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Date 14/12/2020 File	Designed by DPM Checked by				
Causeway	Source Control 2017.1.2				
<u>Cascade Summary of Results for 15104 Soakaway cascade Rev B.SRCX</u>					
Upstream Structures		Outflow To Overflow To			
15104 Permeable north cascade Rev B.SRCX		(None) (None)			
15104 Permeable top cascade Rev B.SRCX					
15104 Permeable south cascade Rev B.SRCX					
Half Drain Time : 762 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	23.529	0.529	4.9	150.7	O K
30 min Summer	23.752	0.752	5.2	214.4	O K
60 min Summer	24.000	1.000	5.4	285.0	O K
120 min Summer	24.532	1.532	5.7	355.1	O K
180 min Summer	24.632	1.632	5.8	396.9	O K
240 min Summer	24.681	1.681	5.8	418.1	O K
360 min Summer	24.729	1.729	5.9	439.4	O K
480 min Summer	24.744	1.744	5.9	446.0	O K
600 min Summer	24.745	1.745	5.9	446.3	O K
720 min Summer	24.742	1.742	5.9	444.9	O K
960 min Summer	24.726	1.726	5.9	438.0	O K
1440 min Summer	24.682	1.682	5.9	418.8	O K
2160 min Summer	24.609	1.609	5.8	387.2	O K
2880 min Summer	24.535	1.535	5.7	356.2	O K
4320 min Summer	24.044	1.044	5.5	297.6	O K
5760 min Summer	23.861	0.861	5.3	245.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	127.747	0.0	60		
30 min Summer	86.691	0.0	84		
60 min Summer	56.129	0.0	114		
120 min Summer	35.009	0.0	154		
180 min Summer	26.112	0.0	190		
240 min Summer	21.070	0.0	246		
360 min Summer	15.587	0.0	366		
480 min Summer	12.563	0.0	484		
600 min Summer	10.618	0.0	578		
720 min Summer	9.248	0.0	626		
960 min Summer	7.430	0.0	754		
1440 min Summer	5.446	0.0	1014		
2160 min Summer	3.982	0.0	1432		
2880 min Summer	3.185	0.0	1844		
4320 min Summer	2.319	0.0	2640		
5760 min Summer	1.852	0.0	3408		
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Causeway		Source Control 2017.1.2			
<u>Cascade Summary of Results for 15104 Soakaway cascade Rev B.SRCX</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
7200 min Summer	23.701	0.701	5.1	199.8	O K
8640 min Summer	23.562	0.562	5.0	160.2	O K
10080 min Summer	23.444	0.444	4.9	126.5	O K
15 min Winter	23.606	0.606	5.0	172.8	O K
30 min Winter	23.850	0.850	5.3	242.3	O K
60 min Winter	24.125	1.125	5.5	320.6	O K
120 min Winter	24.650	1.650	5.8	404.8	O K
180 min Winter	24.757	1.757	5.9	451.8	O K
240 min Winter	24.815	1.815	6.0	478.0	O K
360 min Winter	24.874	1.874	6.1	505.4	O K
480 min Winter	24.901	1.901	6.1	518.0	O K
600 min Winter	24.910	1.910	6.1	522.2	O K
720 min Winter	24.907	1.907	6.1	521.0	O K
960 min Winter	24.885	1.885	6.1	510.3	O K
1440 min Winter	24.833	1.833	6.0	486.5	O K
2160 min Winter	24.732	1.732	5.9	440.7	O K
2880 min Winter	24.624	1.624	5.8	393.4	O K
4320 min Winter	24.069	1.069	5.5	304.5	O K
5760 min Winter	23.800	0.800	5.2	228.0	O K
7200 min Winter	23.574	0.574	5.0	163.5	O K
8640 min Winter	23.386	0.386	4.8	109.9	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
7200 min Summer	1.556	0.0	4176		
8640 min Summer	1.350	0.0	4920		
10080 min Summer	1.198	0.0	5640		
15 min Winter	127.747	0.0	66		
30 min Winter	86.691	0.0	91		
60 min Winter	56.129	0.0	122		
120 min Winter	35.009	0.0	162		
180 min Winter	26.112	0.0	198		
240 min Winter	21.070	0.0	242		
360 min Winter	15.587	0.0	356		
480 min Winter	12.563	0.0	470		
600 min Winter	10.618	0.0	580		
720 min Winter	9.248	0.0	688		
960 min Winter	7.430	0.0	804		
1440 min Winter	5.446	0.0	1088		
2160 min Winter	3.982	0.0	1556		
2880 min Winter	3.185	0.0	1992		
4320 min Winter	2.319	0.0	2816		
5760 min Winter	1.852	0.0	3632		
7200 min Winter	1.556	0.0	4392		
8640 min Winter	1.350	0.0	5096		
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Date 14/12/2020 File	Designed by DPM Checked by																					
Causeway		Source Control 2017.1.2																				
<u>Cascade Summary of Results for 15104 Soakaway cascade Rev B.SRCX</u> <table border="0"> <thead> <tr> <th>Storm Event</th> <th>Max Level (m)</th> <th>Max Depth (m)</th> <th>Max Infiltration (l/s)</th> <th>Max Volume (m³)</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>10080 min Winter</td> <td>23.234</td> <td>0.234</td> <td>4.6</td> <td>66.7</td> <td>O K</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th>Storm Event</th> <th>Rain (mm/hr)</th> <th>Flooded Volume (m³)</th> <th>Time-Peak (mins)</th> </tr> </thead> <tbody> <tr> <td>10080 min Winter</td> <td>1.198</td> <td>0.0</td> <td>5744</td> </tr> </tbody> </table>			Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status	10080 min Winter	23.234	0.234	4.6	66.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)	10080 min Winter	1.198	0.0	5744
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<u>Cascade Rainfall Details for 15104 Soakaway cascade Rev B.SRCX</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.800</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.330</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+40</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.243 <table> <thead> <tr> <th align="left" colspan="3">Time (mins) Area</th> <th align="left" colspan="3">Time (mins) Area</th> </tr> <tr> <th align="left">From:</th> <th align="left">To:</th> <th align="left">(ha)</th> <th align="left">From:</th> <th align="left">To:</th> <th align="left">(ha)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4</td> <td>0.000</td> <td>4</td> <td>8</td> <td>0.243</td> </tr> </tbody> </table>			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)	19.800	Shortest Storm (mins)	15	Ratio R	0.330	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+40	Time (mins) Area			Time (mins) Area			From:	To:	(ha)	From:	To:	(ha)	0	4	0.000	4	8	0.243
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Causeway Source Control 2017.1.2		

Cascade Model Details for 15104 Soakaway cascade Rev B.SRCX

Storage is Online Cover Level (m) 25.000

Cellular Storage Structure

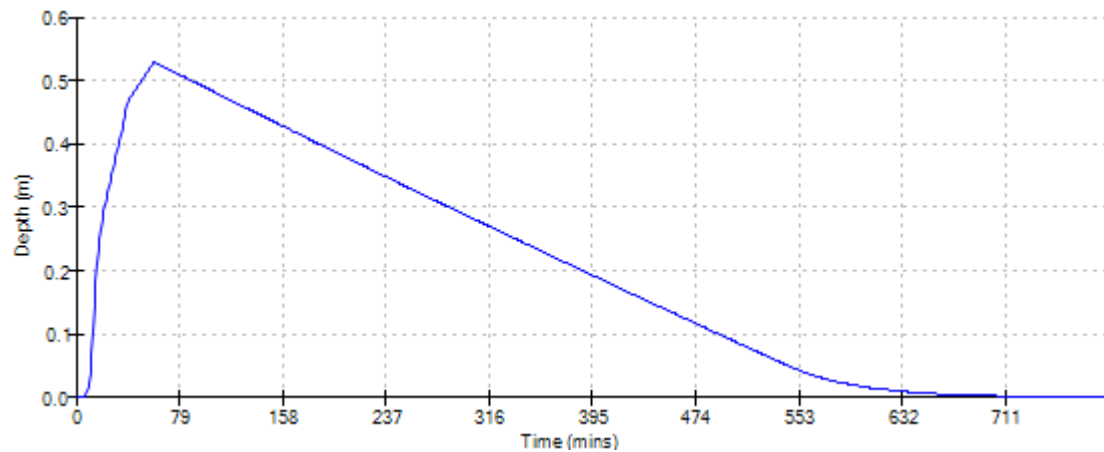
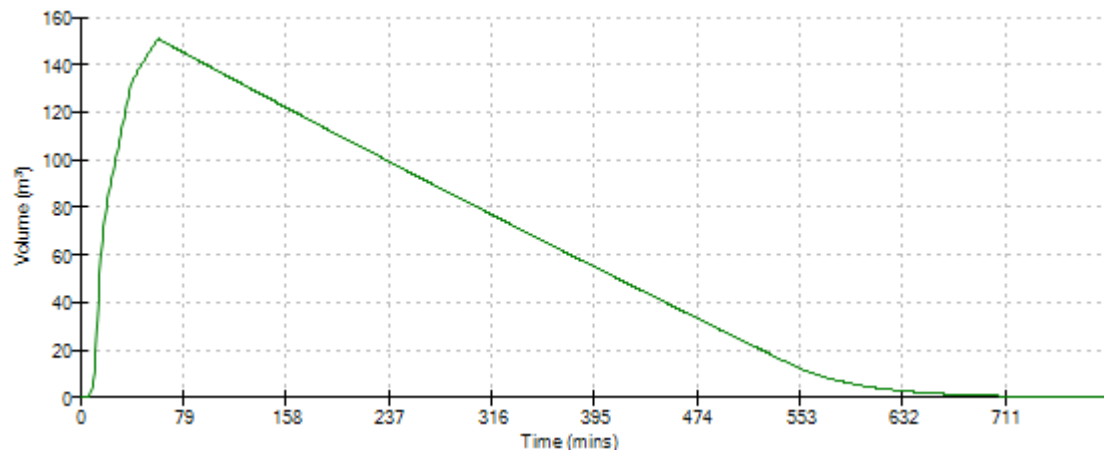
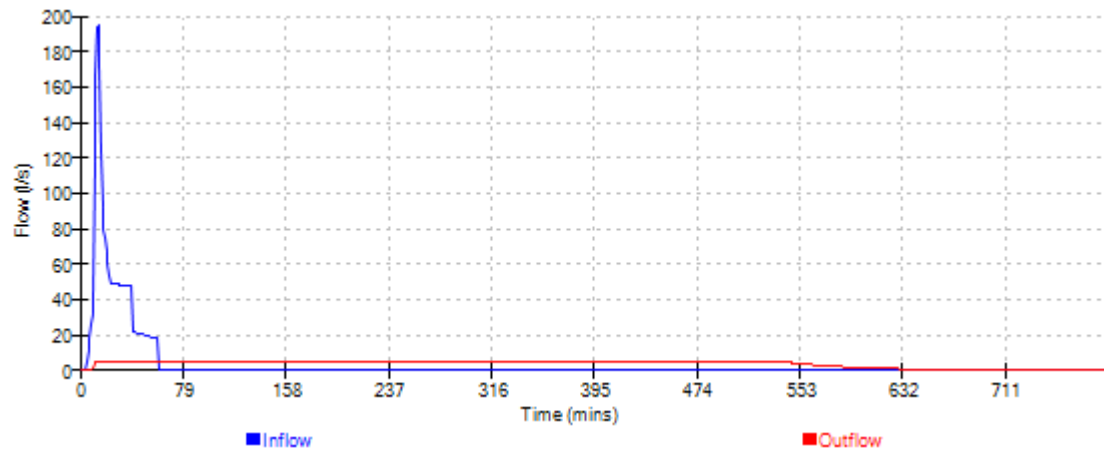
Invert Level (m) 23.000 Safety Factor 1.5
Infiltration Coefficient Base (m/hr) 0.07920 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.07920

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	300.0	300.0	1.500	0.0	383.2
1.200	300.0	383.1	1.501	429.0	383.2
1.201	0.0	383.2	2.000	515.0	426.5

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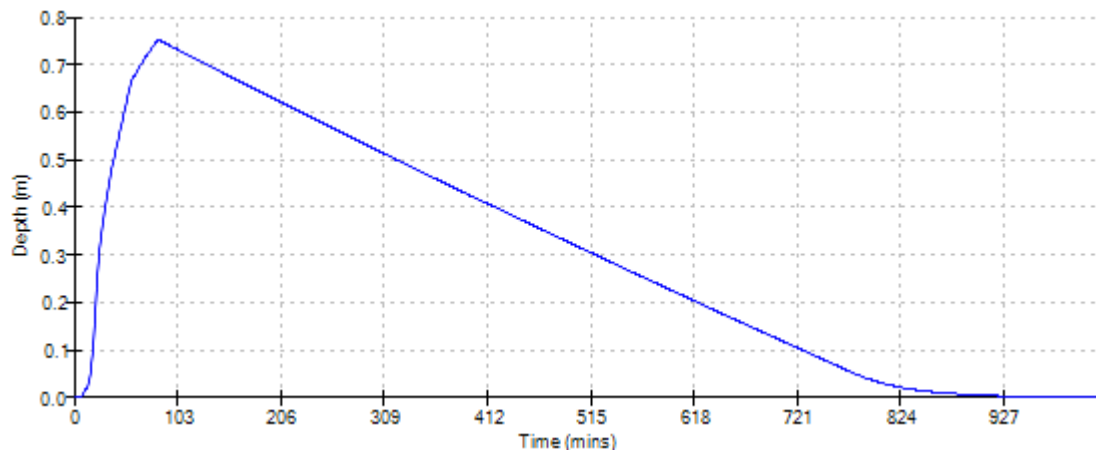
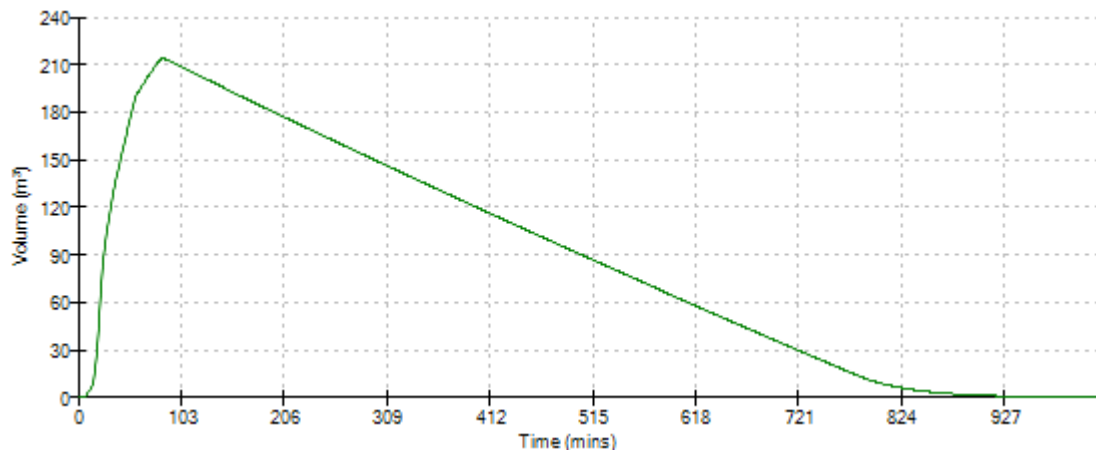
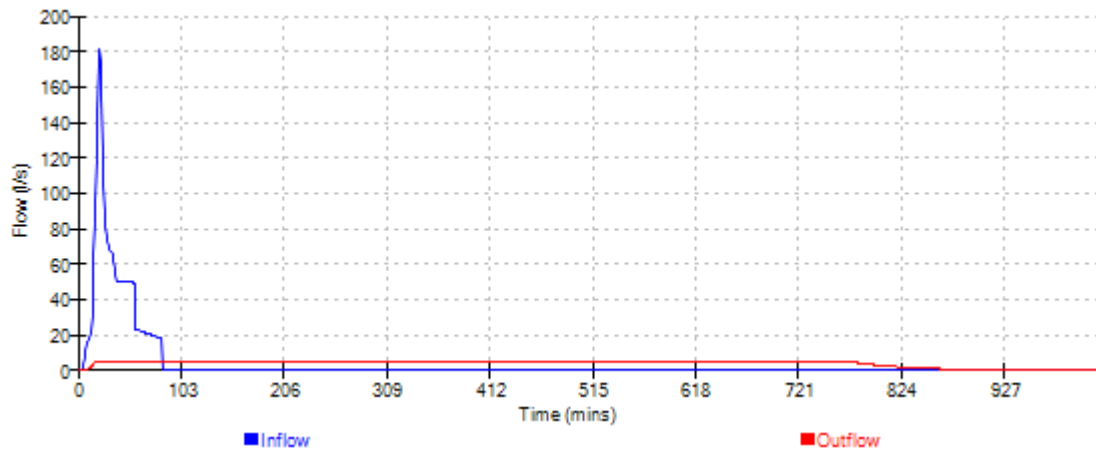
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Maidstone	Soakaway	
Kent ME14 1BQ	Rev B	
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Cascade Event: 15 min Summer for 15104 Soakaway cascade Rev B.SRCX



