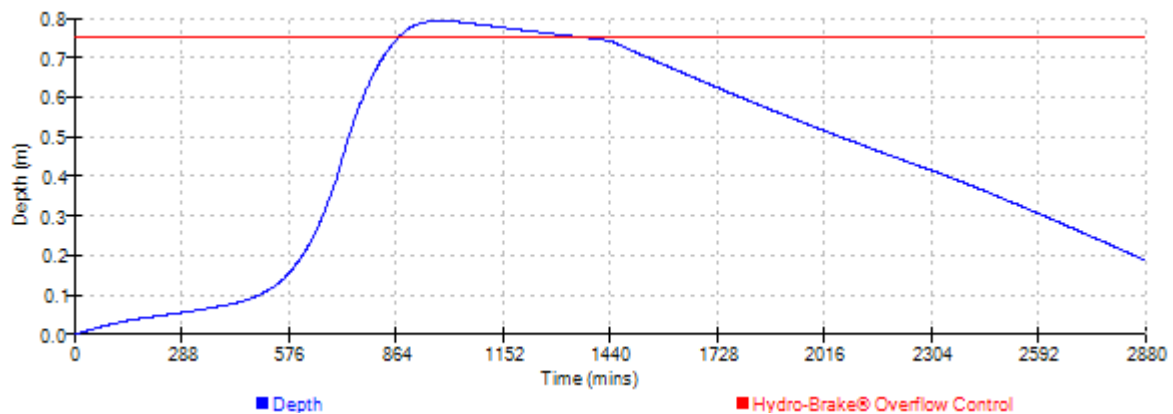
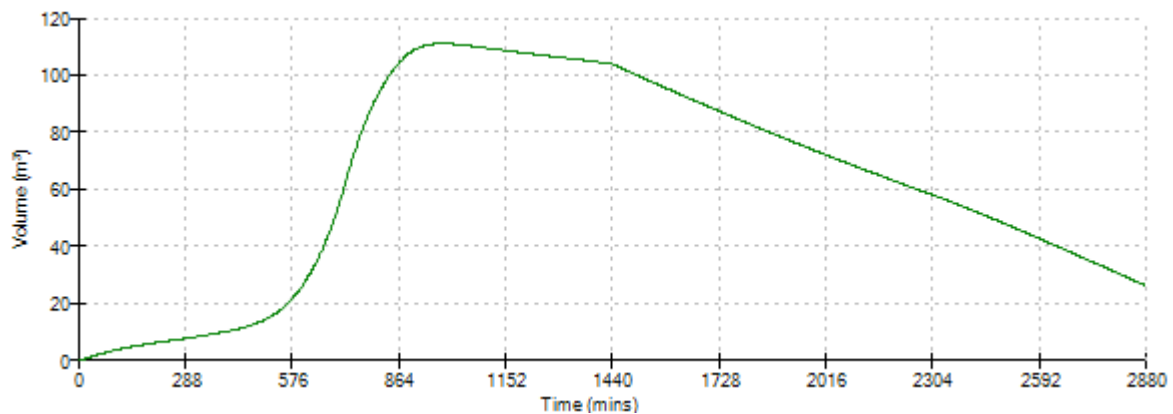
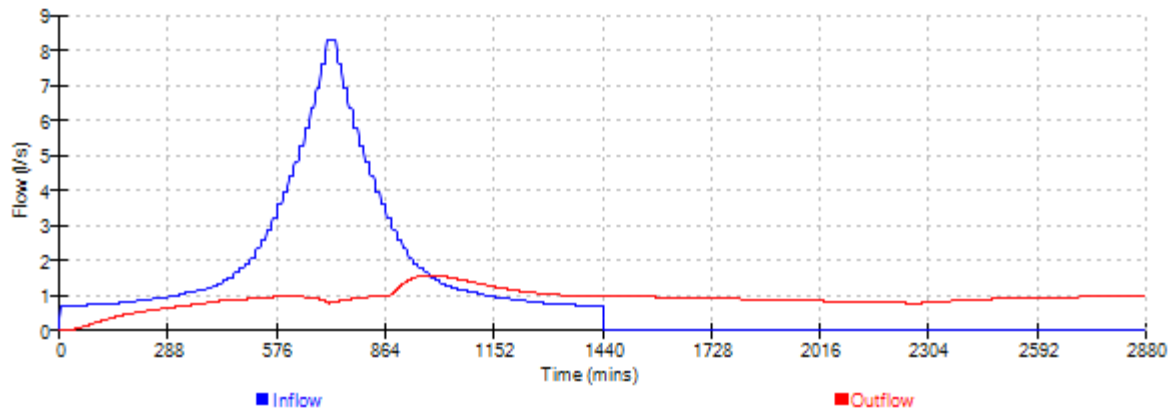
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Summer



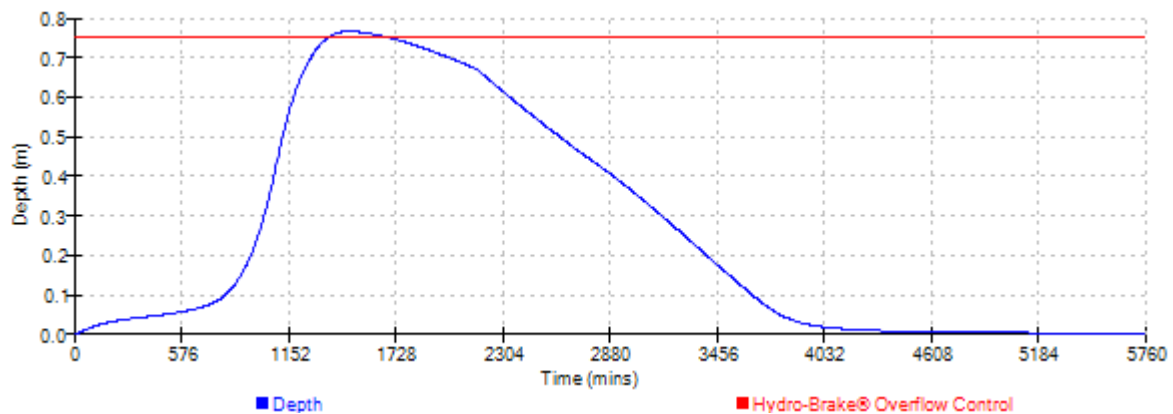
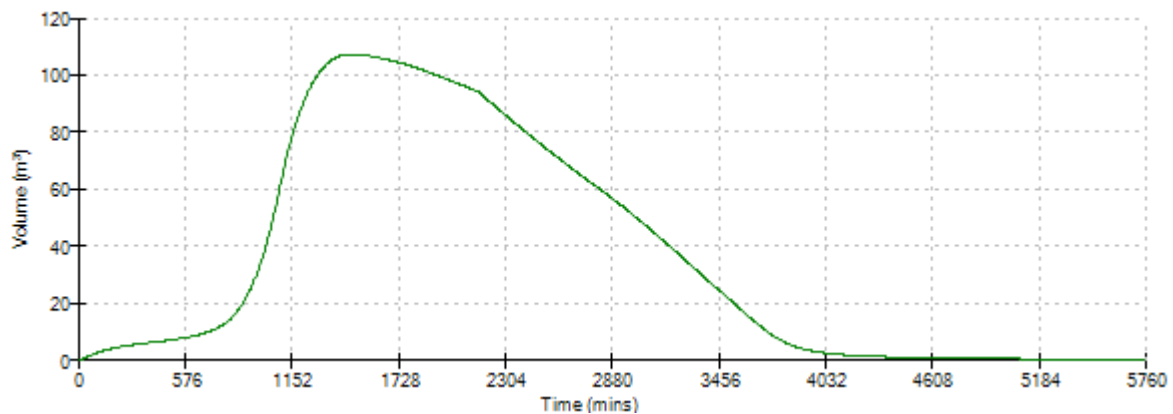
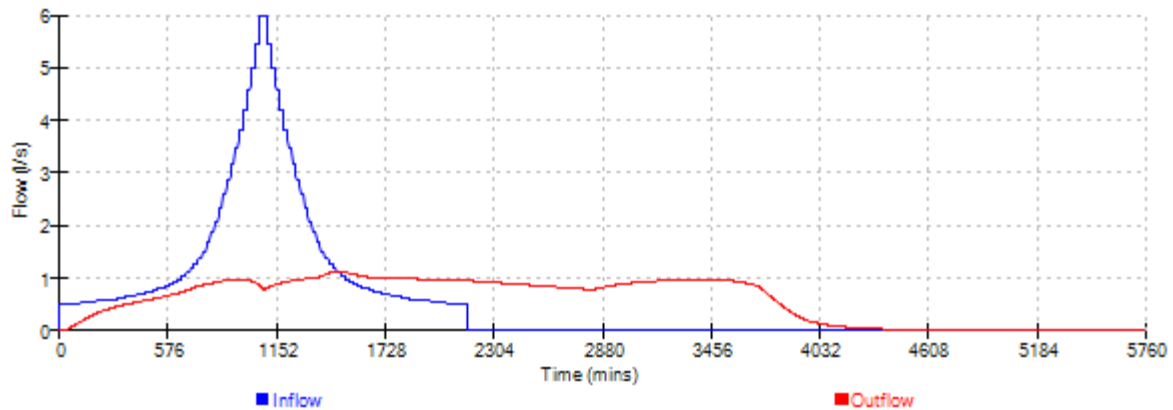
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



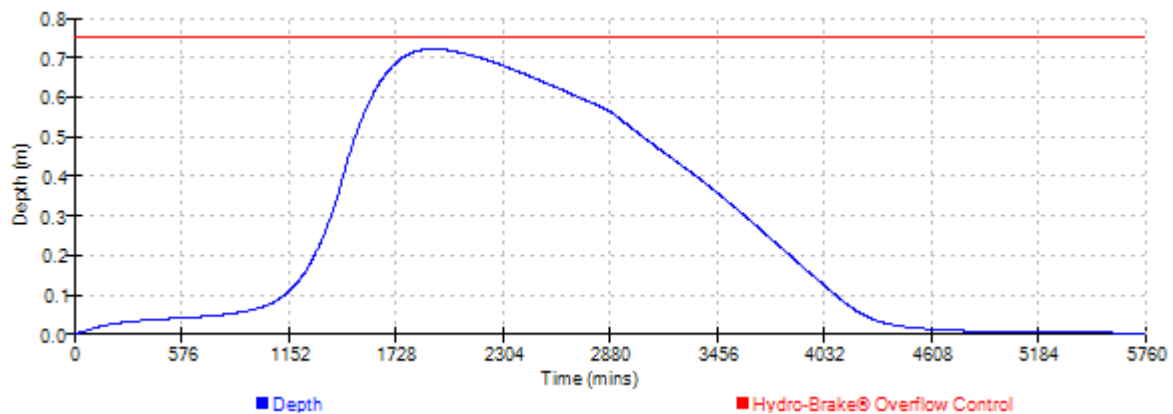
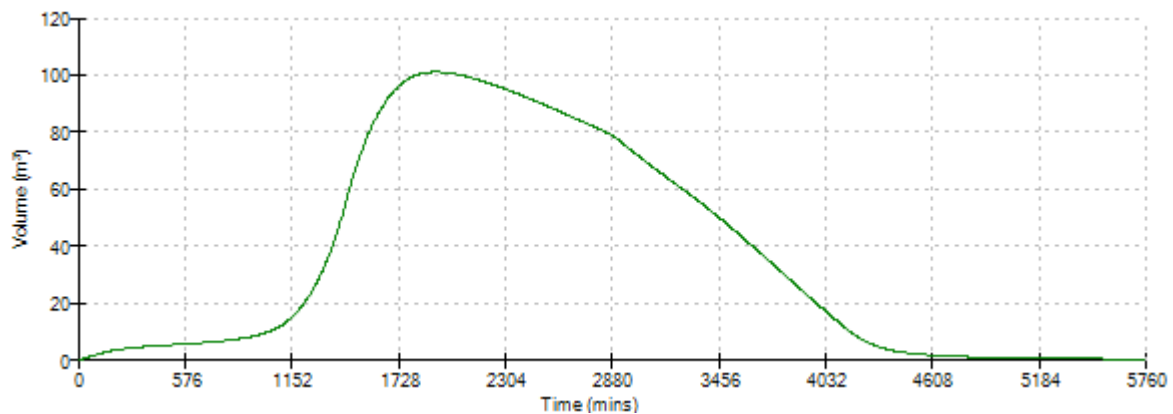
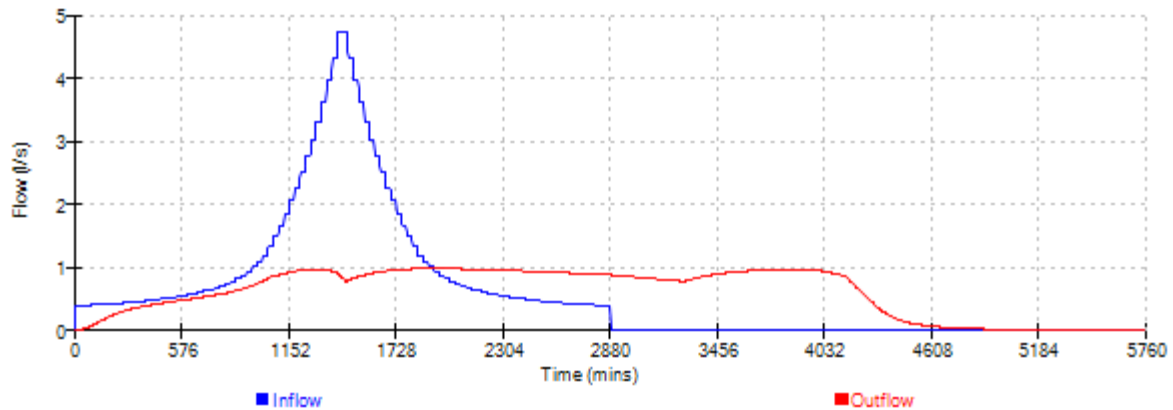
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Summer



