

Easy Flood Risk							Page 1
55 Shepherds Lane Dartford DA1 2NL							
Date 24/01/2023 07:19 File Nutts Lane.SRCX				Designed by sheph Checked by			
Innovyze				Source Control 2020.1			
<u>Summary of Results for 2 year Return Period</u>							
Storm Event	Max Level	Max Depth	Max Control	Max Overflow	Max Σ Outflow	Max Volume	Status
	(m)	(m)	(l/s)	(l/s)	(l/s)	(m³)	
15 min Summer	88.859	0.109	0.9	0.0	0.9	15.2	O K
30 min Summer	88.888	0.138	1.0	0.0	1.0	19.4	O K
60 min Summer	88.916	0.166	1.0	0.0	1.0	23.3	O K
120 min Summer	88.940	0.190	1.0	0.0	1.0	26.6	O K
180 min Summer	88.950	0.200	1.0	0.0	1.0	28.0	O K
240 min Summer	88.954	0.204	1.0	0.0	1.0	28.5	O K
360 min Summer	88.956	0.206	1.0	0.0	1.0	28.9	O K
480 min Summer	88.956	0.206	1.0	0.0	1.0	28.8	O K
600 min Summer	88.953	0.203	1.0	0.0	1.0	28.4	O K
720 min Summer	88.950	0.200	1.0	0.0	1.0	27.9	O K
960 min Summer	88.941	0.191	1.0	0.0	1.0	26.7	O K
1440 min Summer	88.921	0.171	1.0	0.0	1.0	24.0	O K
2160 min Summer	88.894	0.144	1.0	0.0	1.0	20.1	O K
2880 min Summer	88.871	0.121	0.9	0.0	0.9	16.9	O K
4320 min Summer	88.840	0.090	0.9	0.0	0.9	12.6	O K
5760 min Summer	88.823	0.073	0.8	0.0	0.8	10.2	O K
7200 min Summer	88.813	0.063	0.7	0.0	0.7	8.8	O K
8640 min Summer	88.806	0.056	0.6	0.0	0.6	7.8	O K
10080 min Summer	88.801	0.051	0.6	0.0	0.6	7.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume	Discharge Volume	Overflow Volume	Time-Peak (mins)		
		(m³)	(m³)	(m³)			
15 min Summer	40.058	0.0	15.2	0.0	18		
30 min Summer	25.963	0.0	19.8	0.0	33		
60 min Summer	16.200	0.0	25.2	0.0	62		
120 min Summer	9.897	0.0	30.9	0.0	122		
180 min Summer	7.378	0.0	34.5	0.0	180		
240 min Summer	5.982	0.0	37.4	0.0	218		
360 min Summer	4.435	0.0	41.6	0.0	278		
480 min Summer	3.581	0.0	44.7	0.0	344		
600 min Summer	3.033	0.0	47.4	0.0	412		
720 min Summer	2.647	0.0	49.6	0.0	480		
960 min Summer	2.136	0.0	53.4	0.0	616		
1440 min Summer	1.579	0.0	59.2	0.0	882		
2160 min Summer	1.167	0.0	66.0	0.0	1272		
2880 min Summer	0.941	0.0	70.9	0.0	1640		
4320 min Summer	0.695	0.0	78.4	0.0	2332		
5760 min Summer	0.561	0.0	84.7	0.0	3008		
7200 min Summer	0.475	0.0	89.6	0.0	3744		
8640 min Summer	0.414	0.0	93.8	0.0	4416		
10080 min Summer	0.370	0.0	97.4	0.0	5144		
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<u>Summary of Results for 2 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	88.872	0.122	0.9	0.0	0.9	17.1	O K
30 min Winter	88.905	0.155	1.0	0.0	1.0	21.8	O K
60 min Winter	88.938	0.188	1.0	0.0	1.0	26.3	O K
120 min Winter	88.966	0.216	1.0	0.0	1.0	30.3	O K
180 min Winter	88.979	0.229	1.0	0.0	1.0	32.0	O K
240 min Winter	88.984	0.234	1.0	0.0	1.0	32.8	O K
360 min Winter	88.985	0.235	1.0	0.0	1.0	32.9	O K
480 min Winter	88.983	0.233	1.0	0.0	1.0	32.6	O K
600 min Winter	88.978	0.228	1.0	0.0	1.0	32.0	O K
720 min Winter	88.972	0.222	1.0	0.0	1.0	31.1	O K
960 min Winter	88.958	0.208	1.0	0.0	1.0	29.1	O K
1440 min Winter	88.926	0.176	1.0	0.0	1.0	24.7	O K
2160 min Winter	88.885	0.135	1.0	0.0	1.0	18.8	O K
2880 min Winter	88.854	0.104	0.9	0.0	0.9	14.5	O K
4320 min Winter	88.821	0.071	0.8	0.0	0.8	10.0	O K
5760 min Winter	88.807	0.057	0.7	0.0	0.7	8.0	O K
7200 min Winter	88.799	0.049	0.6	0.0	0.6	6.8	O K
8640 min Winter	88.793	0.043	0.5	0.0	0.5	6.0	O K
10080 min Winter	88.790	0.040	0.5	0.0	0.5	5.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)		
15 min Winter	40.058	0.0	17.0	0.0	18		
30 min Winter	25.963	0.0	22.2	0.0	33		
60 min Winter	16.200	0.0	28.3	0.0	62		
120 min Winter	9.897	0.0	34.6	0.0	118		
180 min Winter	7.378	0.0	38.7	0.0	176		
240 min Winter	5.982	0.0	41.9	0.0	230		
360 min Winter	4.435	0.0	46.6	0.0	306		
480 min Winter	3.581	0.0	50.1	0.0	372		
600 min Winter	3.033	0.0	53.1	0.0	448		
720 min Winter	2.647	0.0	55.6	0.0	526		
960 min Winter	2.136	0.0	59.8	0.0	674		
1440 min Winter	1.579	0.0	66.3	0.0	952		
2160 min Winter	1.167	0.0	73.9	0.0	1340		
2880 min Winter	0.941	0.0	79.4	0.0	1696		
4320 min Winter	0.695	0.0	87.9	0.0	2336		
5760 min Winter	0.561	0.0	94.8	0.0	3056		
7200 min Winter	0.475	0.0	100.4	0.0	3752		
8640 min Winter	0.414	0.0	105.1	0.0	4488		
10080 min Winter	0.370	0.0	109.1	0.0	5168		
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	2	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

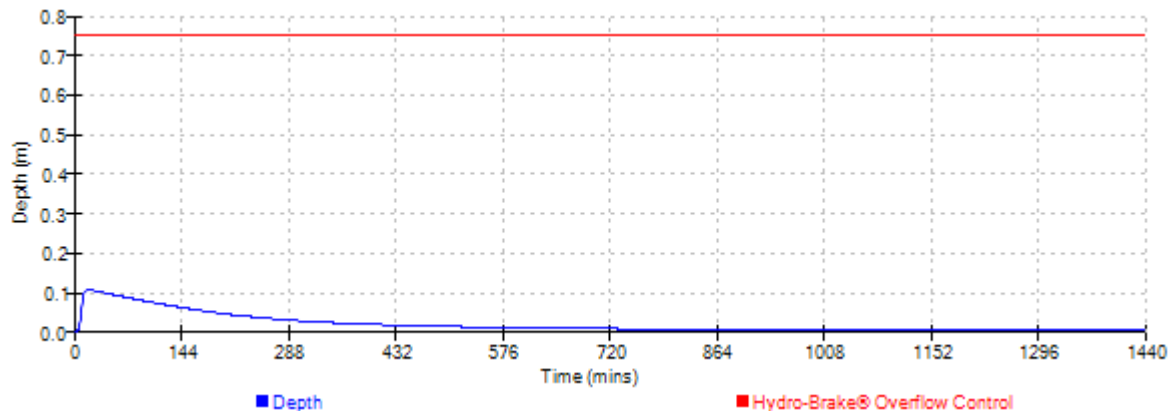
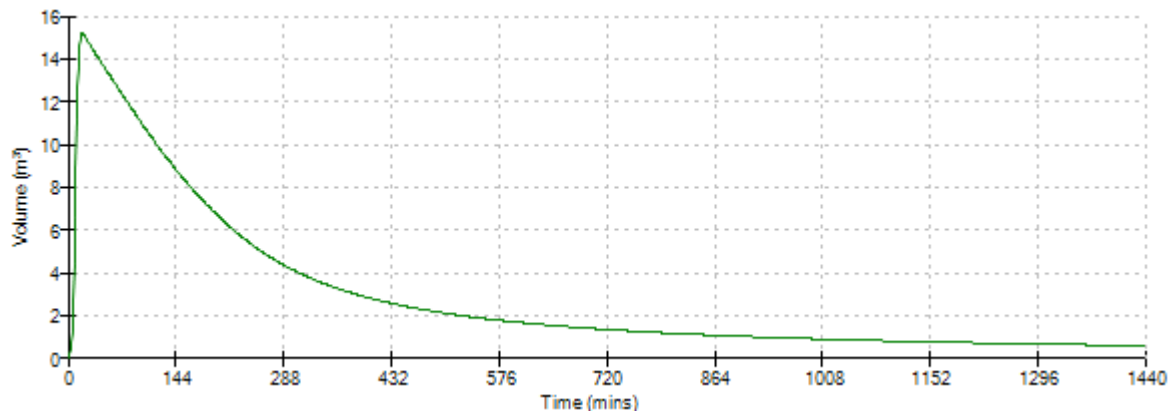
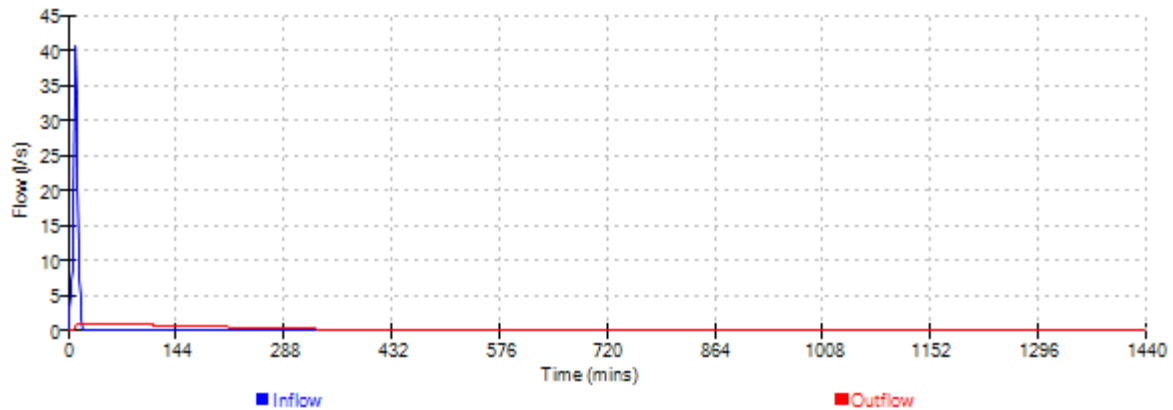
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Model Details Storage is Online Cover Level (m) 90.000 Tank or Pond Structure Invert Level (m) 88.750 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>140.0</td><td>0.750</td><td>140.0</td></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		
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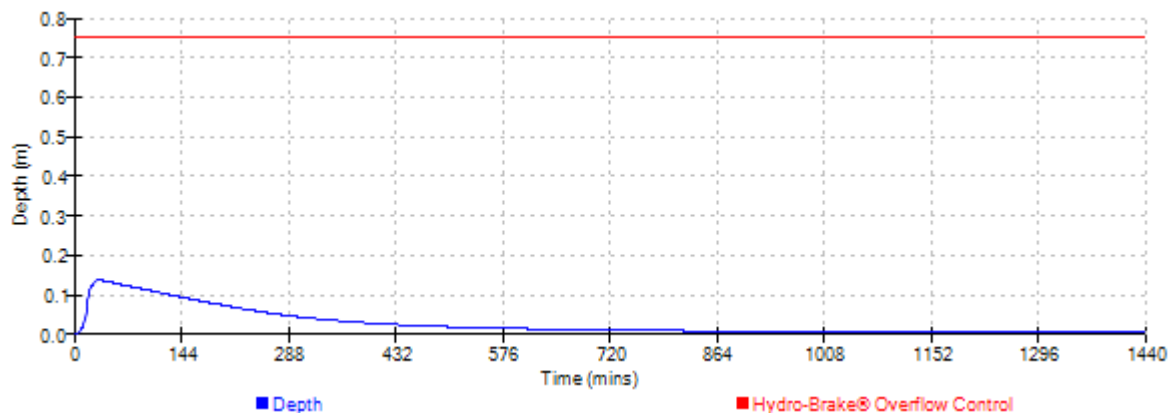
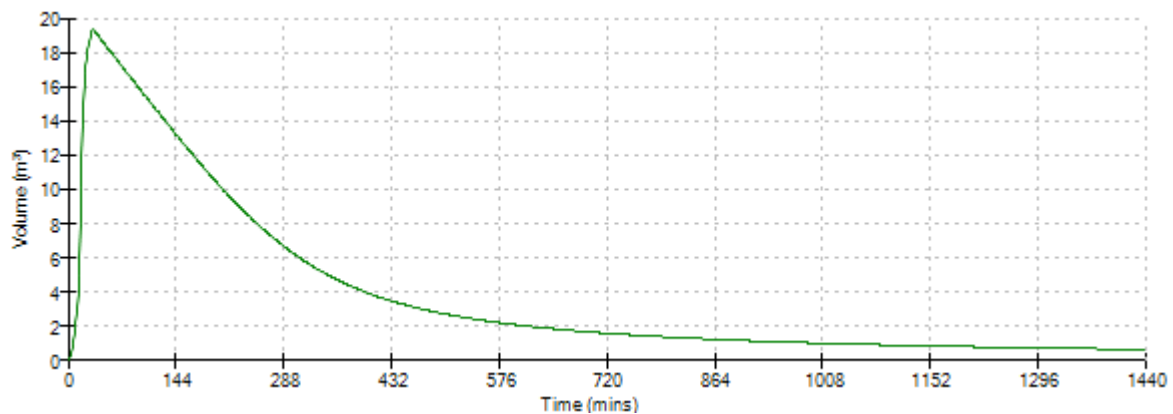
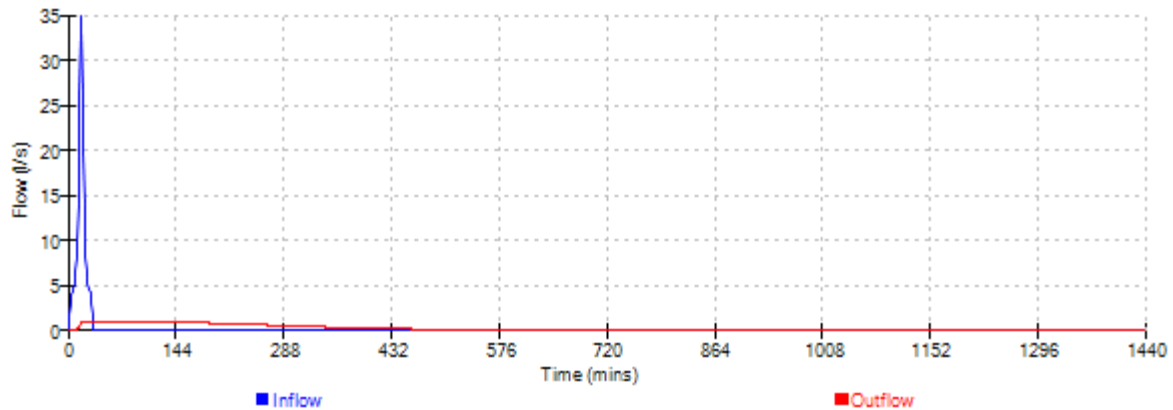
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Event: 15 min Summer



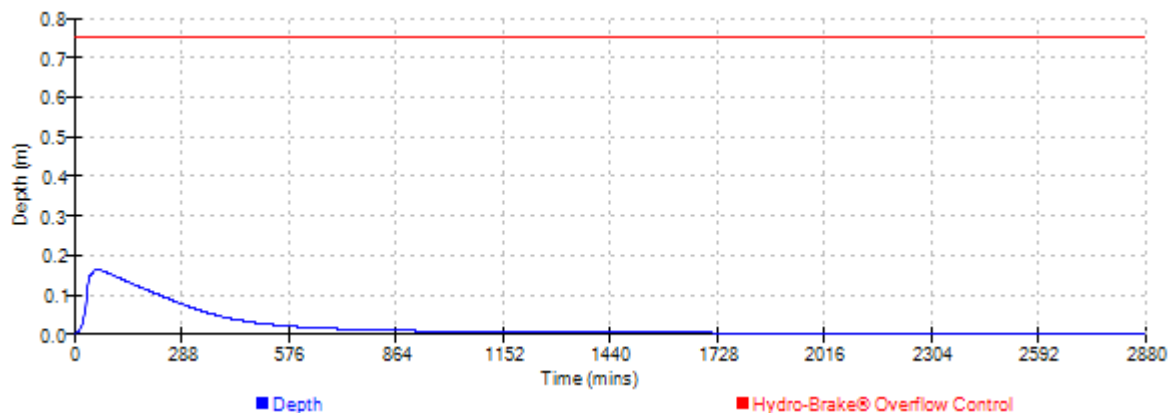
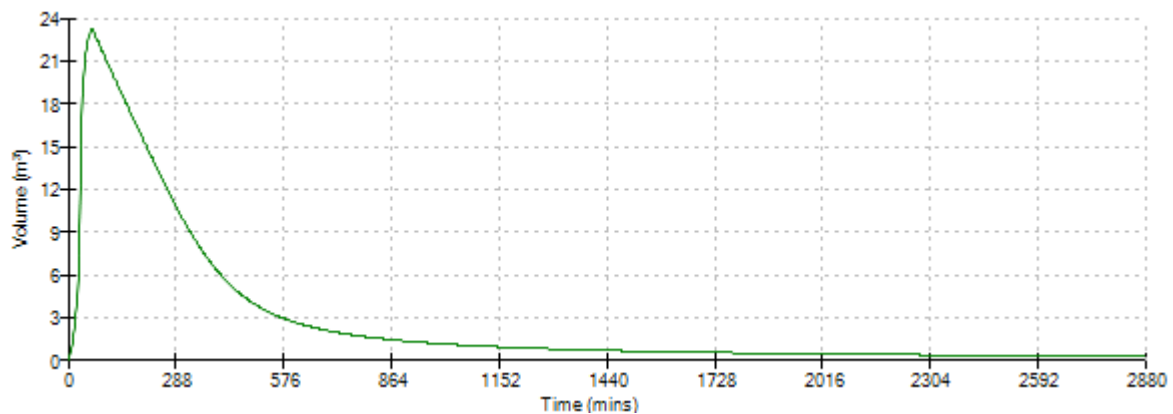
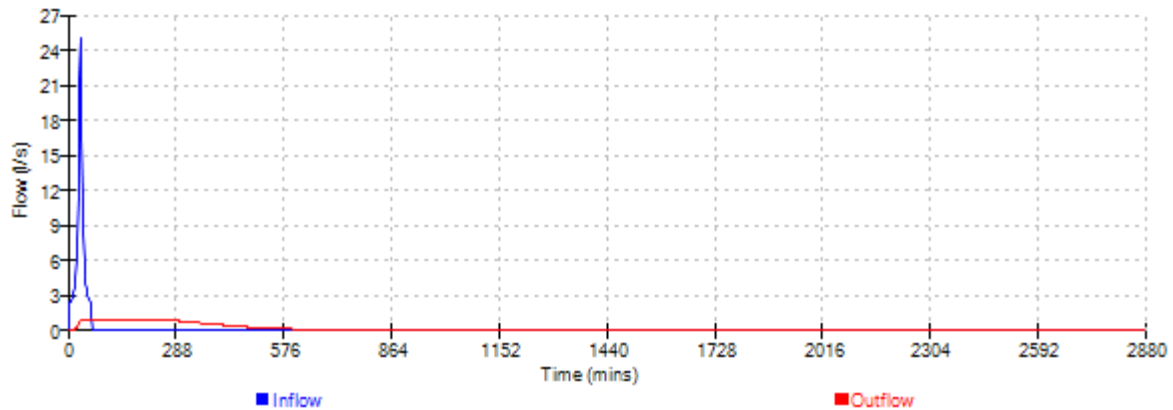
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Event: 30 min Summer