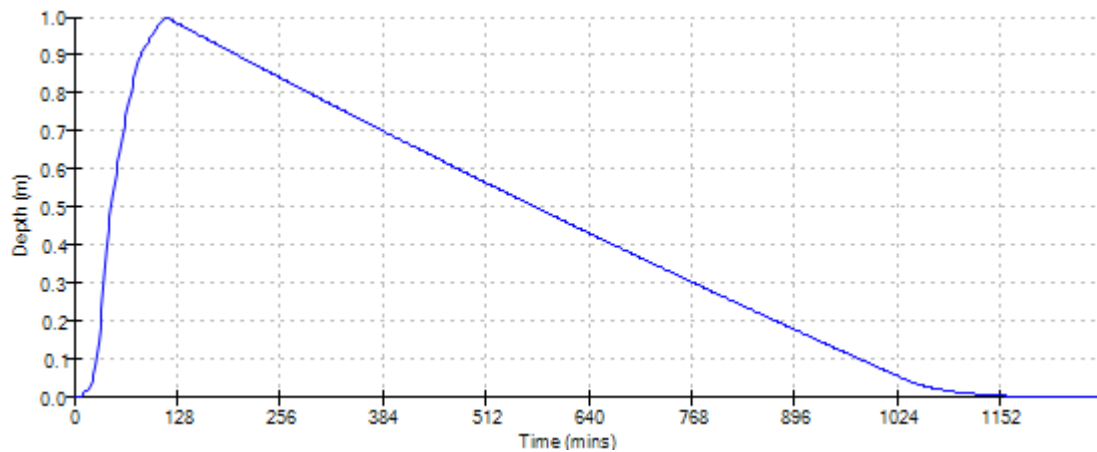
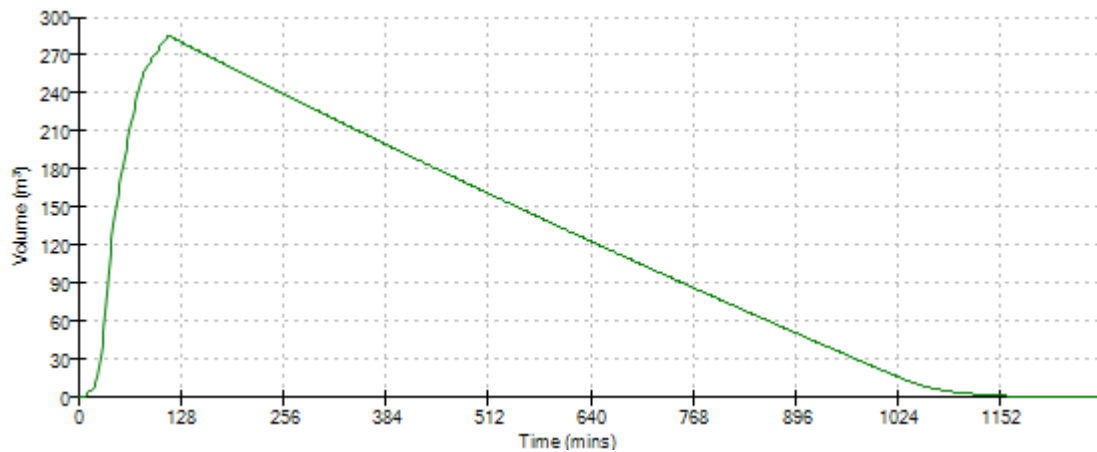
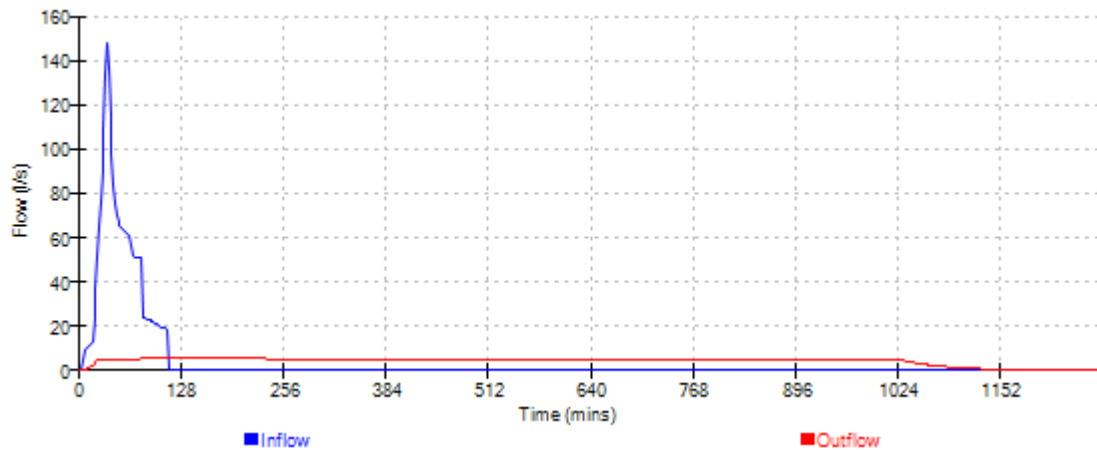
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Cascade Event: 30 min Summer for 15104 Soakaway cascade Rev B.SRCX



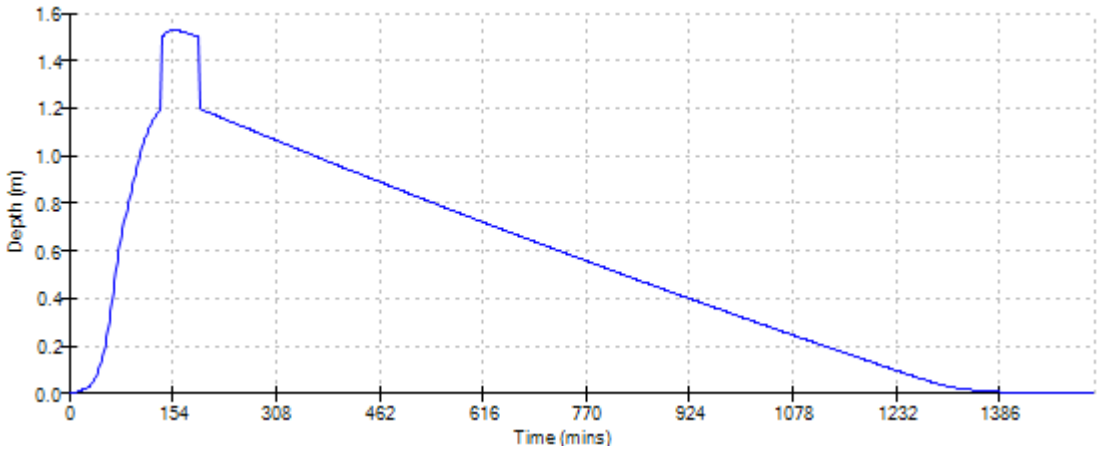
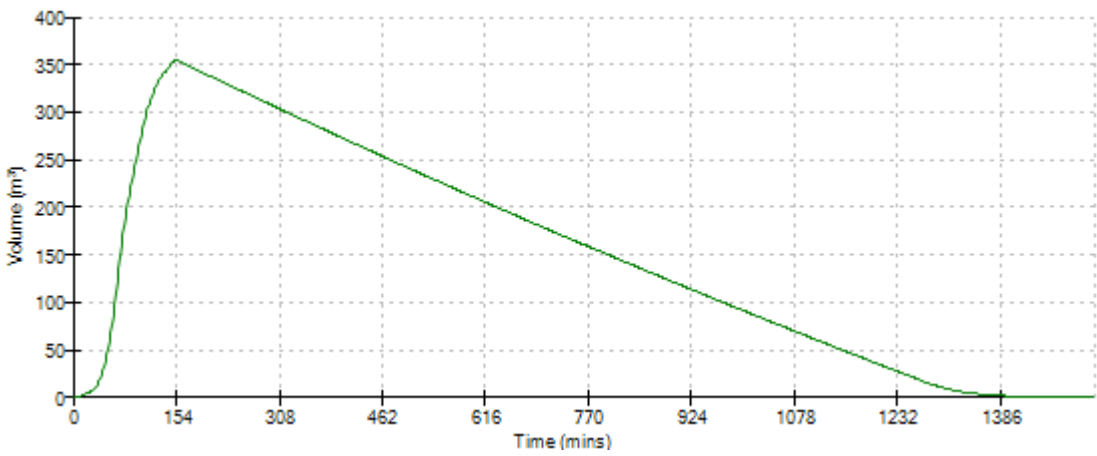
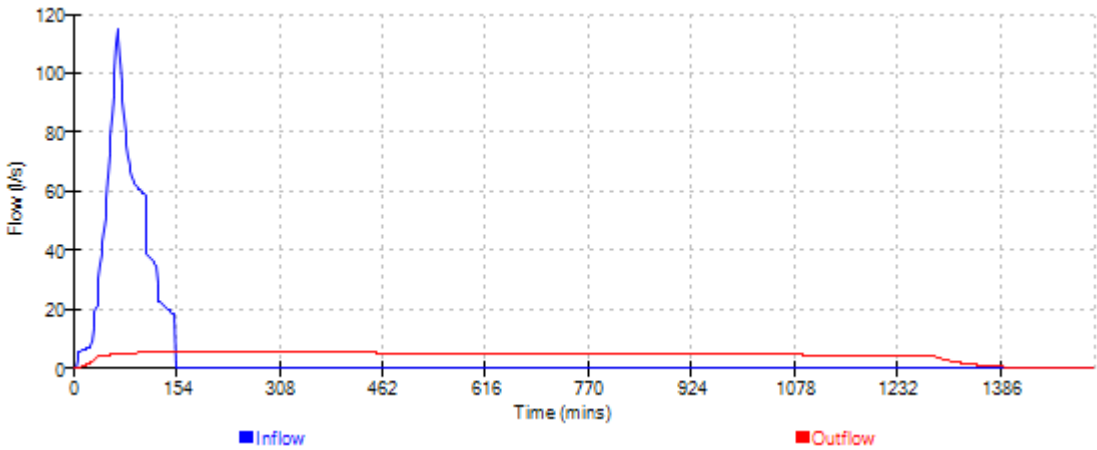
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Cascade Event: 60 min Summer for 15104 Soakaway cascade Rev B.SRCX



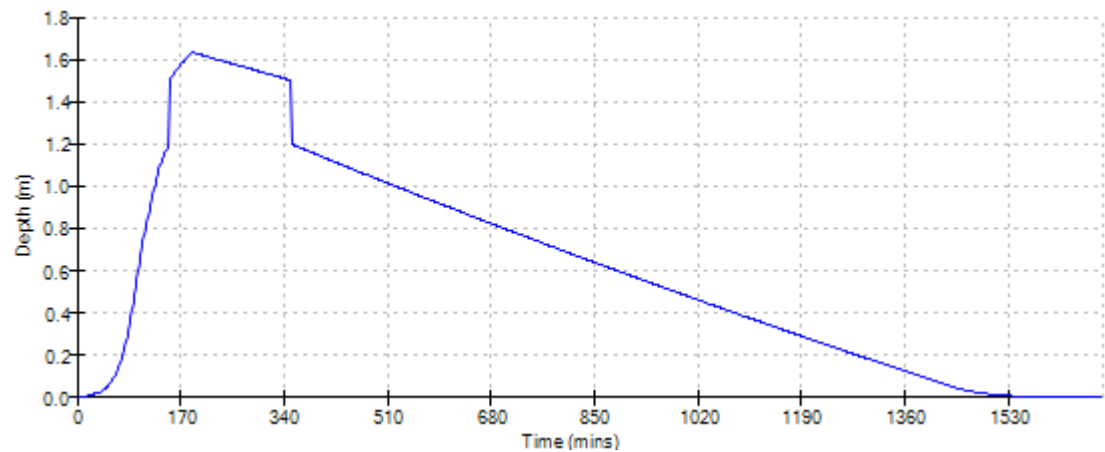
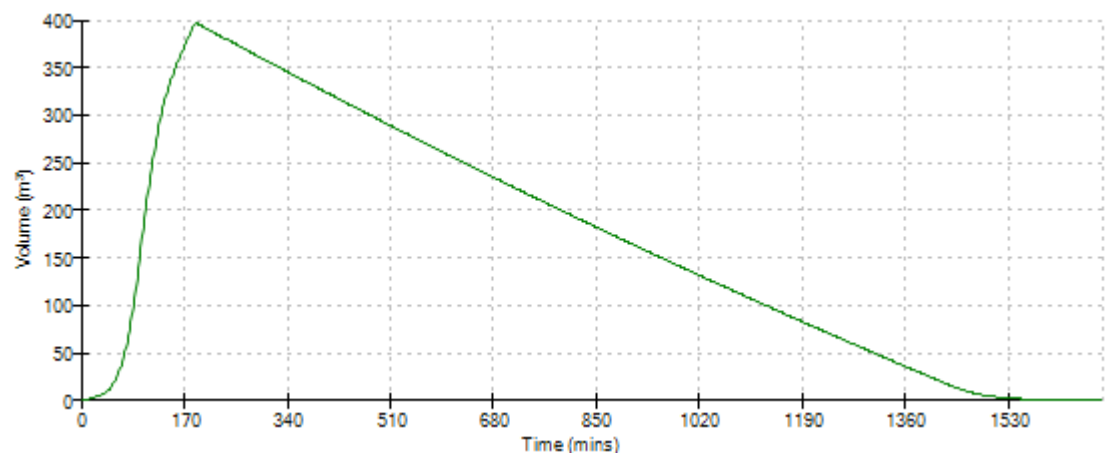
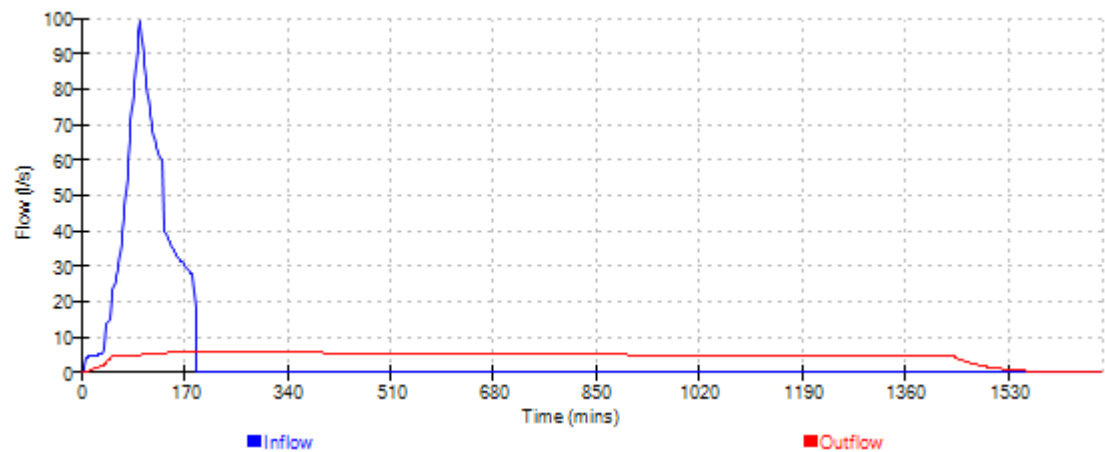
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Cascade Event: 120 min Summer for 15104 Soakaway cascade Rev B.SRCX