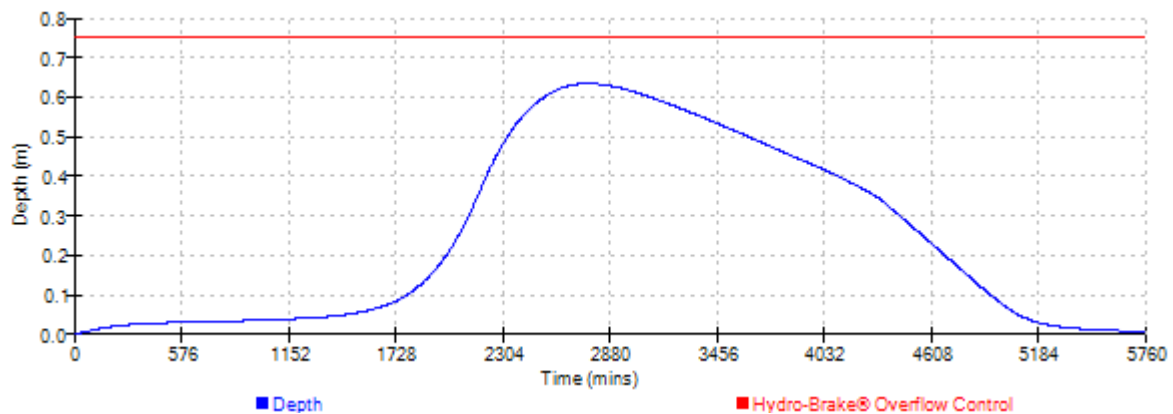
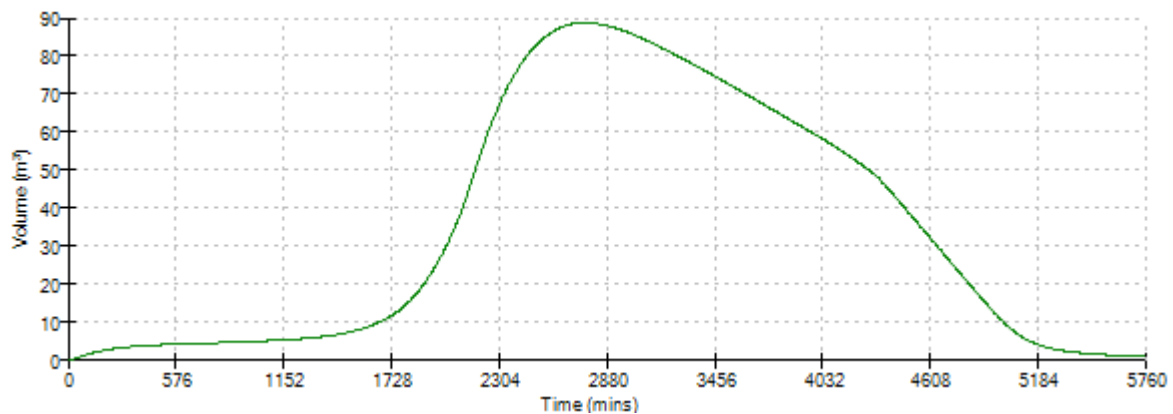
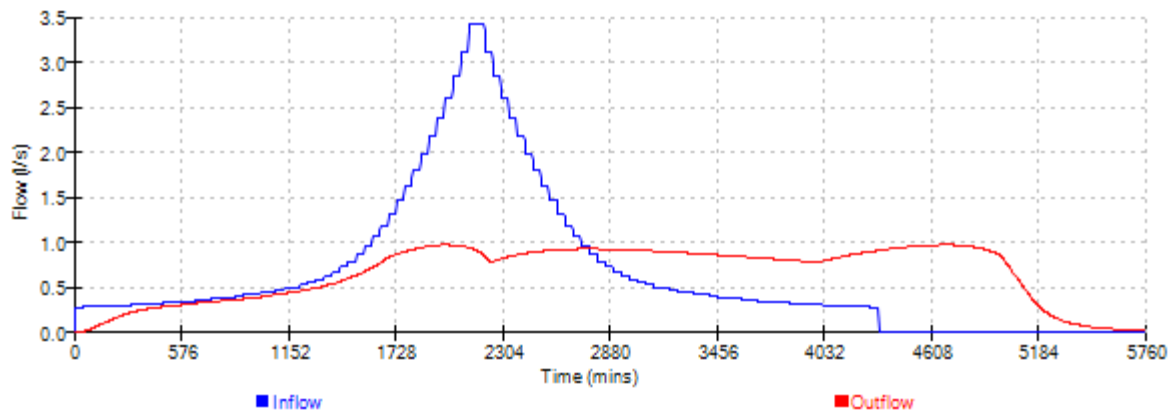
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



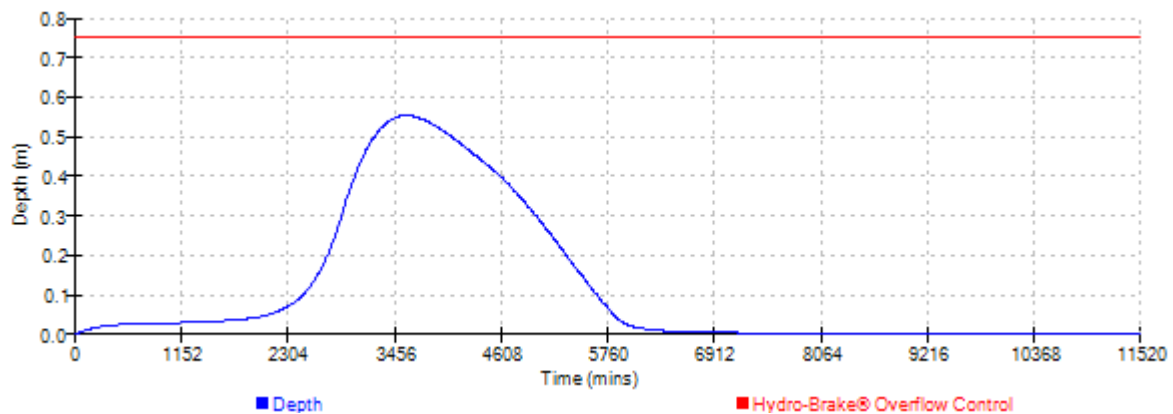
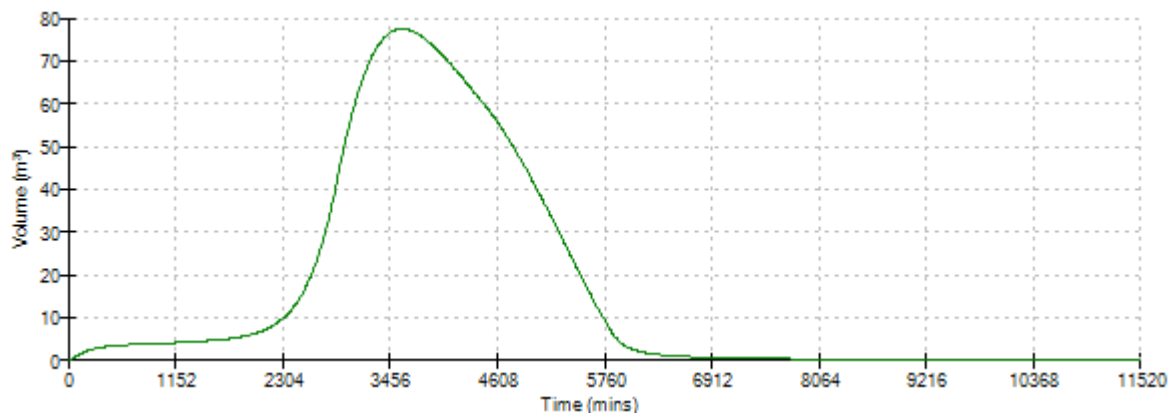
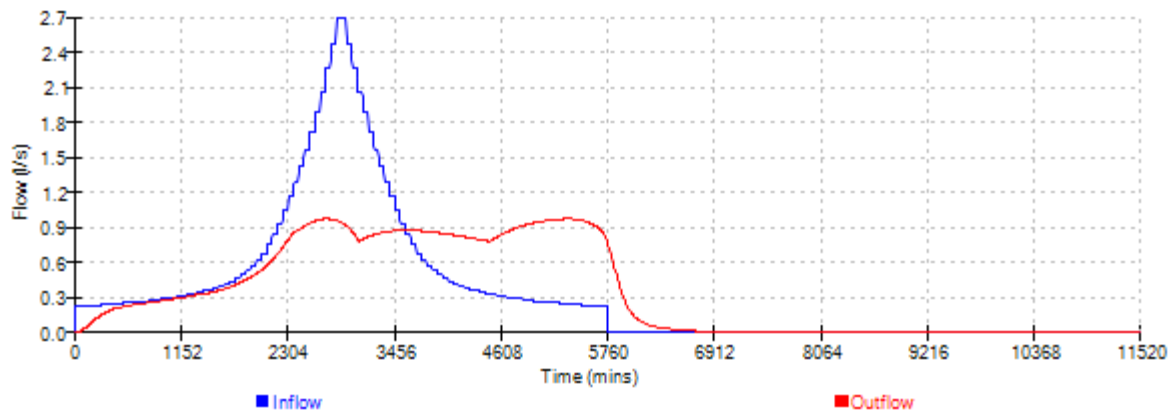
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



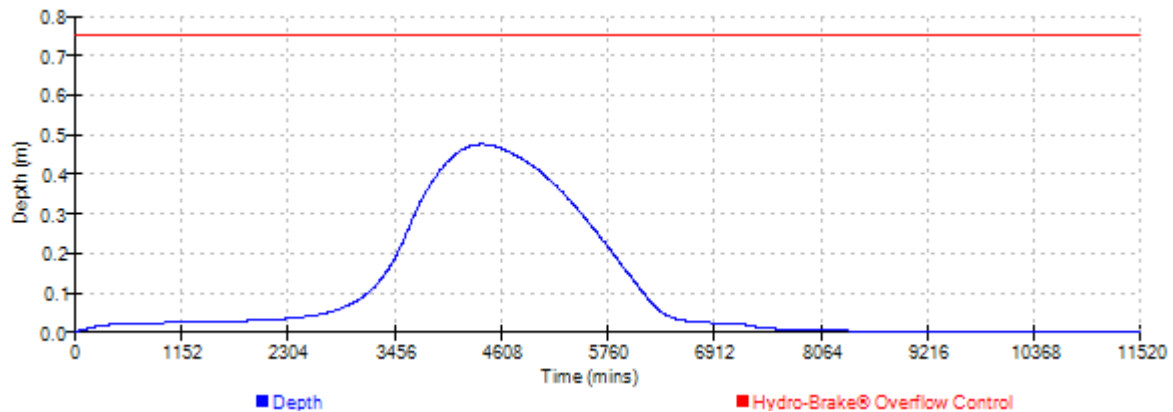
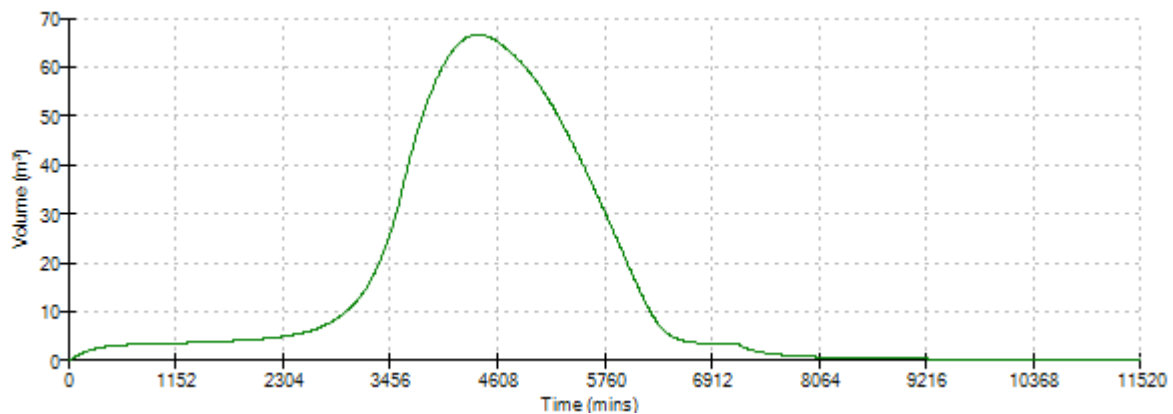
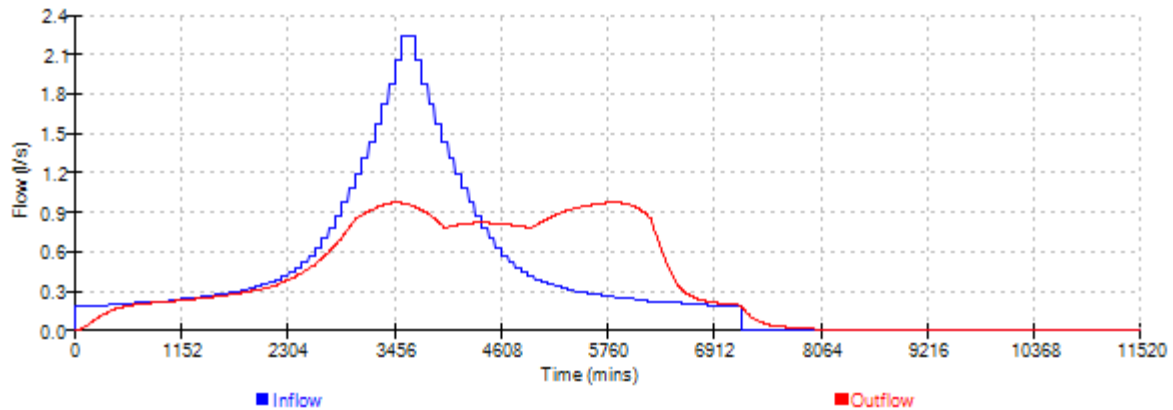
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



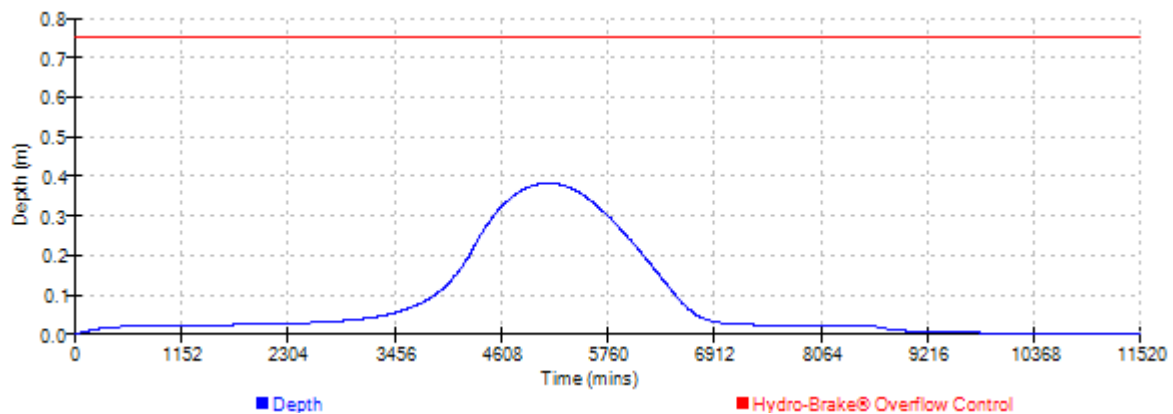
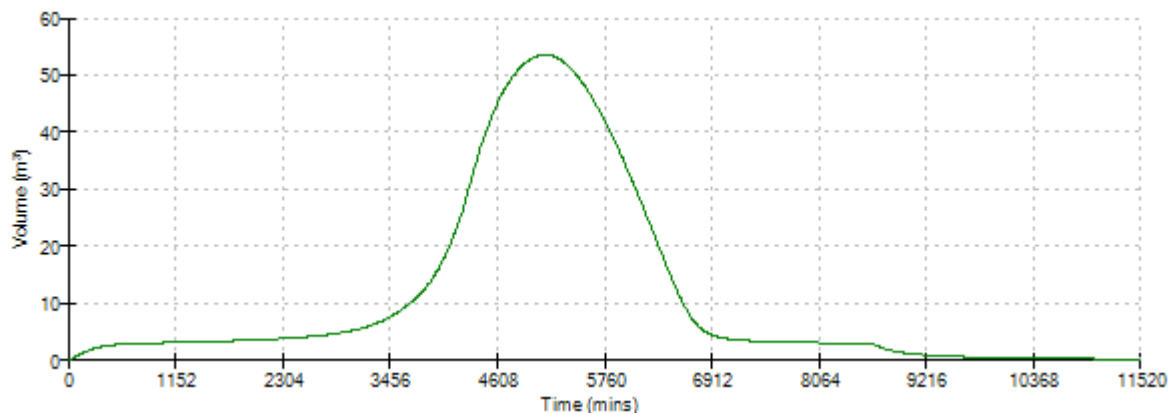
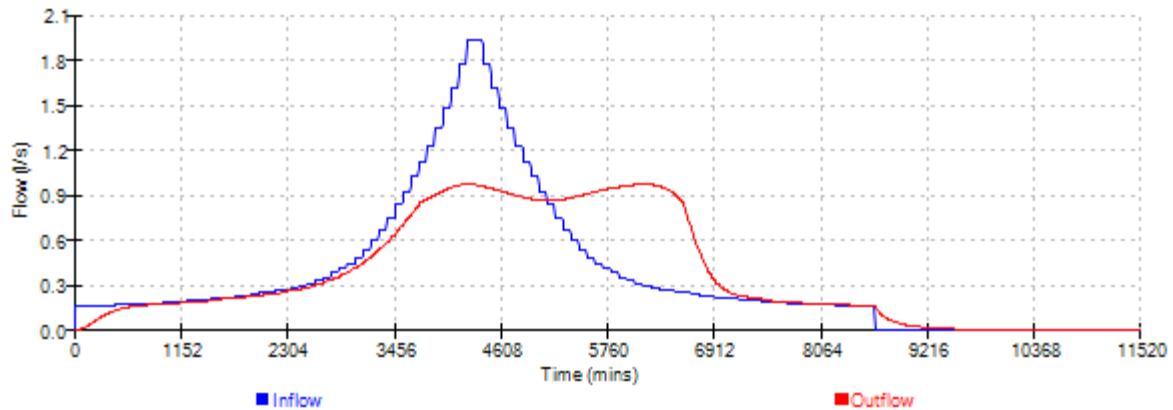
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