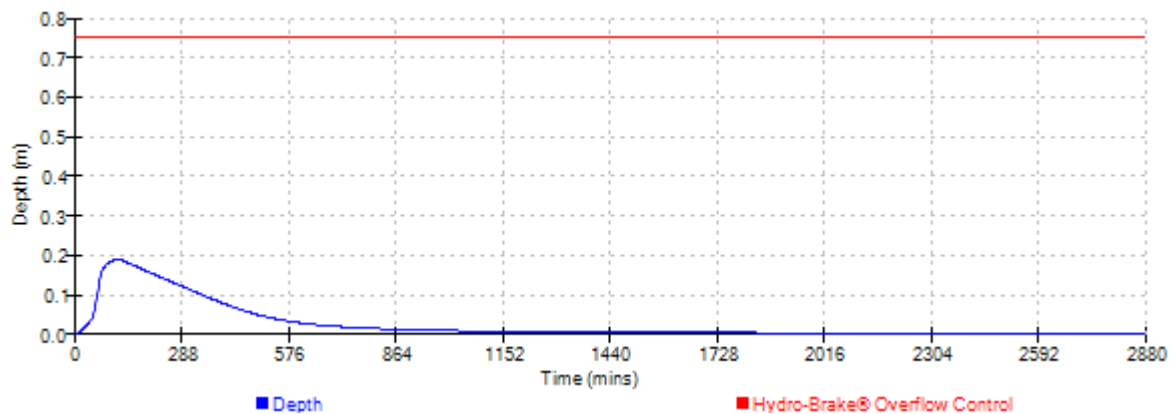
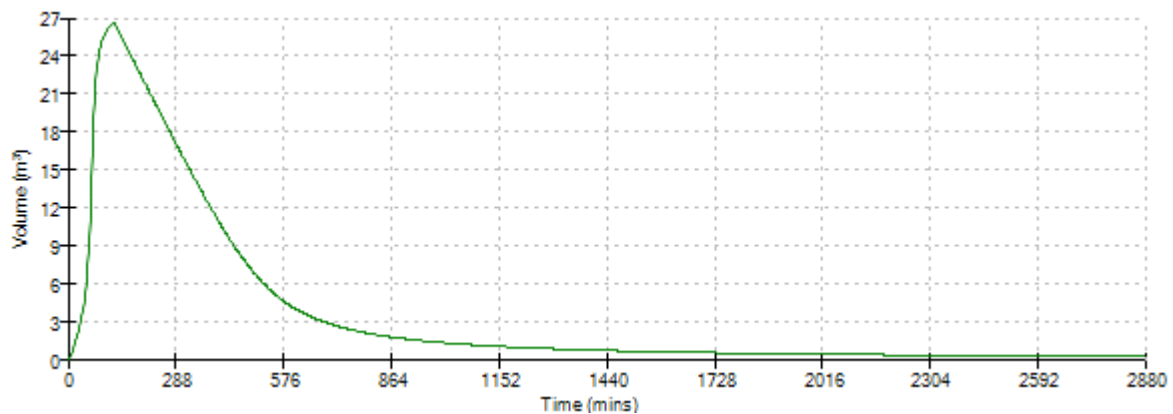
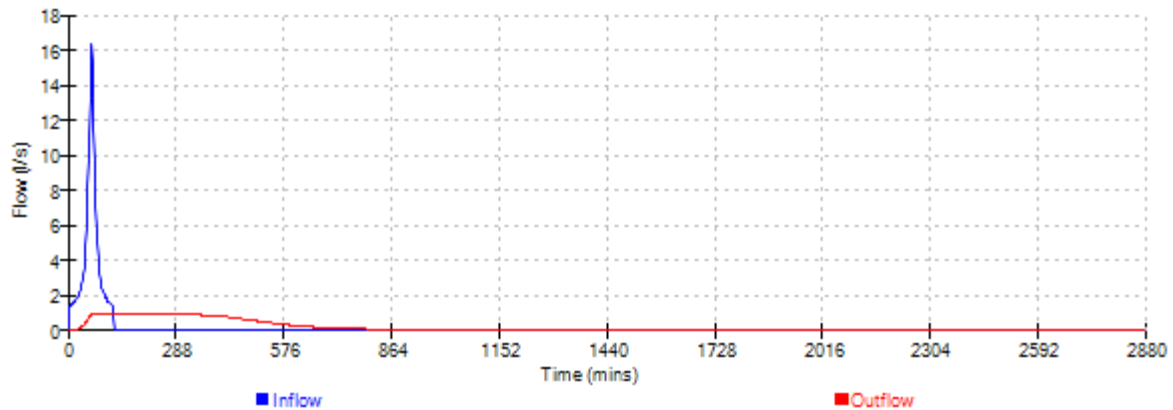
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Summer



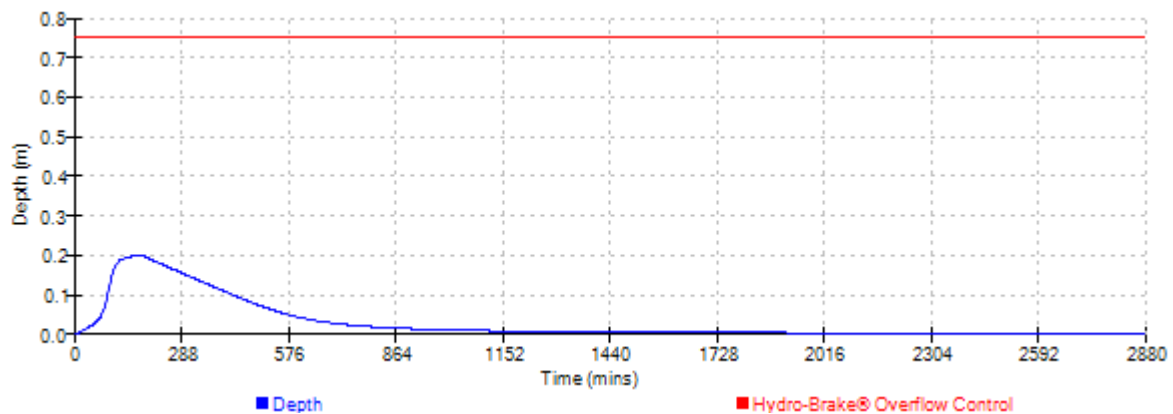
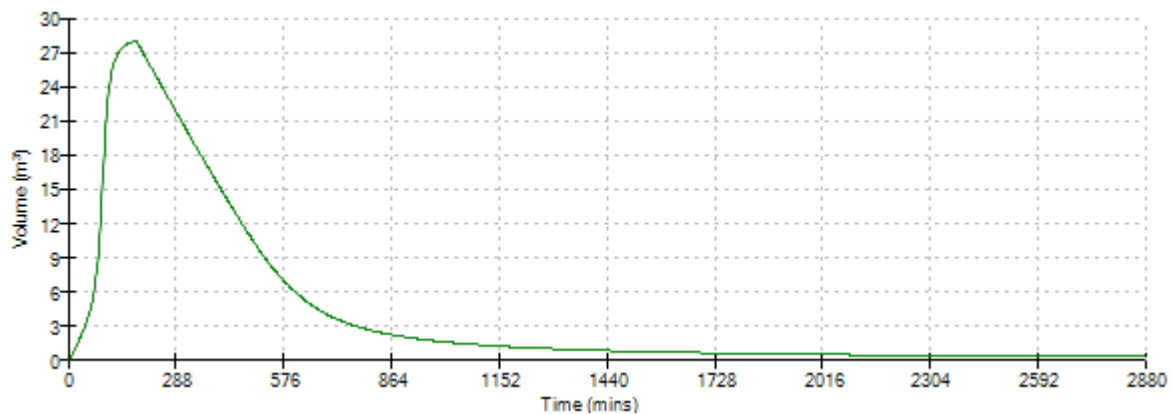
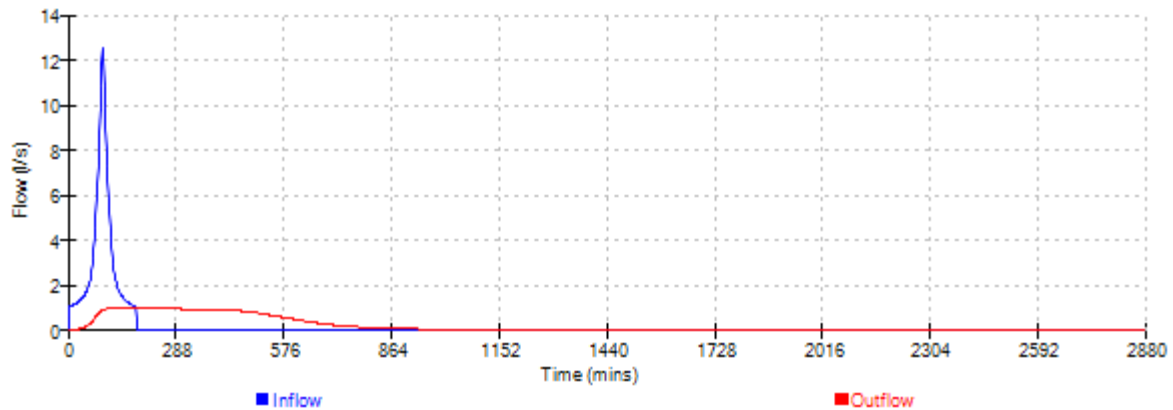
Easy Flood Risk		Page 9
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Summer



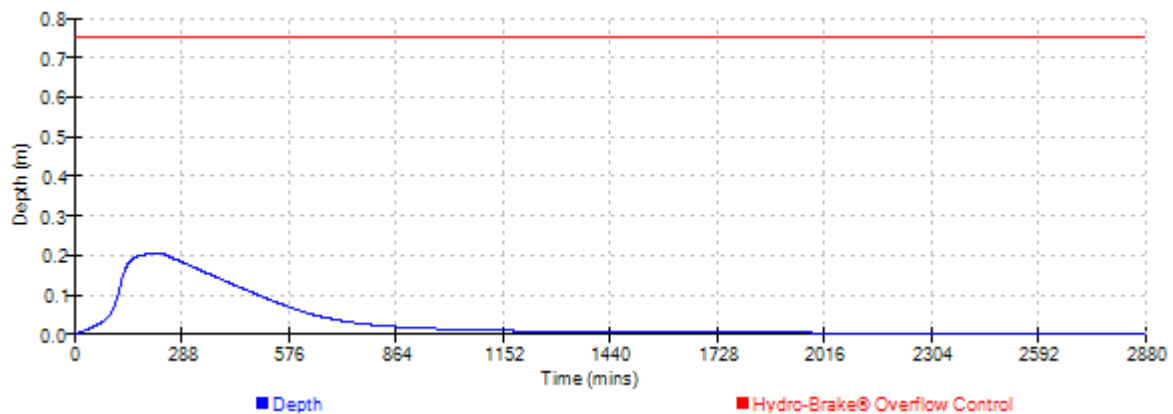
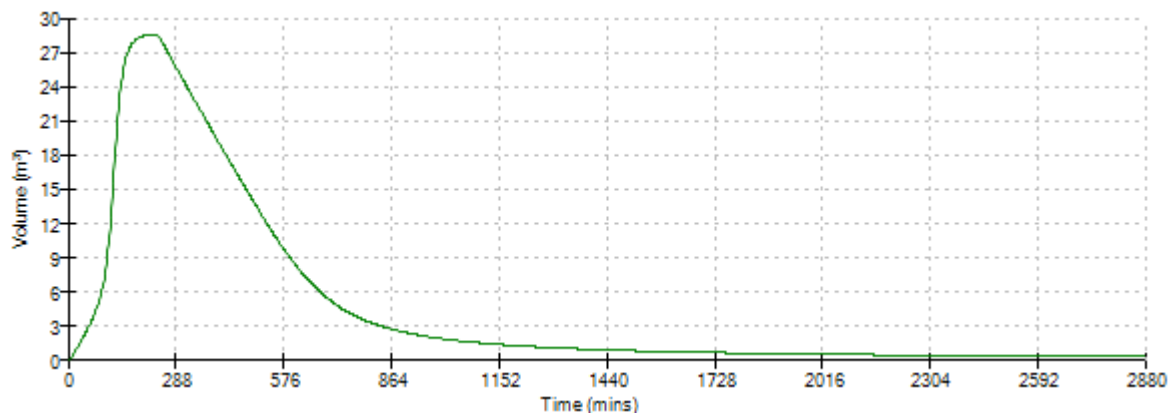
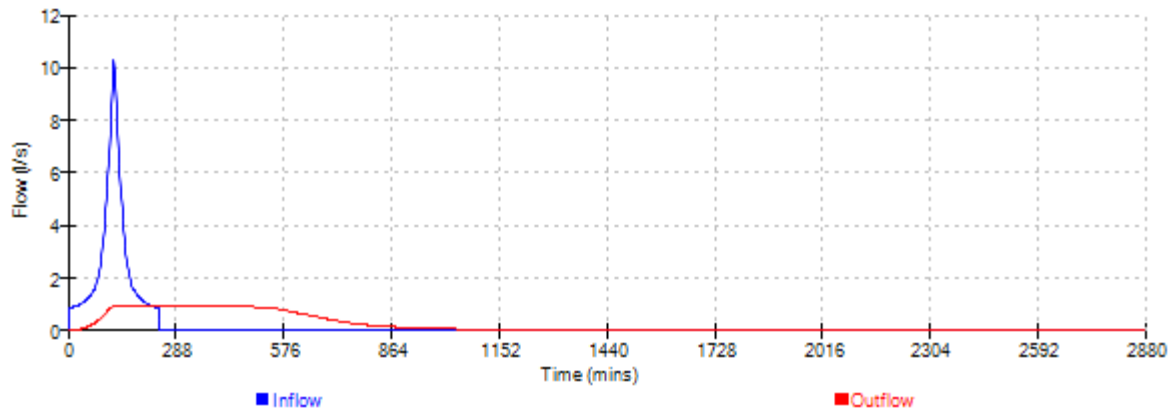
Easy Flood Risk		Page 10
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 180 min Summer



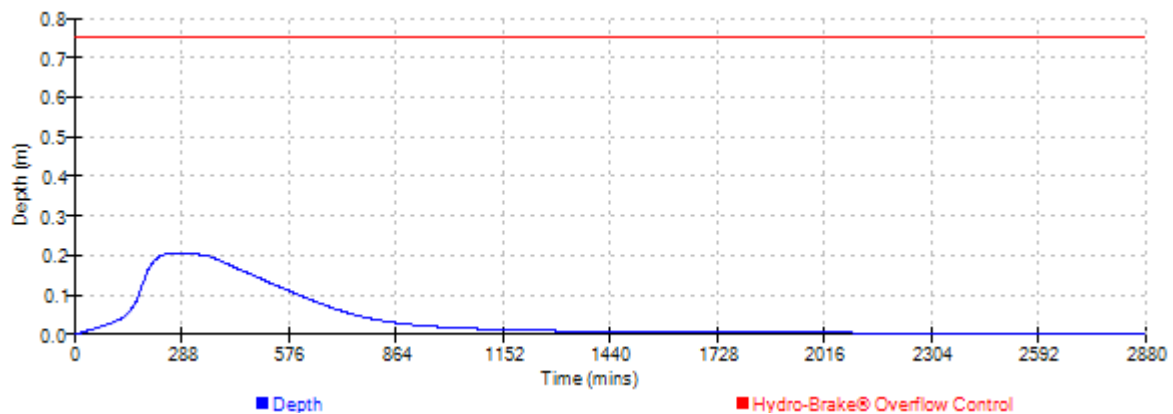
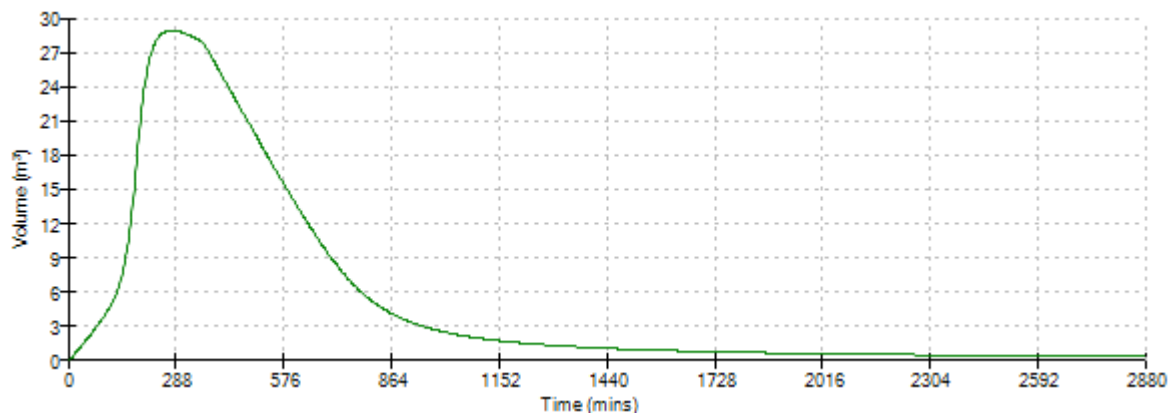
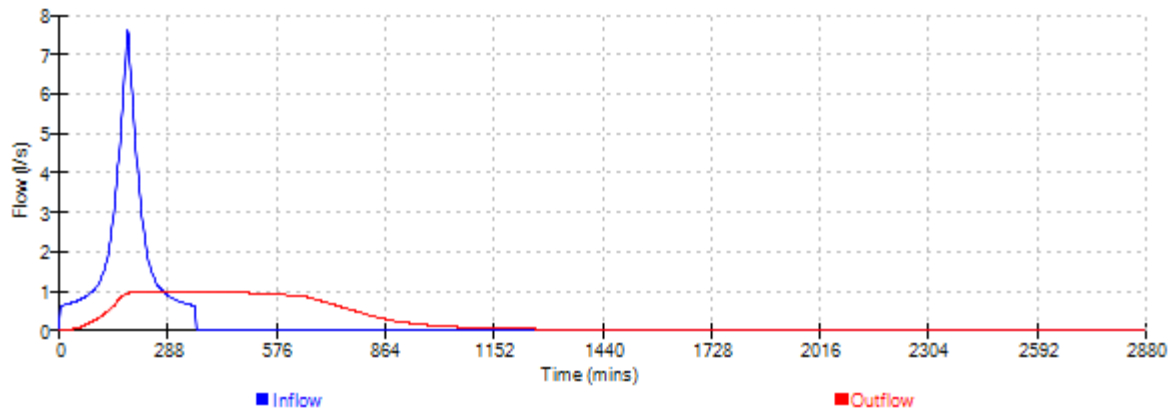
Easy Flood Risk		Page 11
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Summer



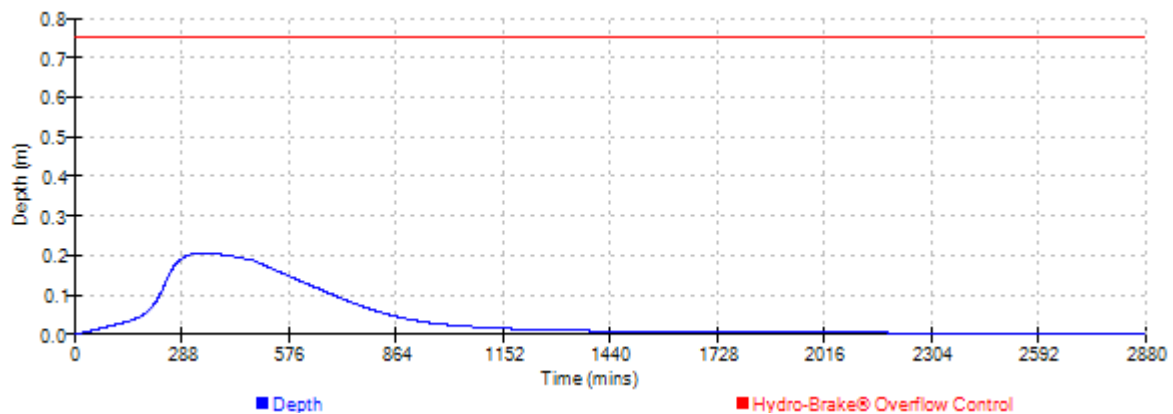
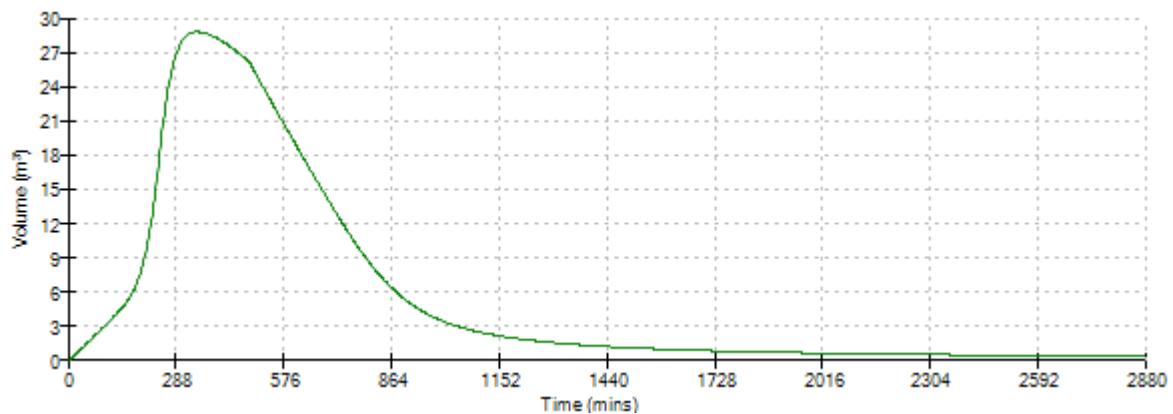
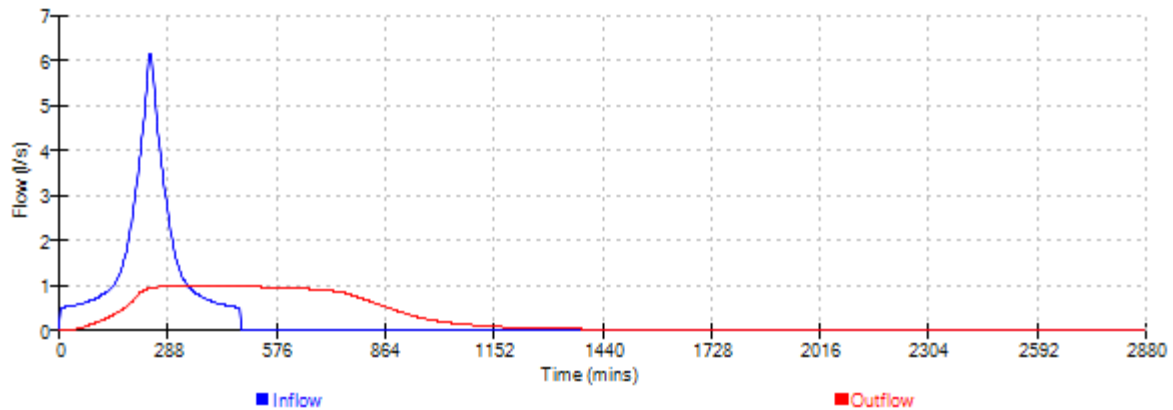
Easy Flood Risk		Page 12
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 360 min Summer