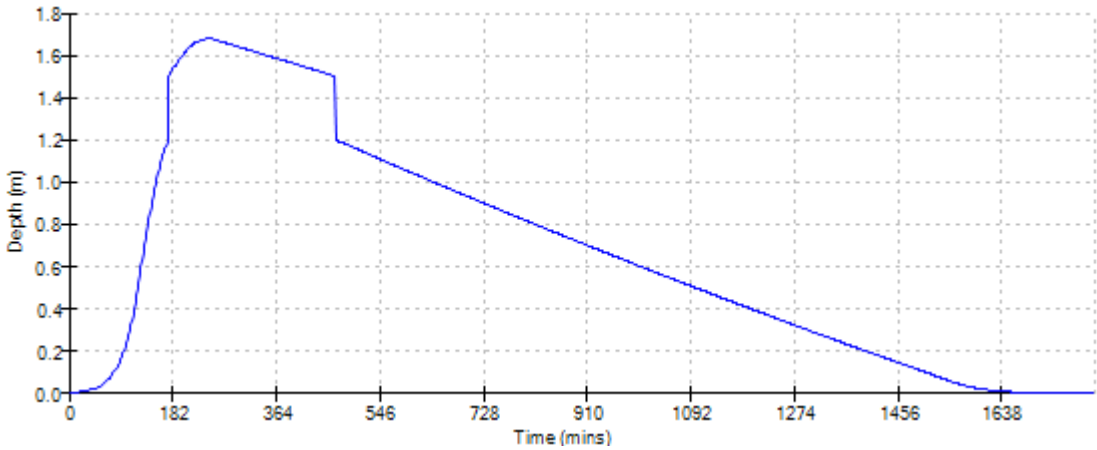
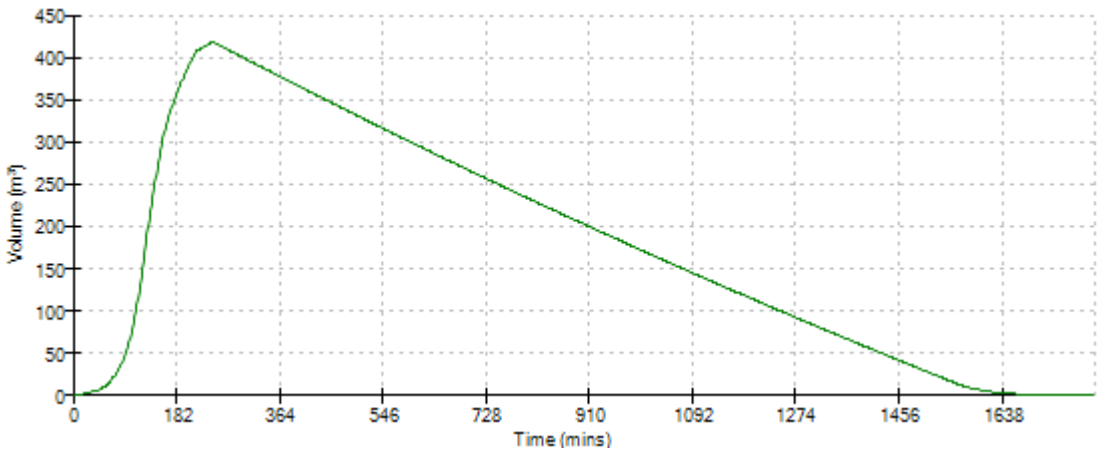
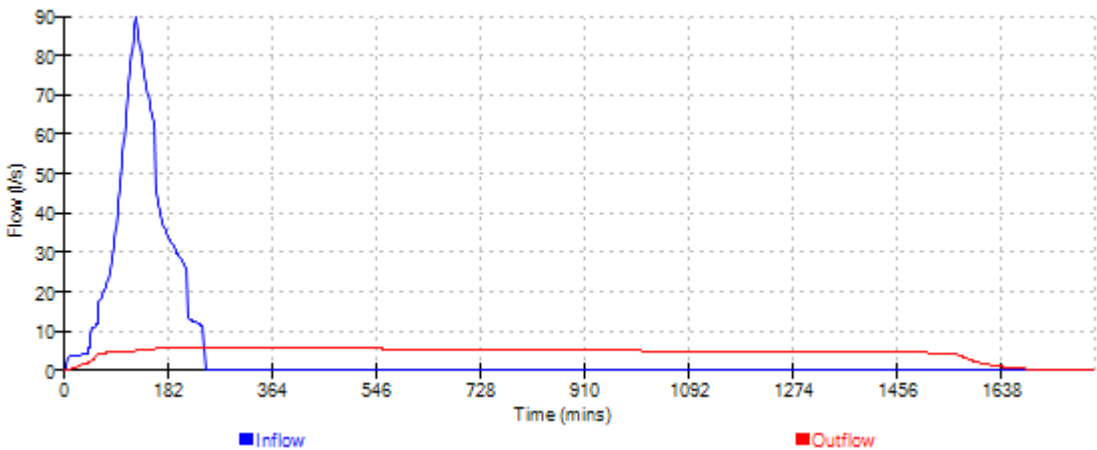
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Cascade Event: 180 min Summer for 15104 Soakaway cascade Rev B.SRCX



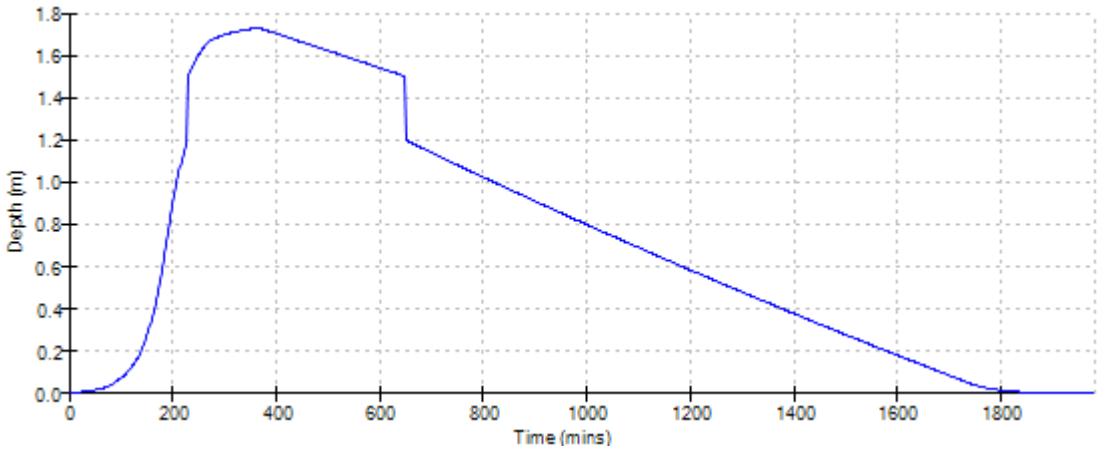
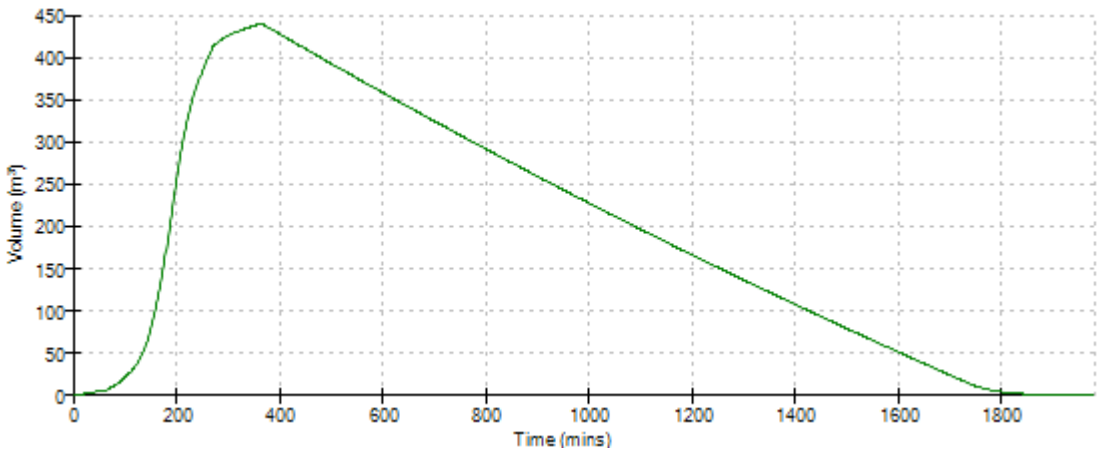
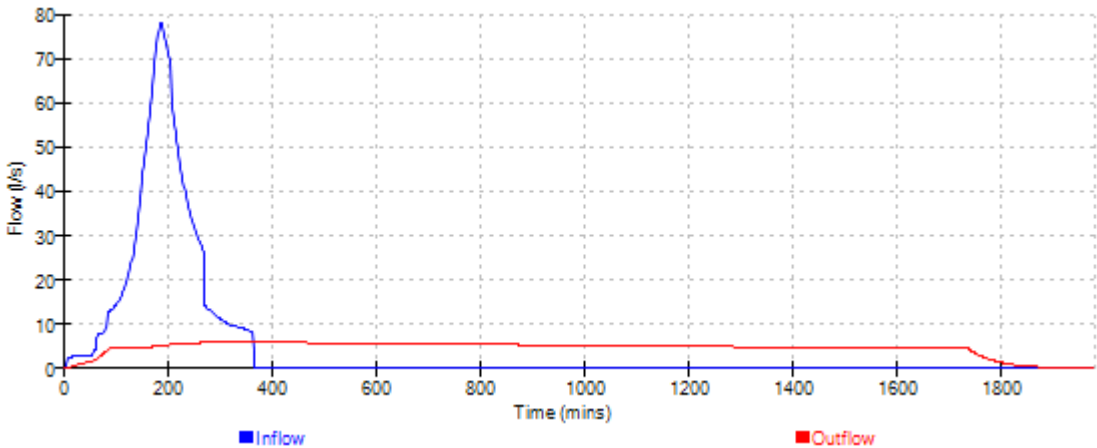
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Cascade Event: 240 min Summer for 15104 Soakaway cascade Rev B.SRCX



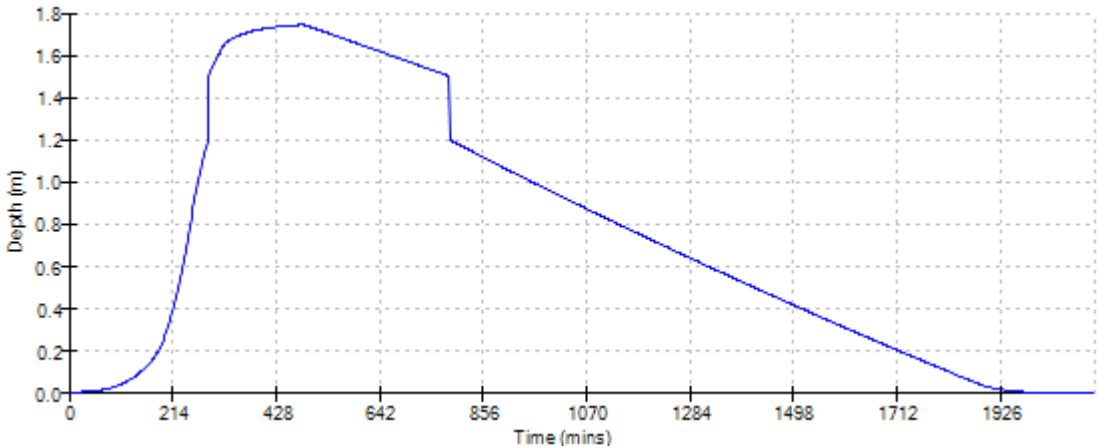
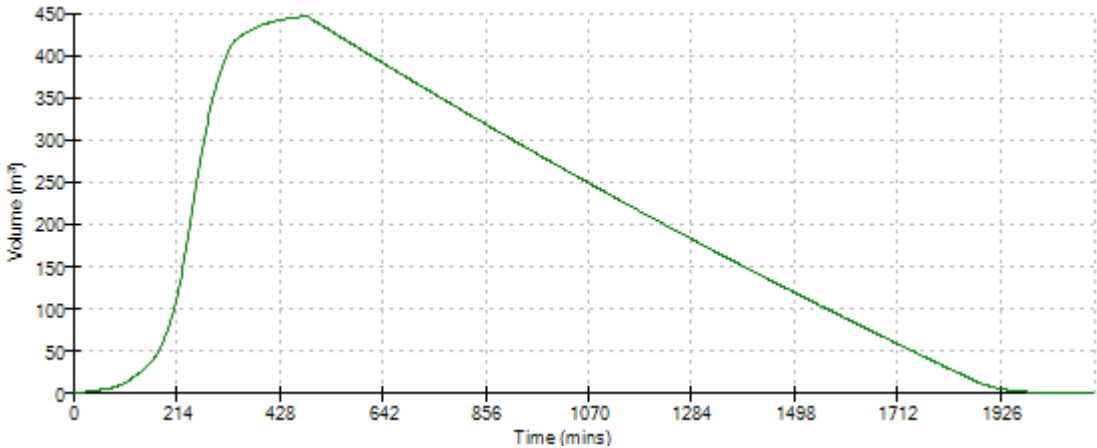
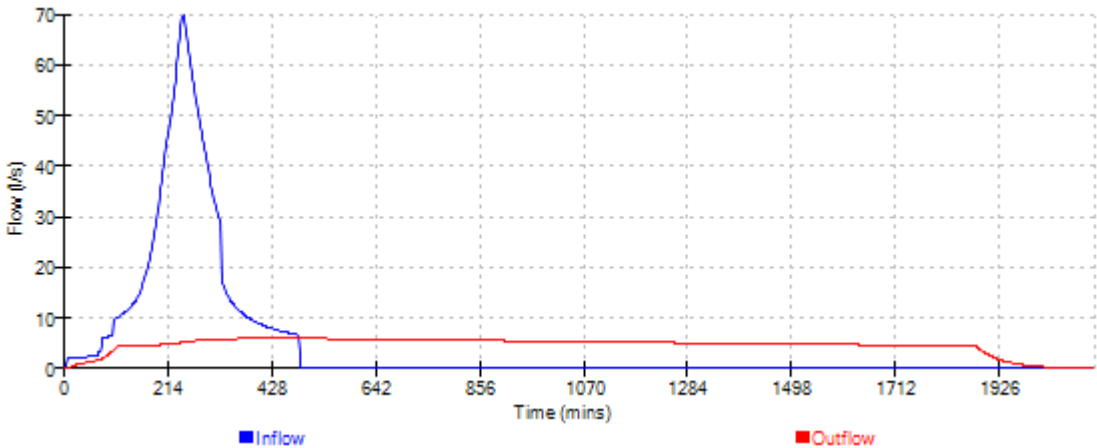
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Cascade Event: 360 min Summer for 15104 Soakaway cascade Rev B.SRCX



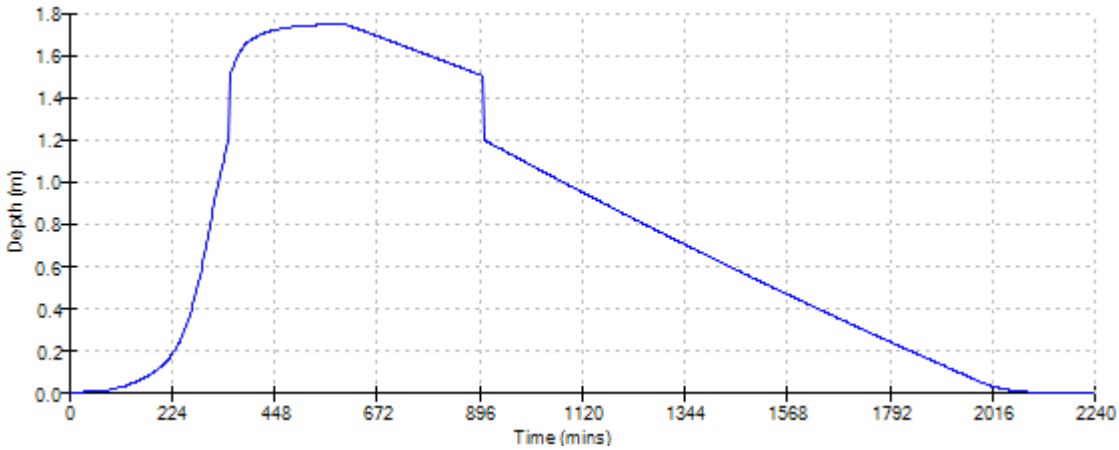
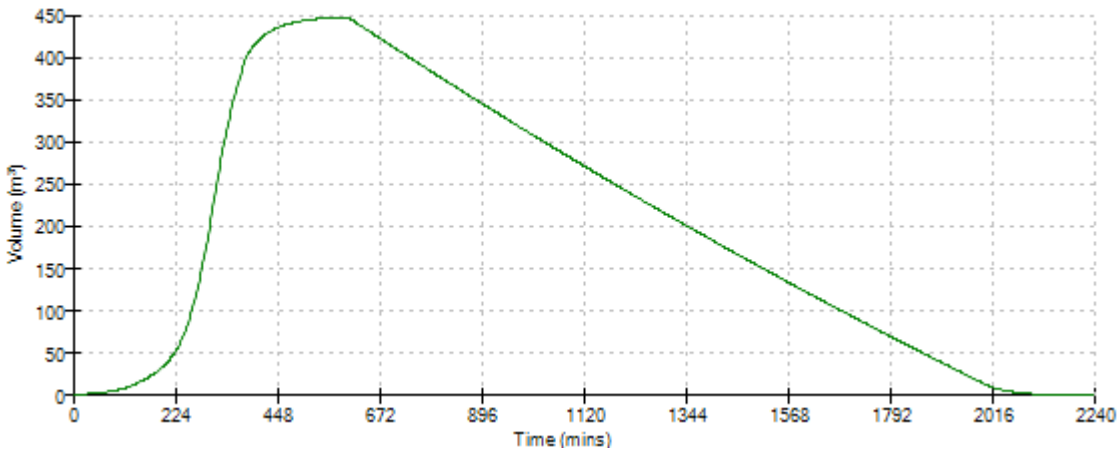
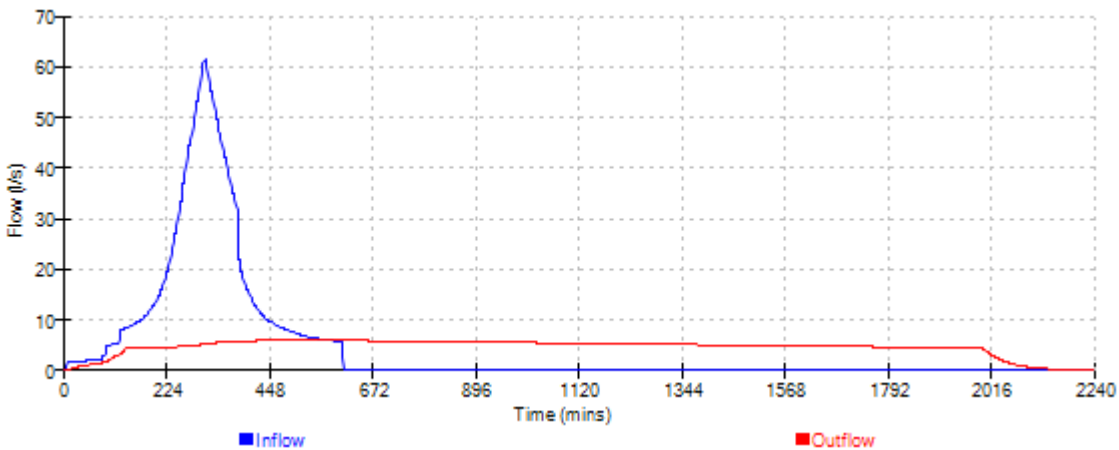
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Cascade Event: 480 min Summer for 15104 Soakaway cascade Rev B.SRCX