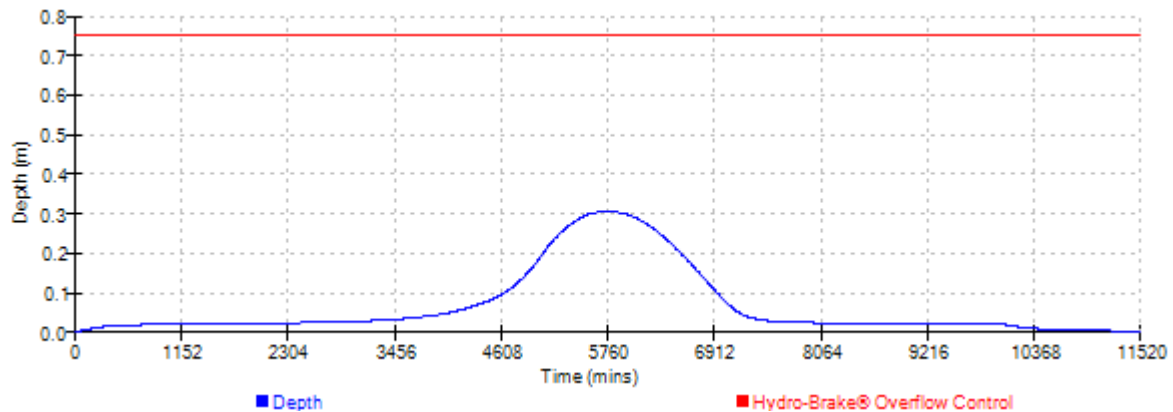
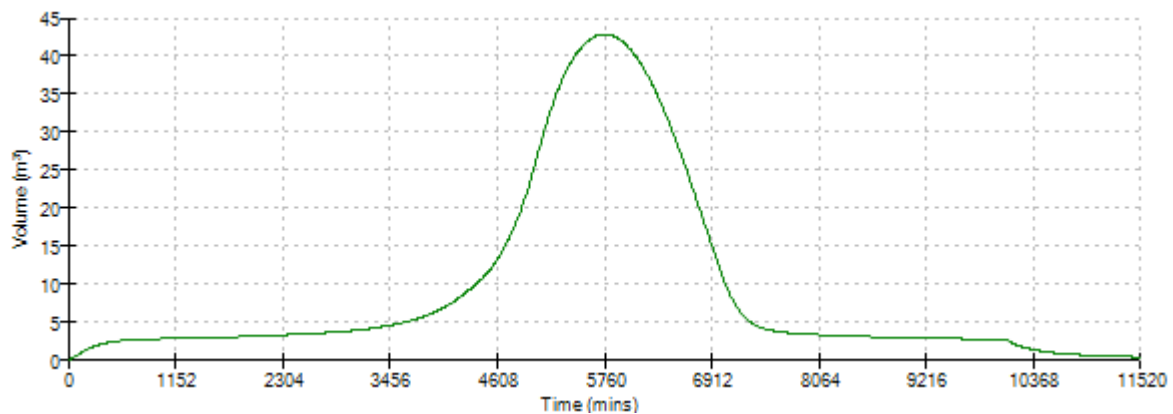
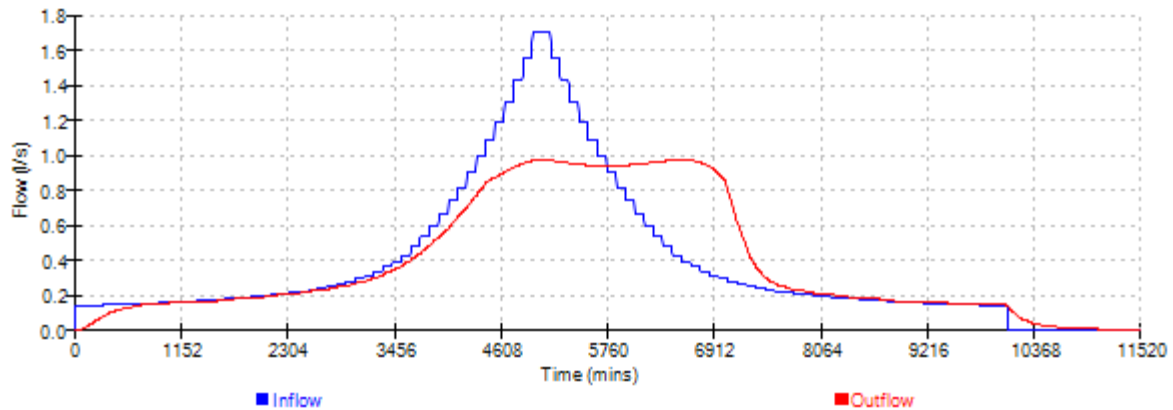
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



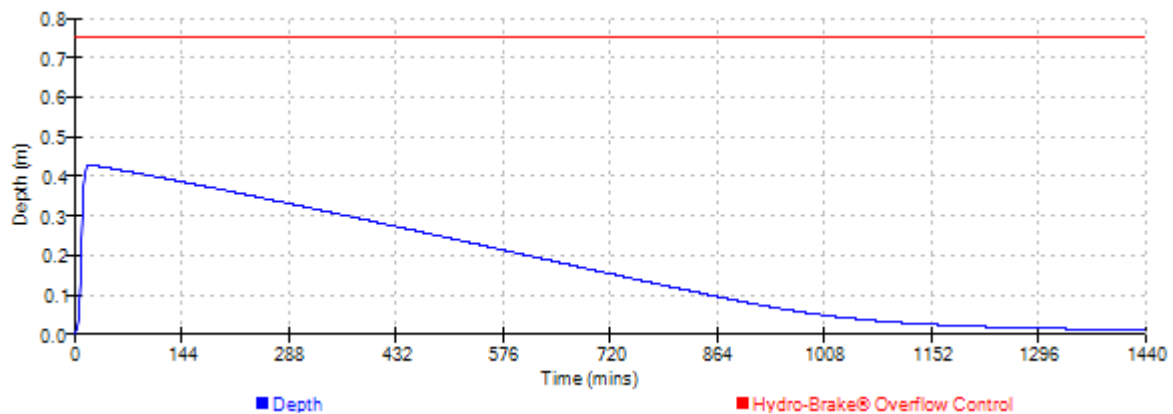
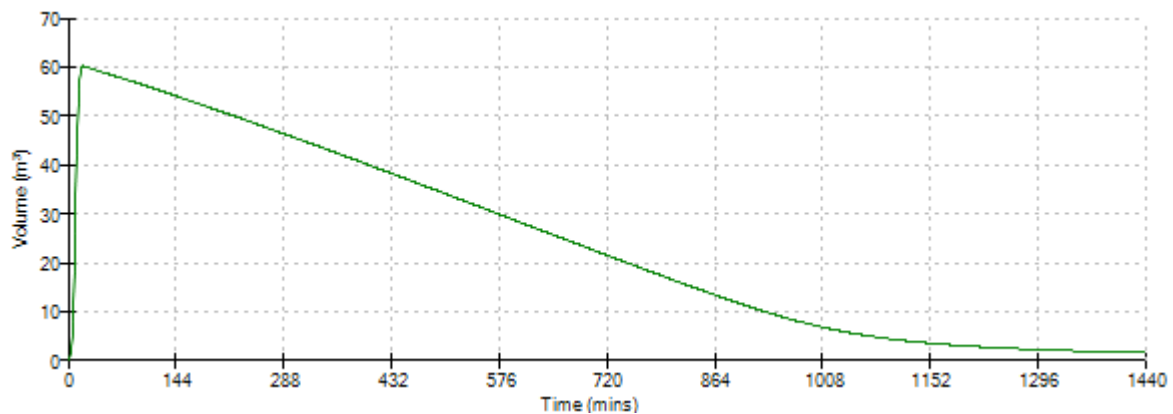
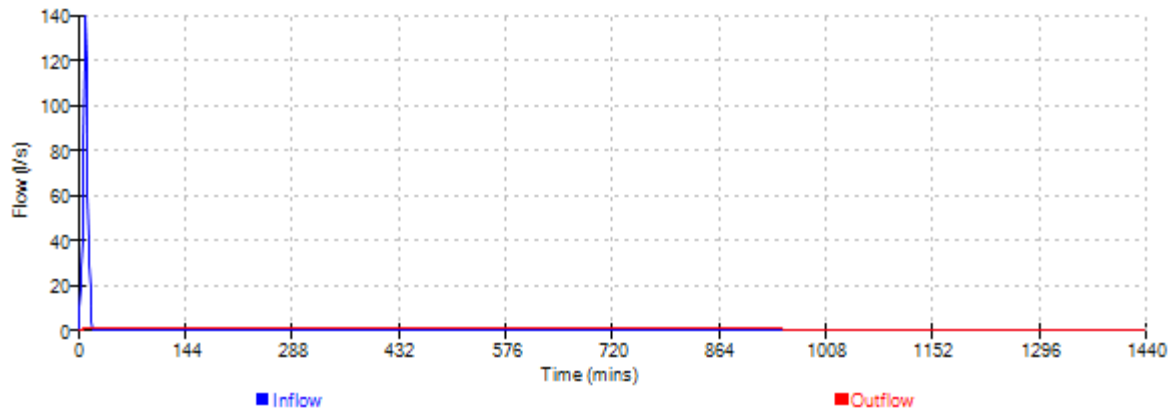
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



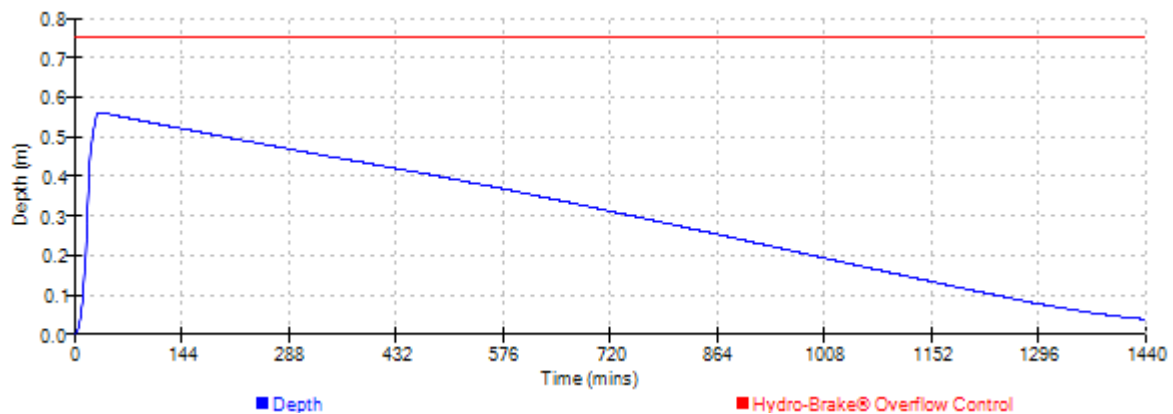
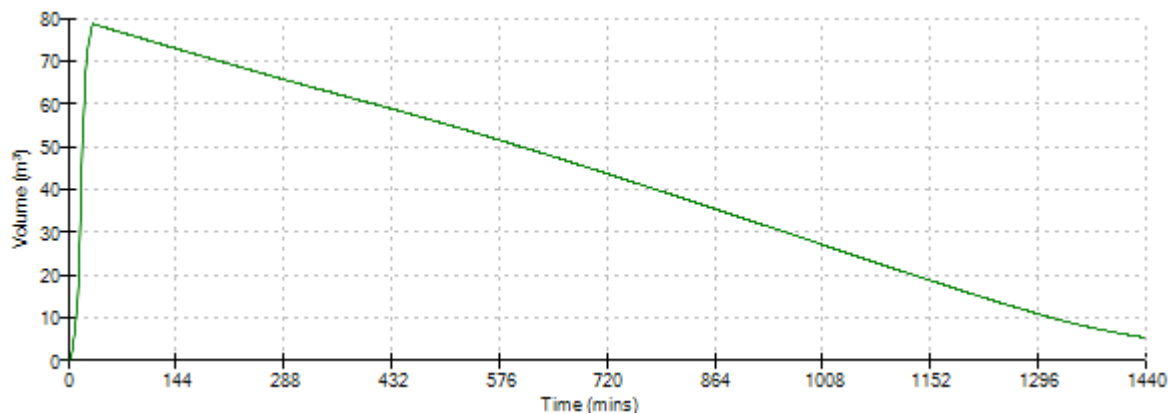
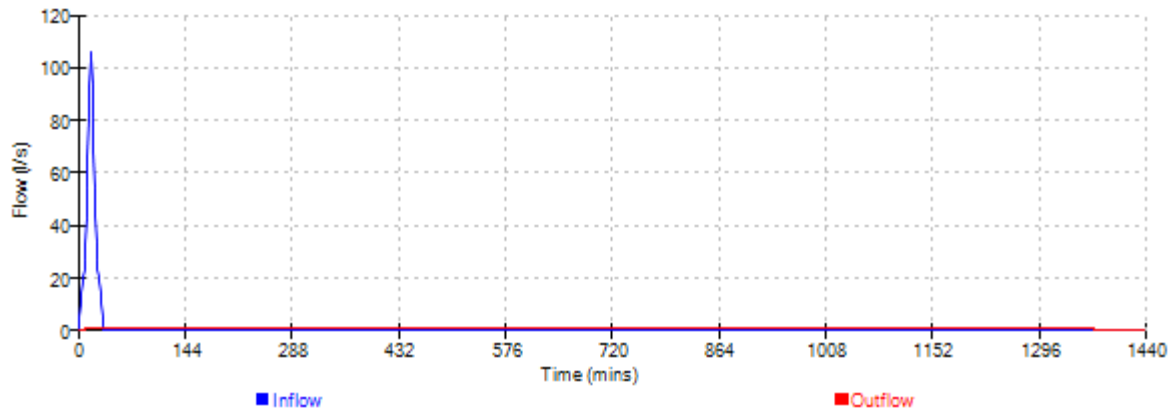
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 15 min Winter