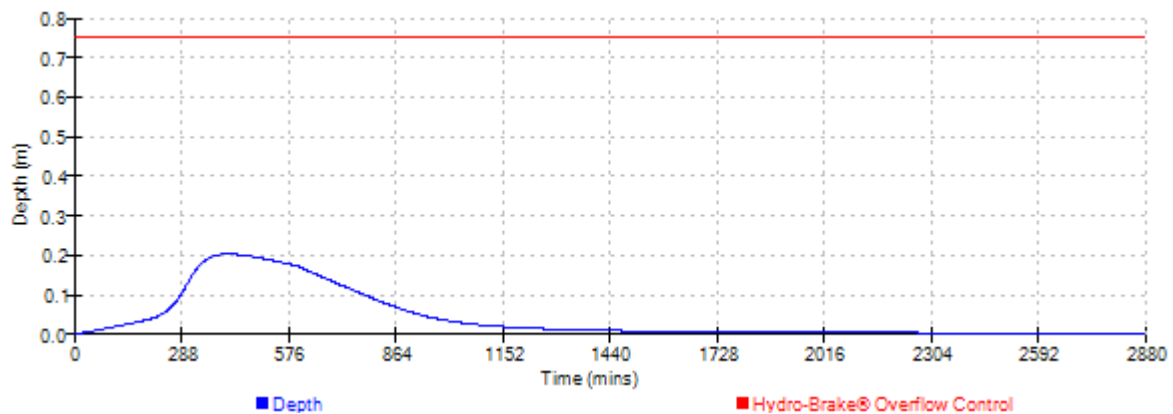
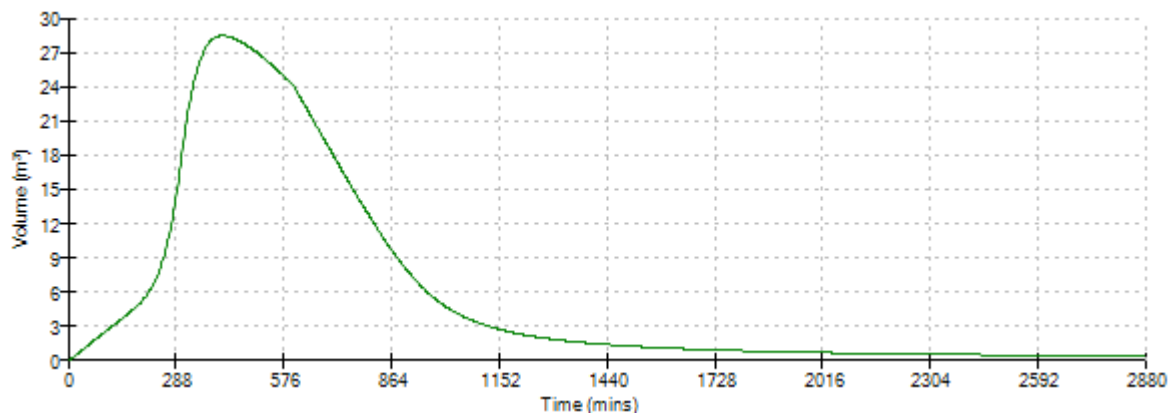
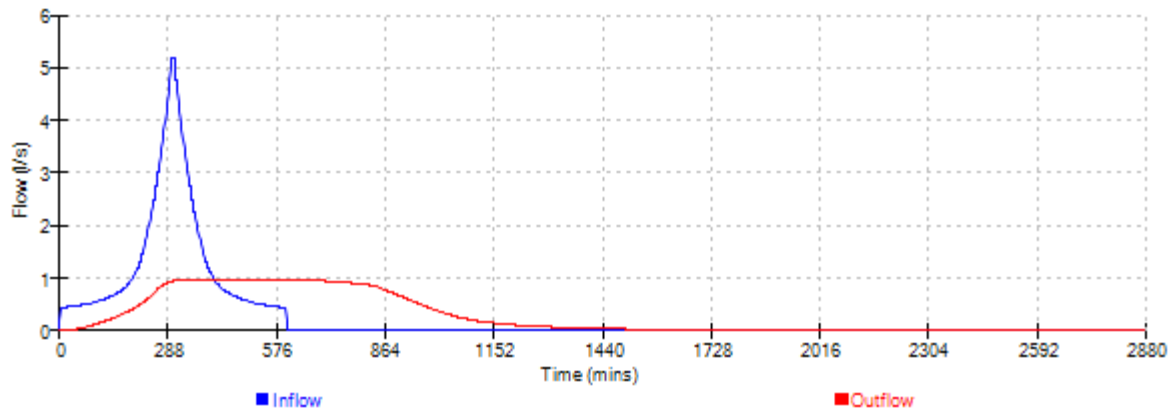
Easy Flood Risk		Page 13
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Summer



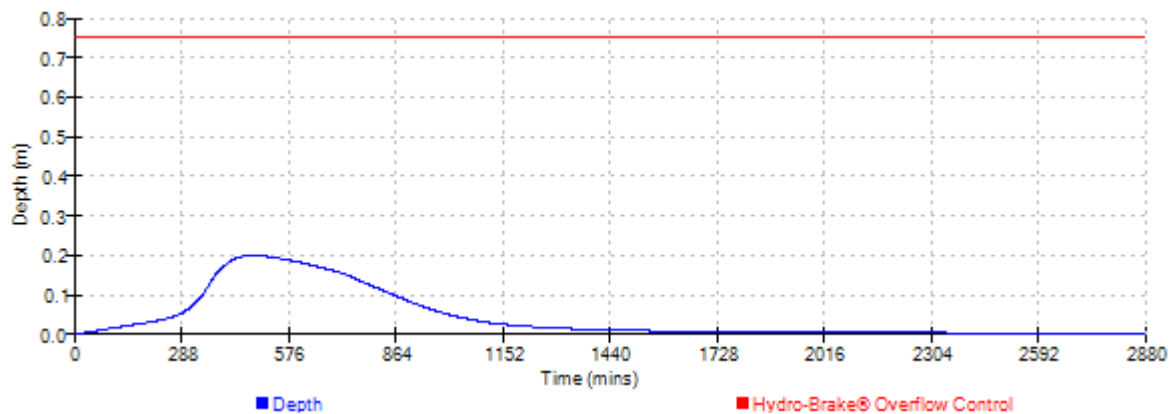
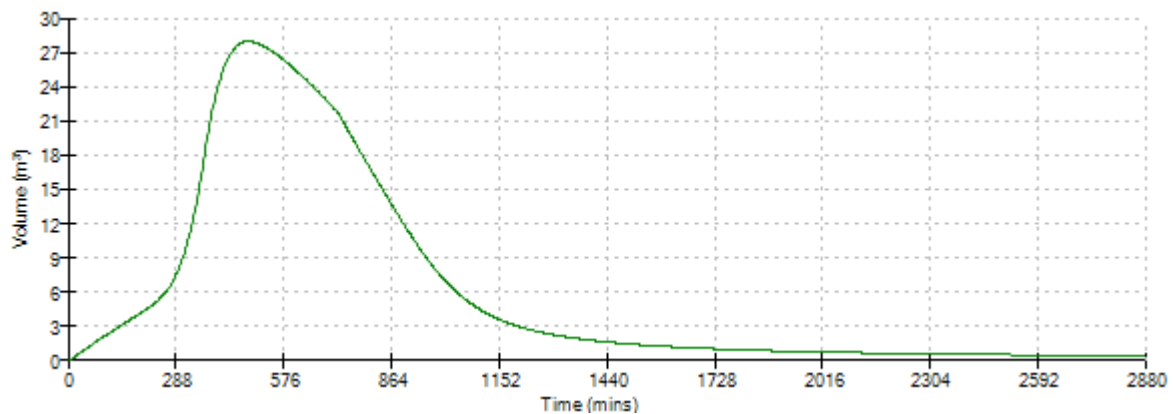
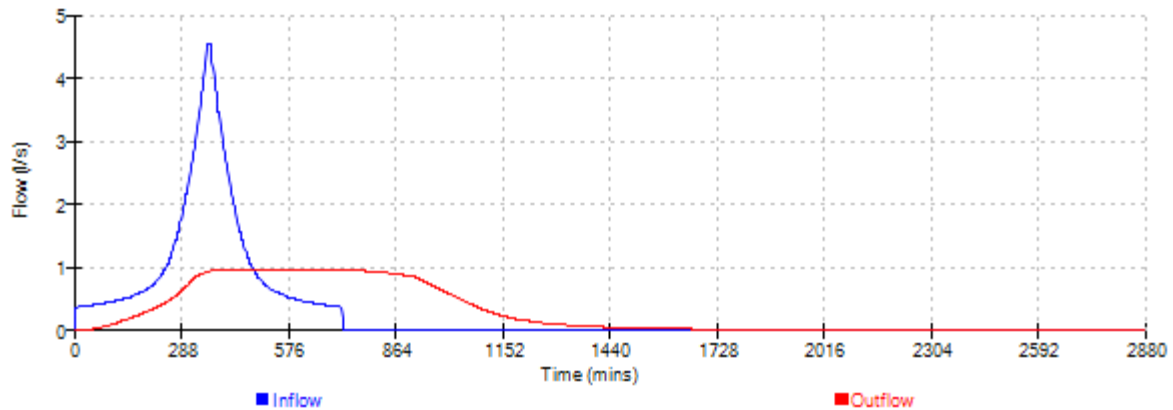
Easy Flood Risk		Page 14
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Summer



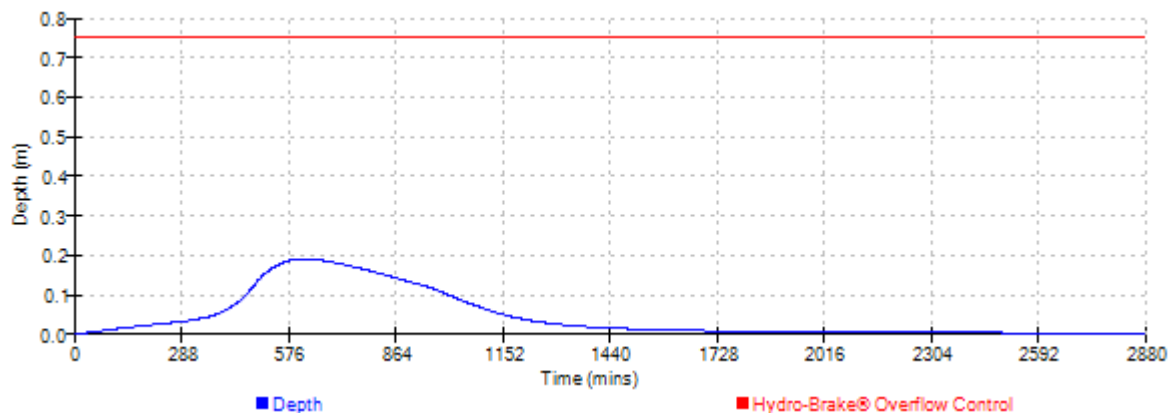
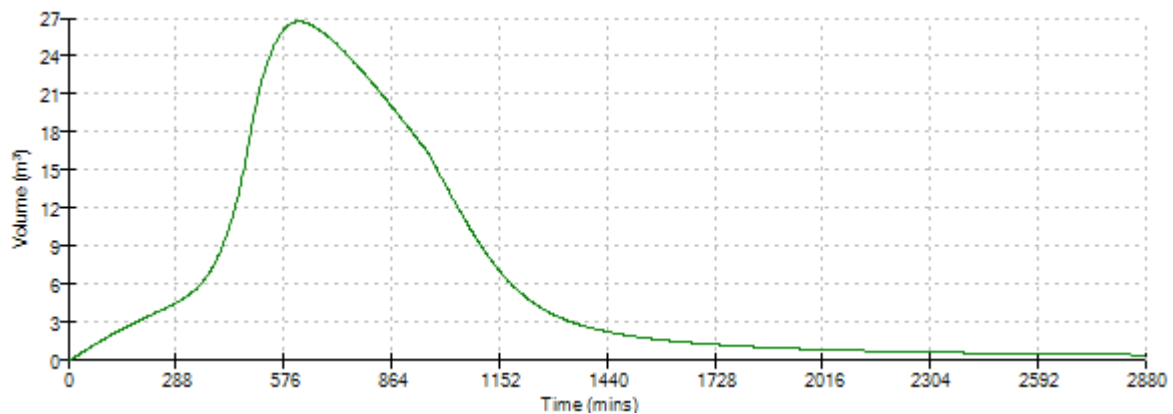
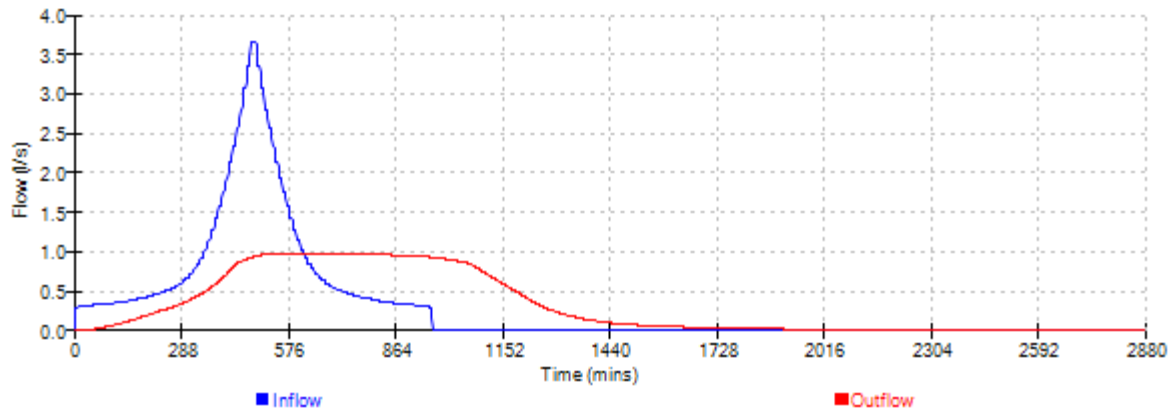
Easy Flood Risk		Page 15
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 720 min Summer



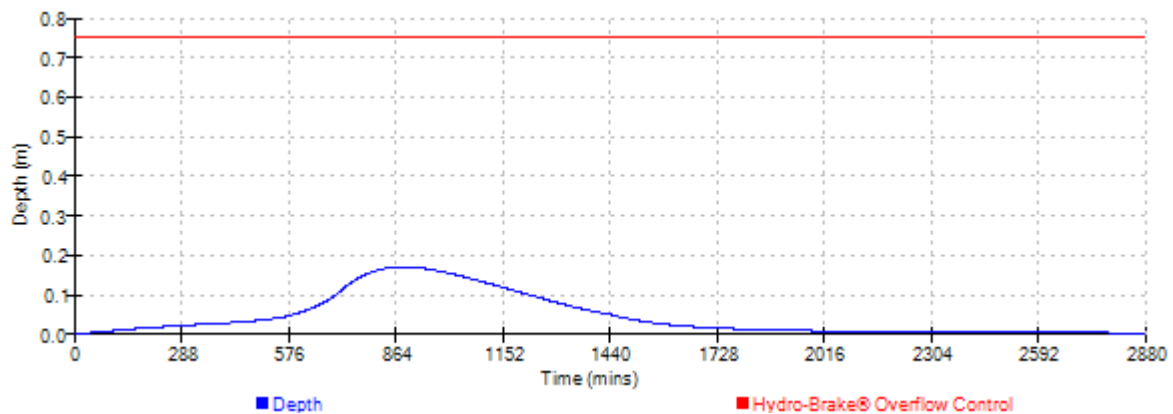
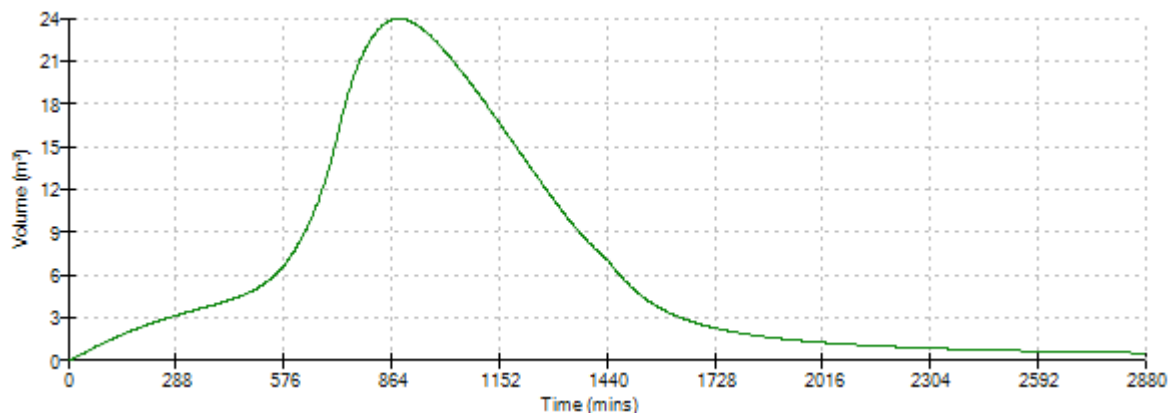
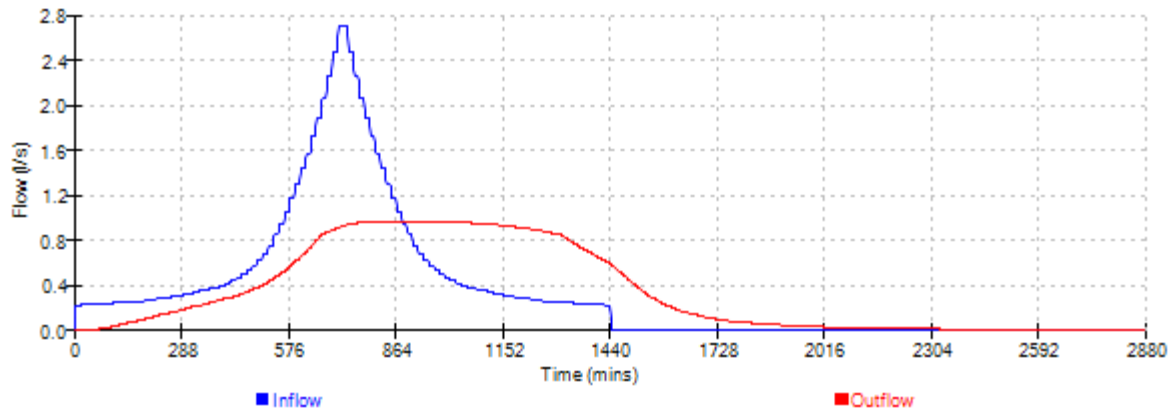
Easy Flood Risk		Page 16
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 960 min Summer



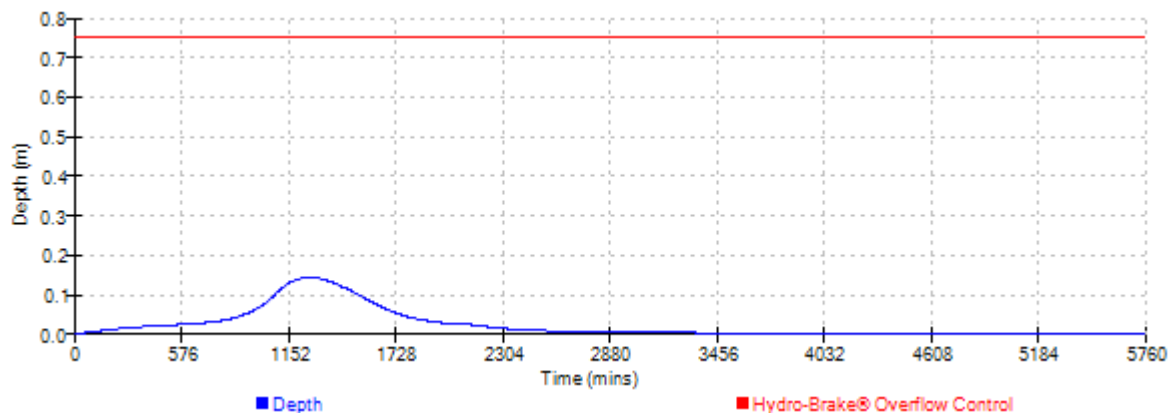
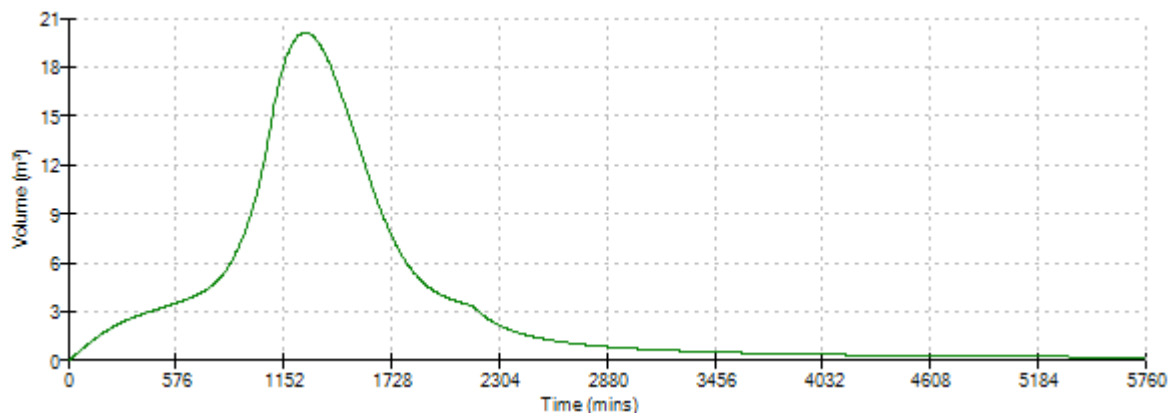
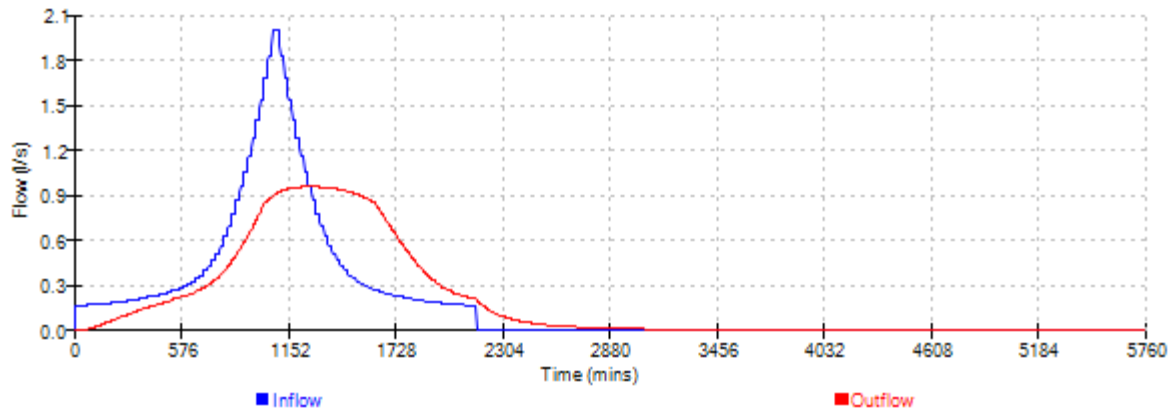
Easy Flood Risk		Page 17
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 1440 min Summer