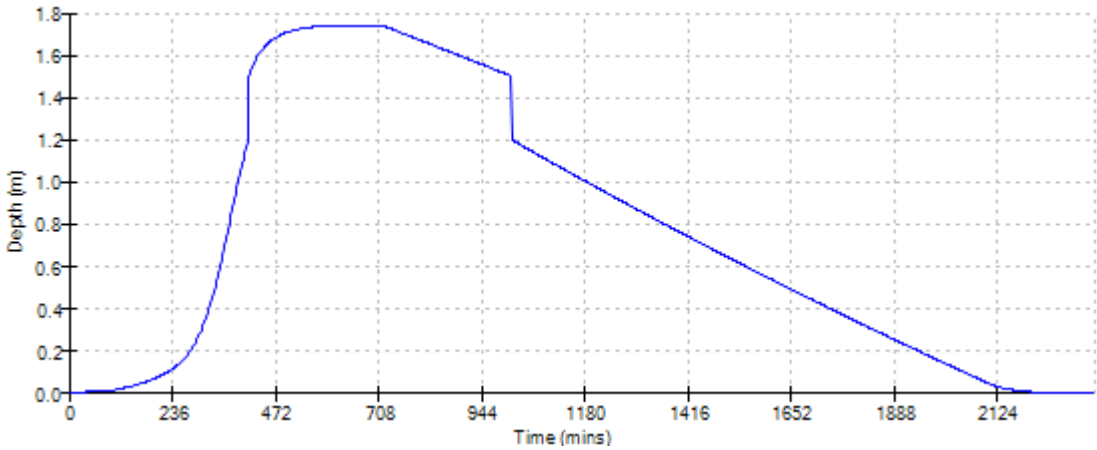
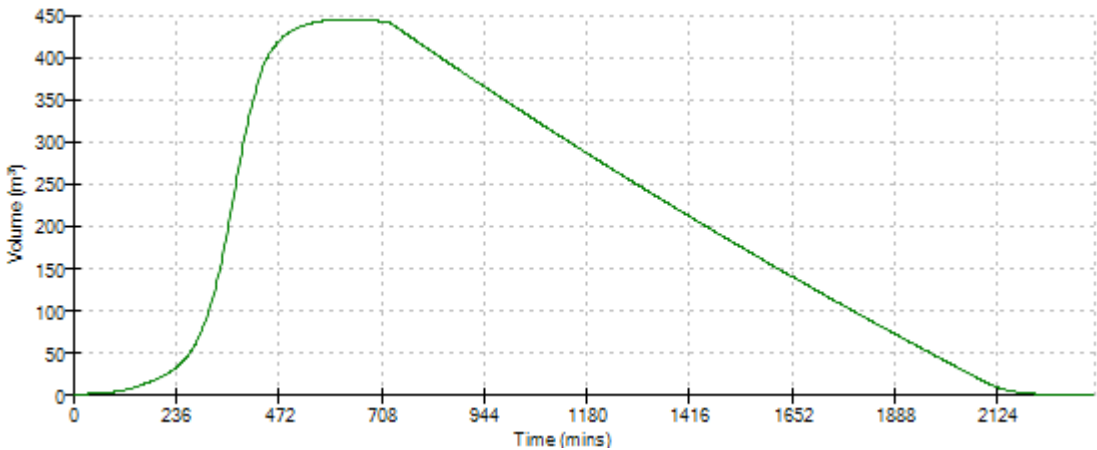
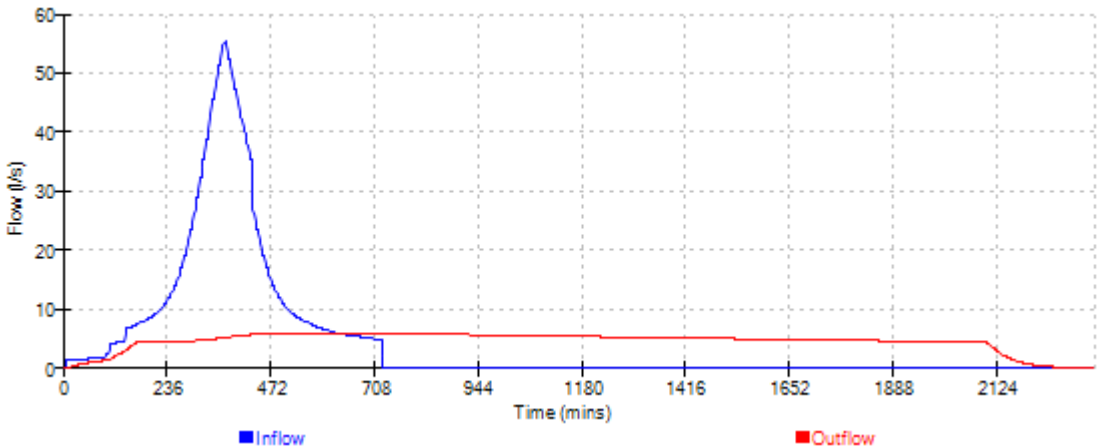
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Cascade Event: 600 min Summer for 15104 Soakaway cascade Rev B.SRCX



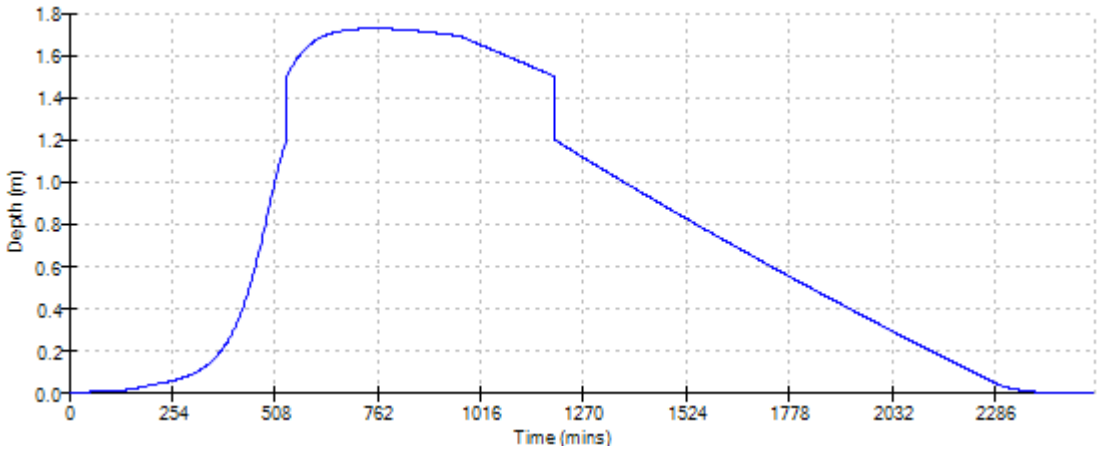
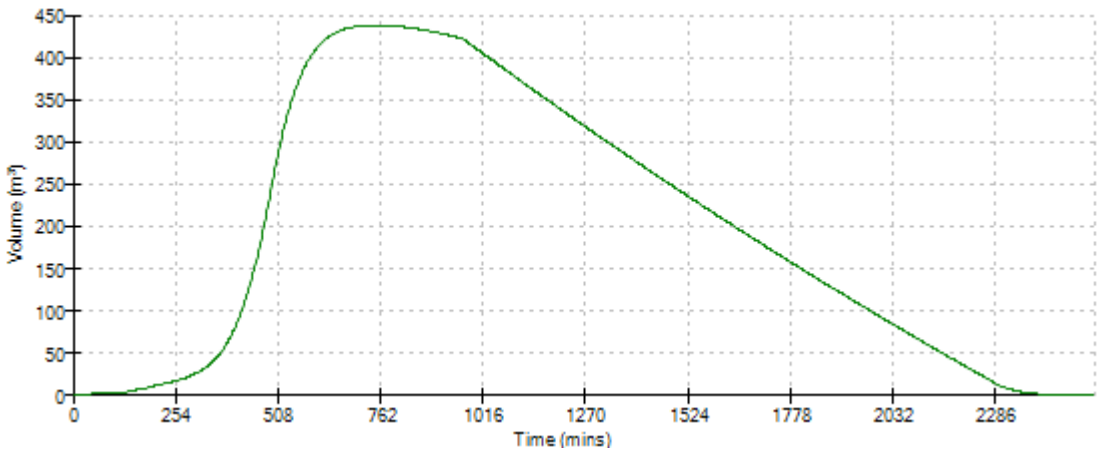
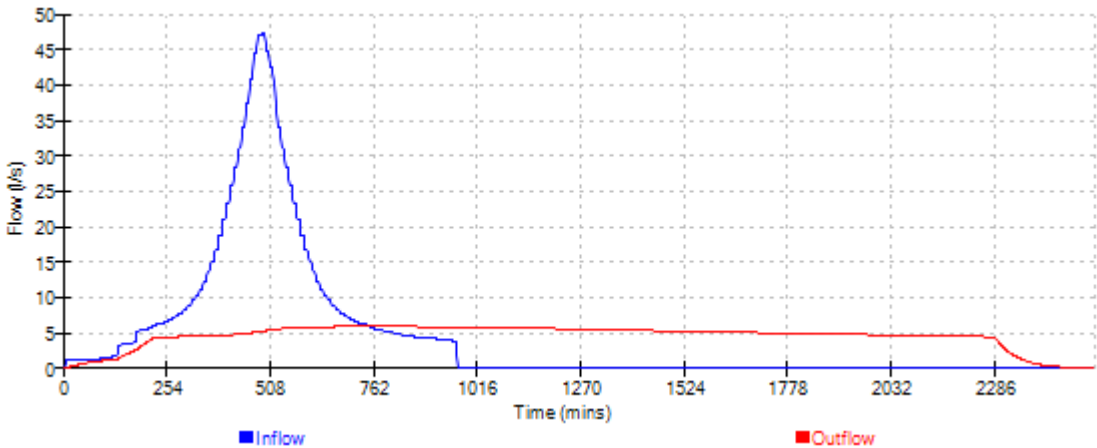
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Cascade Event: 720 min Summer for 15104 Soakaway cascade Rev B.SRCX



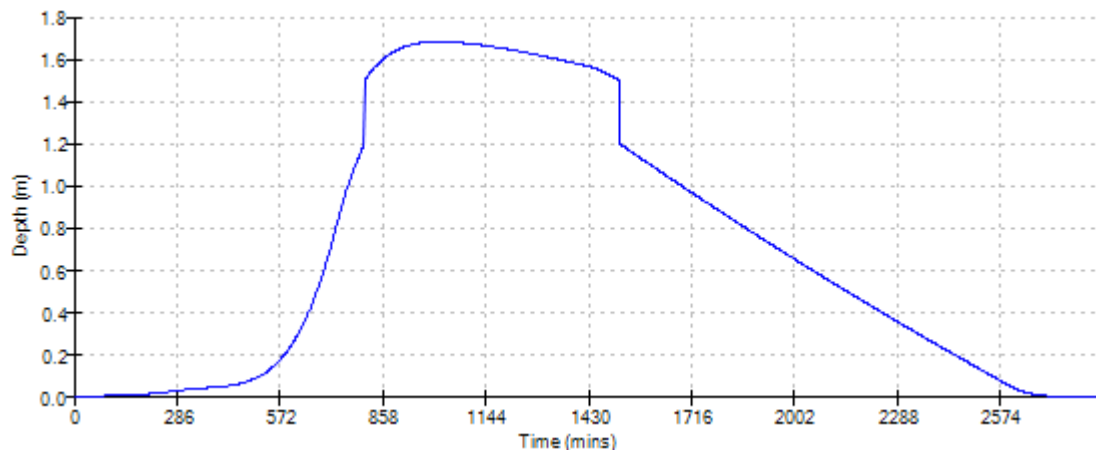
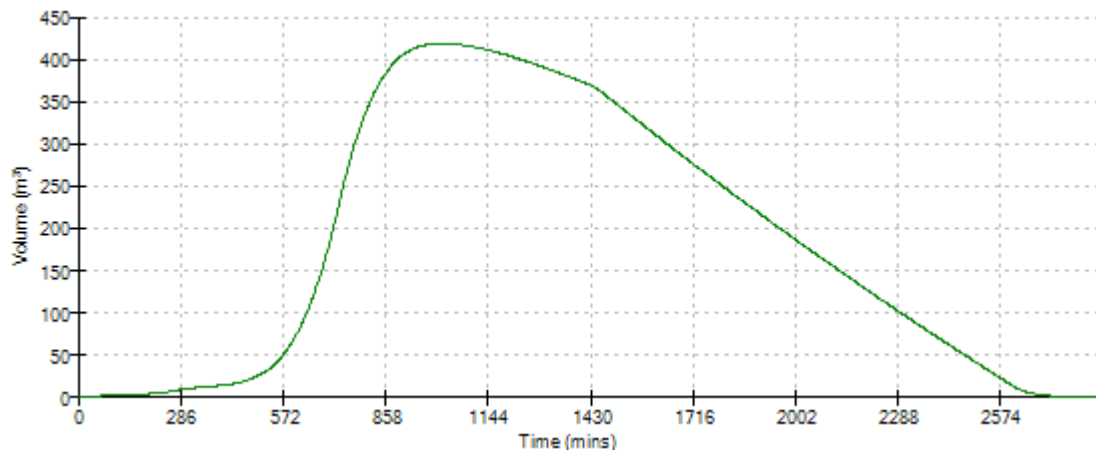
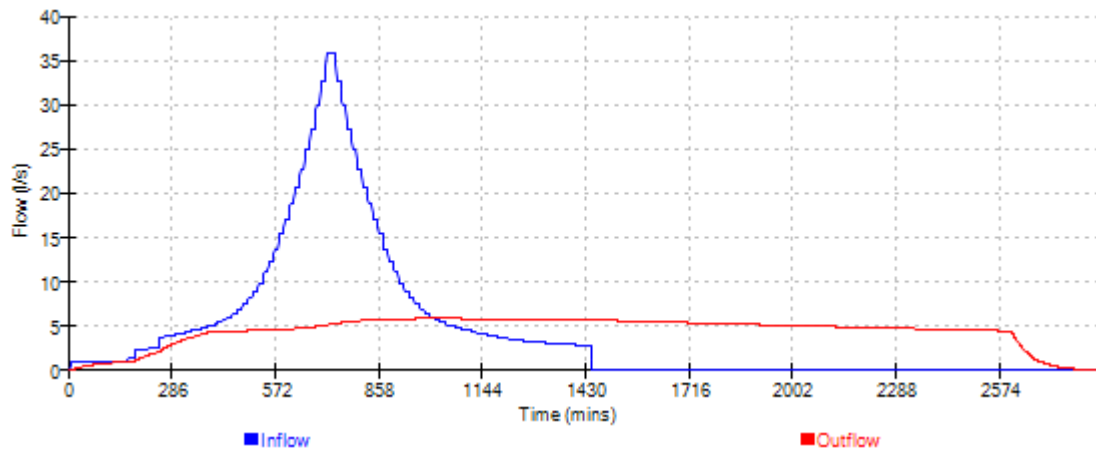
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Cascade Event: 960 min Summer for 15104 Soakaway cascade Rev B.SRCX