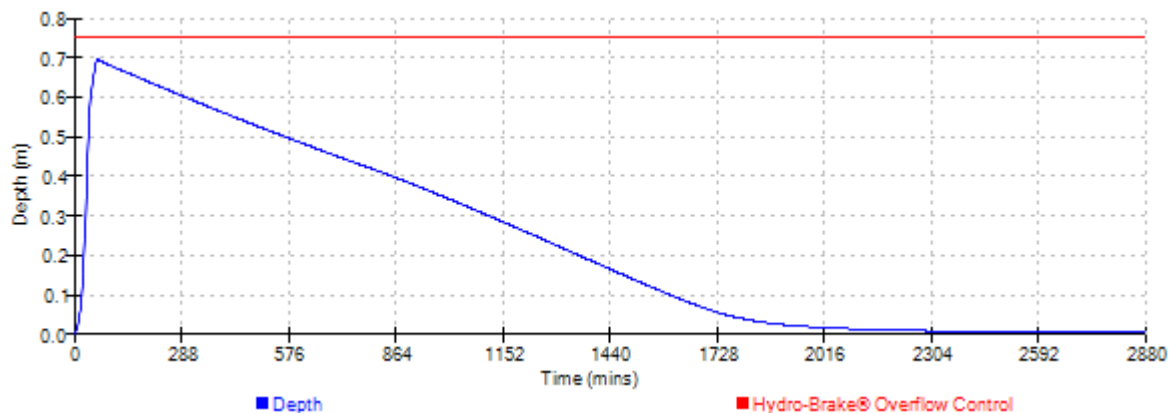
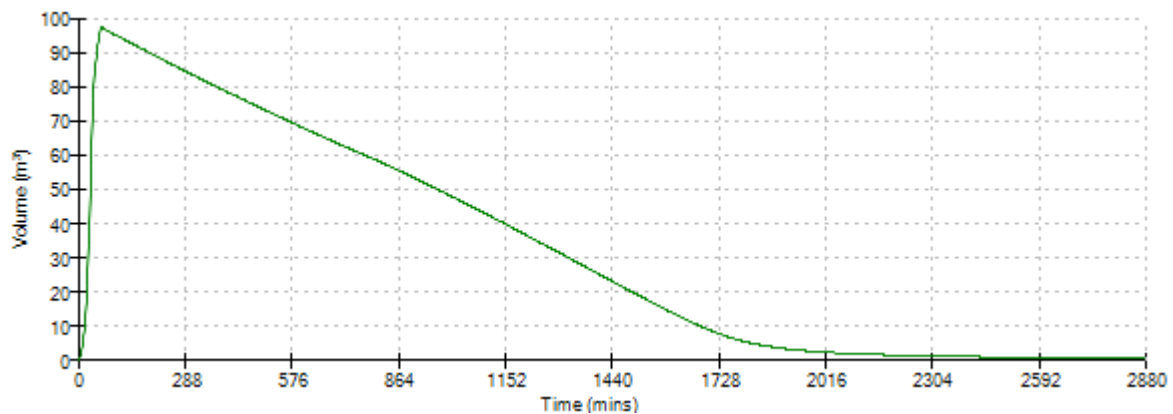
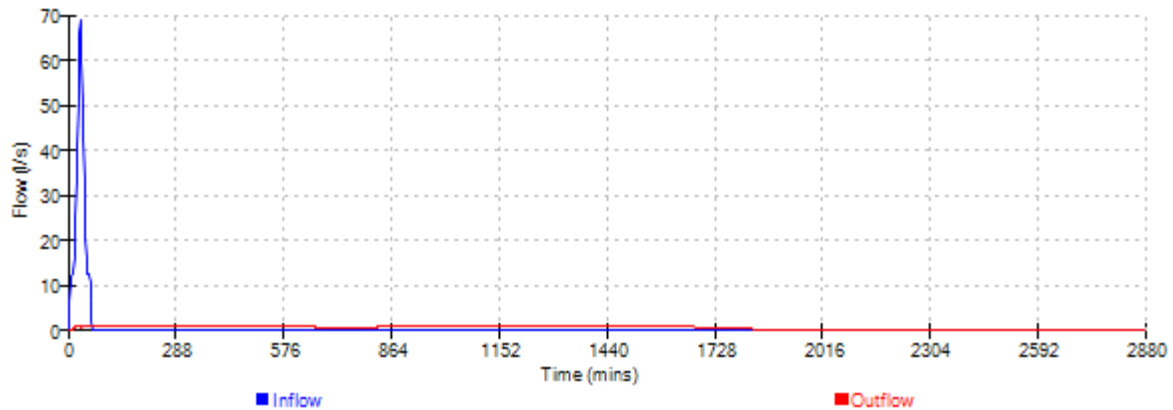
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 30 min Winter



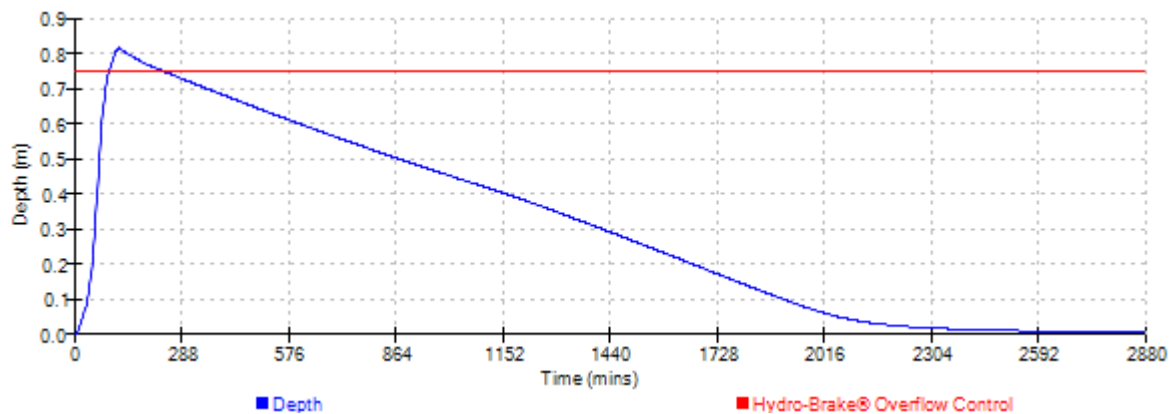
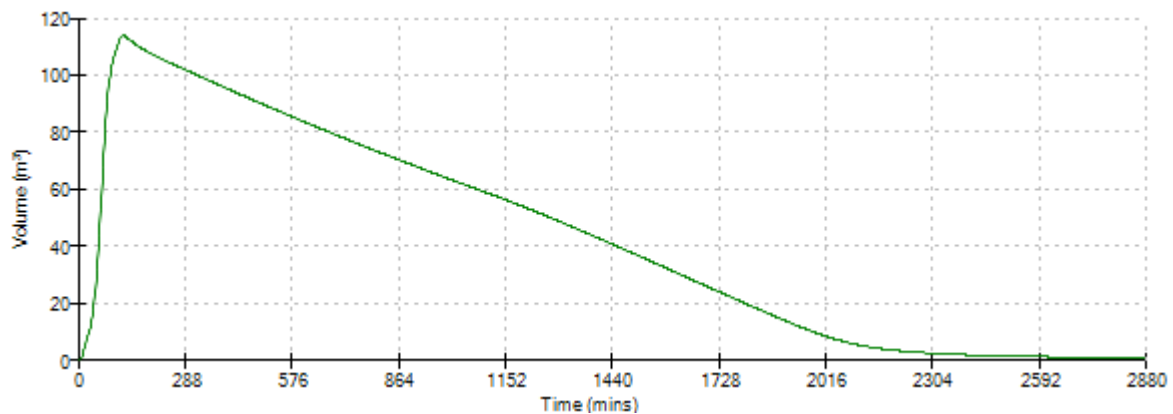
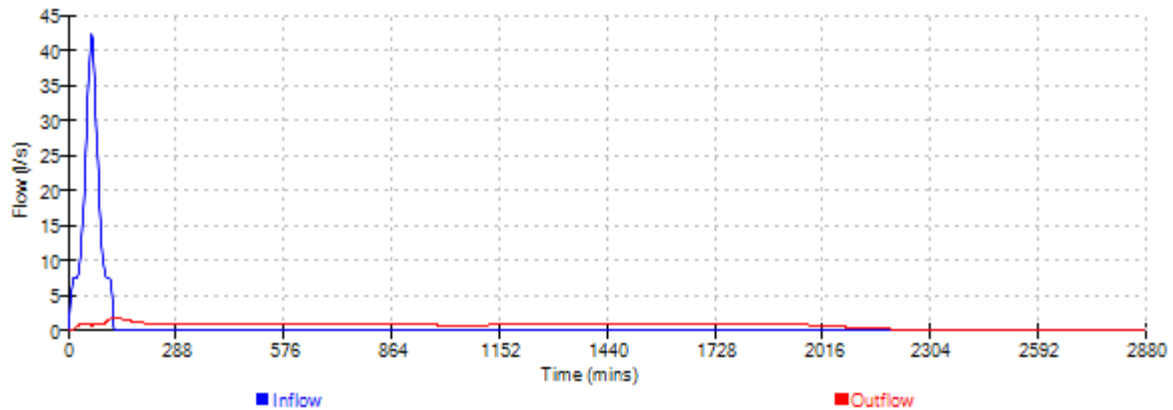
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



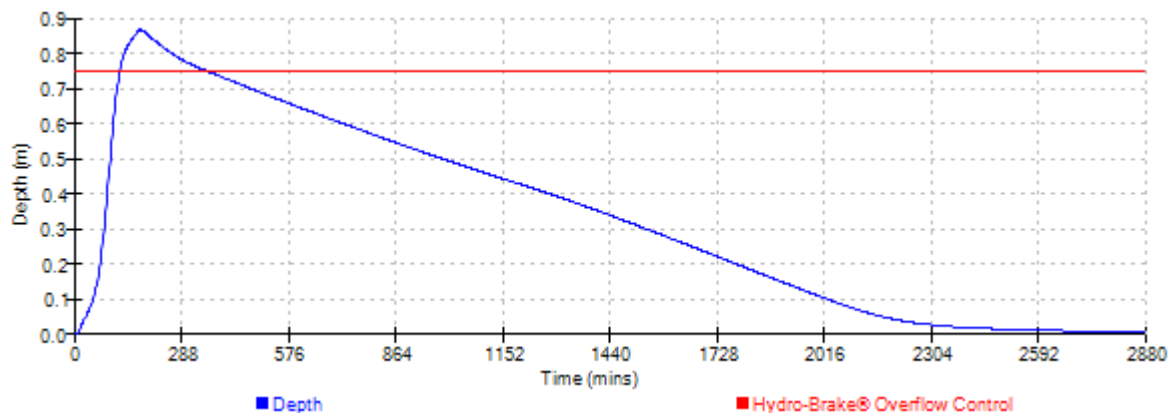
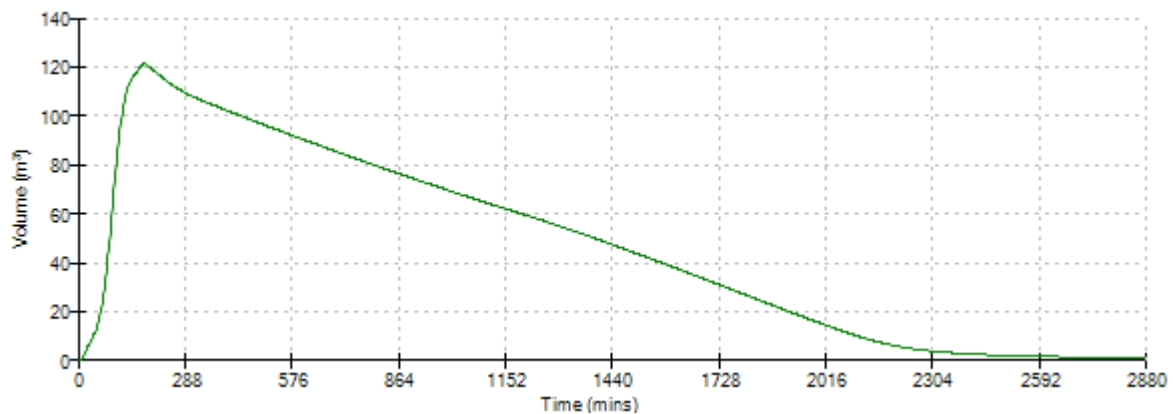
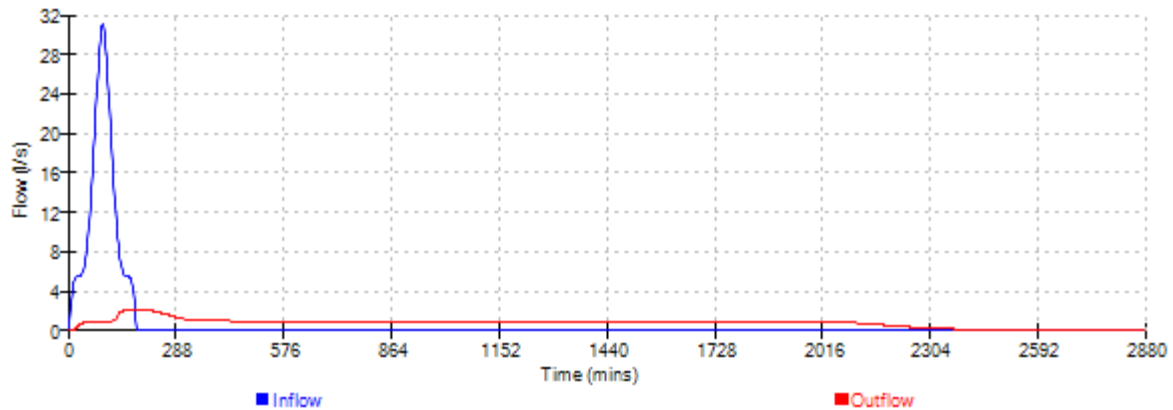
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