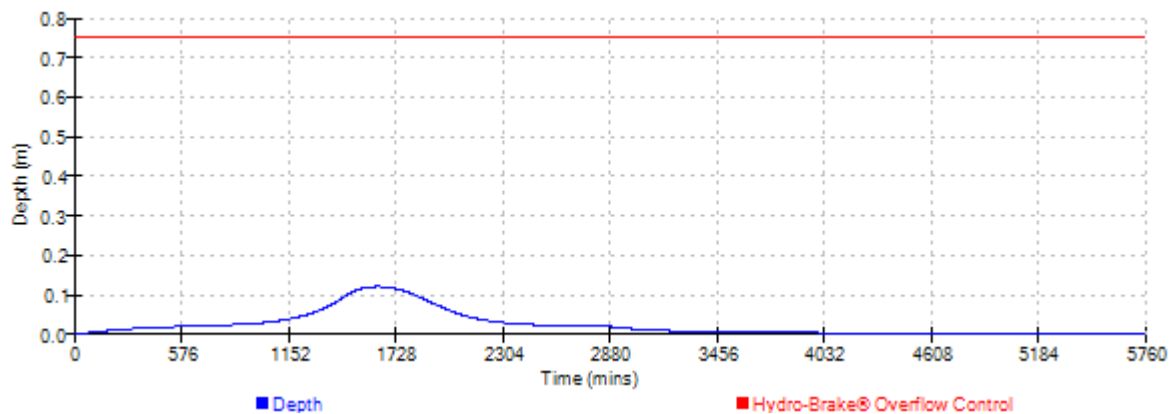
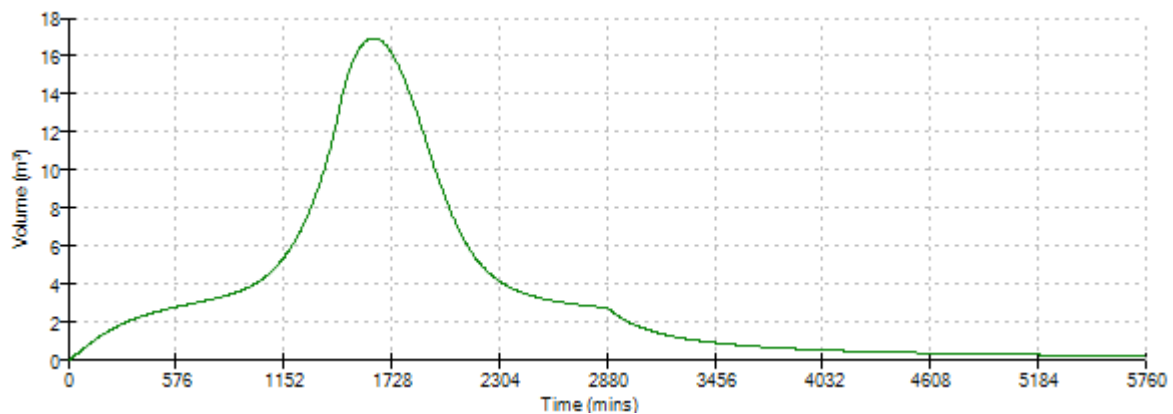
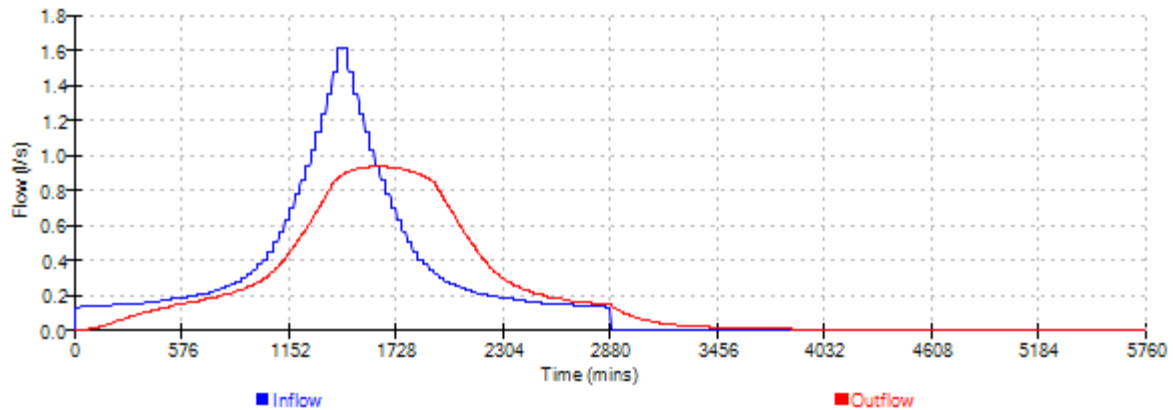
Easy Flood Risk		Page 18
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 2160 min Summer



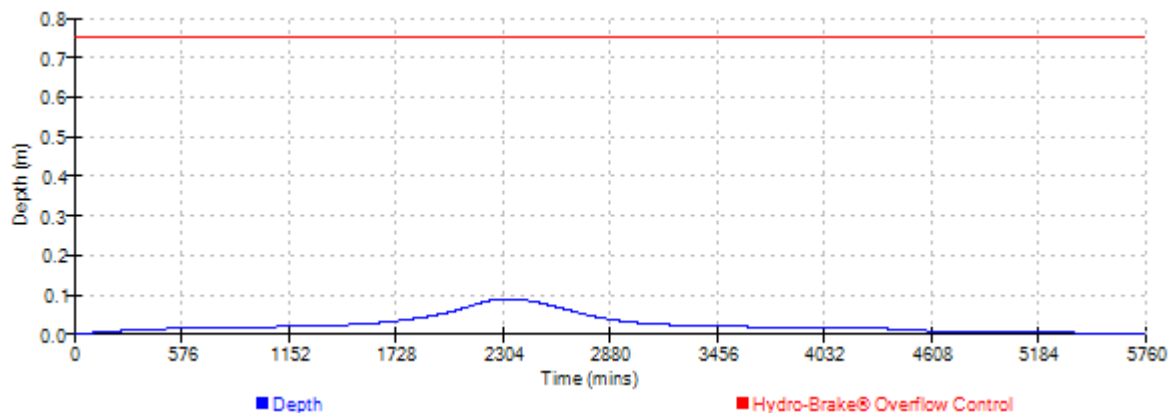
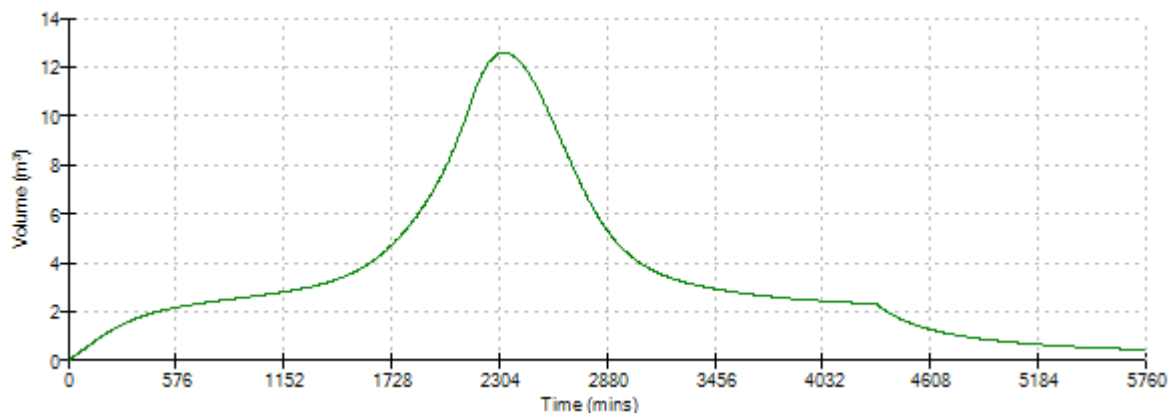
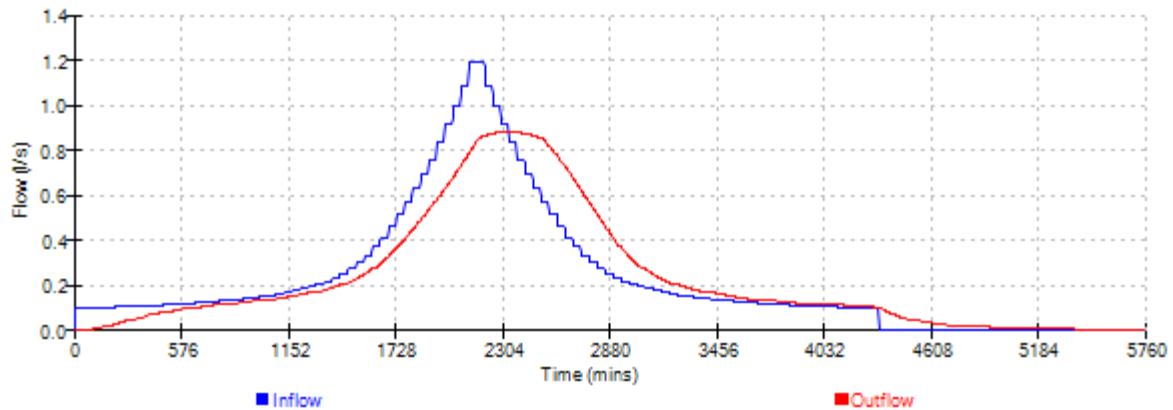
Easy Flood Risk		Page 19
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2880 min Summer



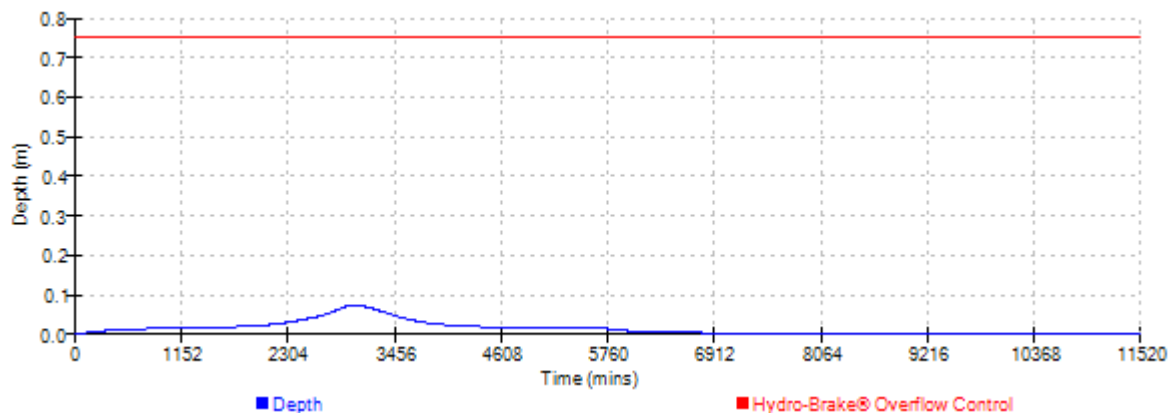
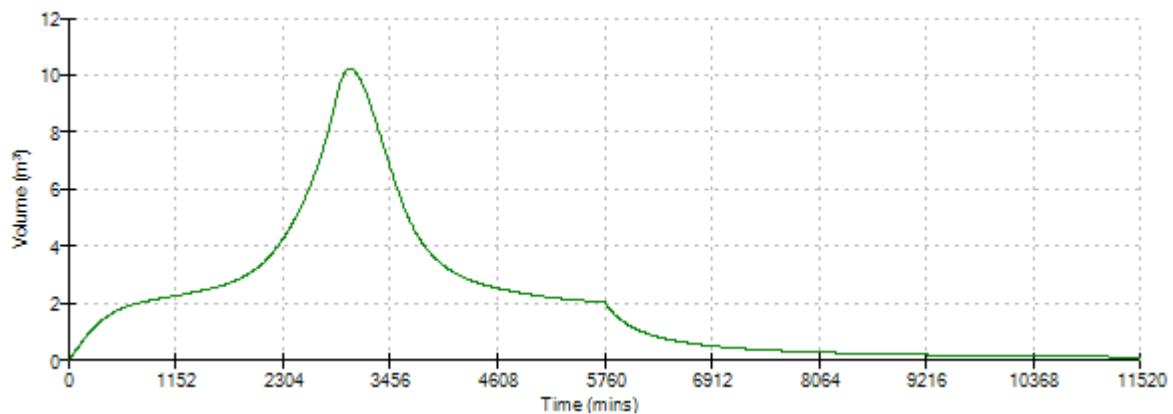
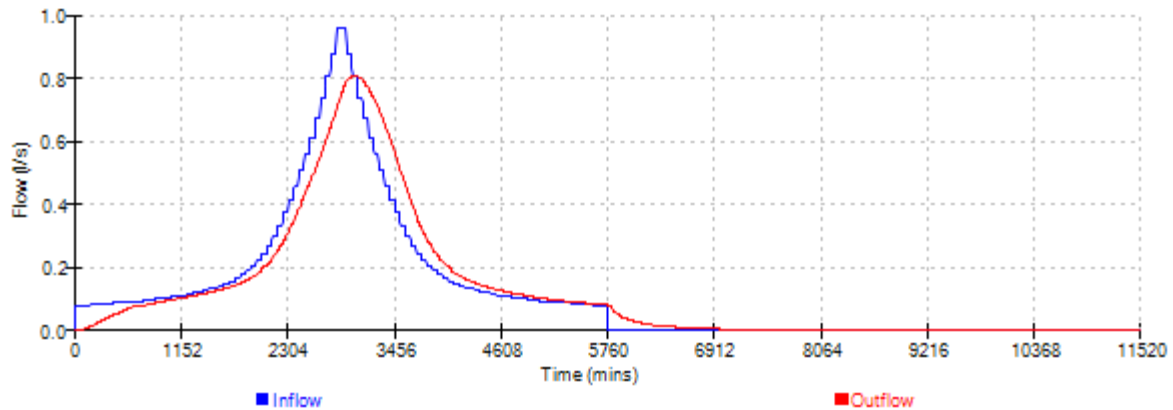
Easy Flood Risk		Page 20
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 4320 min Summer



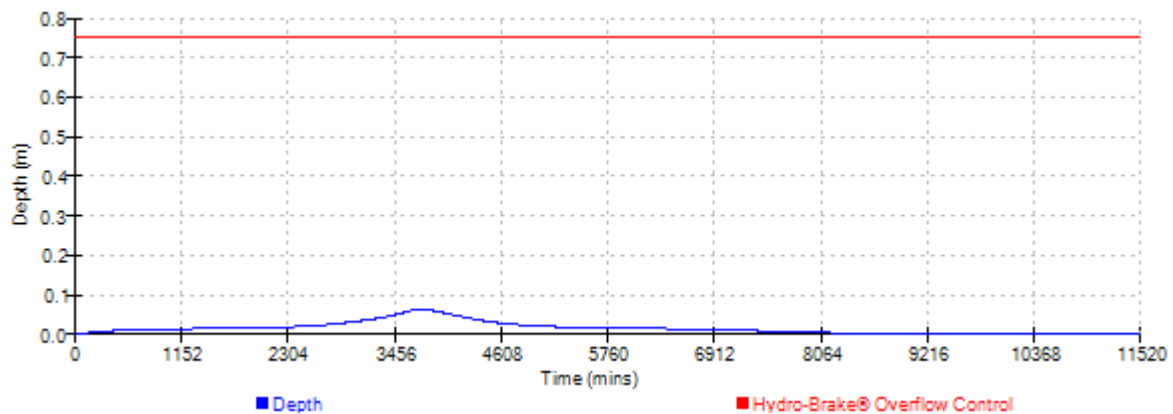
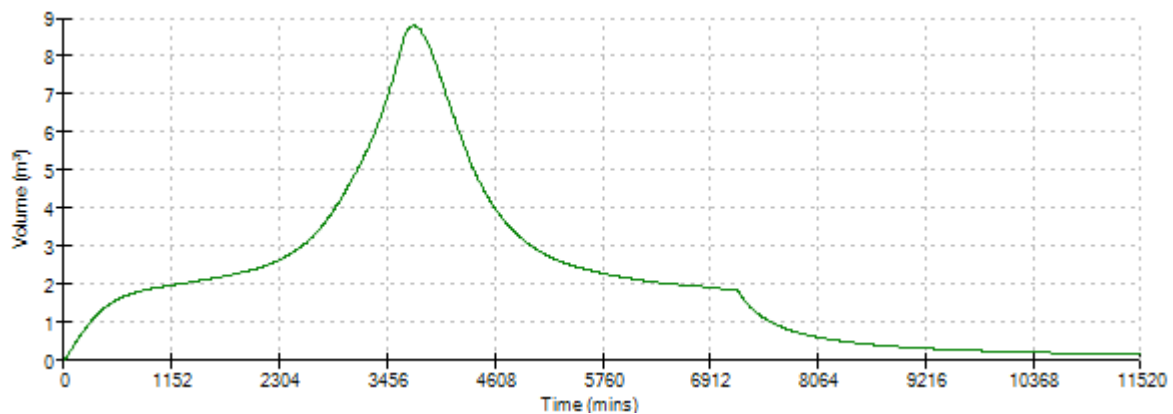
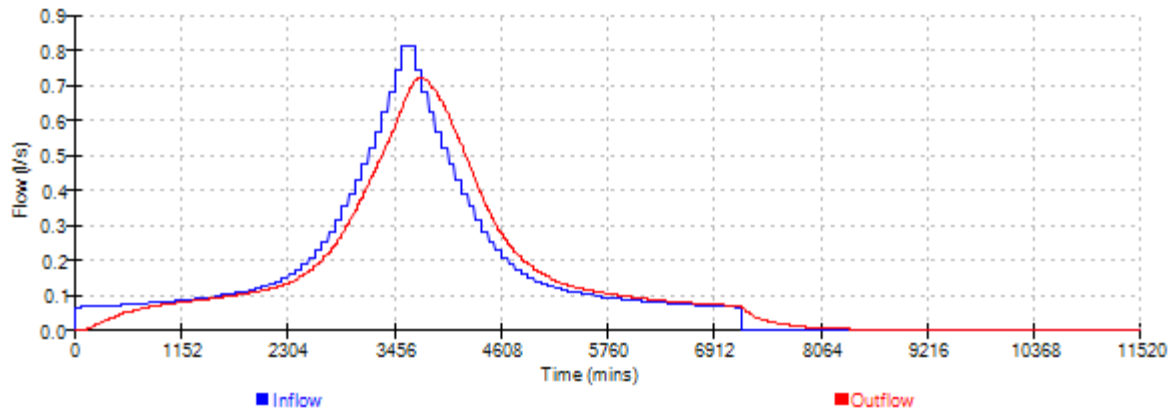
Easy Flood Risk		Page 21
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 5760 min Summer



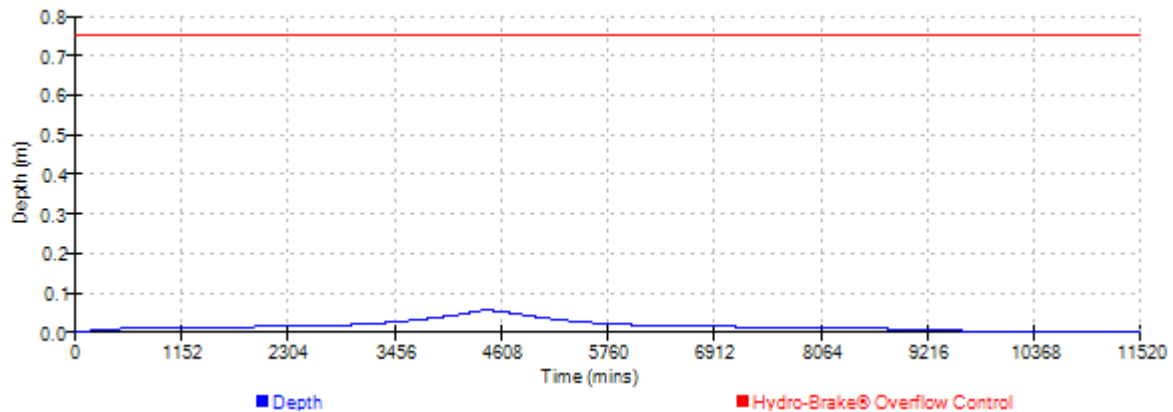
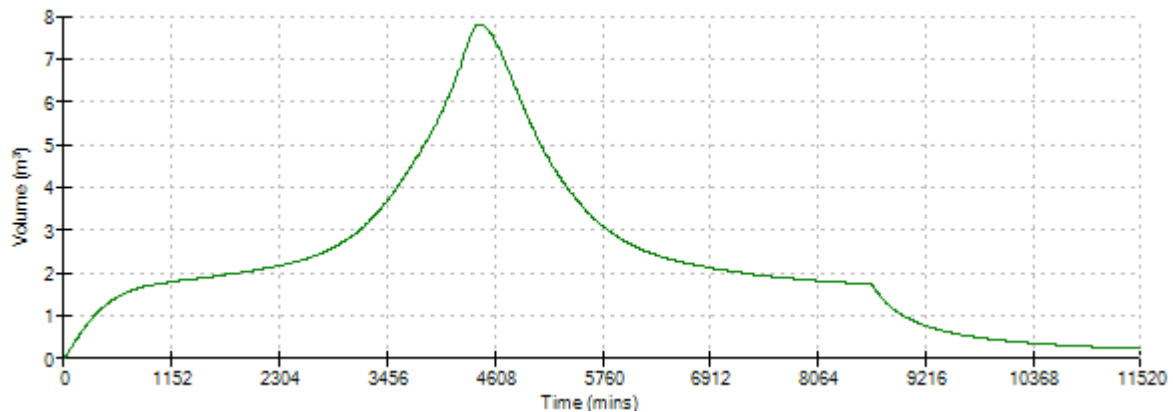
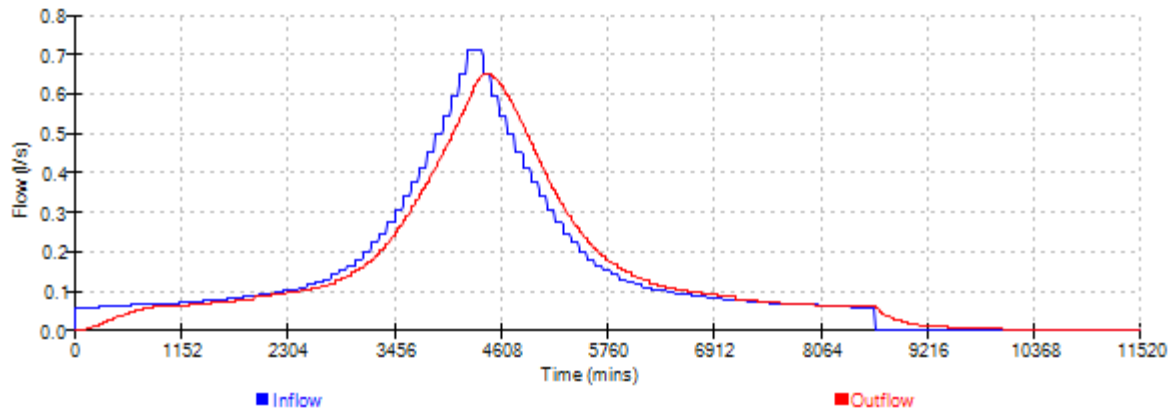
Easy Flood Risk		Page 22
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 7200 min Summer