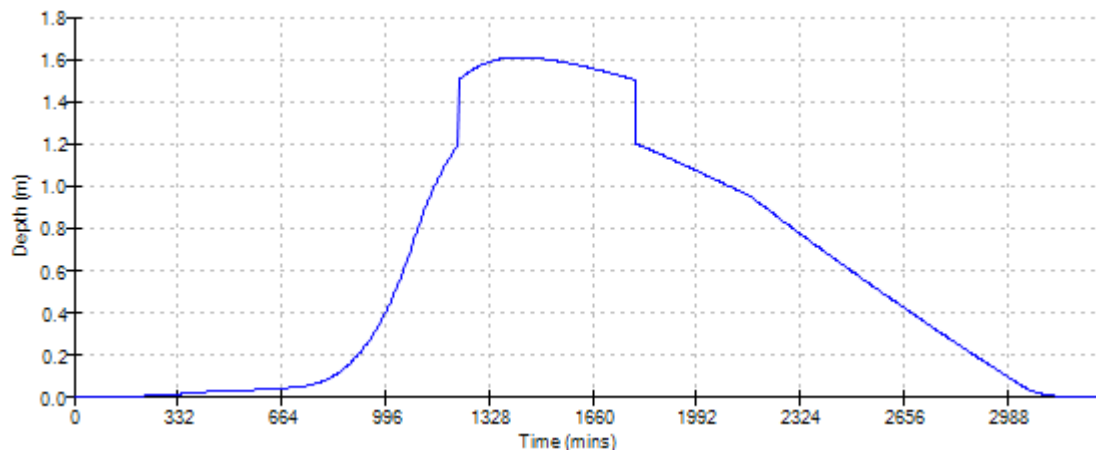
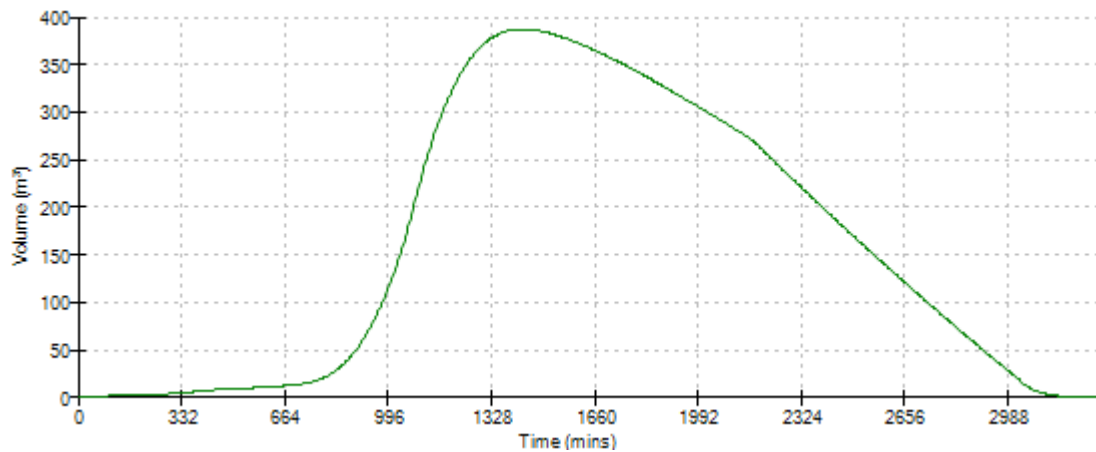
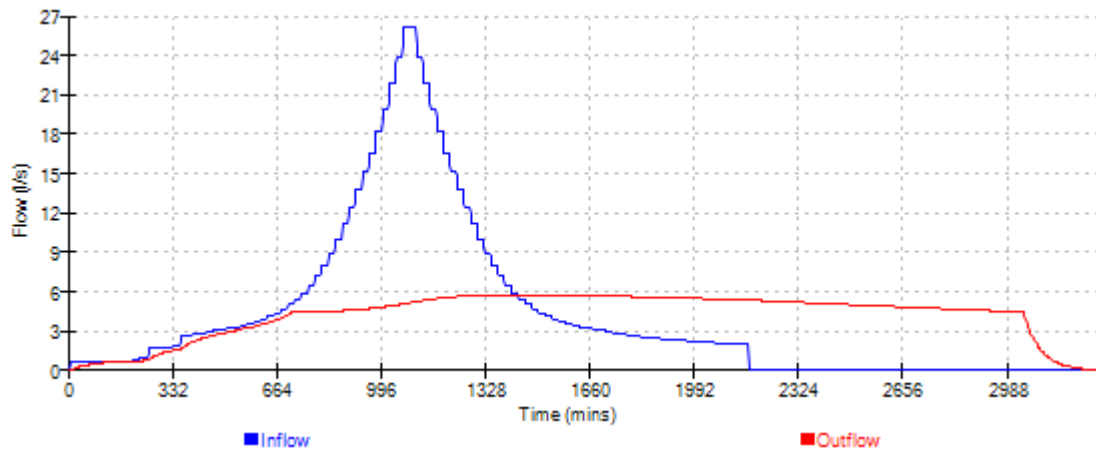
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
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Causeway		Source Control 2017.1.2

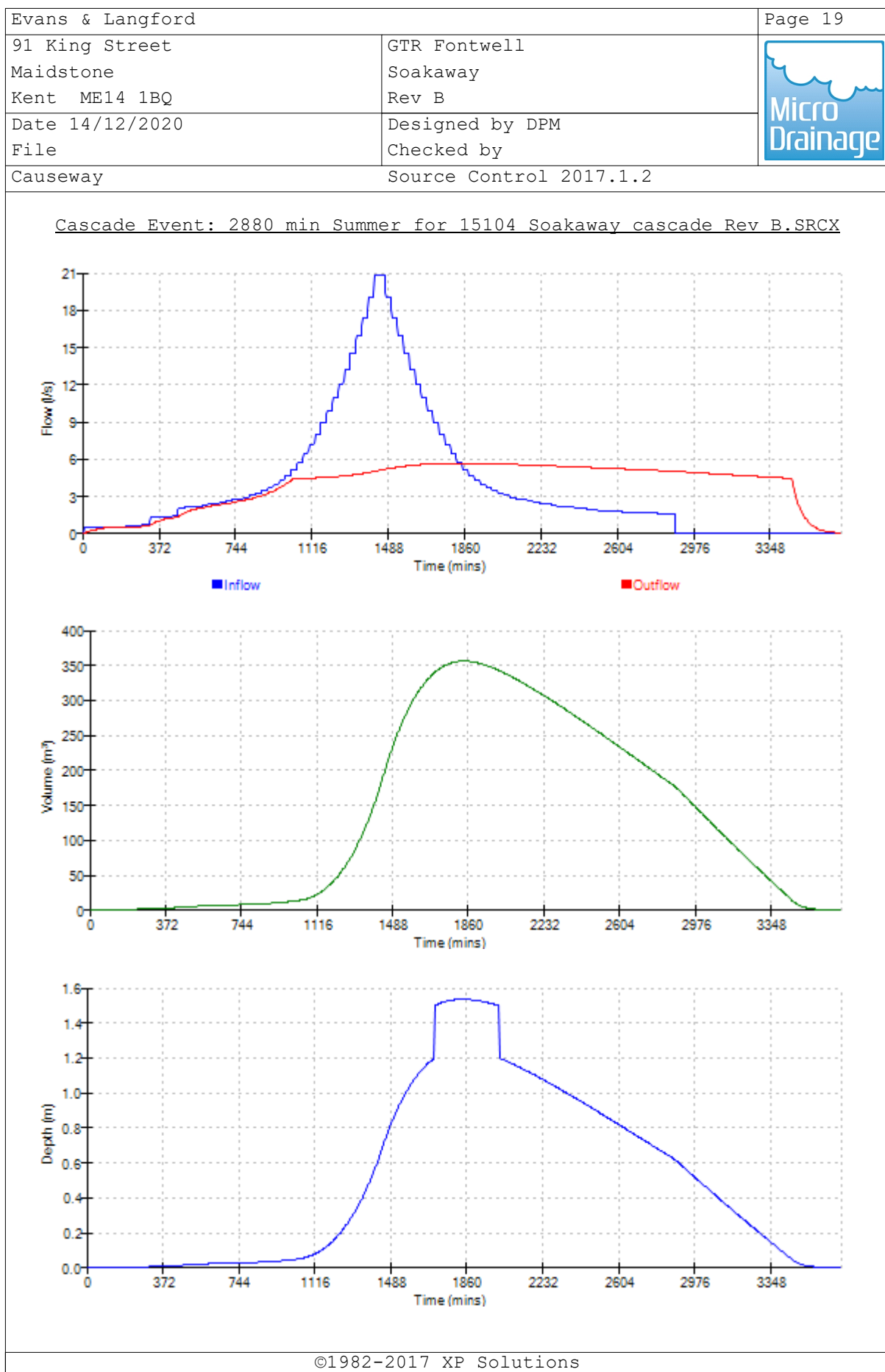
Cascade Event: 1440 min Summer for 15104 Soakaway cascade Rev B.SRCX



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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

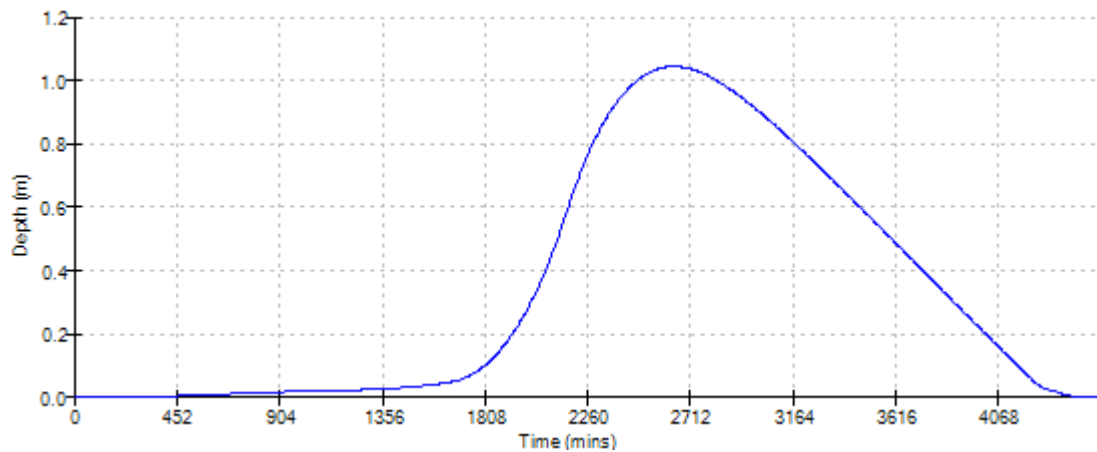
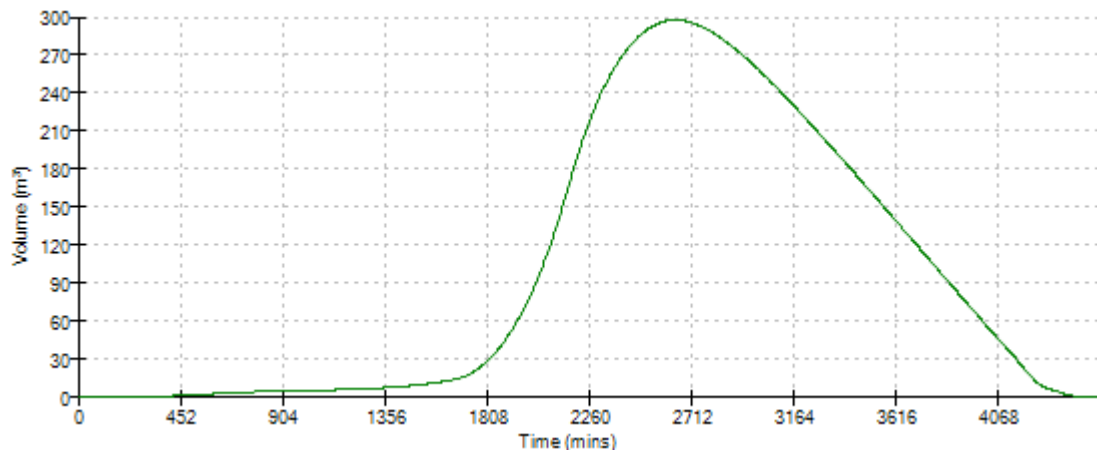
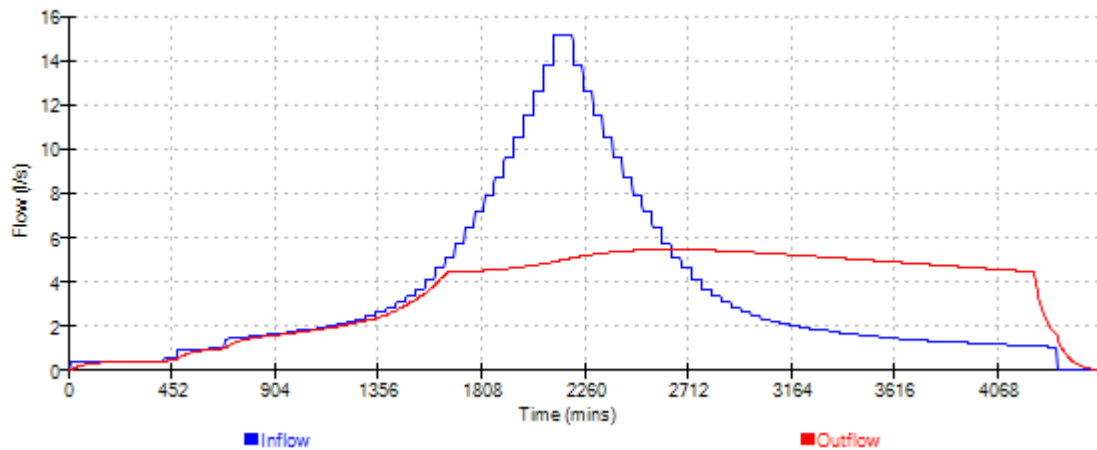
Cascade Event: 2160 min Summer for 15104 Soakaway cascade Rev B.SRCX





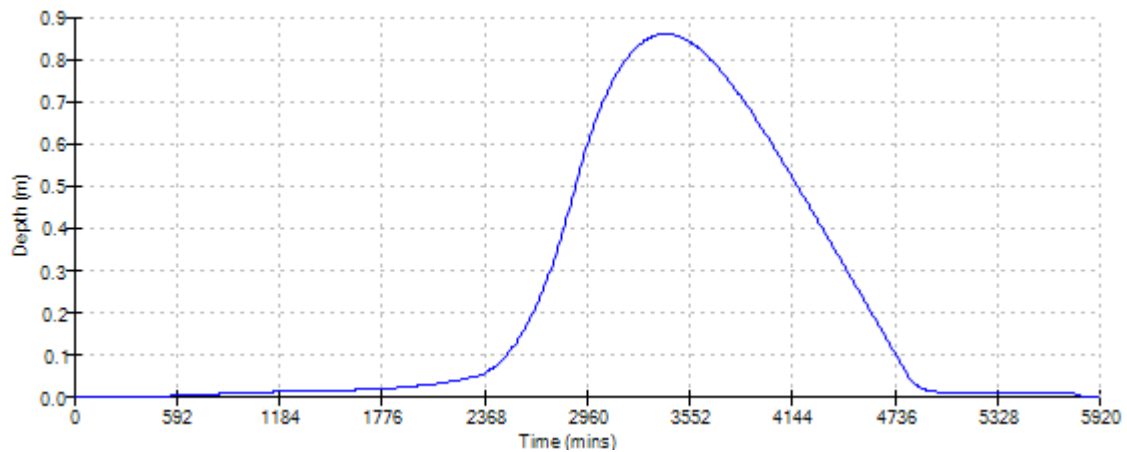
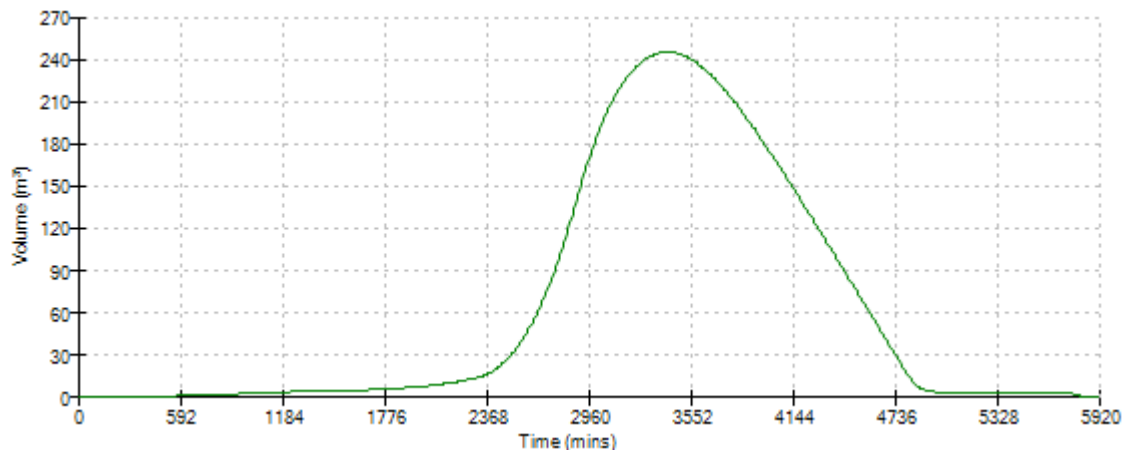
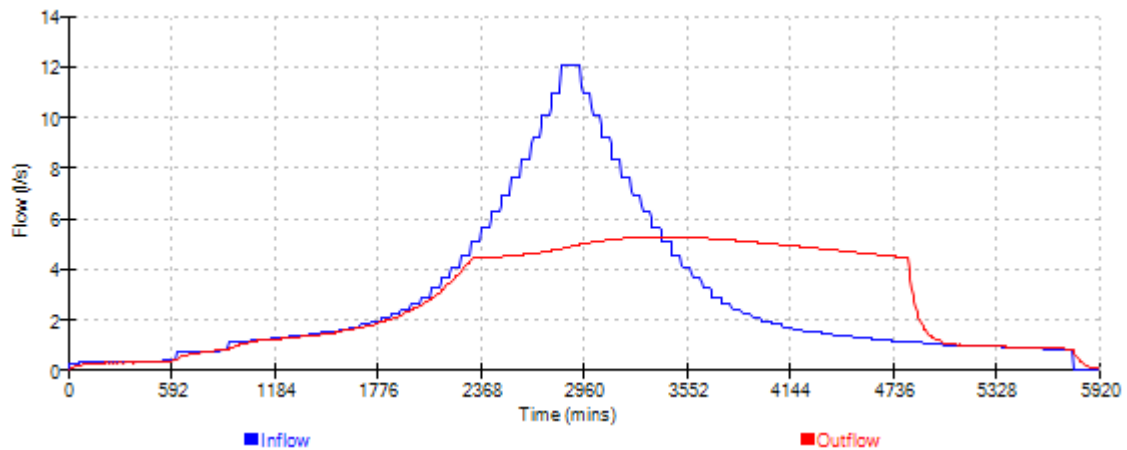
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway	Source Control 2017.1.2	