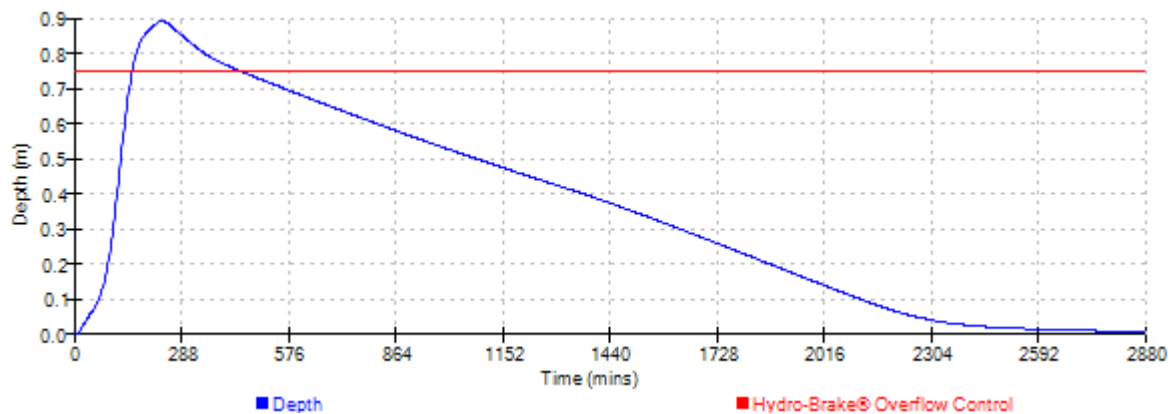
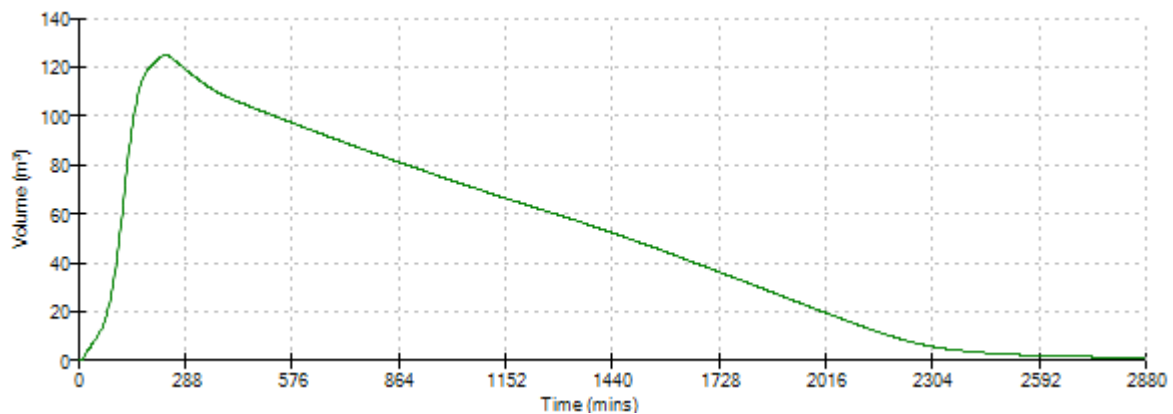
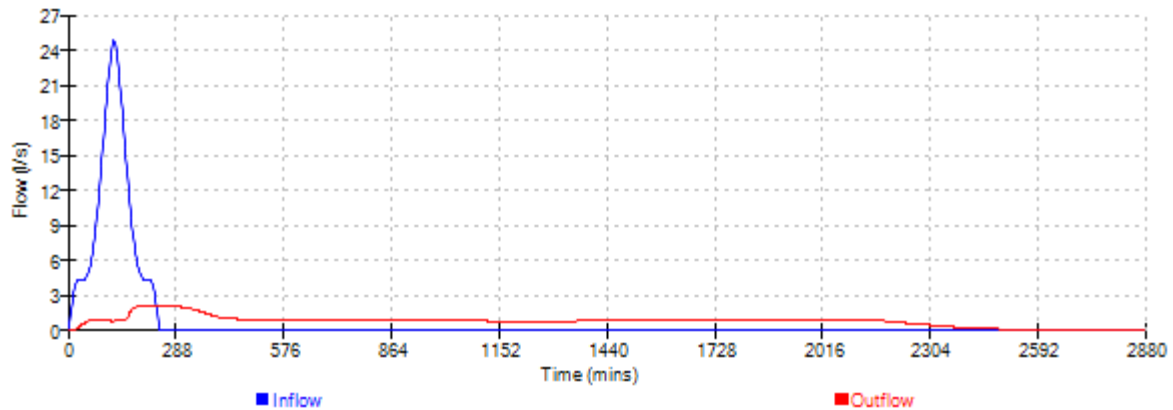
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



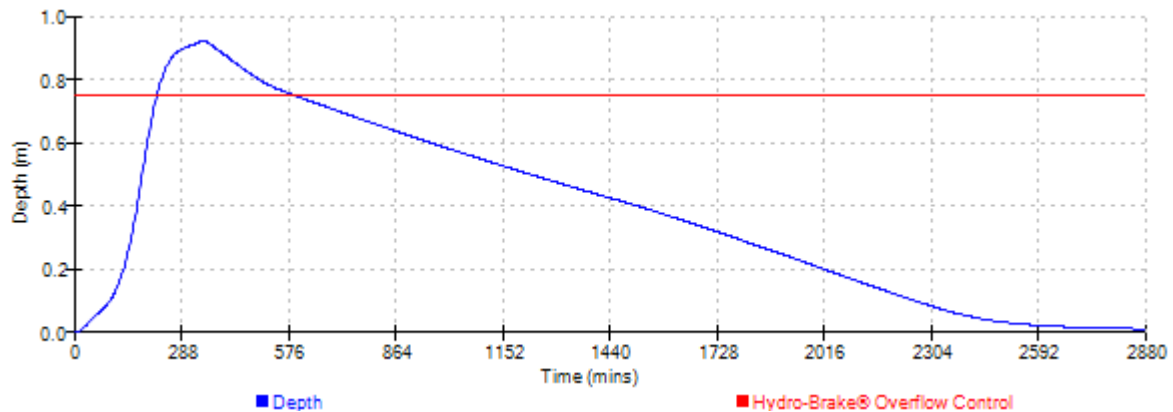
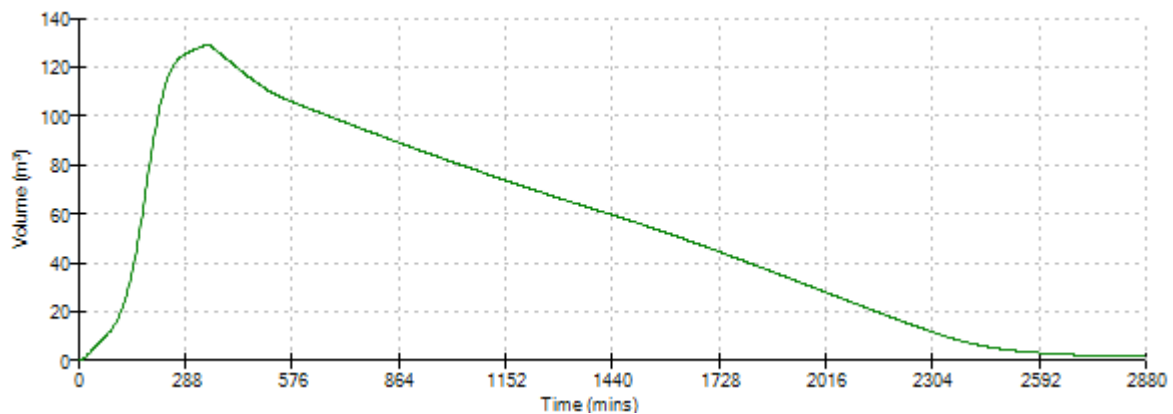
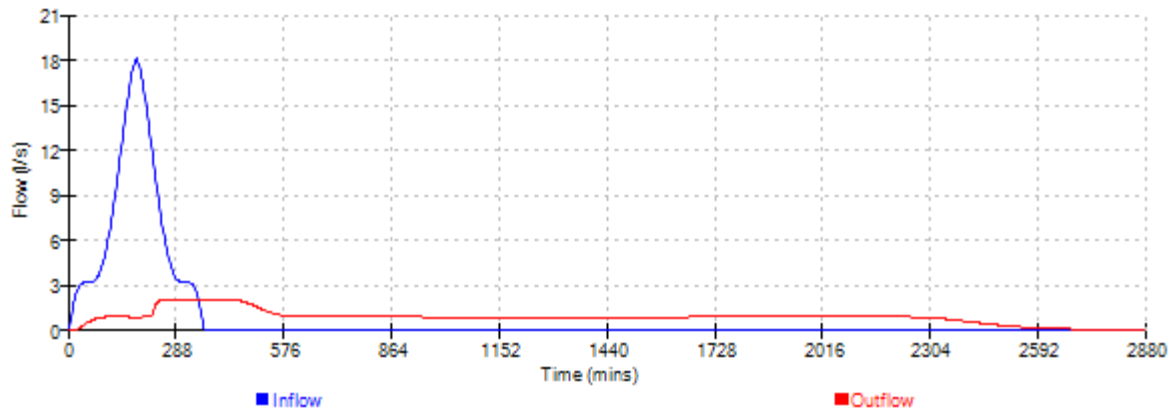
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



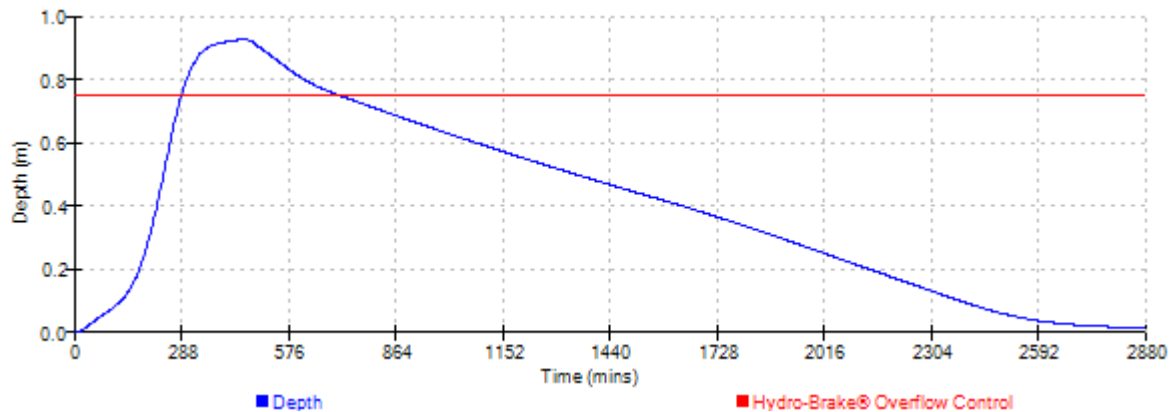
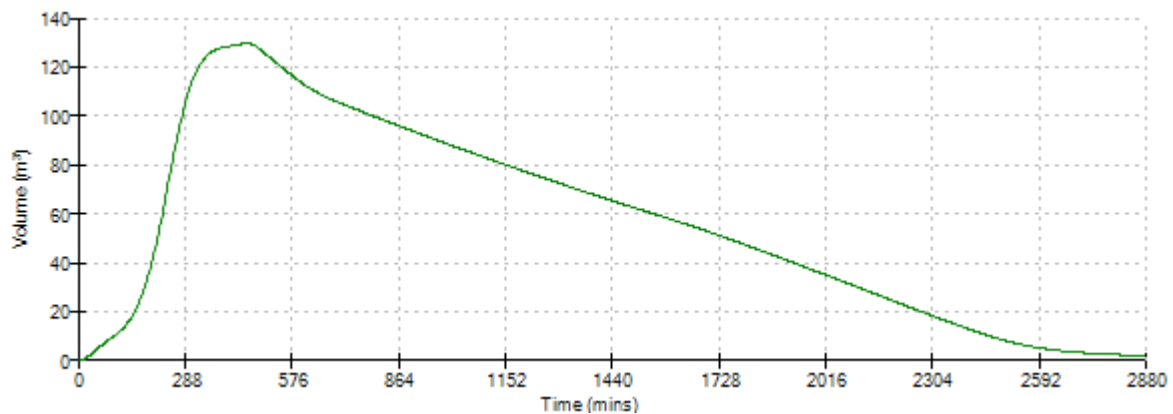
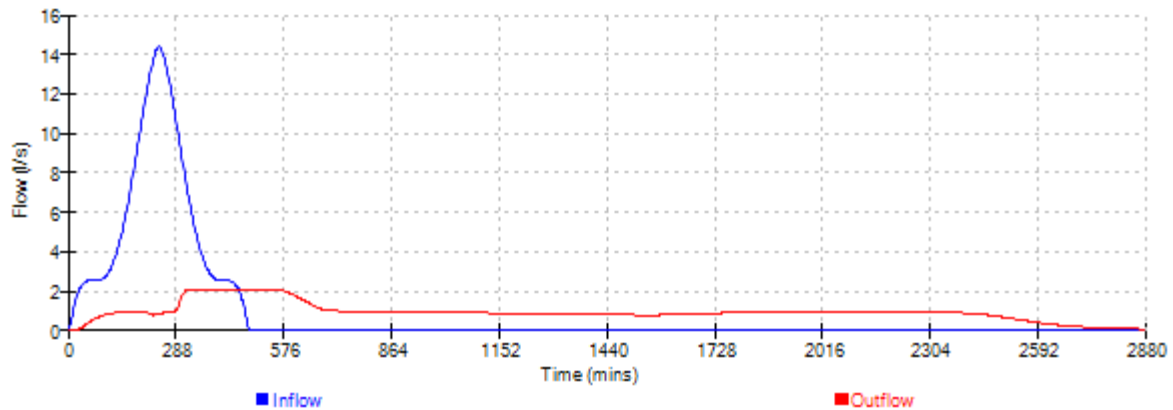
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Winter