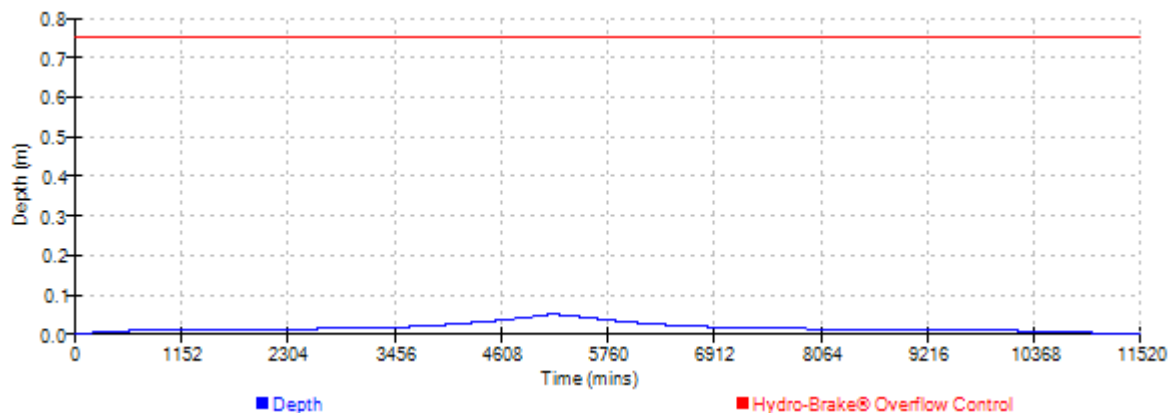
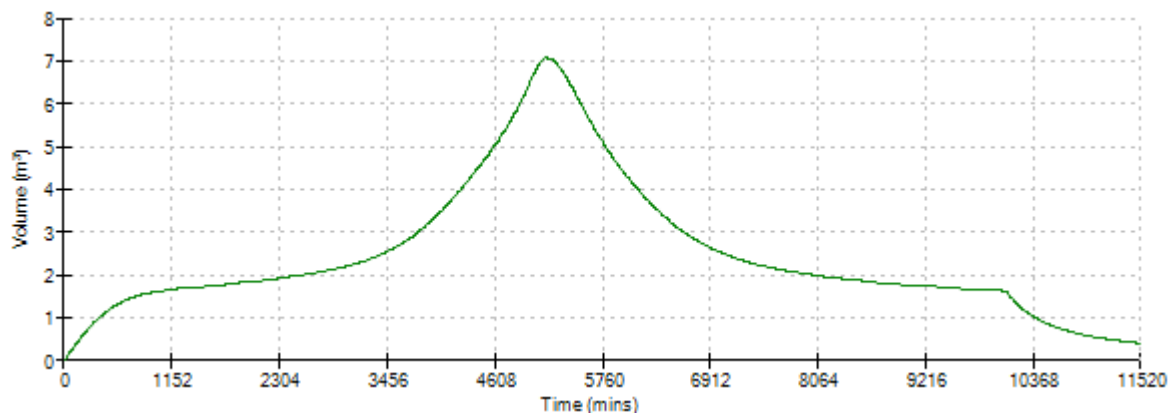
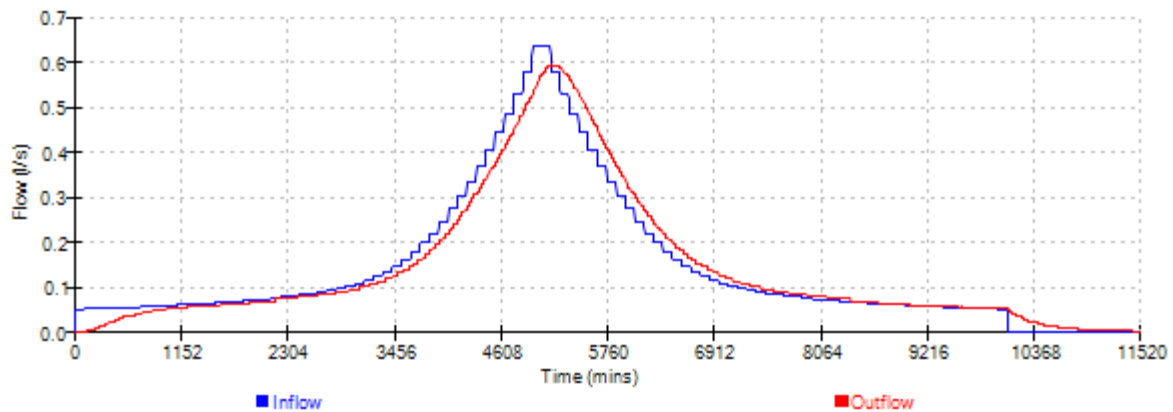
Easy Flood Risk		Page 23
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 8640 min Summer



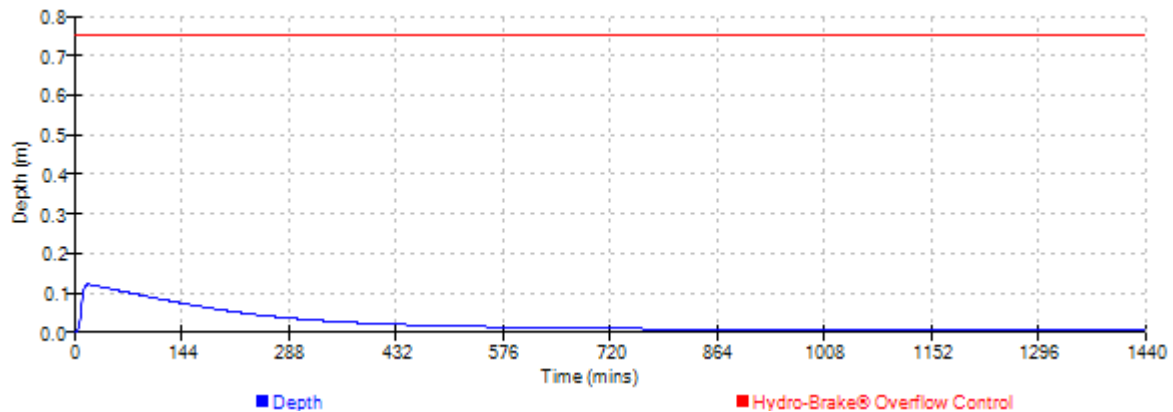
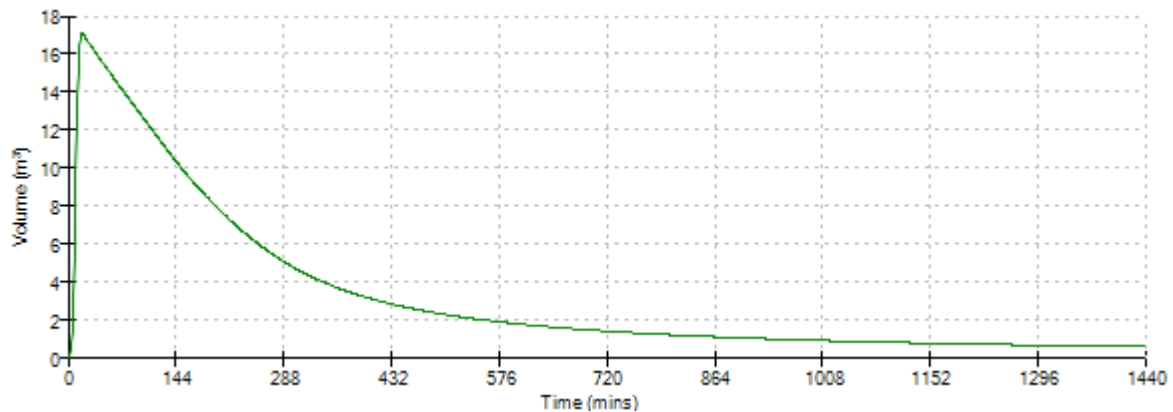
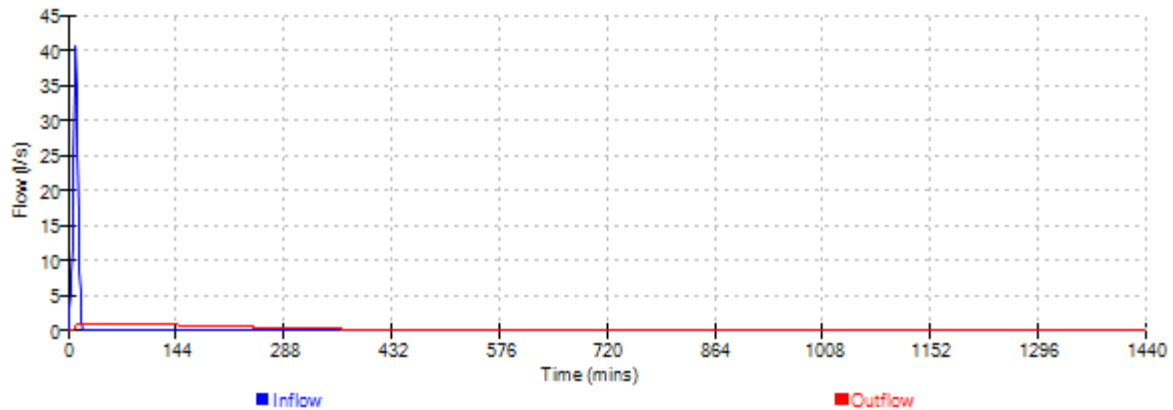
Easy Flood Risk		Page 24
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 10080 min Summer



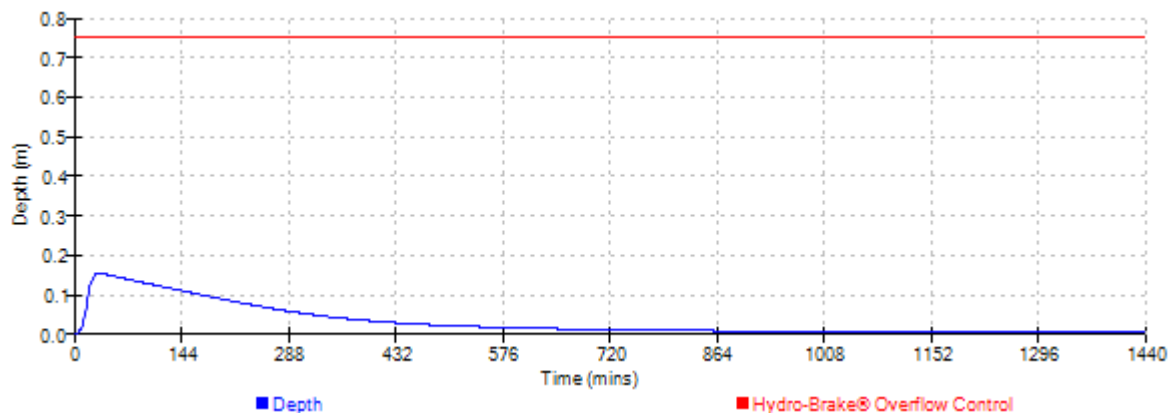
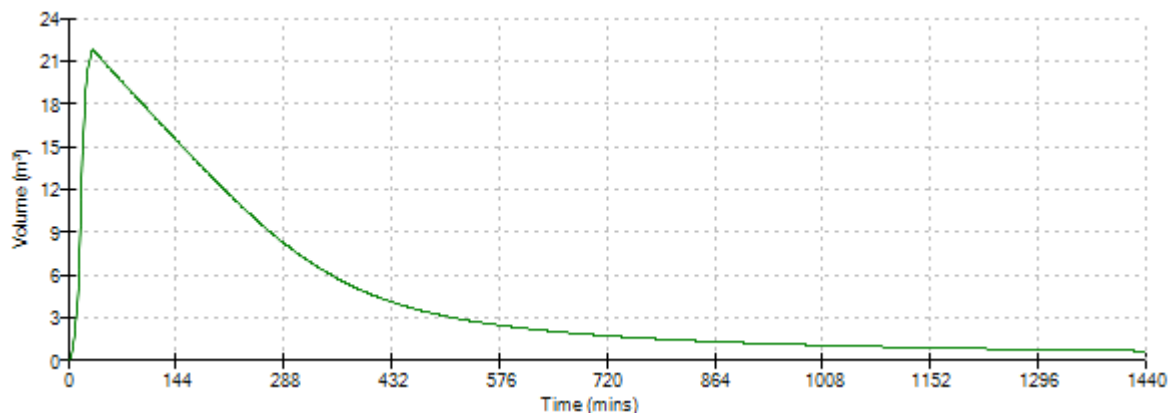
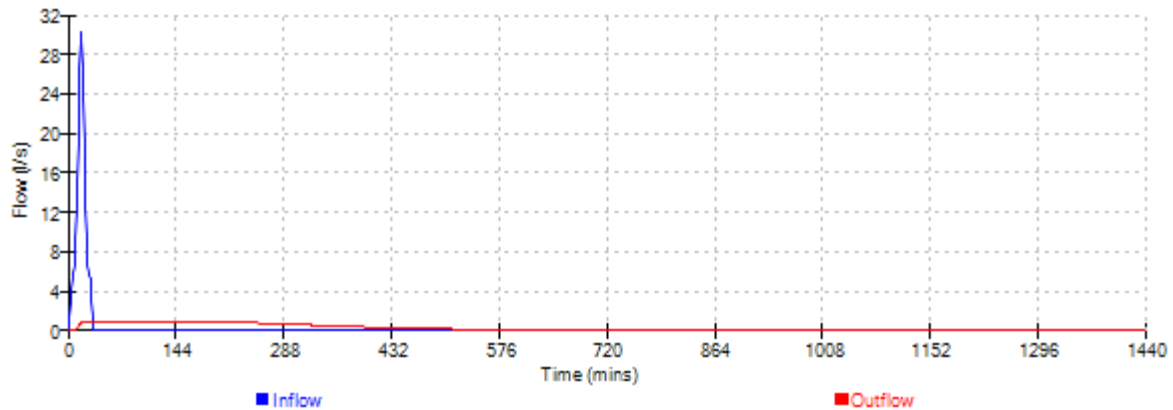
Easy Flood Risk		Page 25
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 15 min Winter



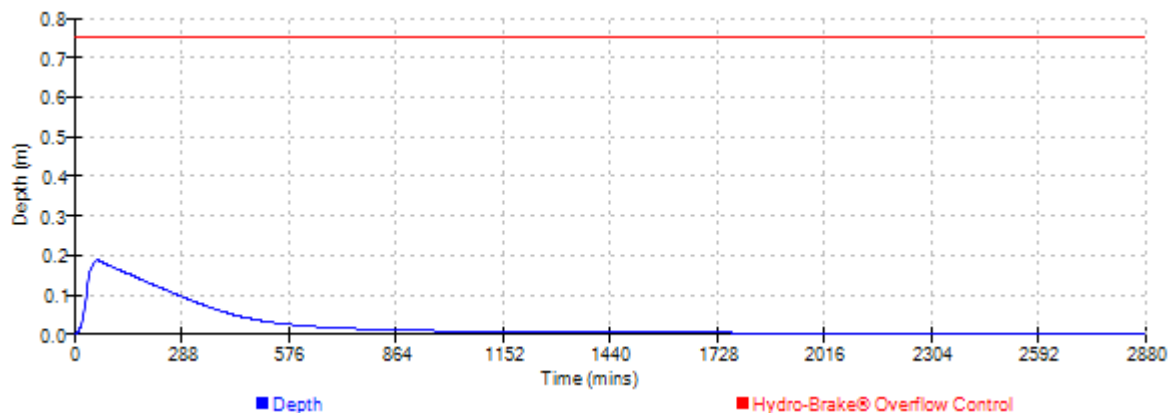
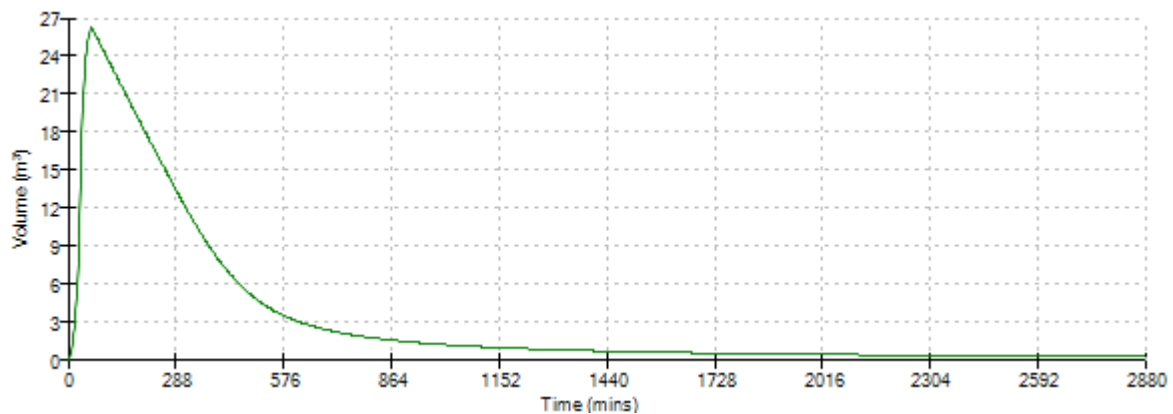
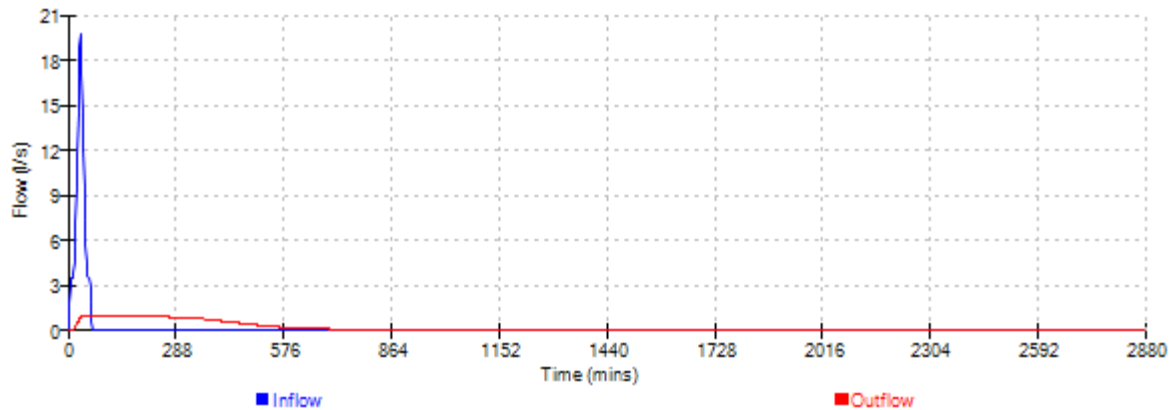
Easy Flood Risk		Page 26
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 30 min Winter



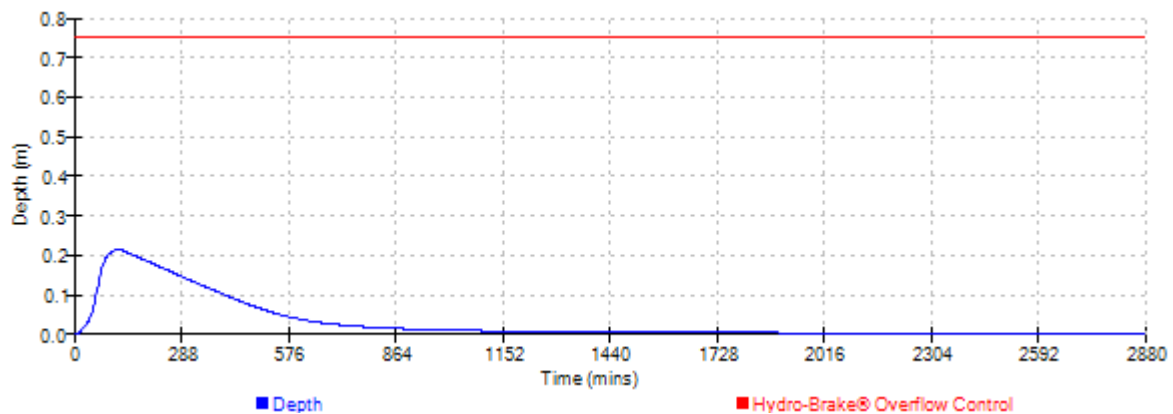
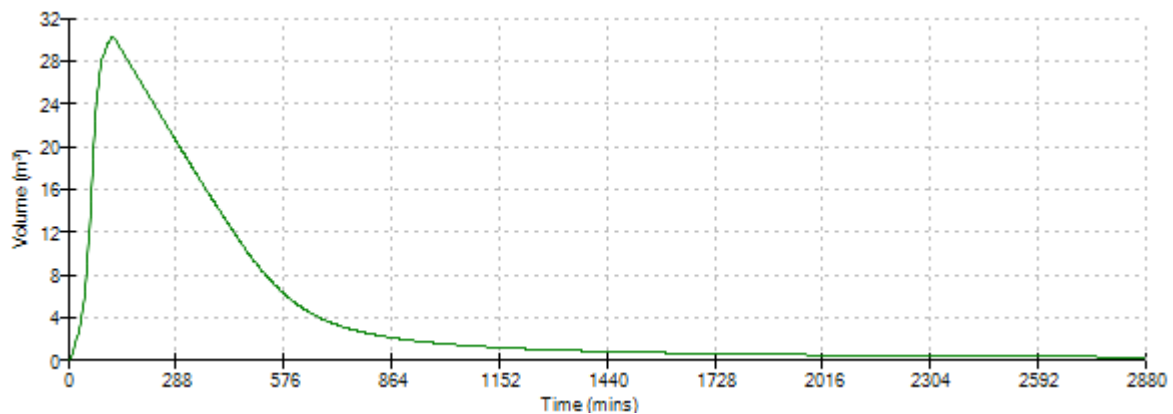
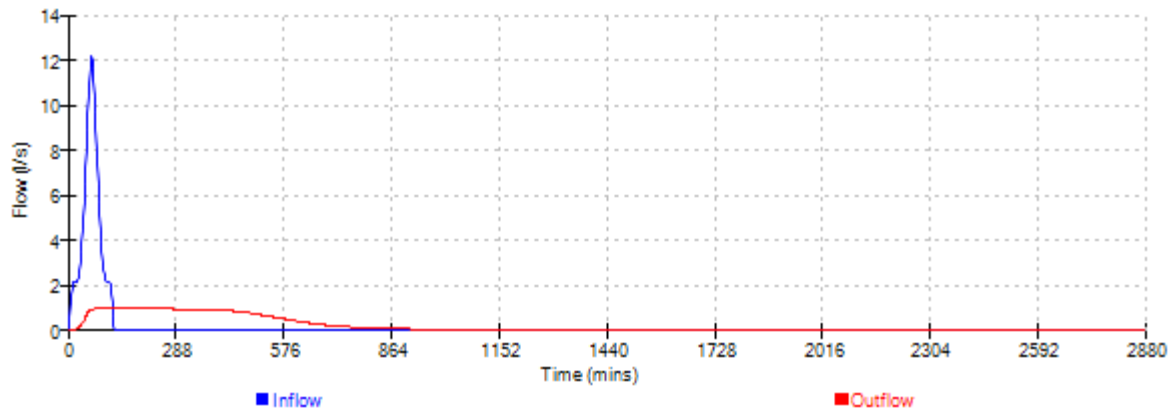
Easy Flood Risk		Page 27
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 60 min Winter