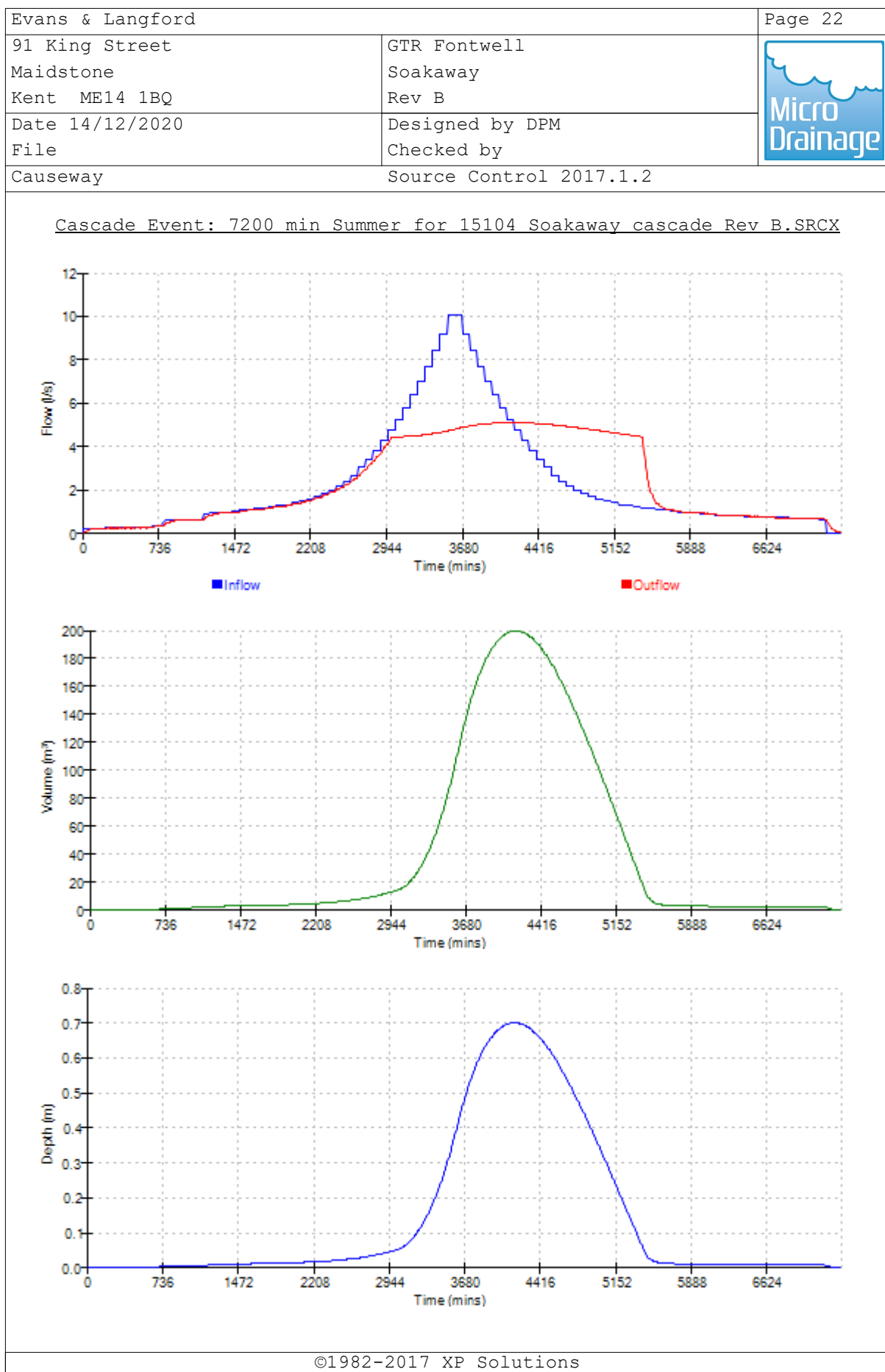
Cascade Event: 4320 min Summer for 15104 Soakaway cascade Rev B.SRCX



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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020	Designed by DPM	
File	Checked by	
Causeway		Source Control 2017.1.2

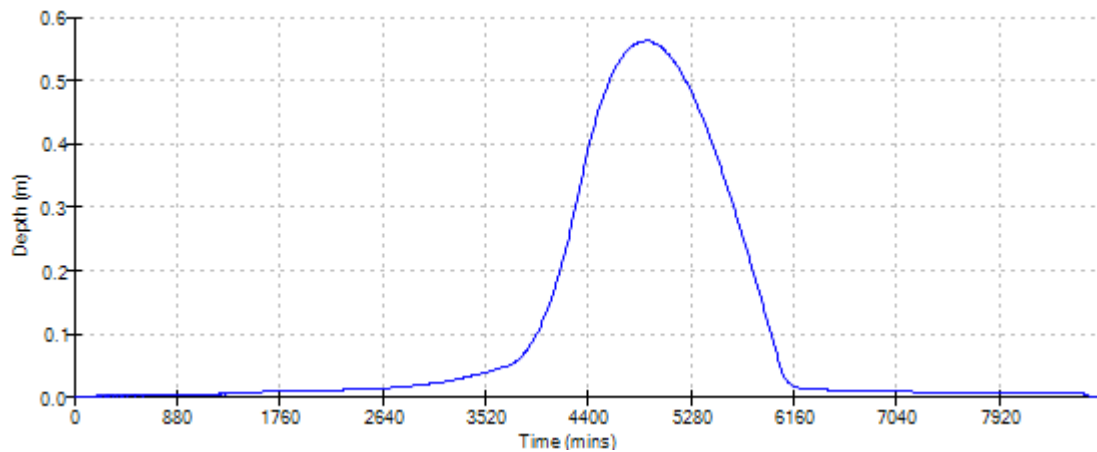
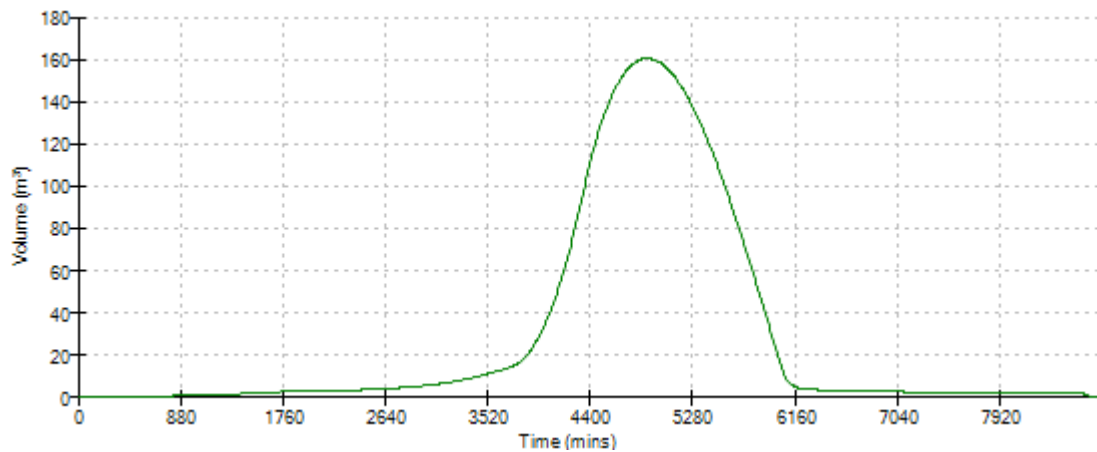
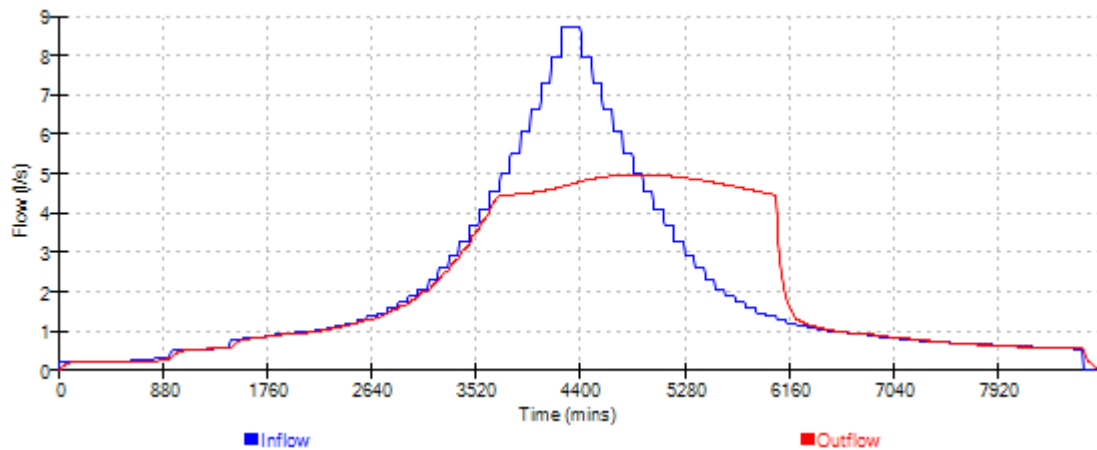
Cascade Event: 5760 min Summer for 15104 Soakaway cascade Rev B.SRCX





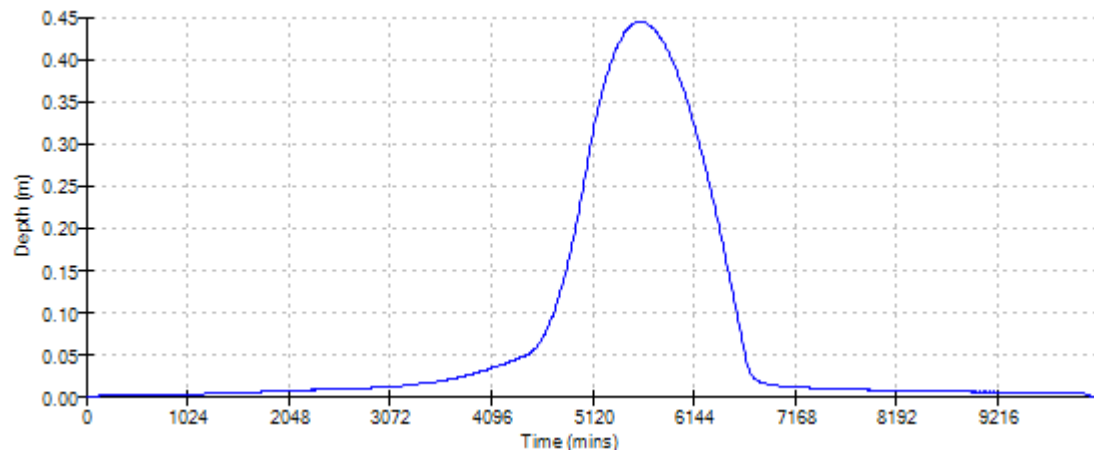
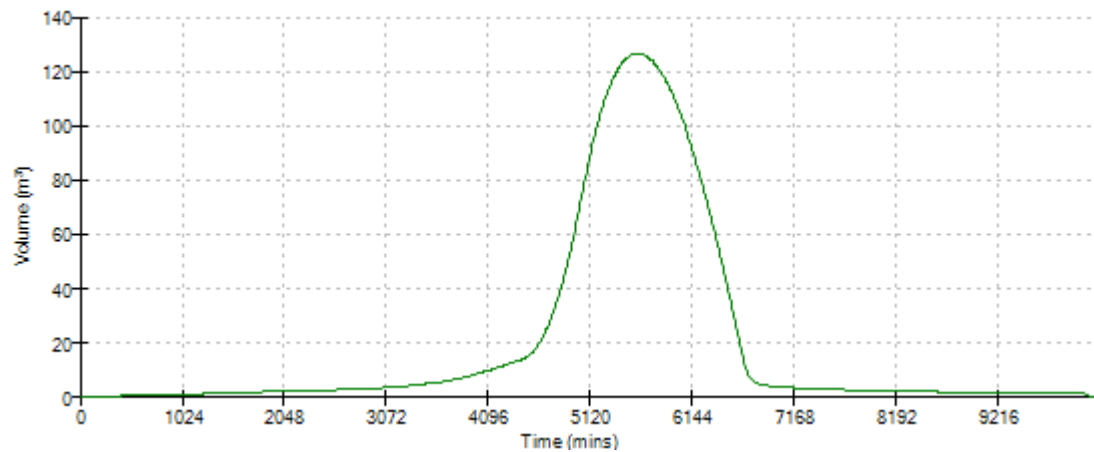
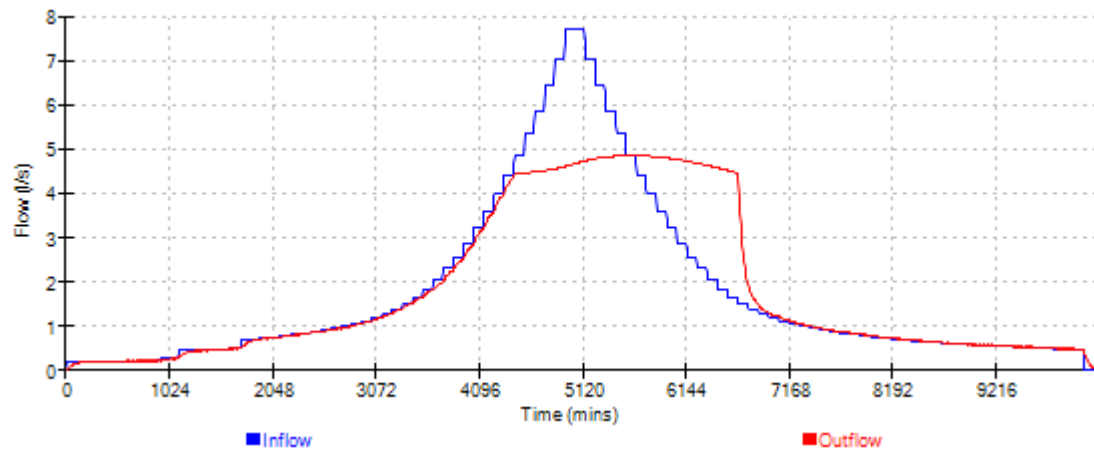
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91 King Street	GTR Fontwell	
Maidstone	Soakaway	
Kent ME14 1BQ	Rev B	
Date 14/12/2020	Designed by DPM	
File	Checked by	
Causeway	Source Control 2017.1.2	

Cascade Event: 8640 min Summer for 15104 Soakaway cascade Rev B.SRCX



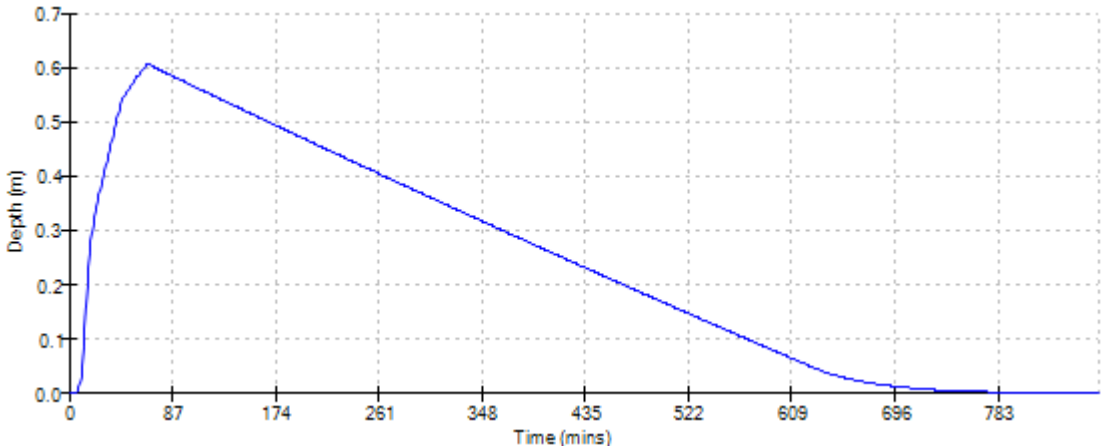
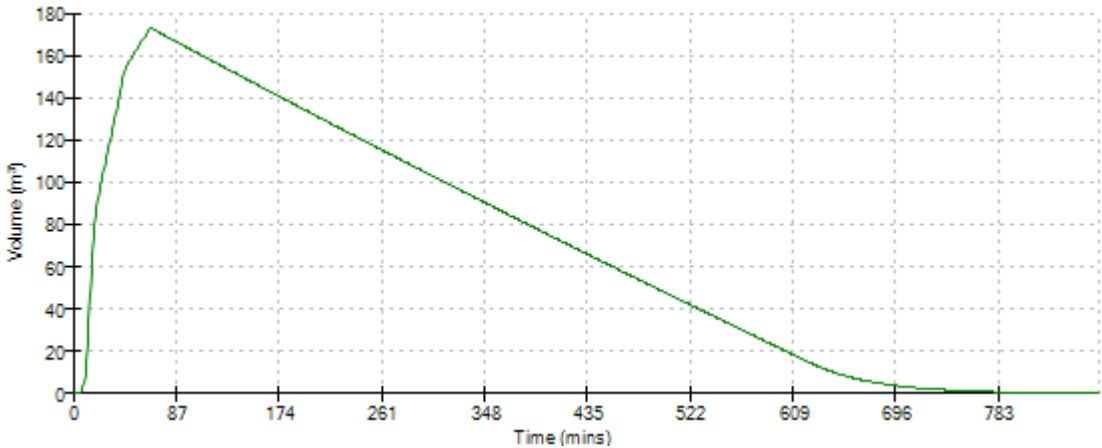
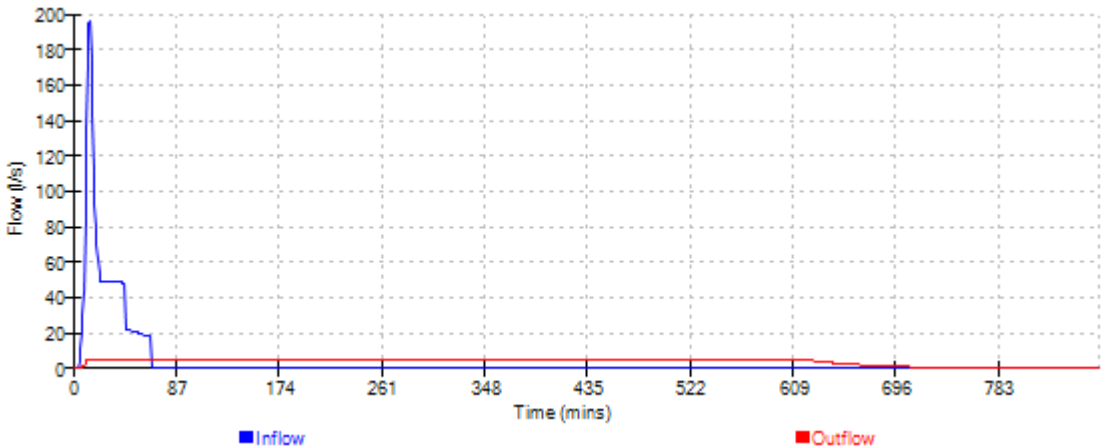
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Date 14/12/2020	Designed by DPM	
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Causeway		Source Control 2017.1.2