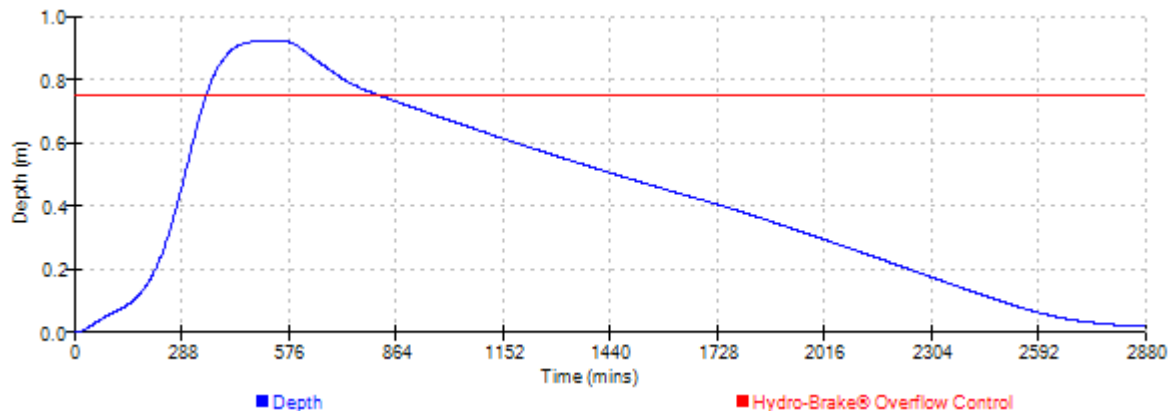
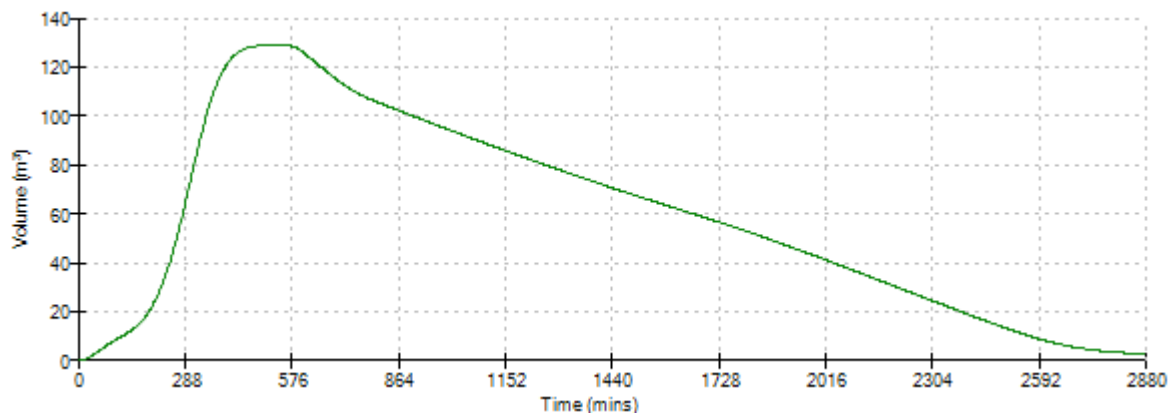
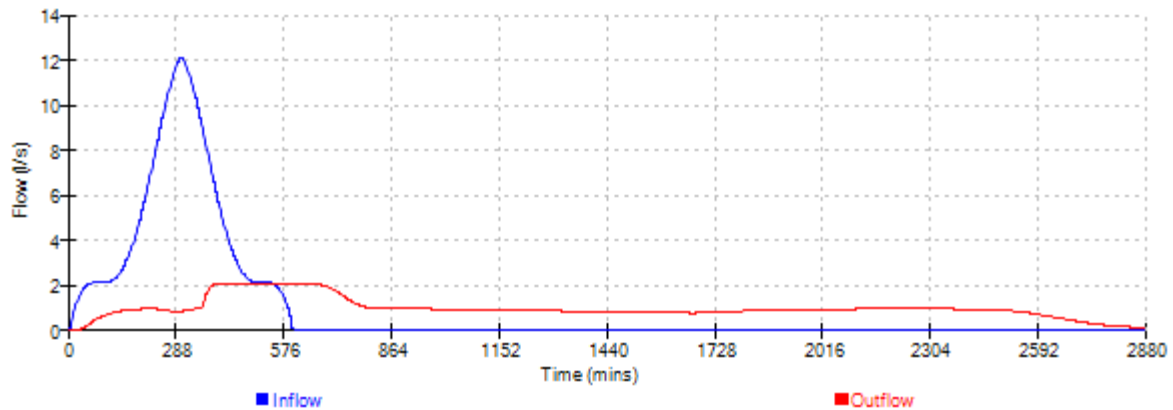
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



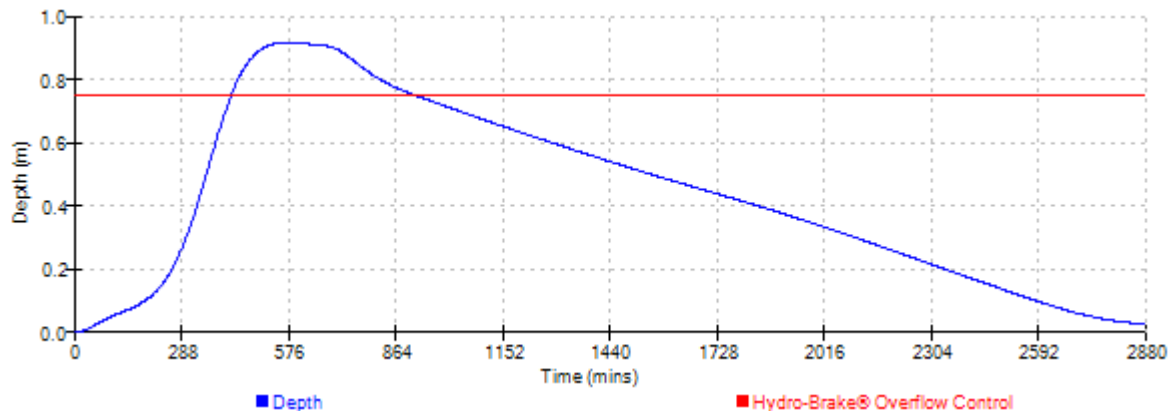
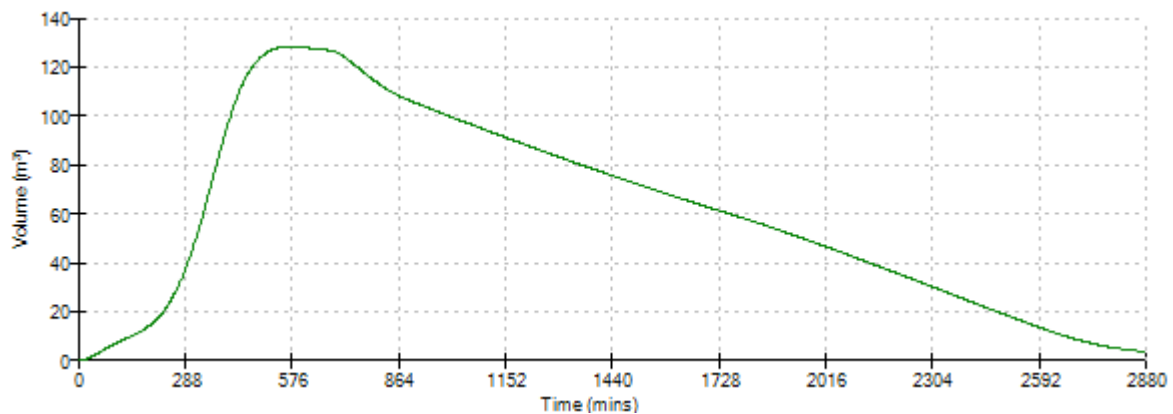
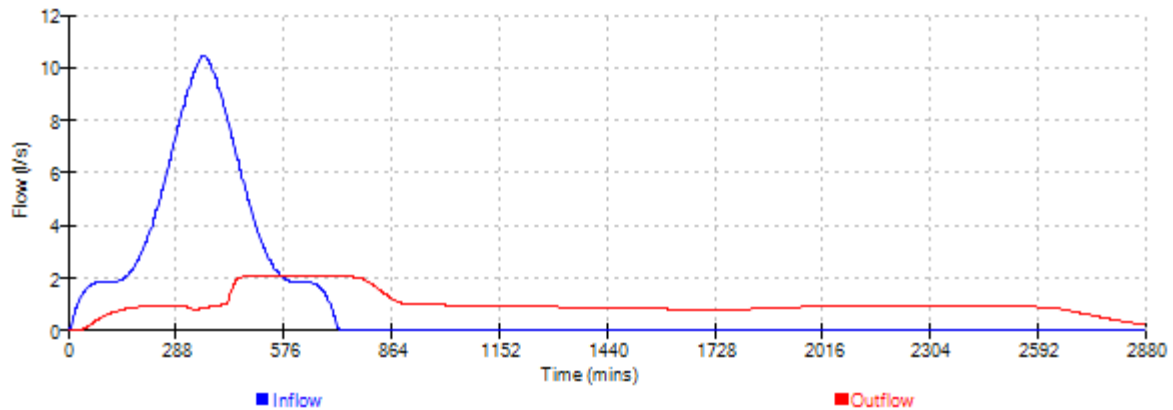
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



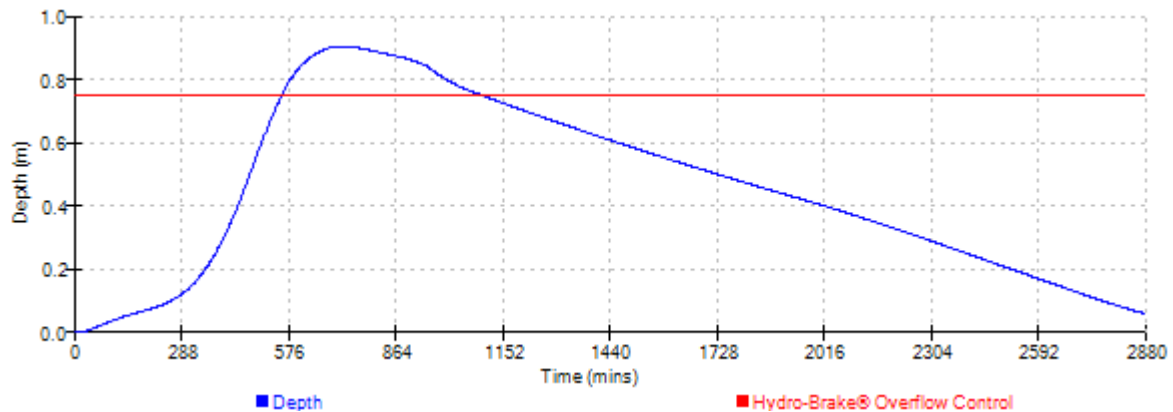
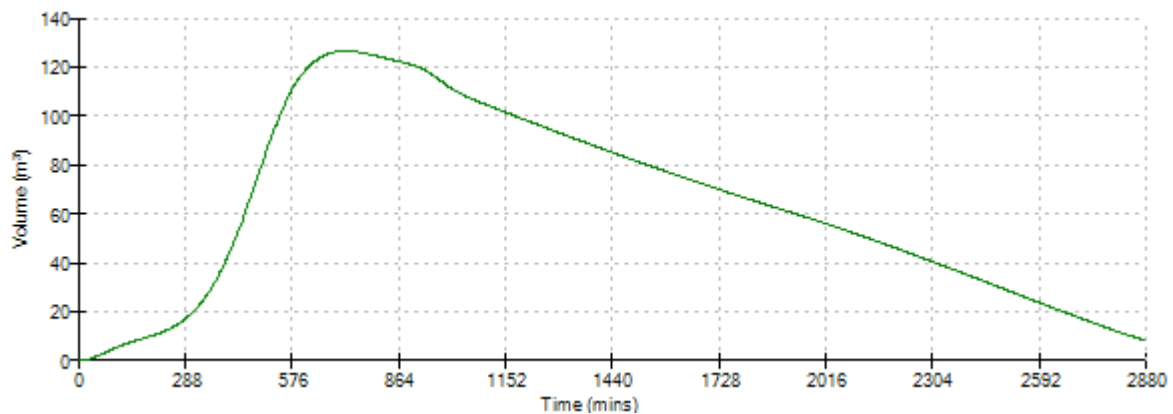
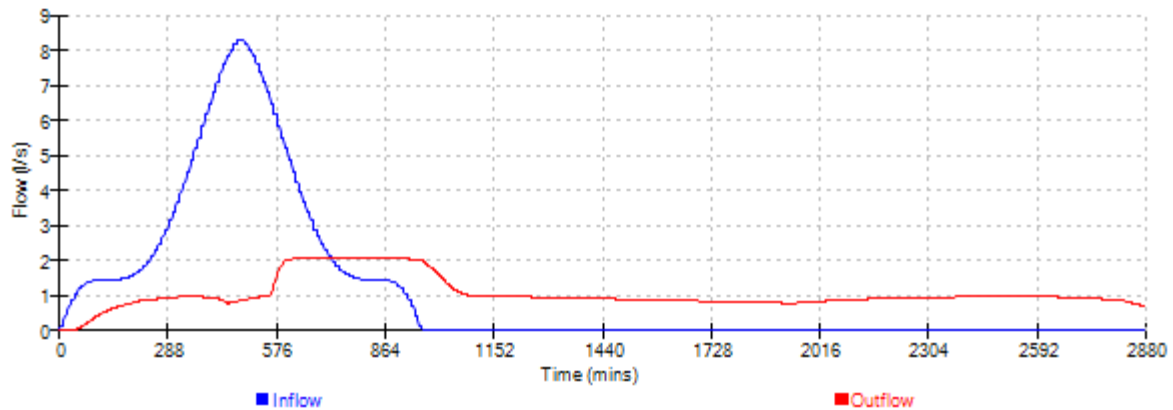
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Winter



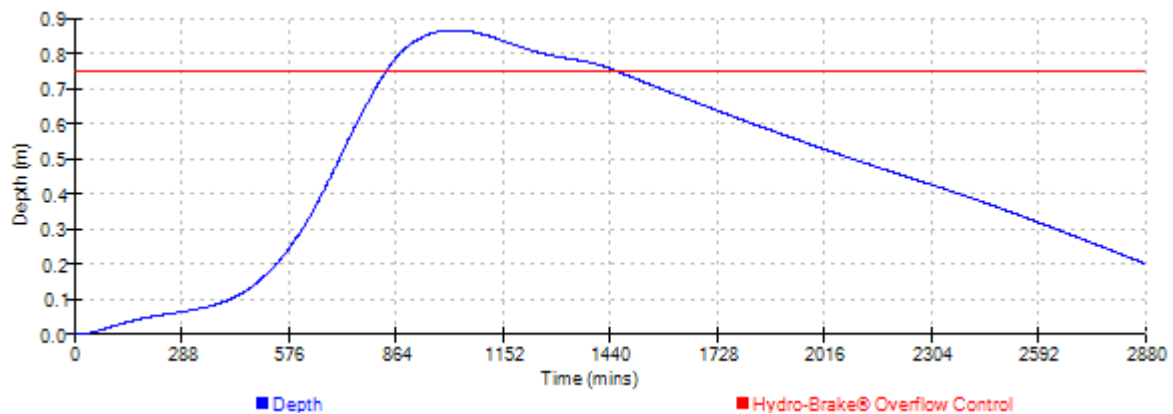
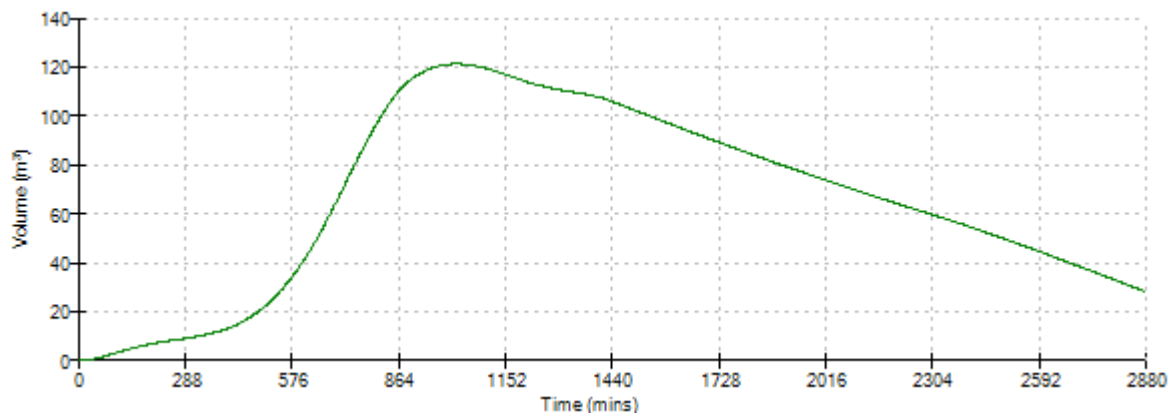
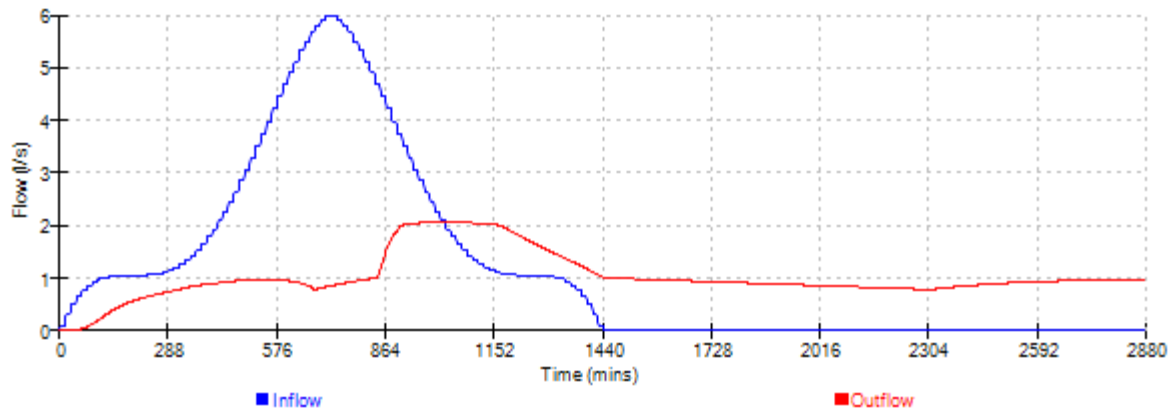
Easy Flood Risk		Page 35
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Winter