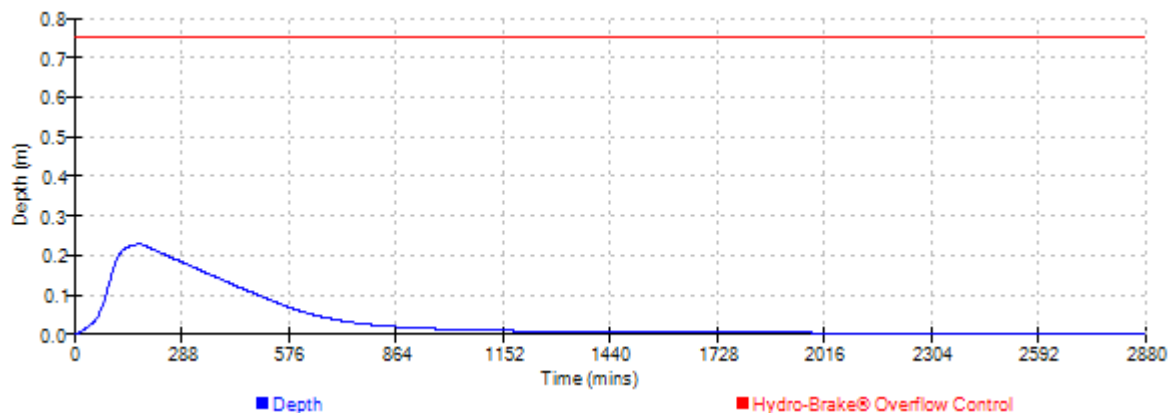
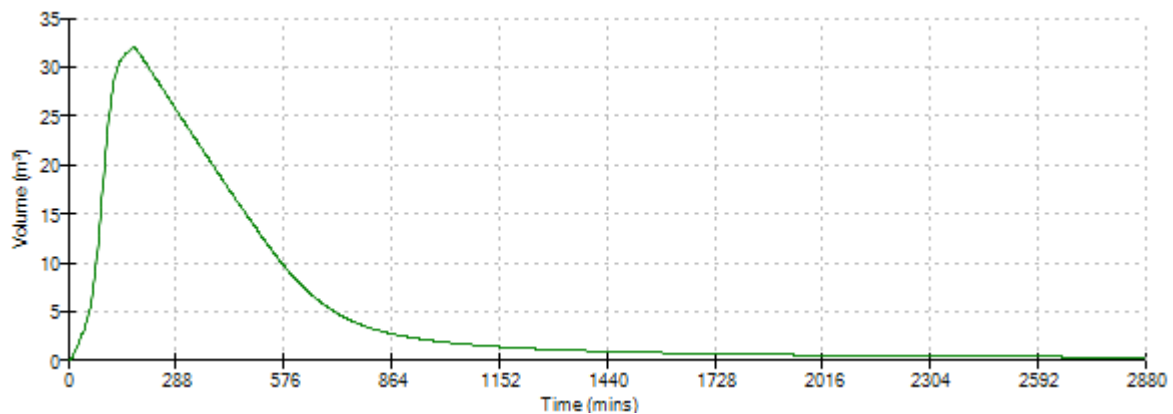
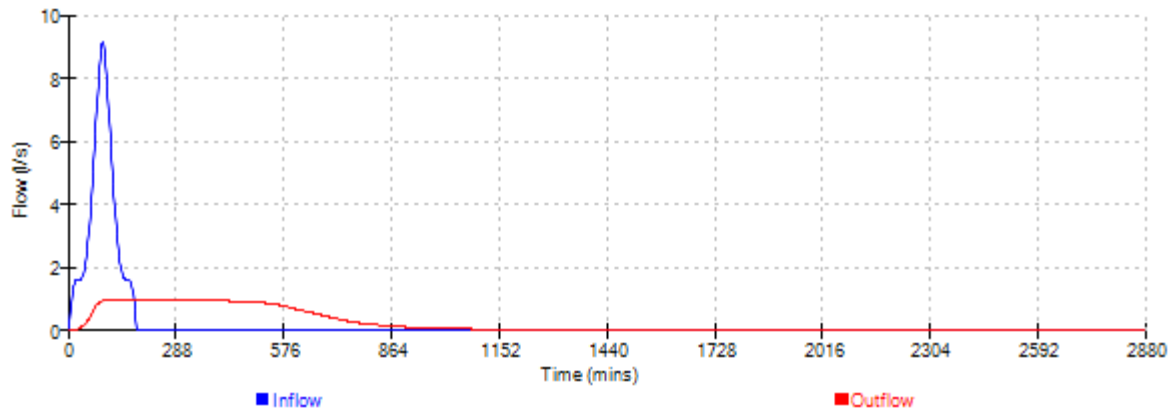
Easy Flood Risk		Page 28
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 120 min Winter



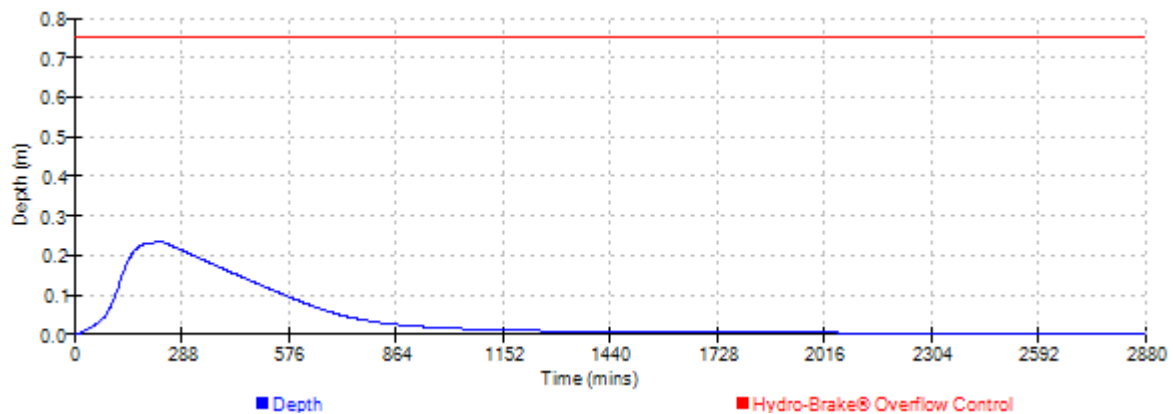
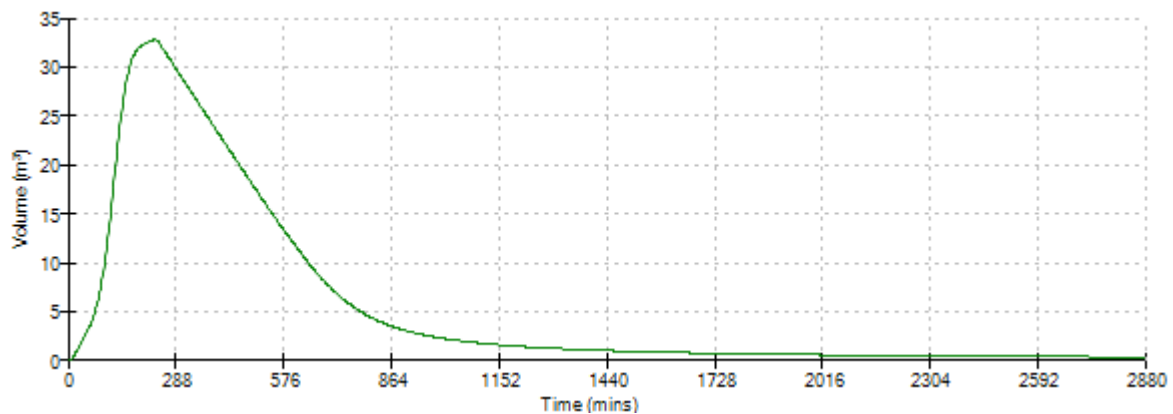
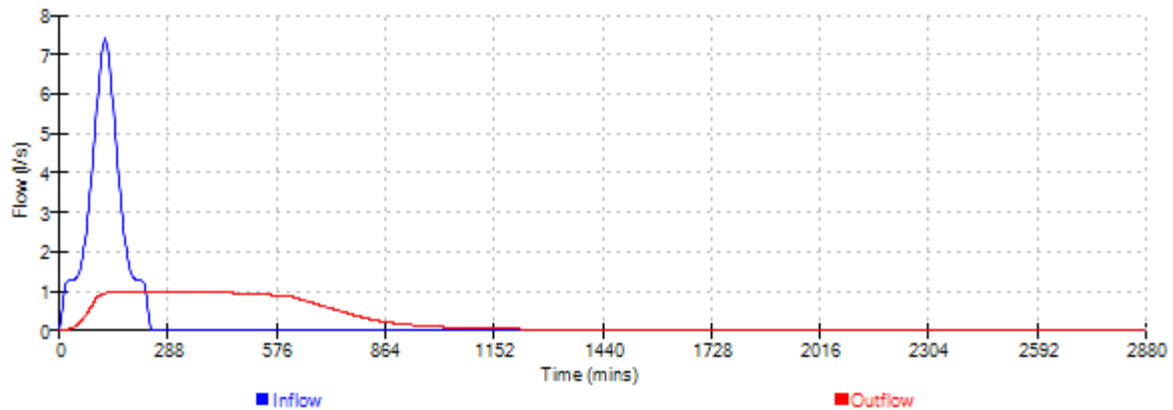
Easy Flood Risk		Page 29
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 180 min Winter



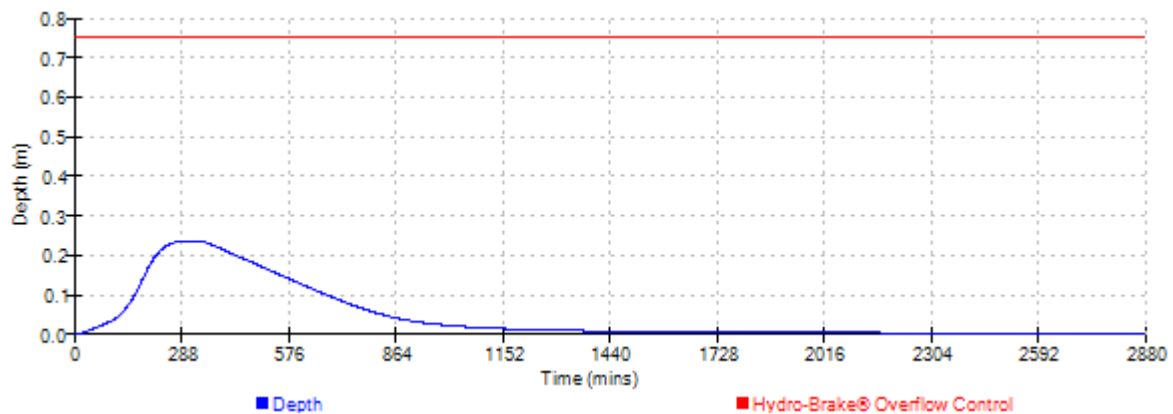
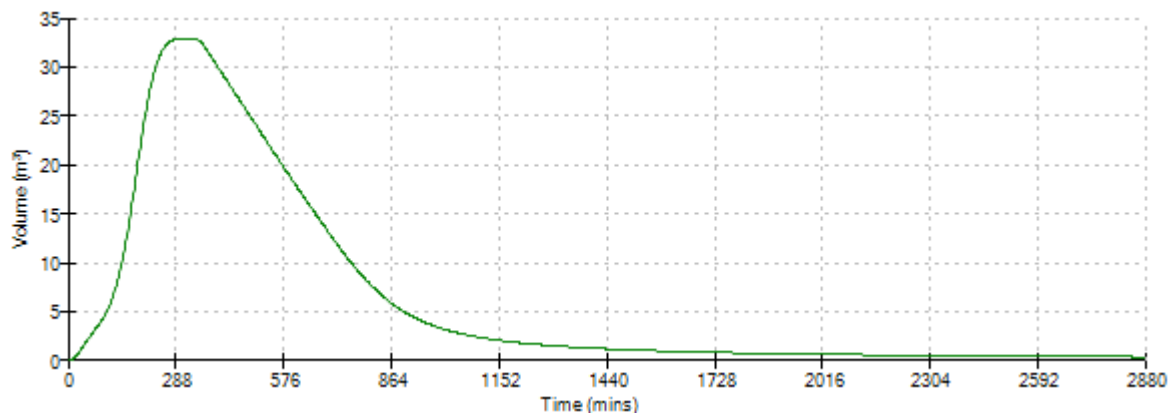
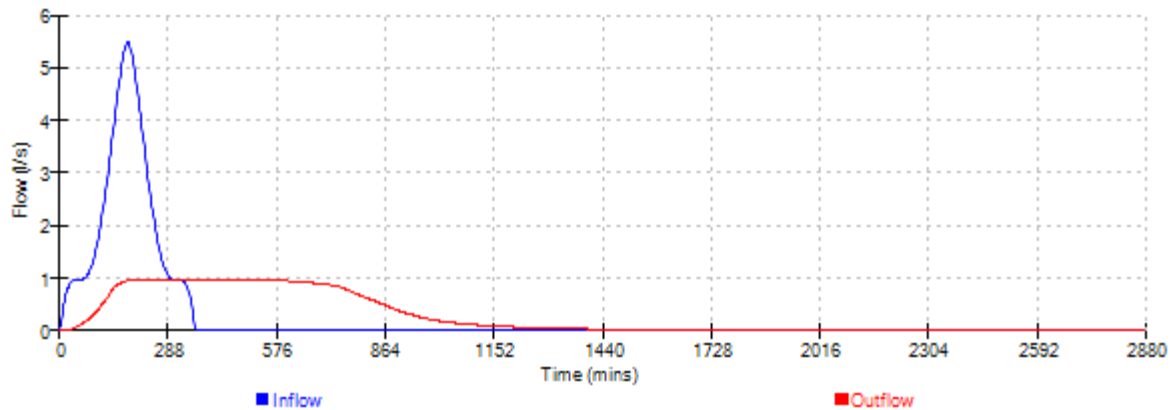
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 240 min Winter



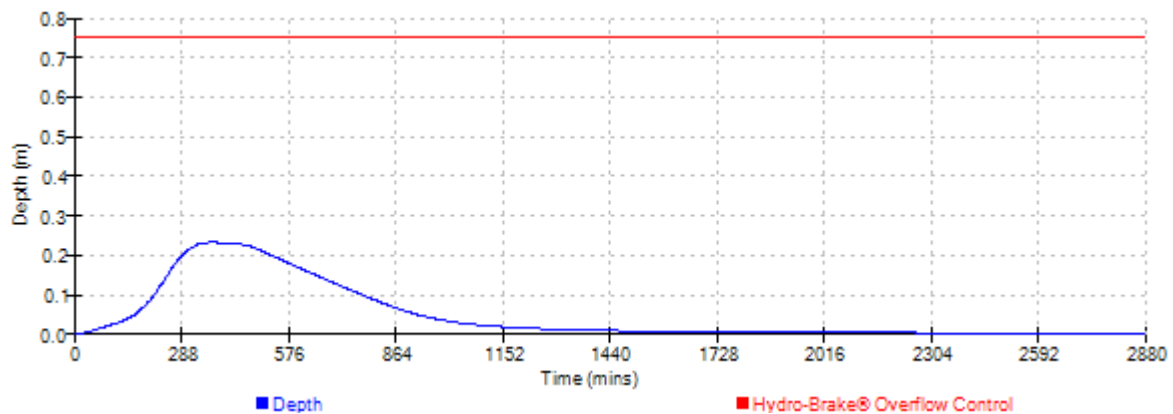
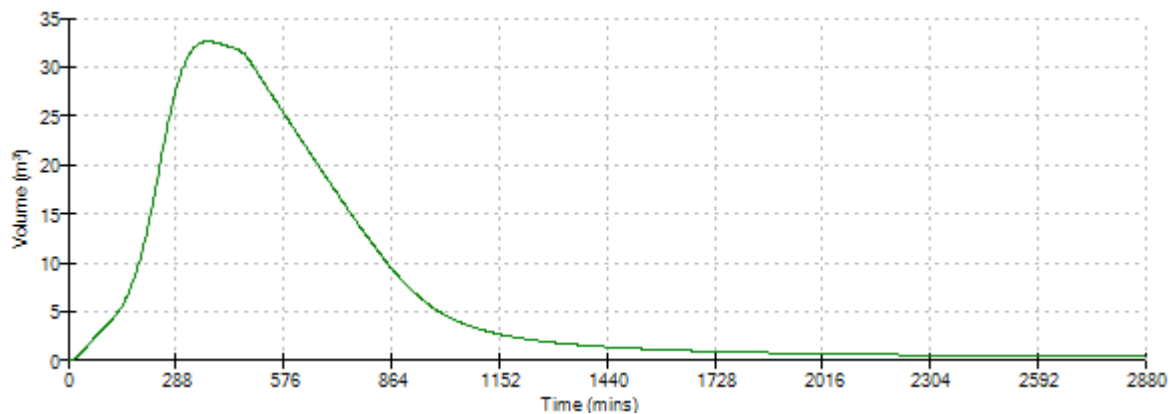
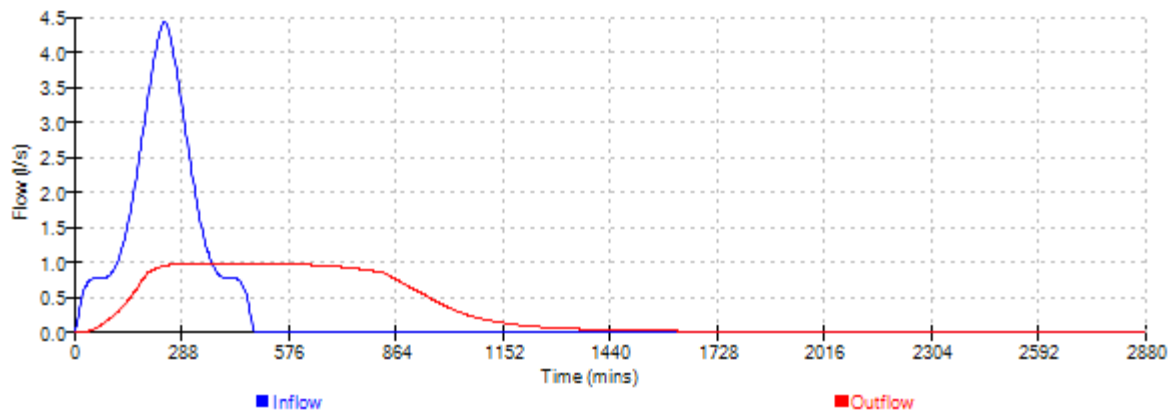
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze		Source Control 2020.1