Cascade Event: 10080 min Summer for 15104 Soakaway cascade Rev B.SRCX



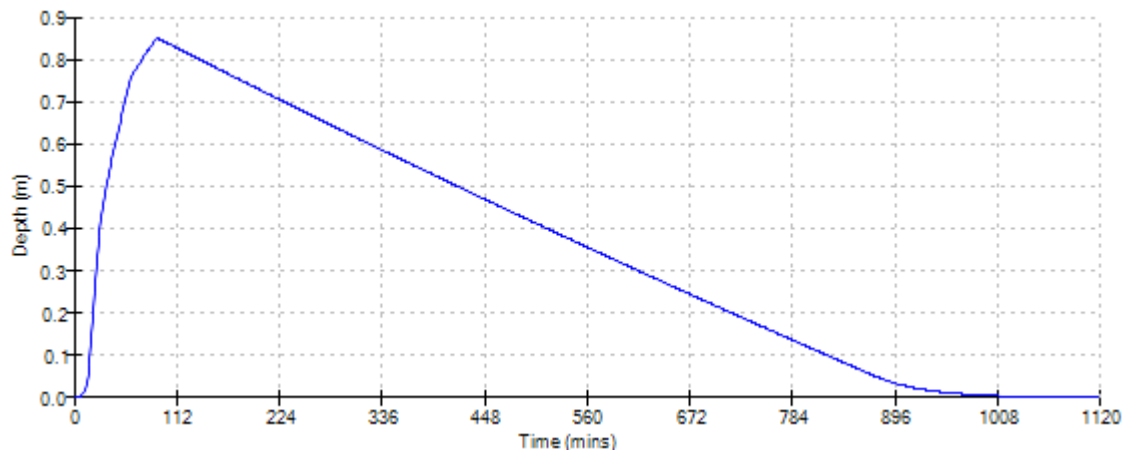
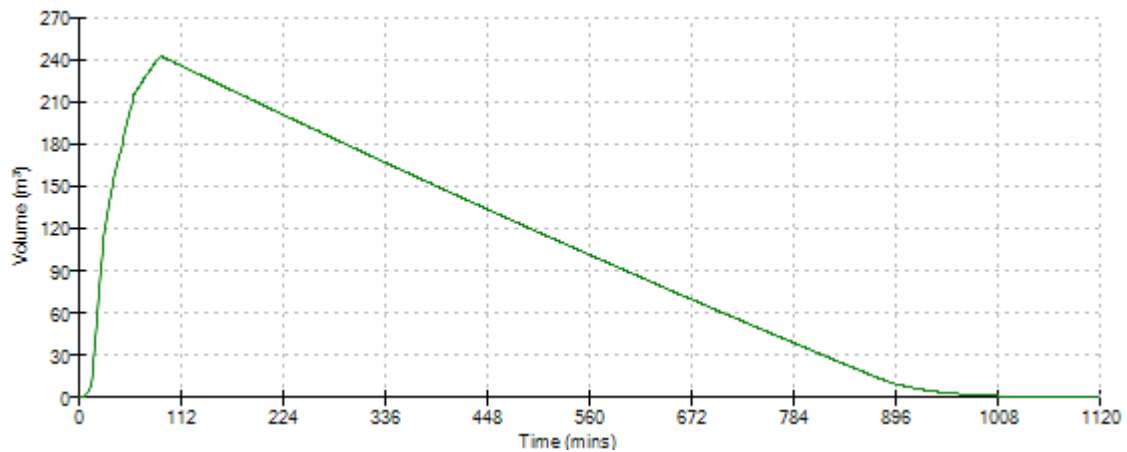
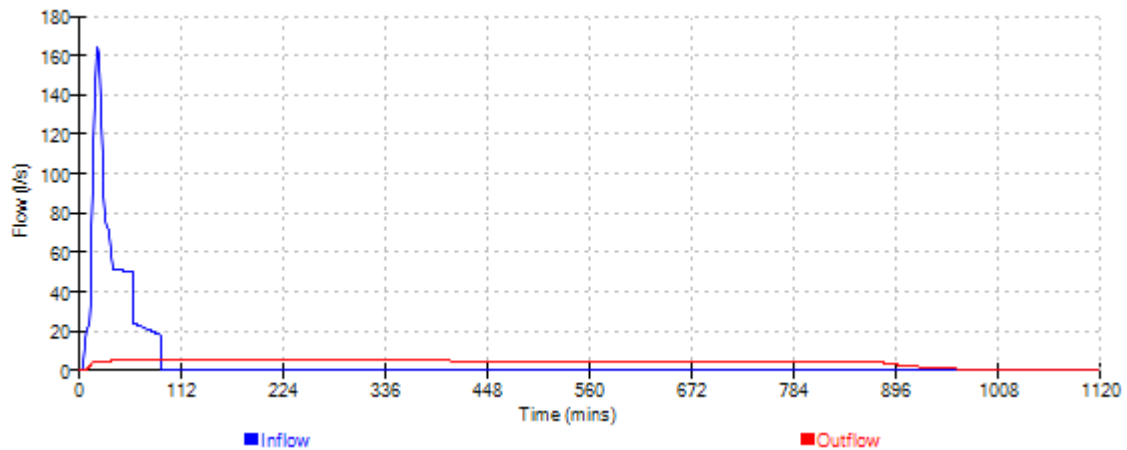
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Maidstone	Soakaway	
Kent ME14 1BQ	Rev B	
Date 14/12/2020	Designed by DPM	
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Causeway	Source Control 2017.1.2	

Cascade Event: 15 min Winter for 15104 Soakaway cascade Rev B.SRCX



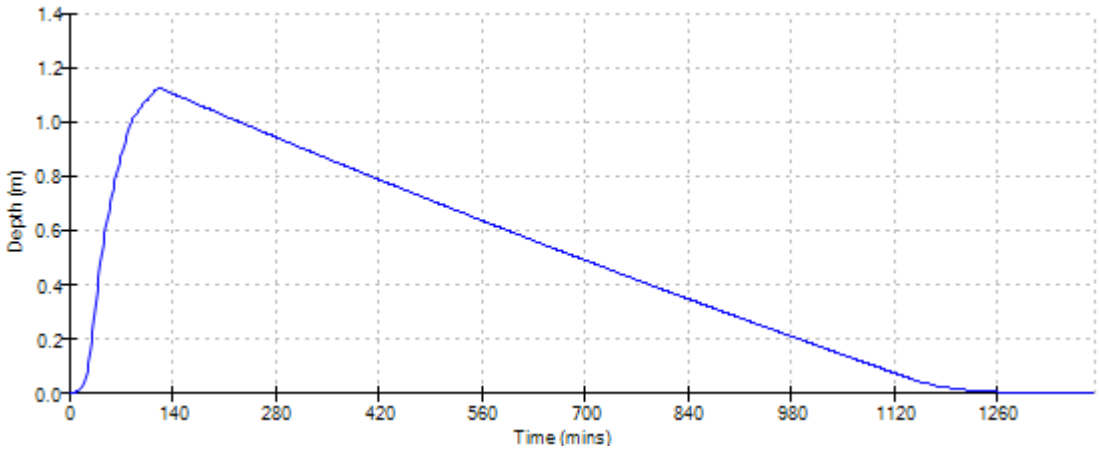
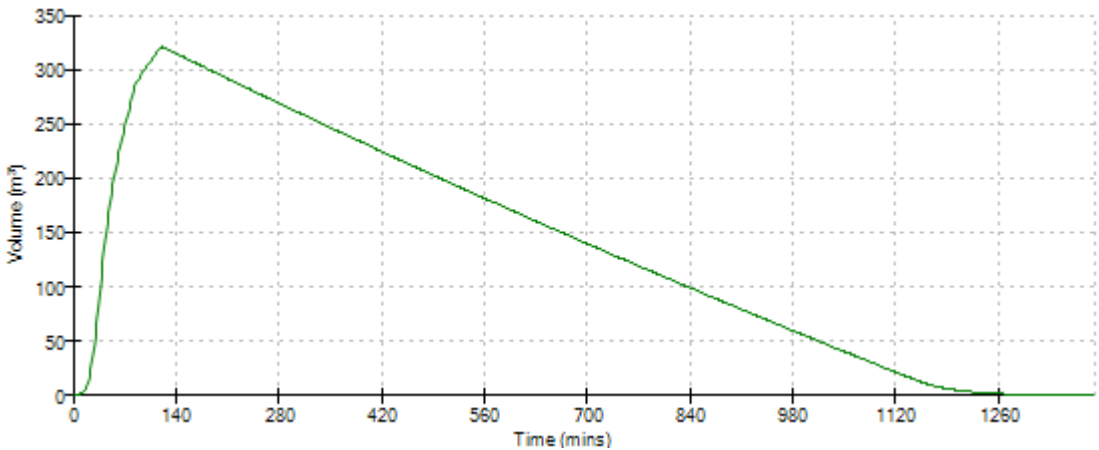
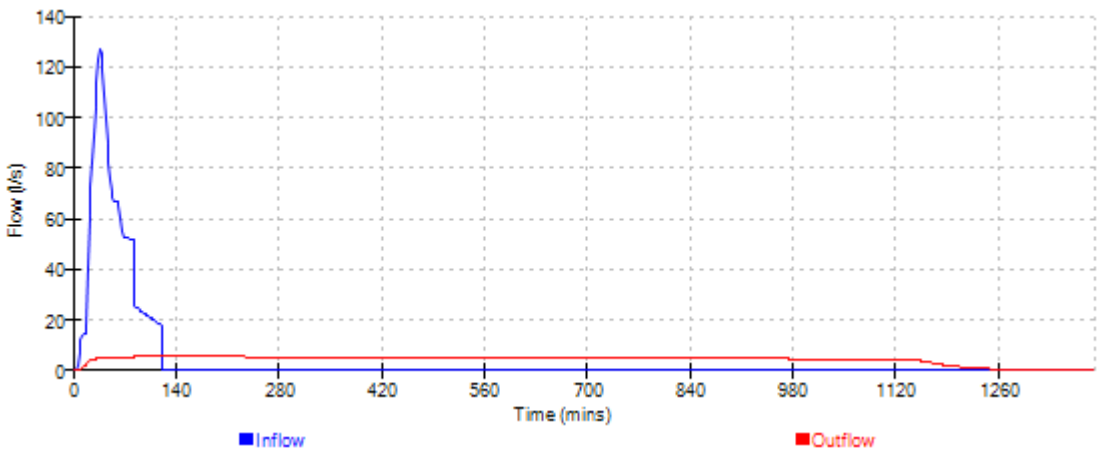
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Causeway		Source Control 2017.1.2

Cascade Event: 30 min Winter for 15104 Soakaway cascade Rev B.SRCX



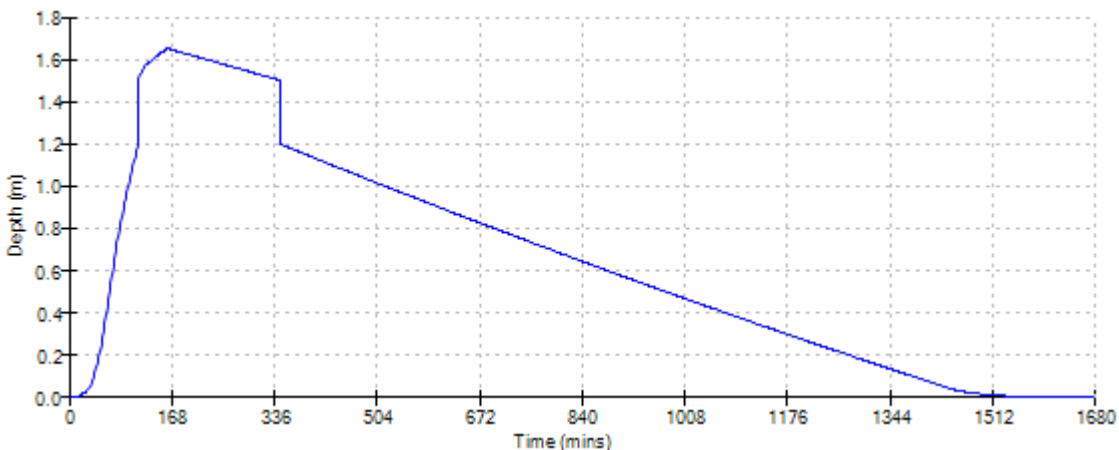
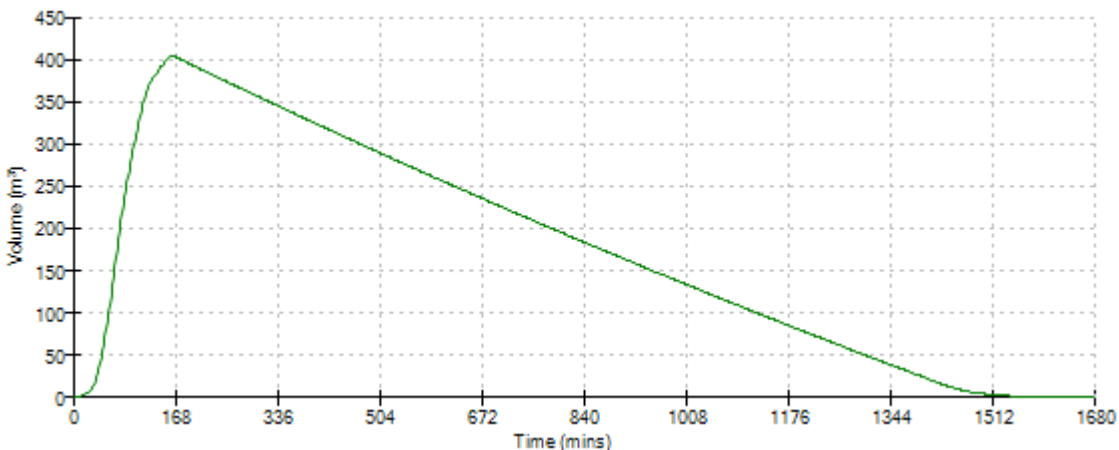
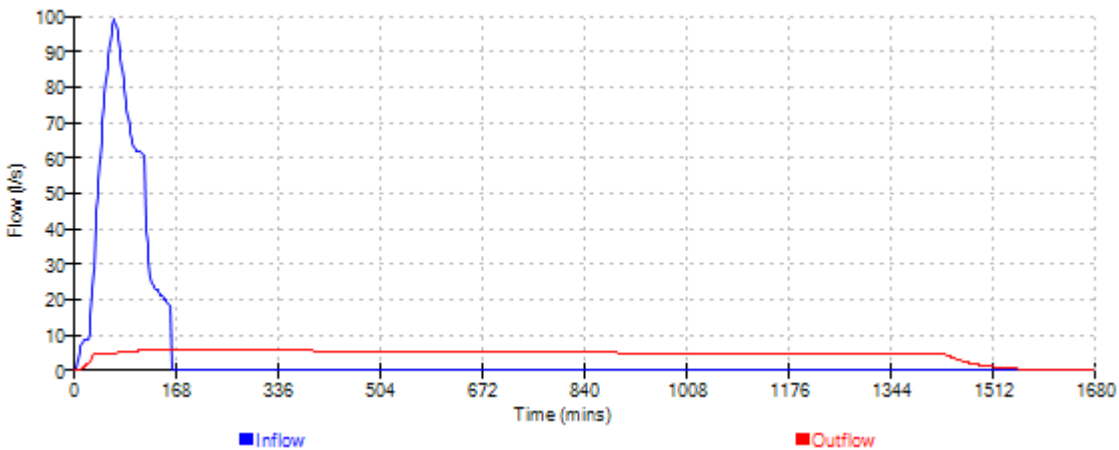
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 60 min Winter for 15104 Soakaway cascade Rev B.SRCX