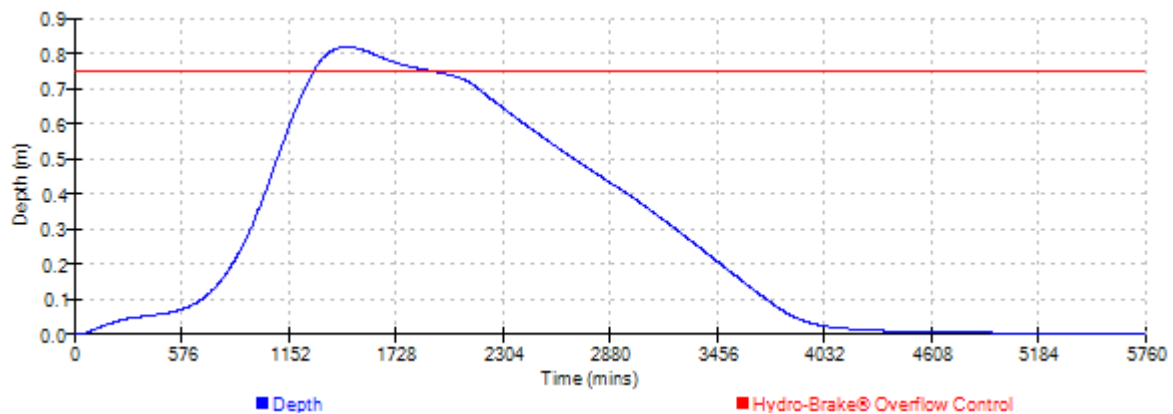
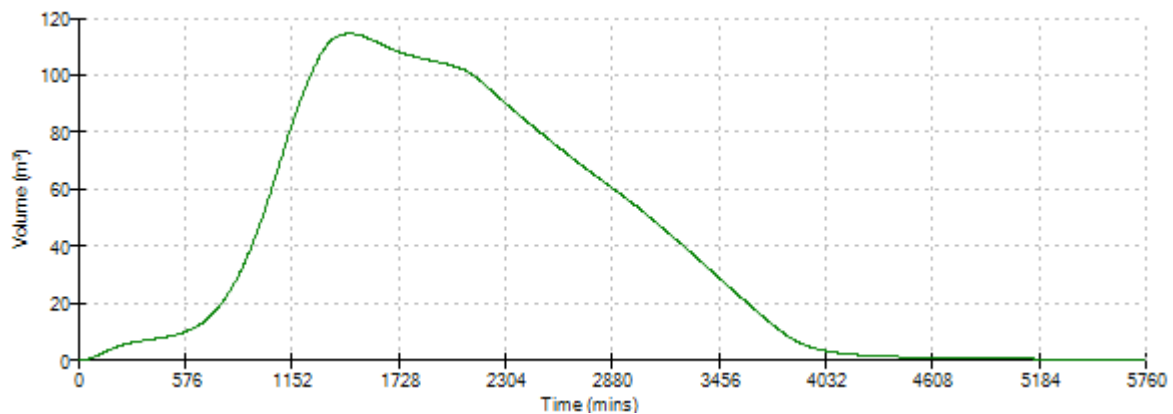
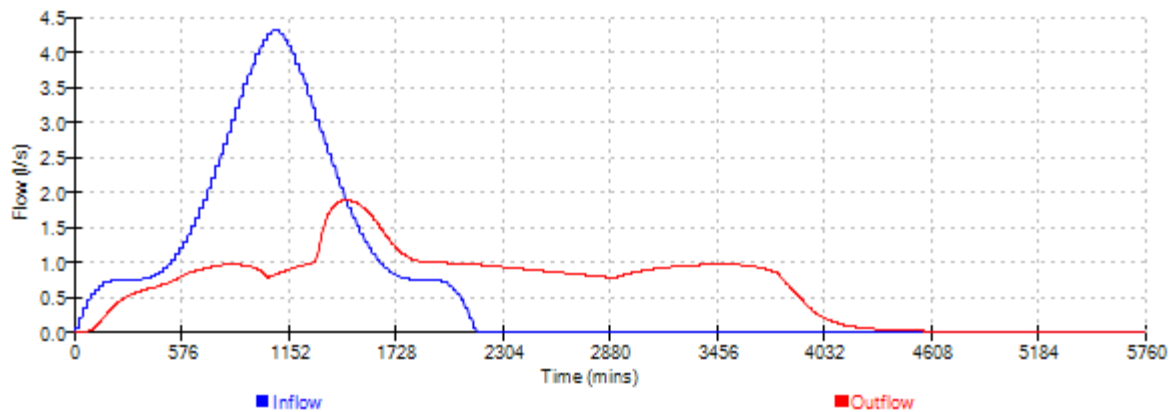
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Winter



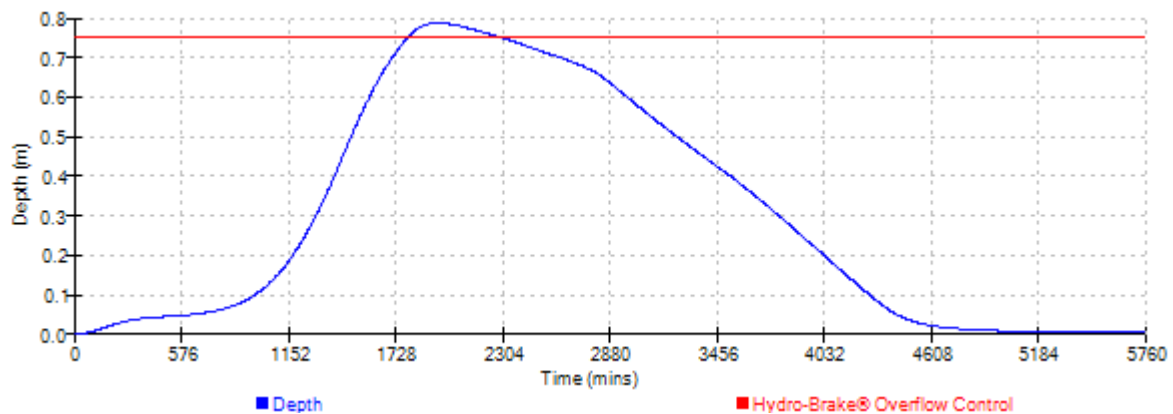
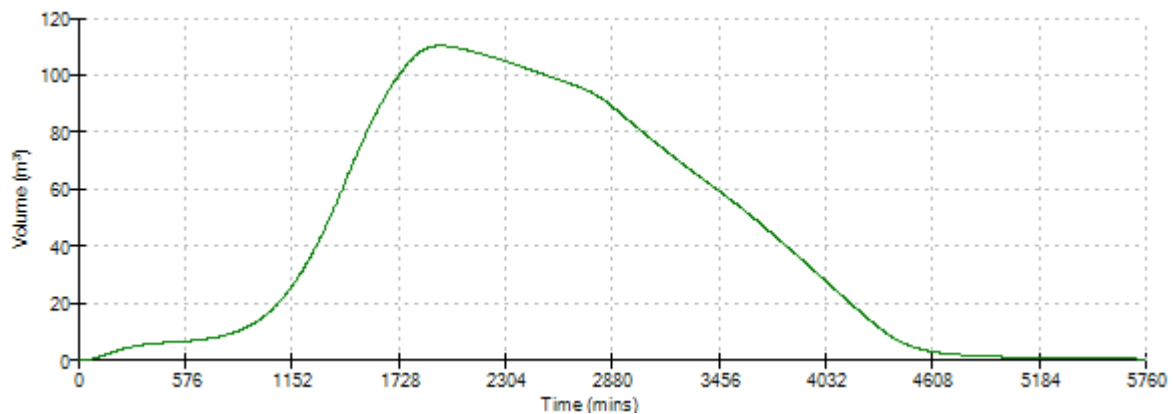
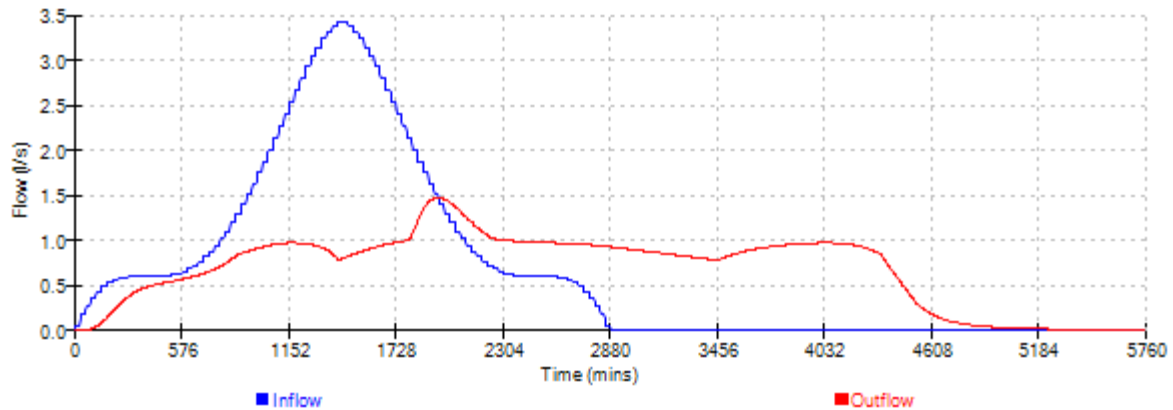
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



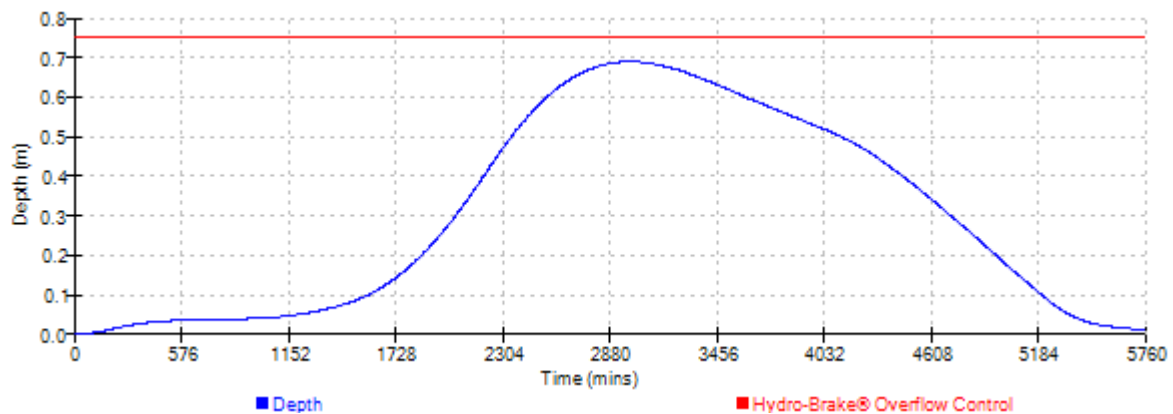
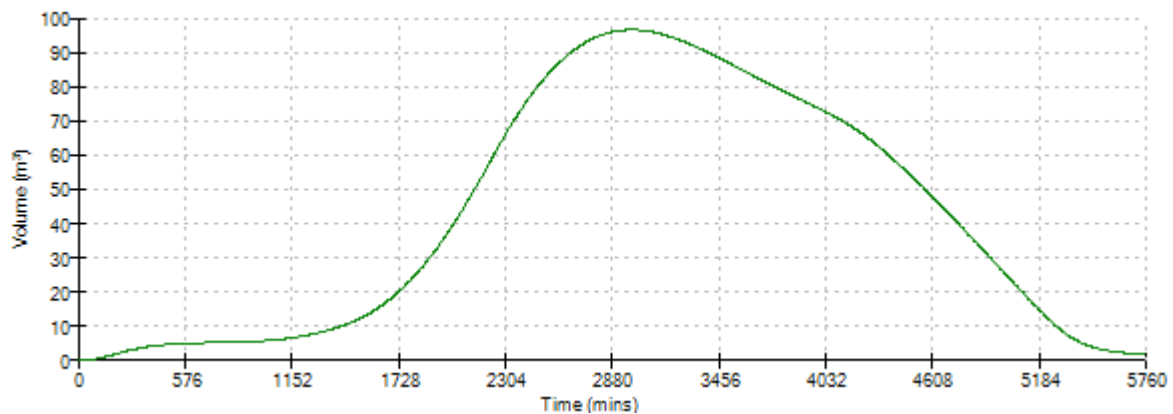
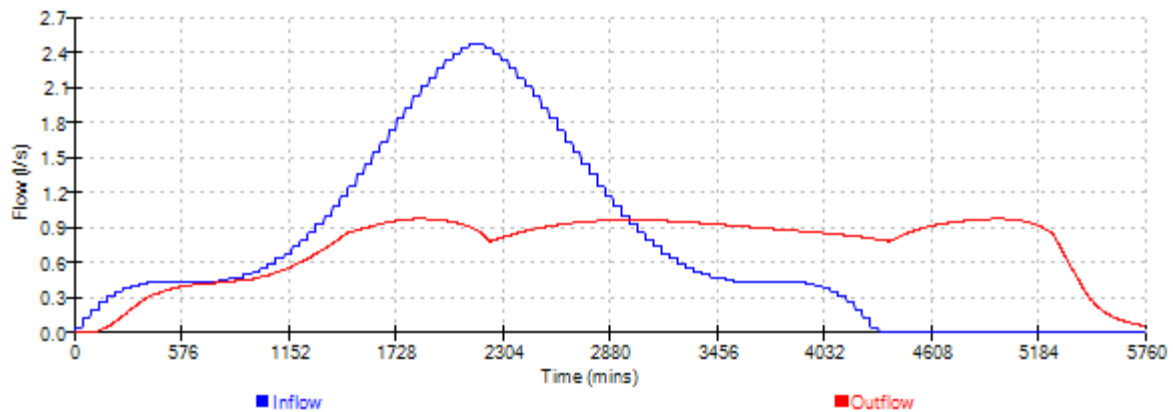
Easy Flood Risk		Page 38
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Winter