Event: 360 min Winter



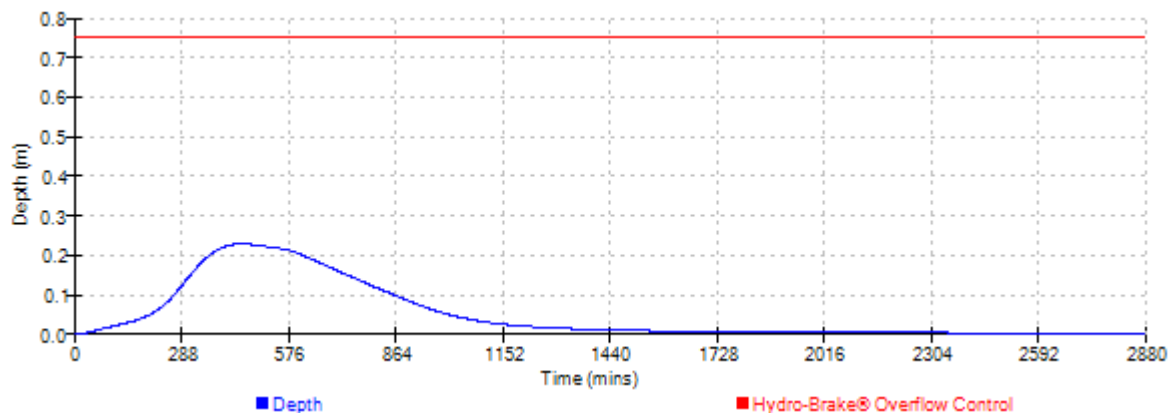
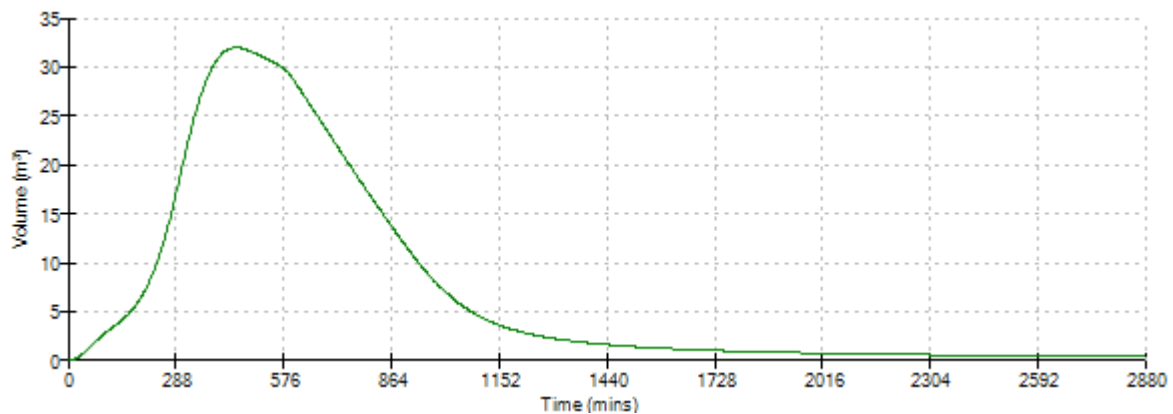
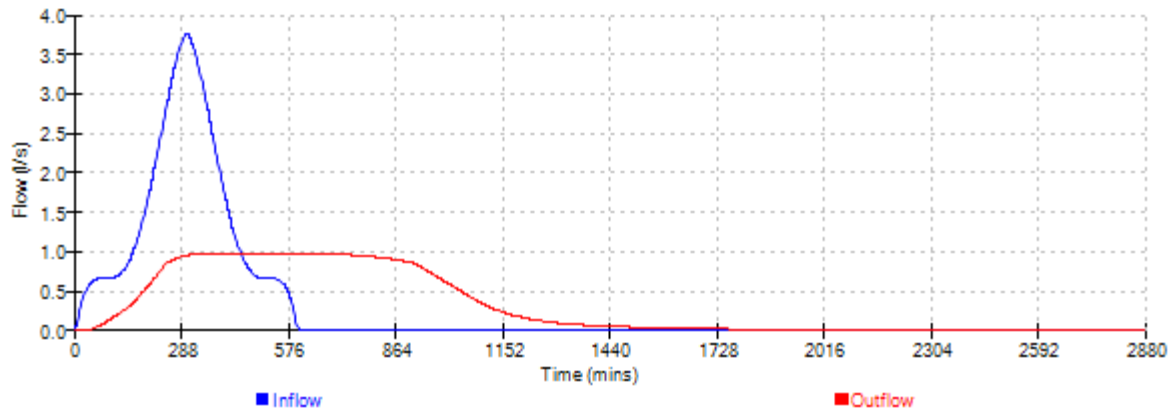
Easy Flood Risk		Page 32
55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 480 min Winter



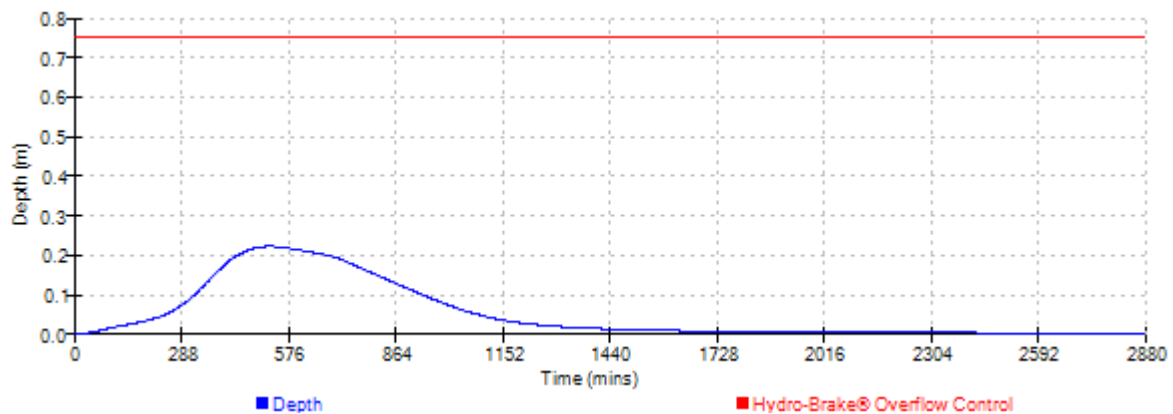
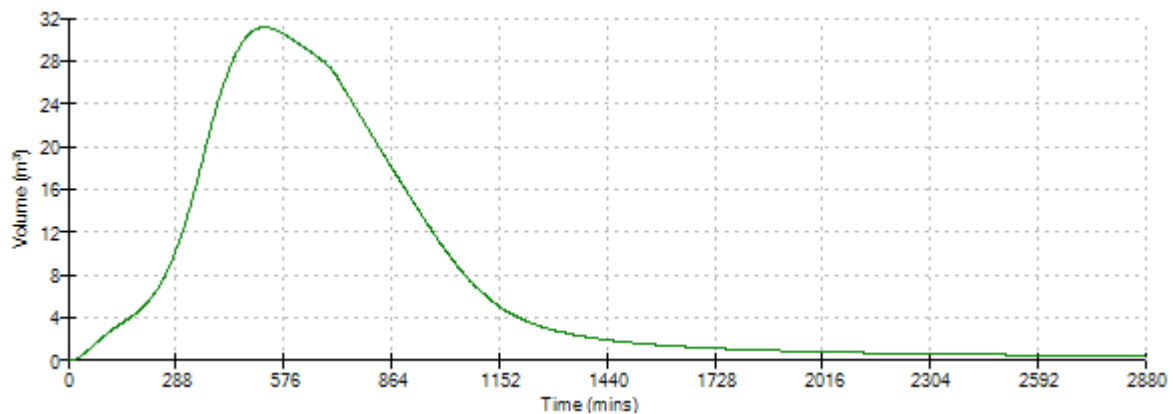
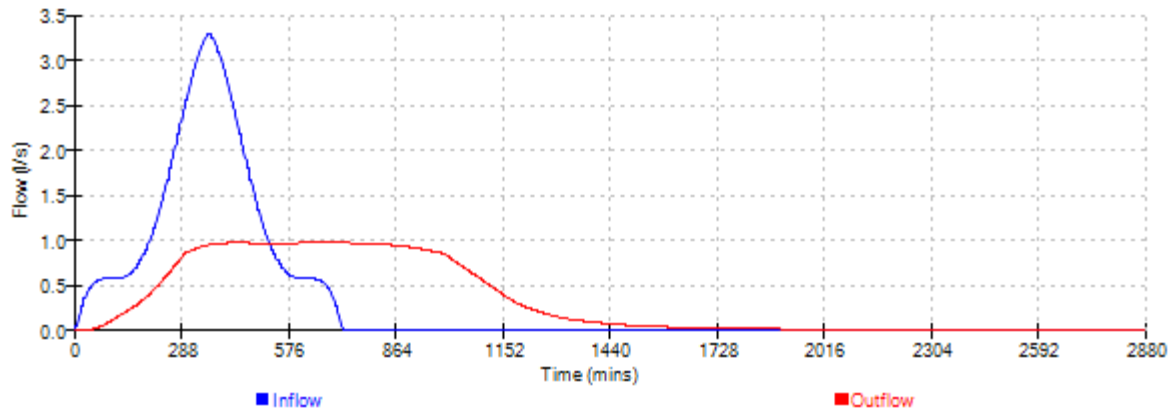
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 600 min Winter



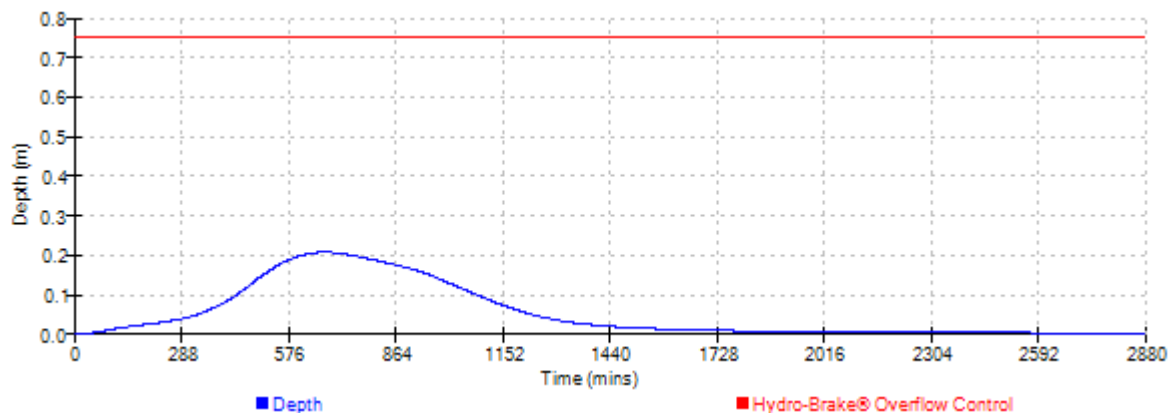
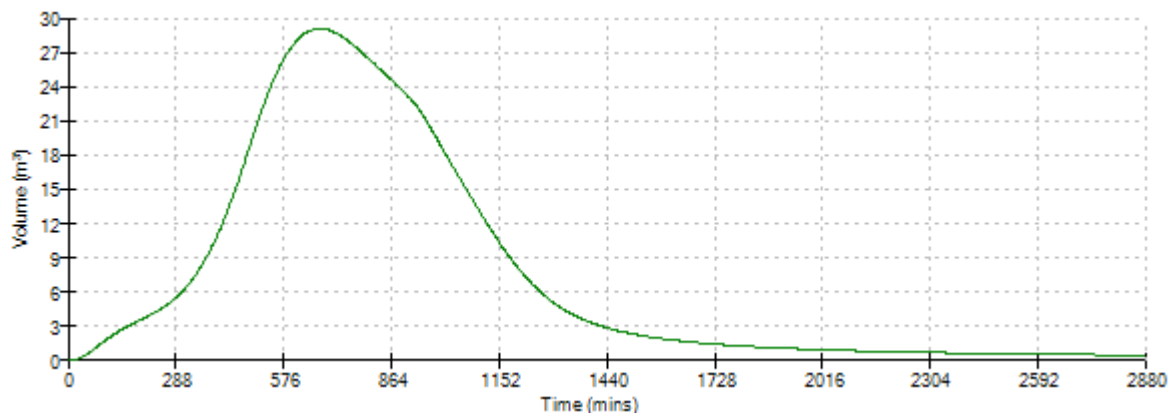
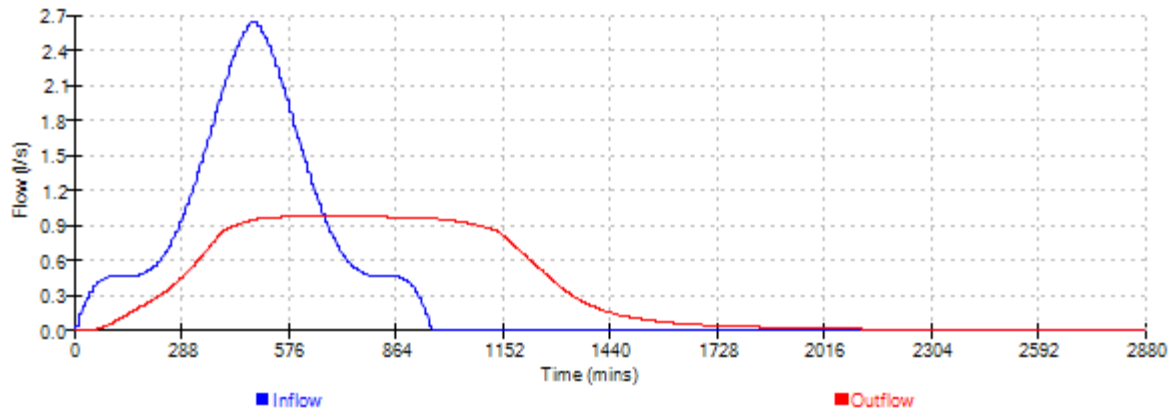
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Innovyze	Source Control 2020.1	

Event: 720 min Winter



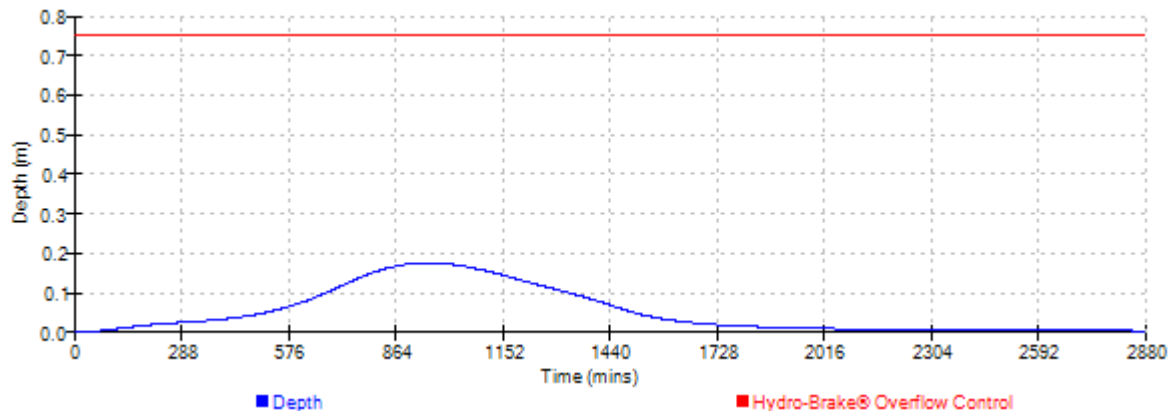
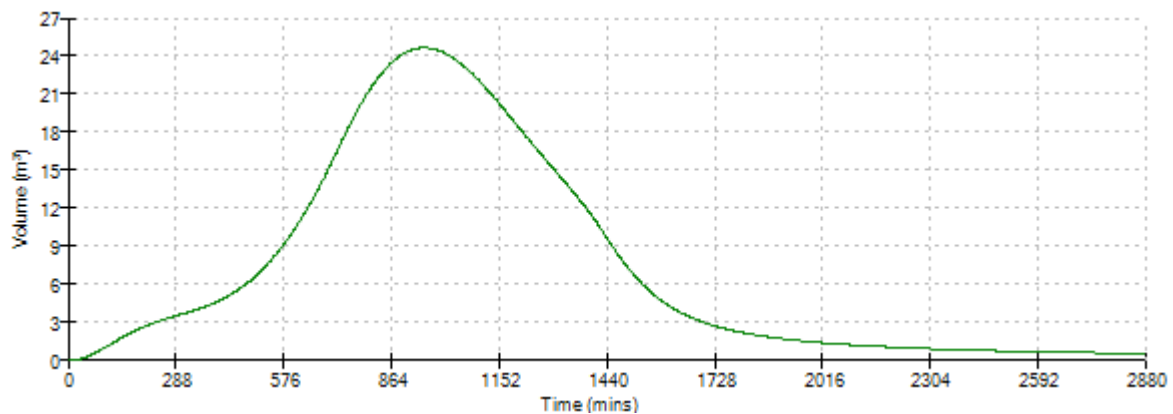
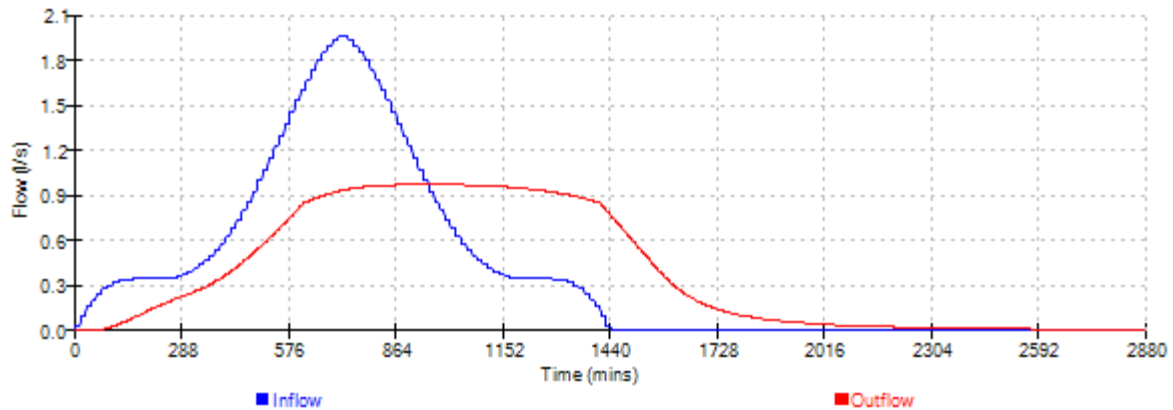
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55 Shepherds Lane Dartford DA1 2NL		
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Event: 960 min Winter



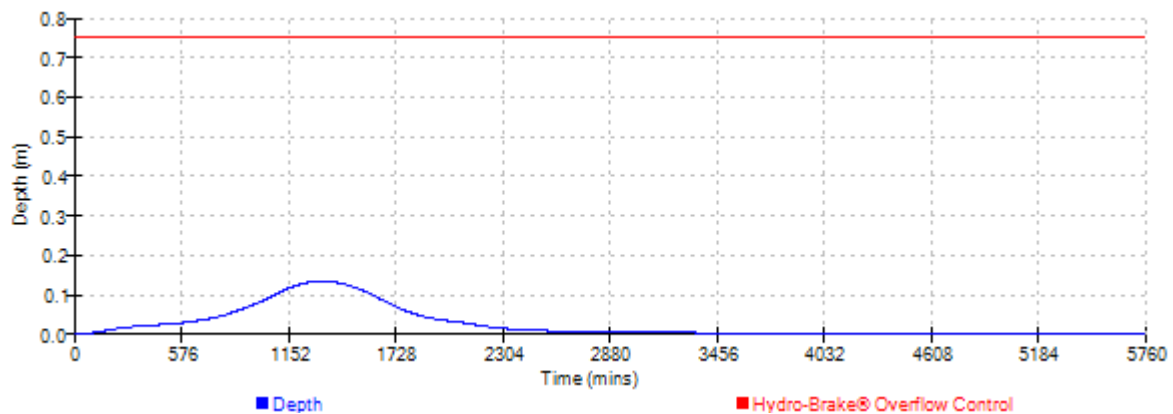
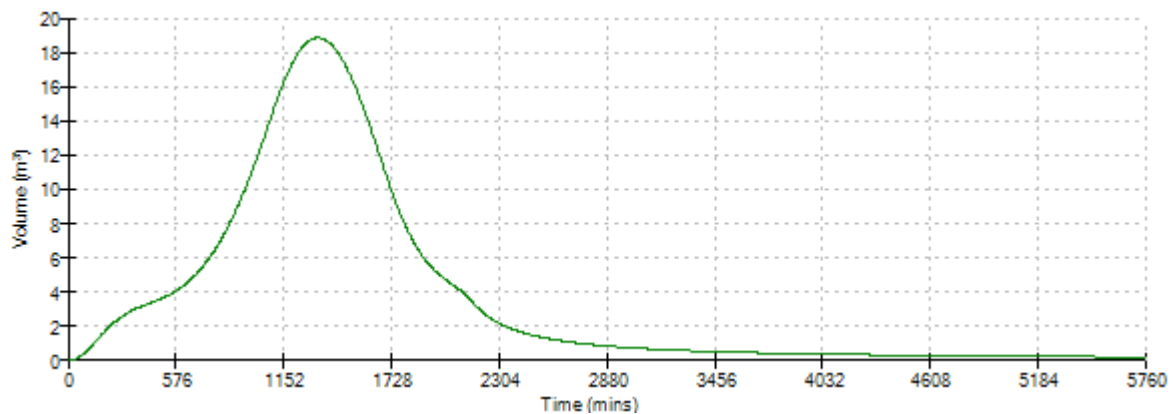
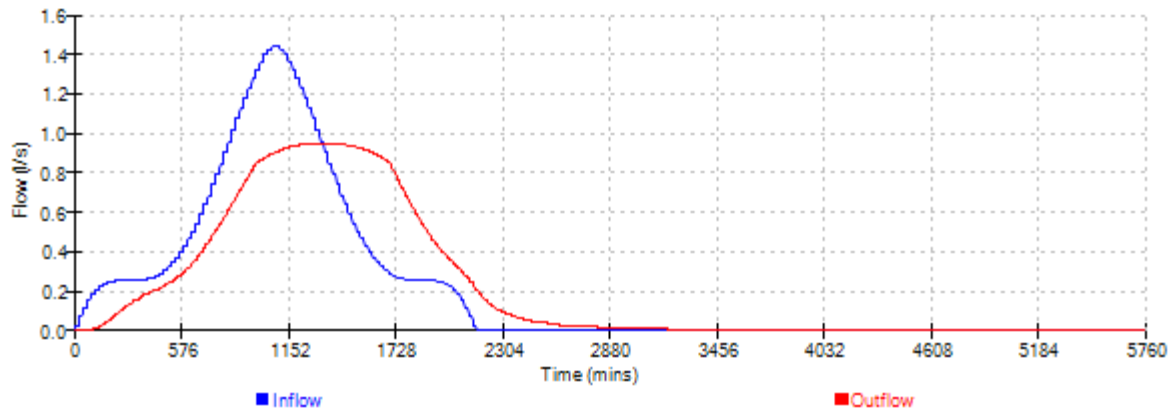
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 1440 min Winter