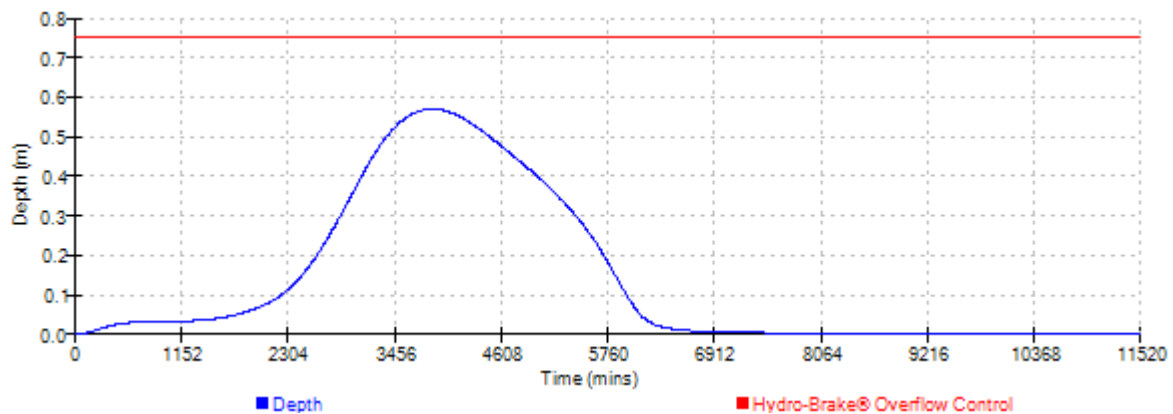
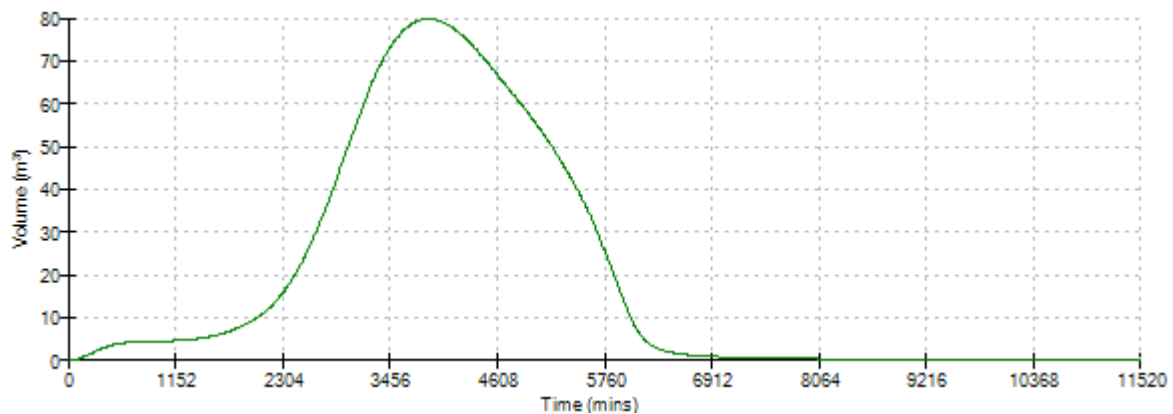
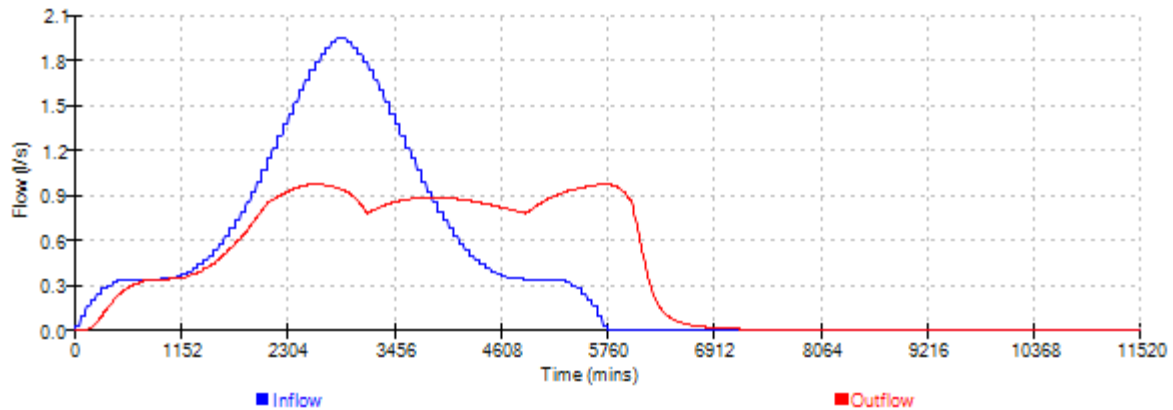
Easy Flood Risk		Page 39
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Winter



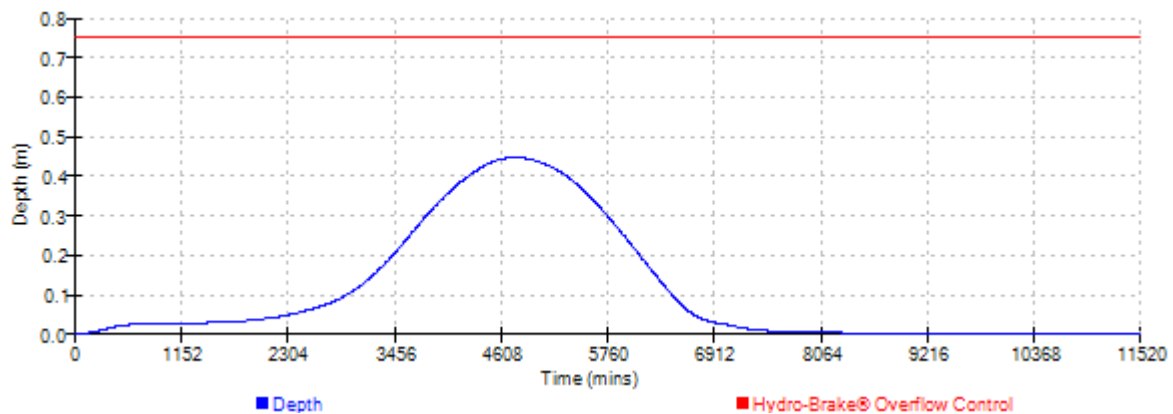
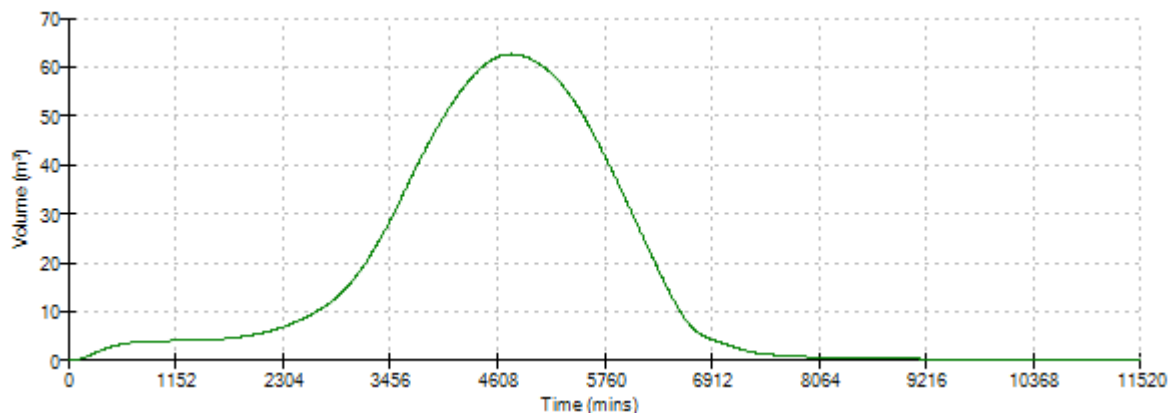
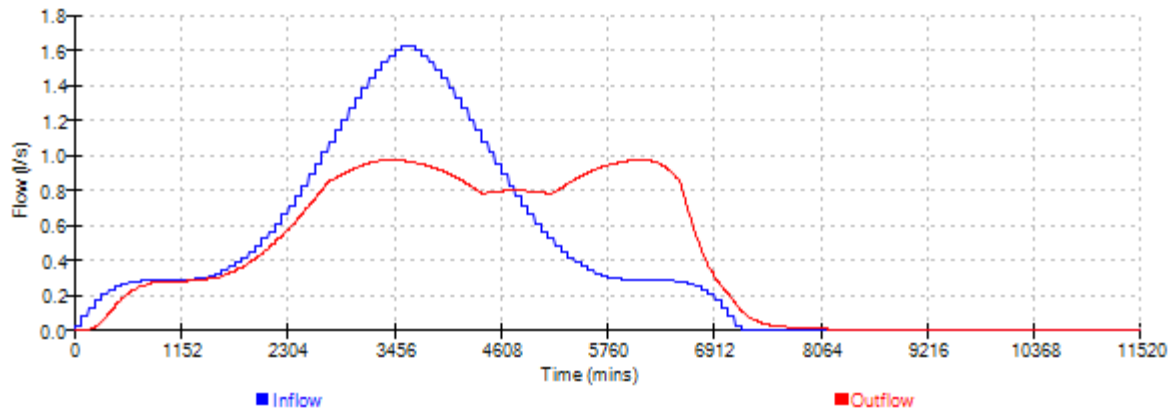
Easy Flood Risk		Page 40
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Winter



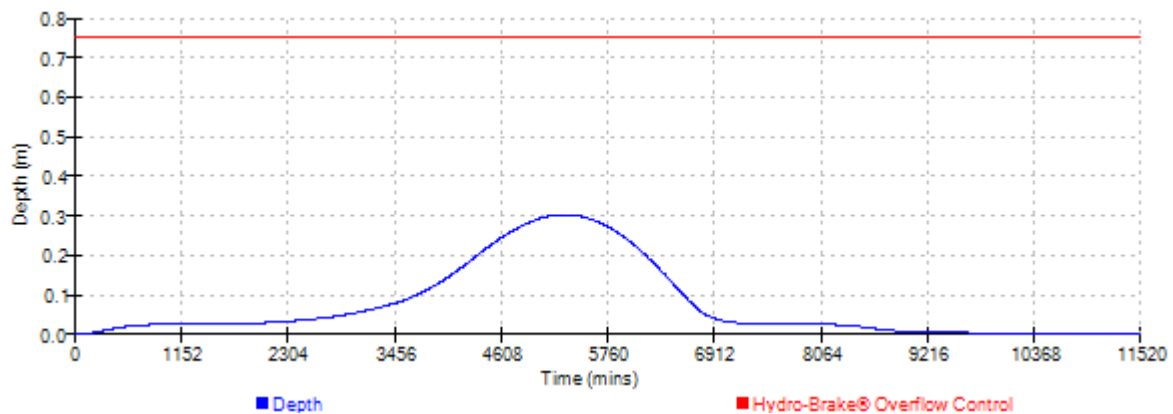
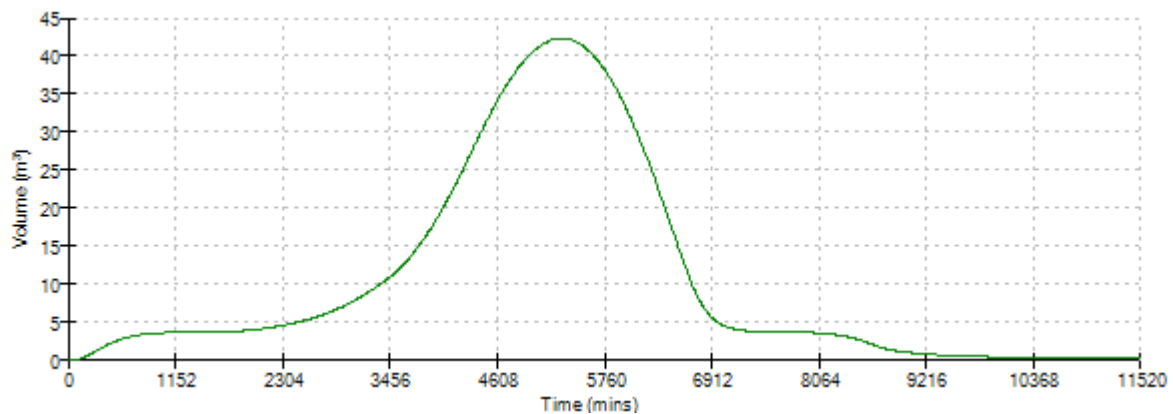
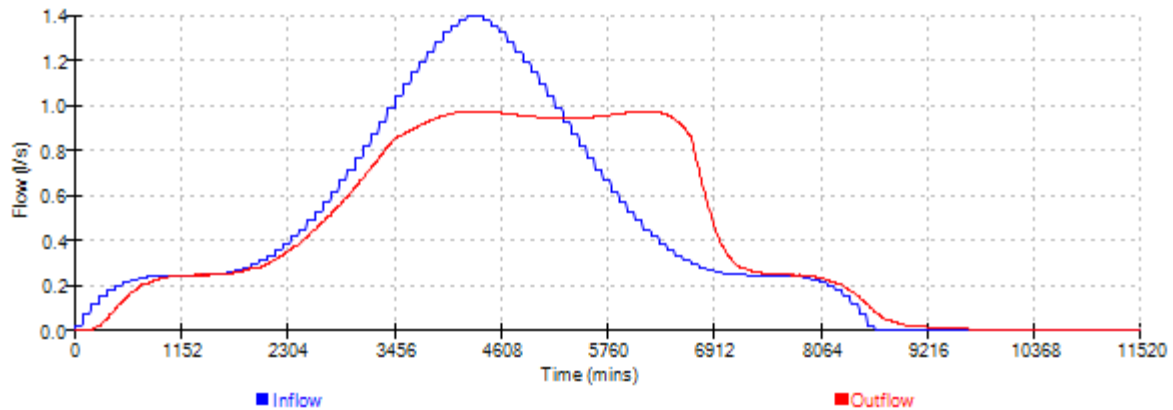
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Winter



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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 8640 min Winter



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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 06:16 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Winter