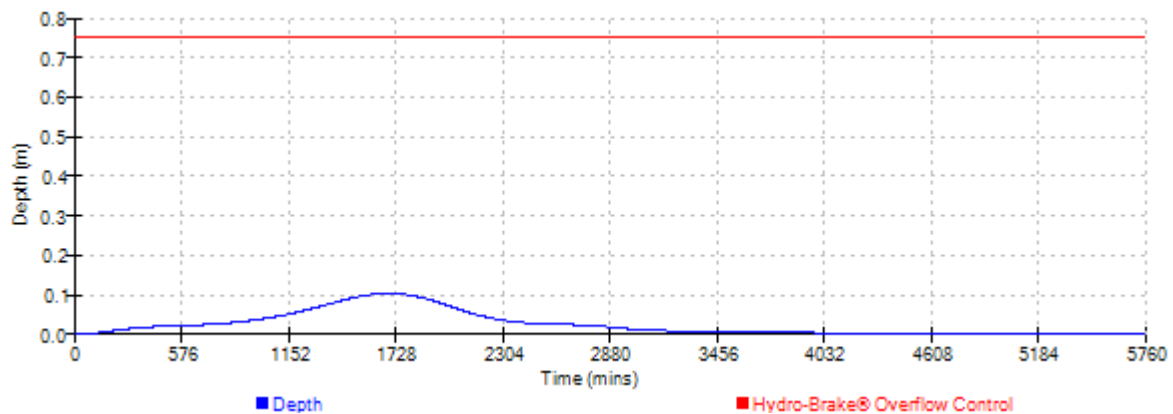
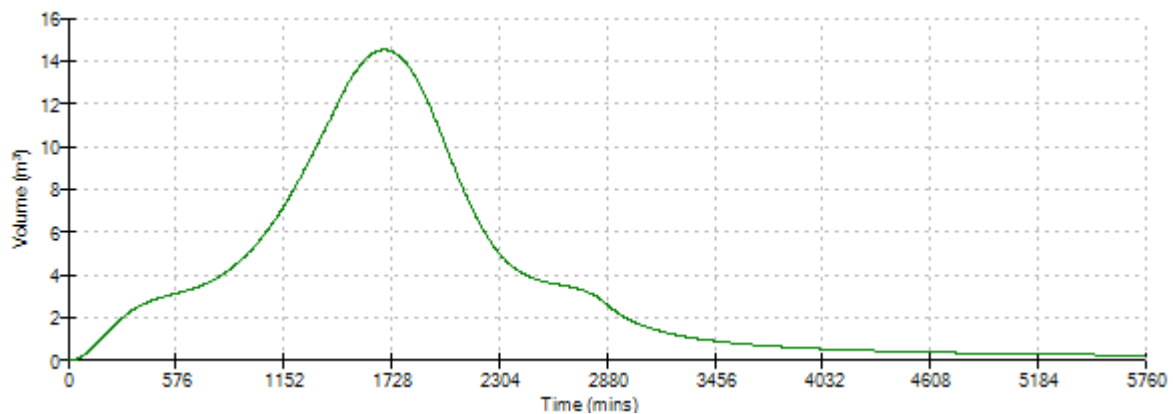
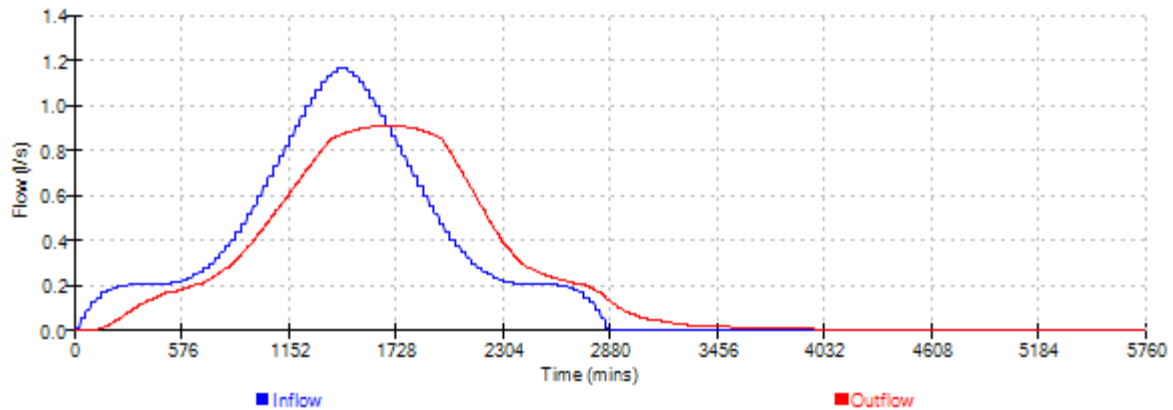
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55 Shepherds Lane Dartford DA1 2NL		
Date 24/01/2023 07:19 File Nutts Lane.SRCX	Designed by sheph Checked by	
Innovyze	Source Control 2020.1	

Event: 2160 min Winter



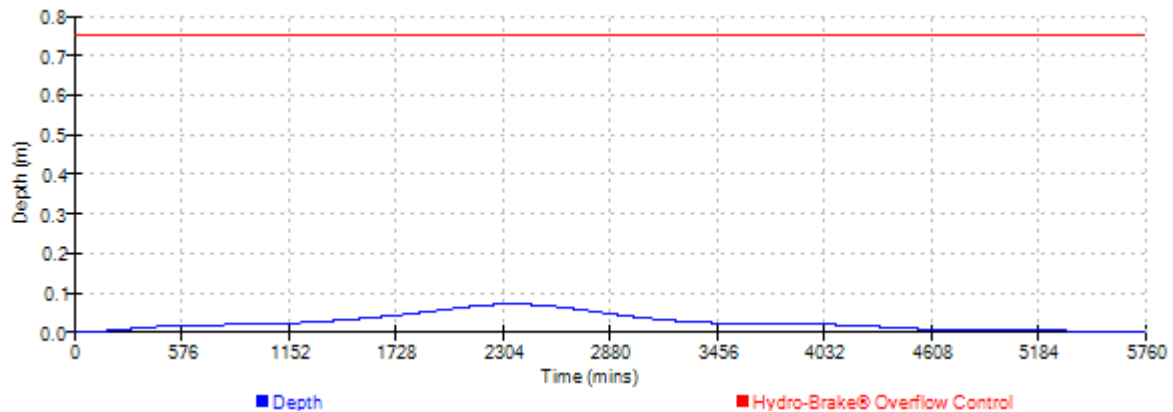
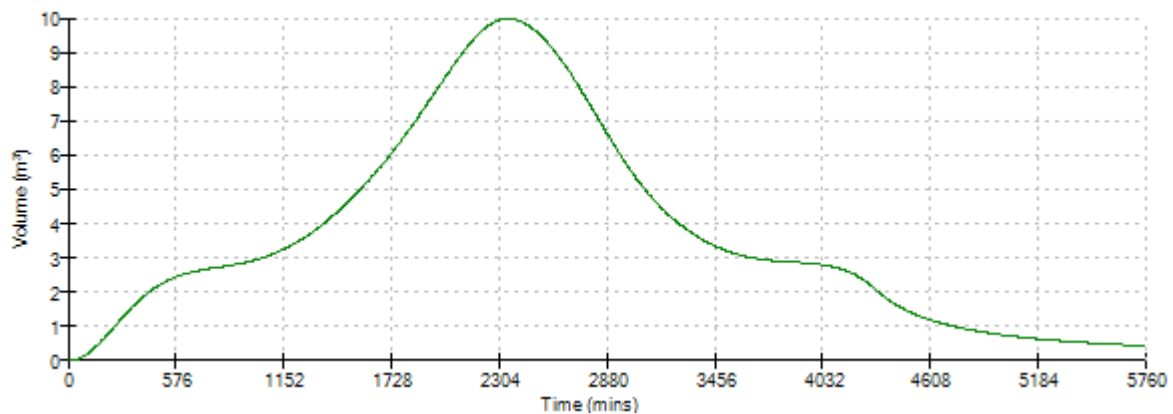
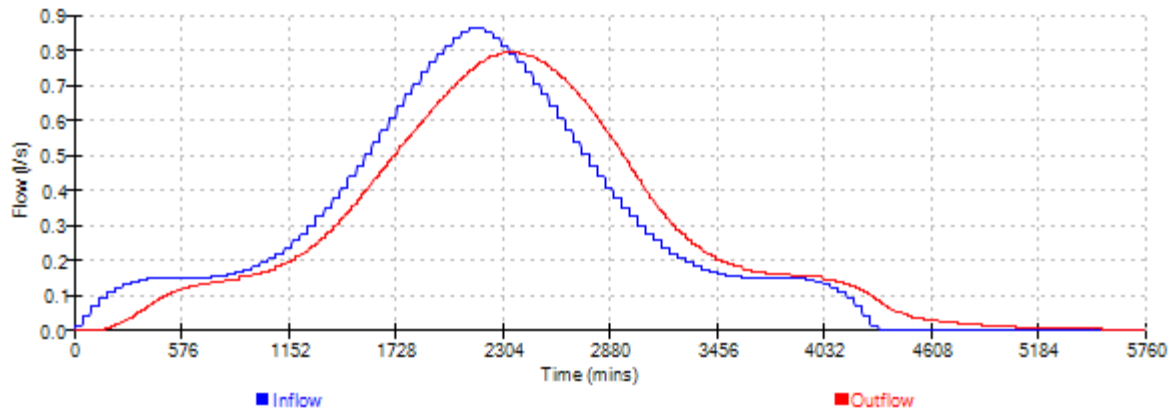
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55 Shepherds Lane Dartford DA1 2NL		
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Innovyze	Source Control 2020.1	

Event: 2880 min Winter



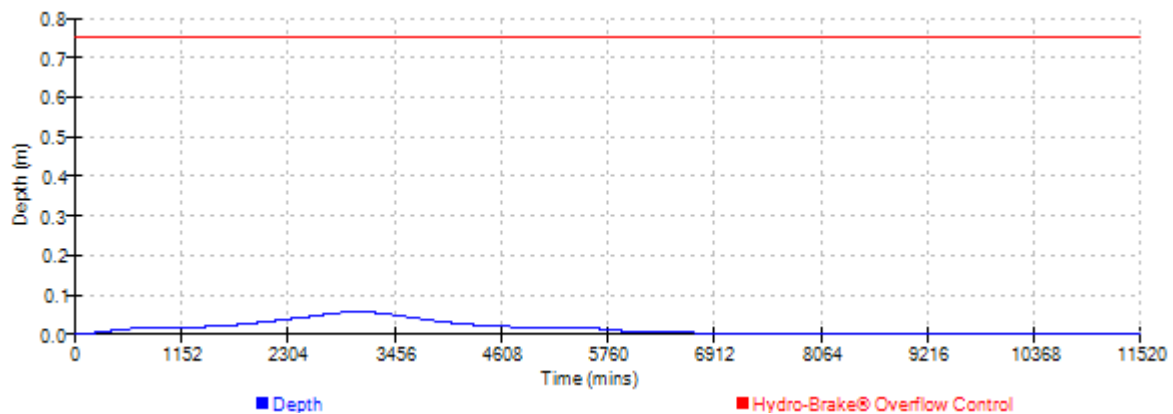
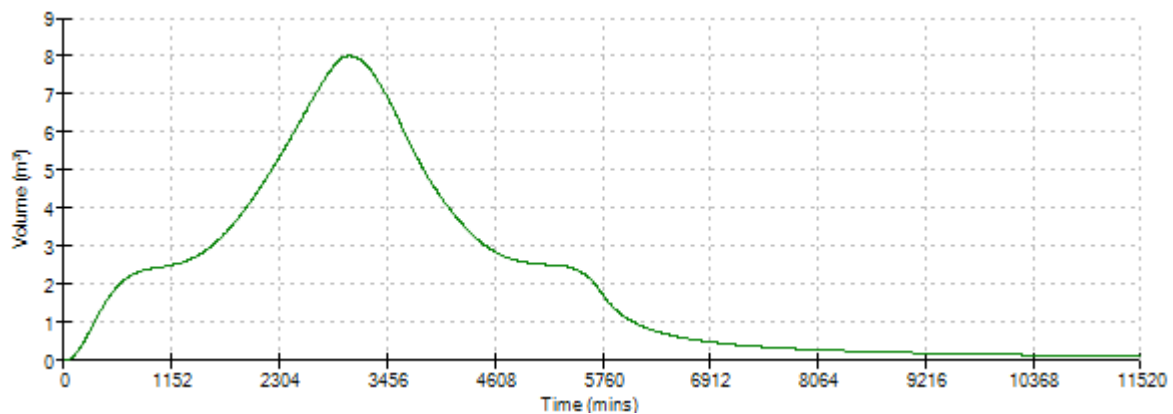
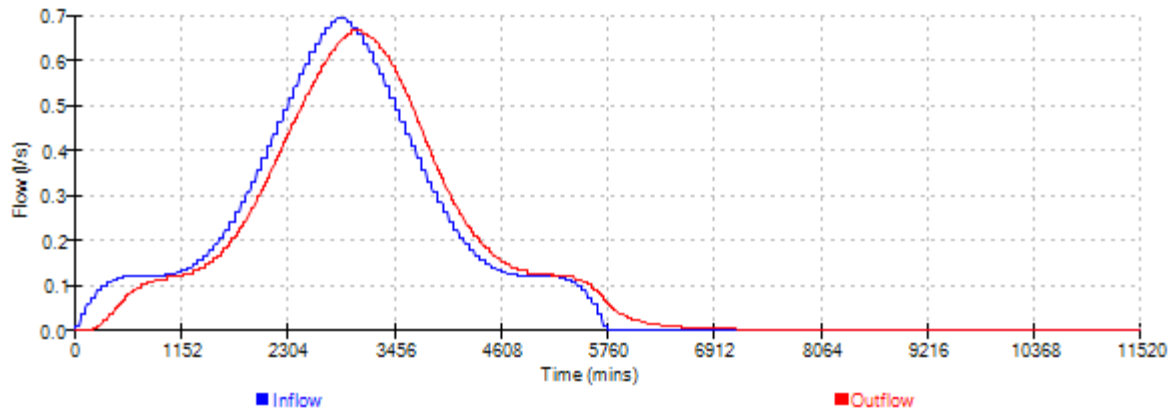
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55 Shepherds Lane Dartford DA1 2NL		
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Event: 4320 min Winter



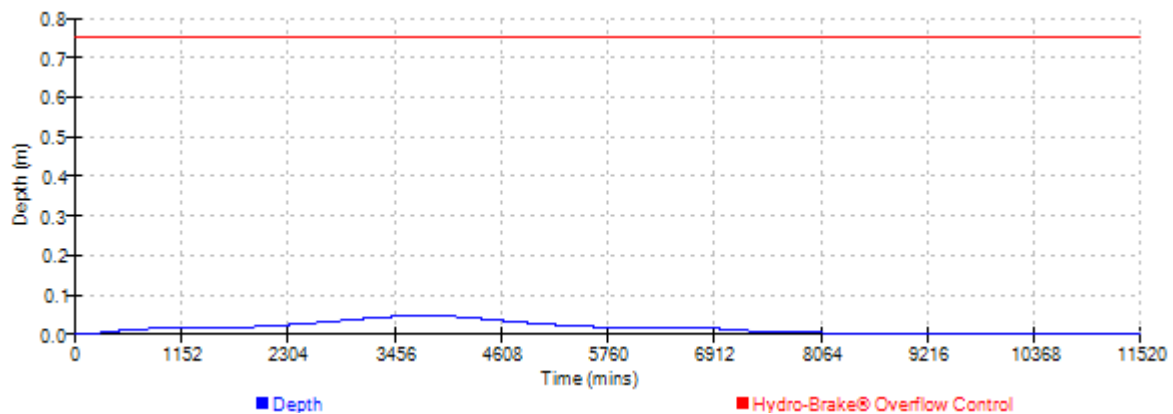
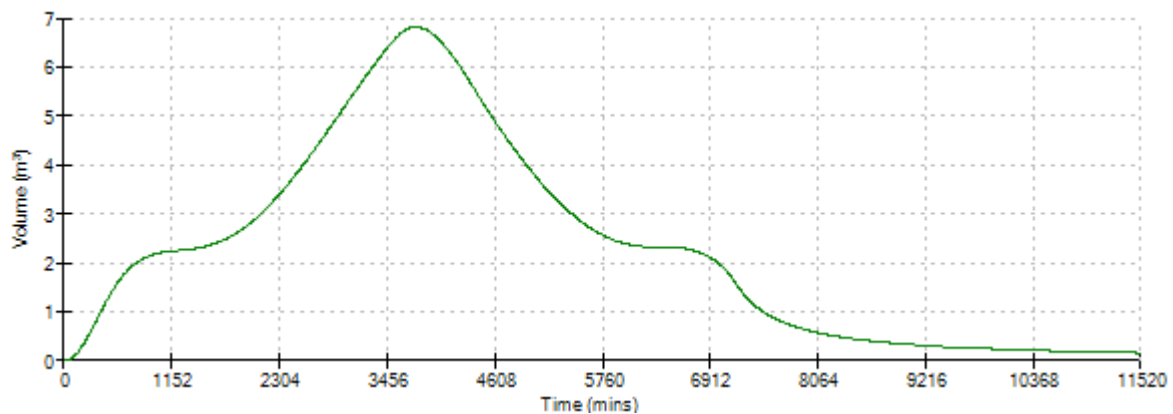
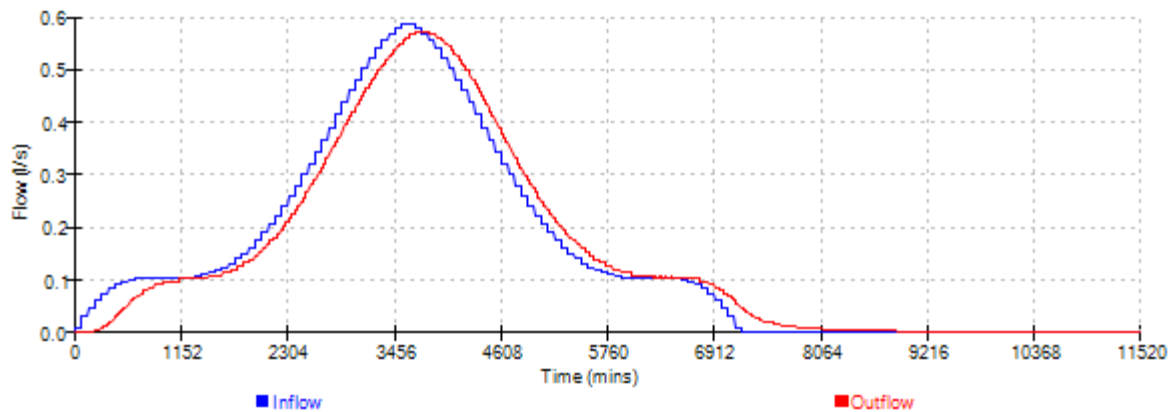
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55 Shepherds Lane Dartford DA1 2NL		
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Event: 5760 min Winter



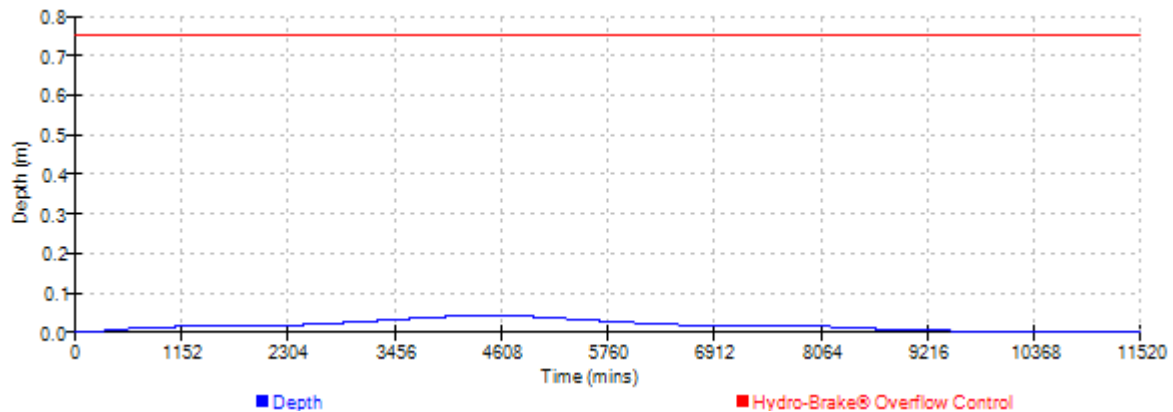
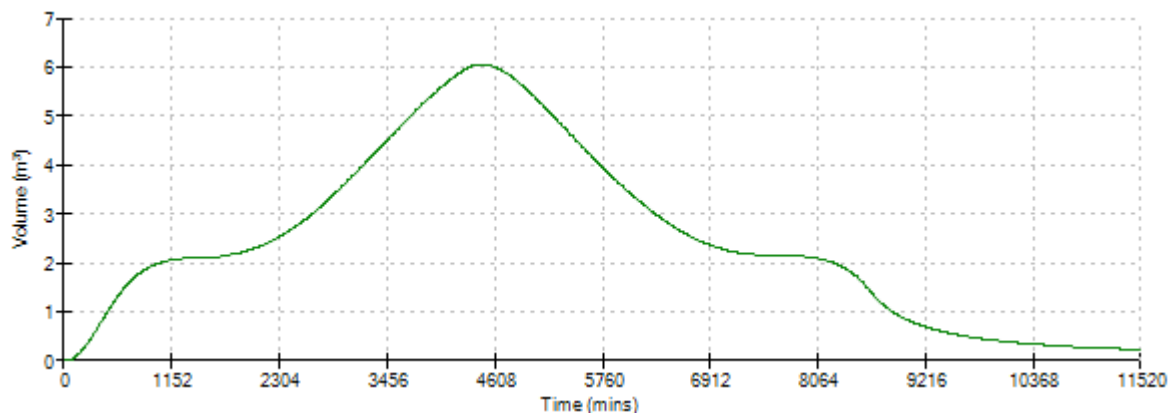
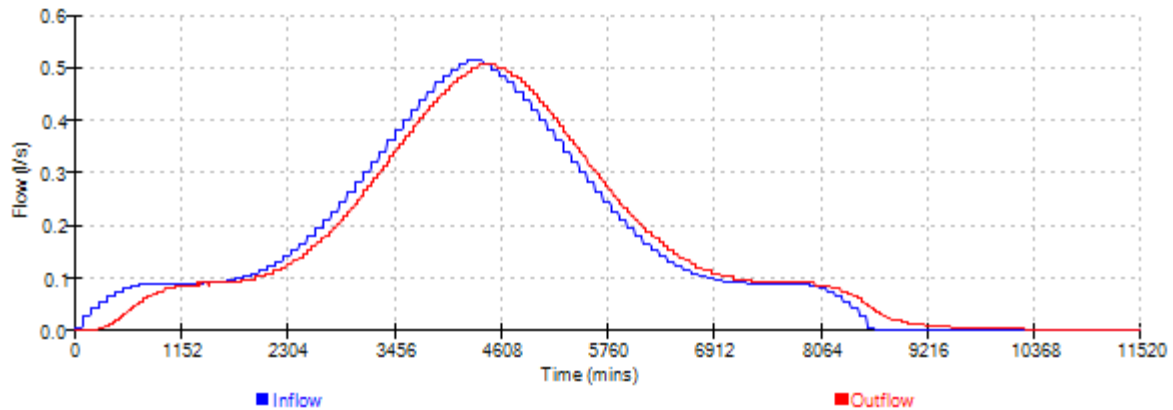
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55 Shepherds Lane Dartford DA1 2NL		
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Event: 7200 min Winter



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Event: 8640 min Winter



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Event: 10080 min Winter