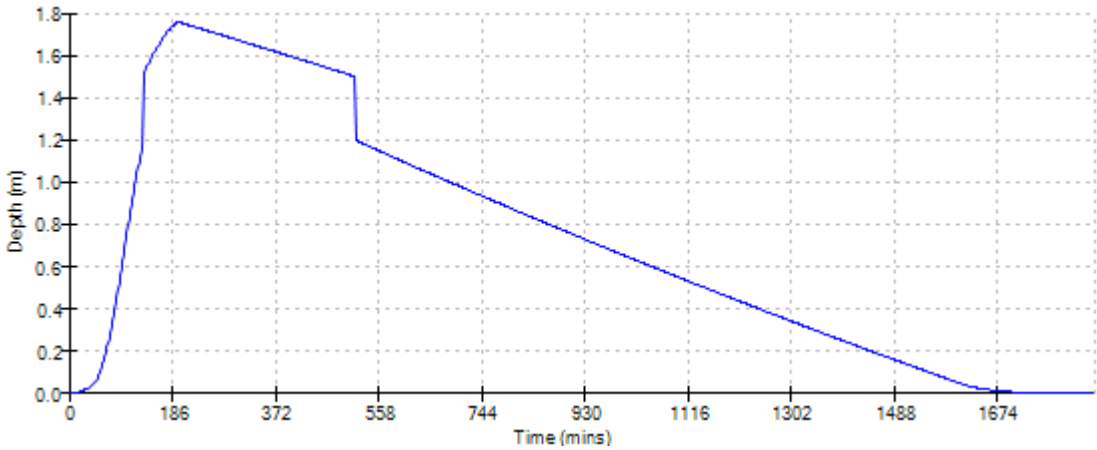
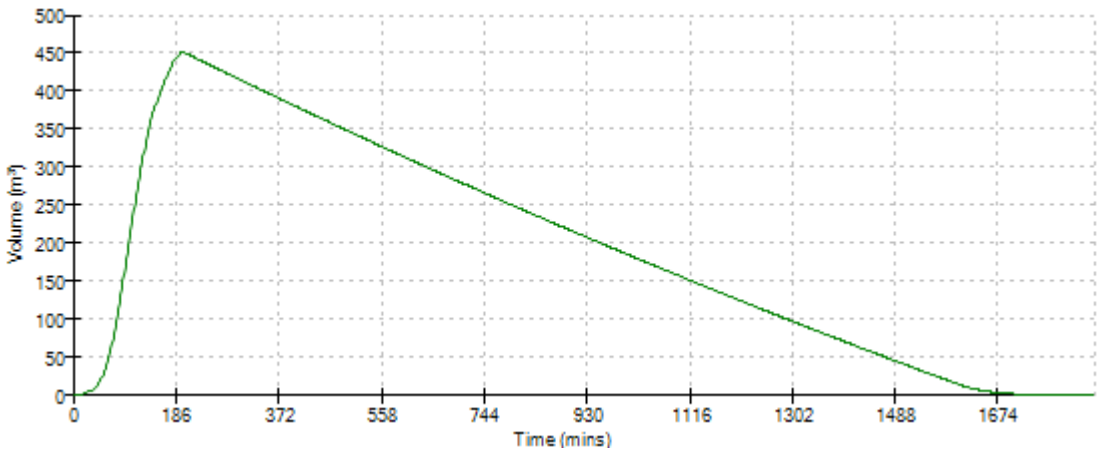
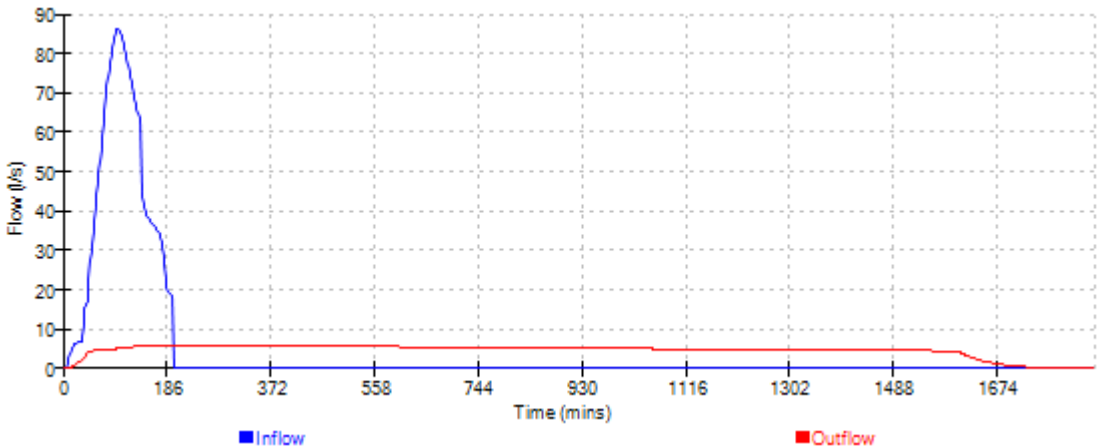
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020	Designed by DPM	
File	Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 120 min Winter for 15104 Soakaway cascade Rev B.SRCX



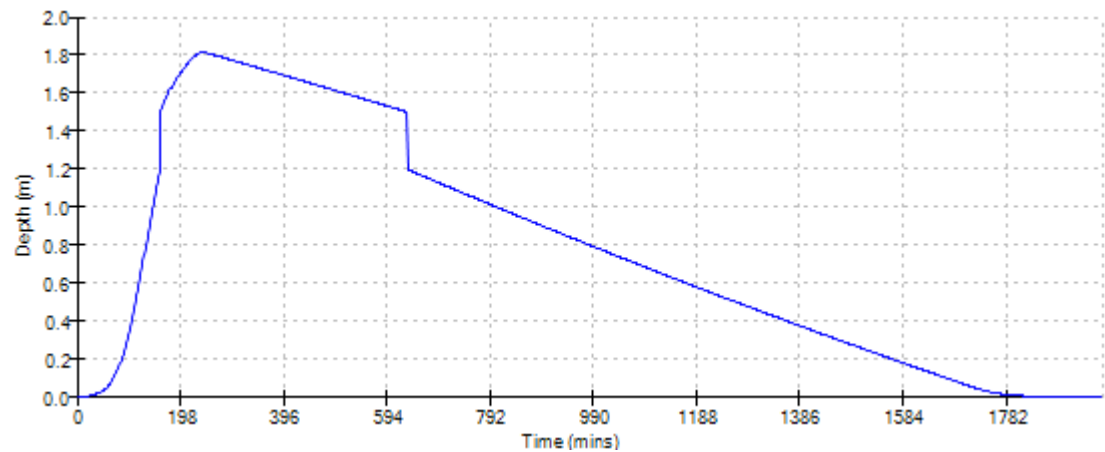
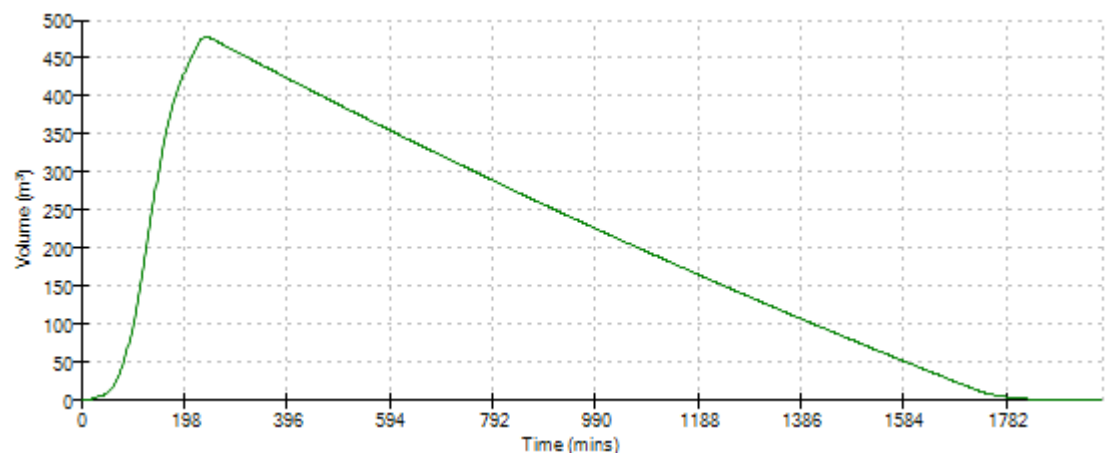
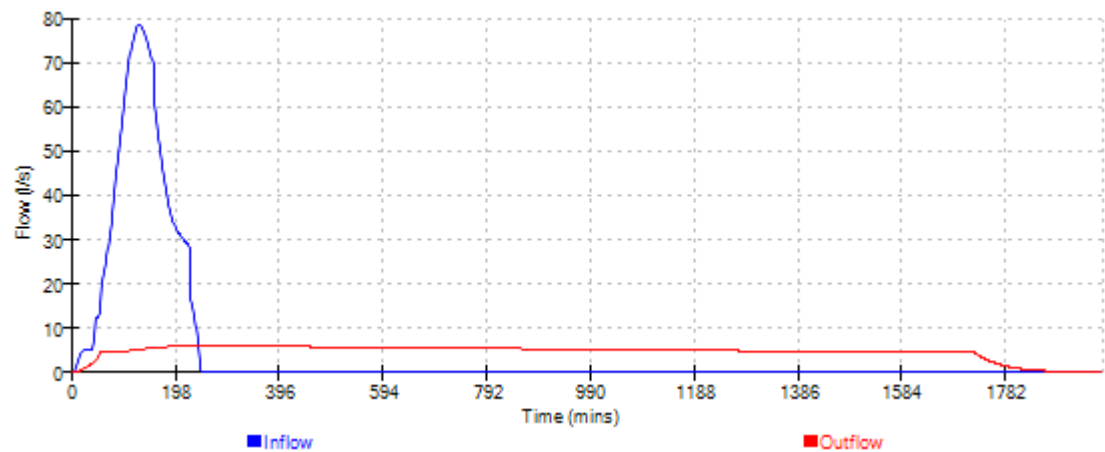
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 180 min Winter for 15104 Soakaway cascade Rev B.SRCX



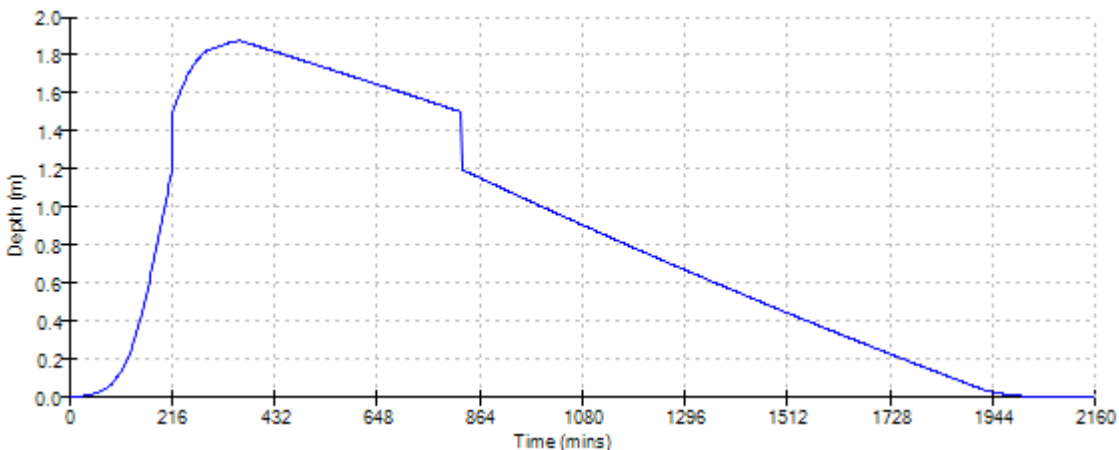
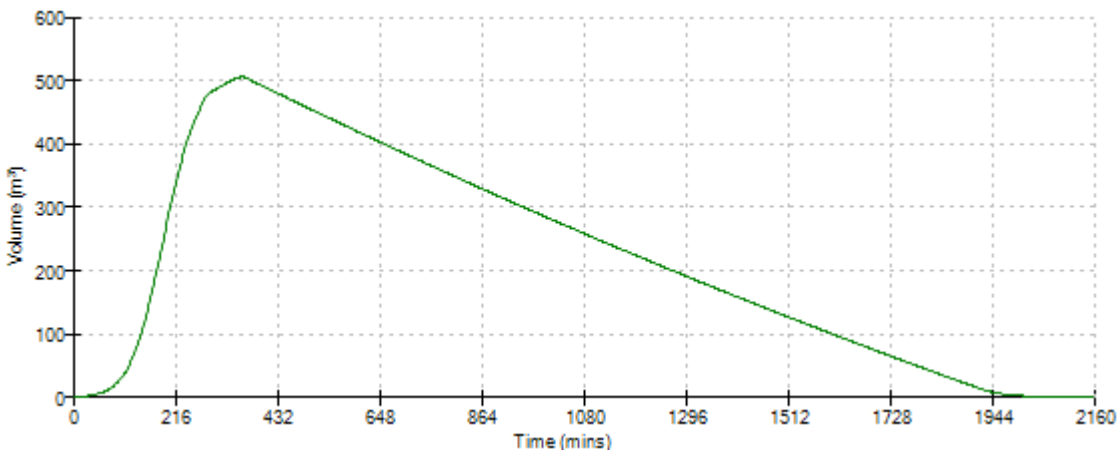
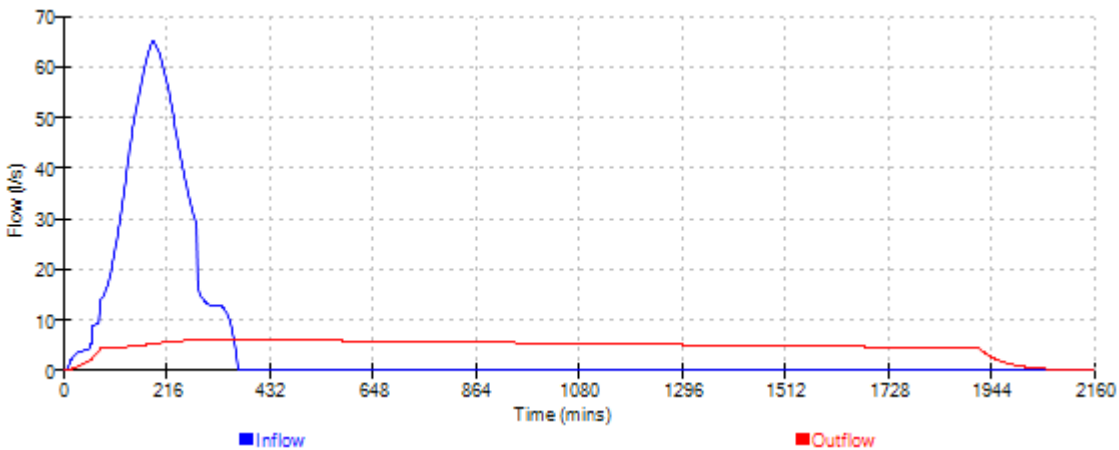
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Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 240 min Winter for 15104 Soakaway cascade Rev B.SRCX



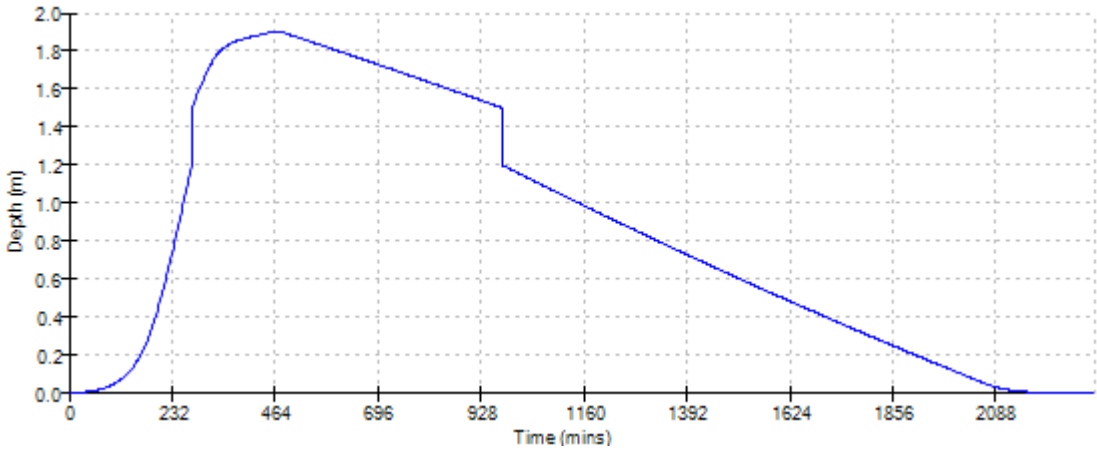
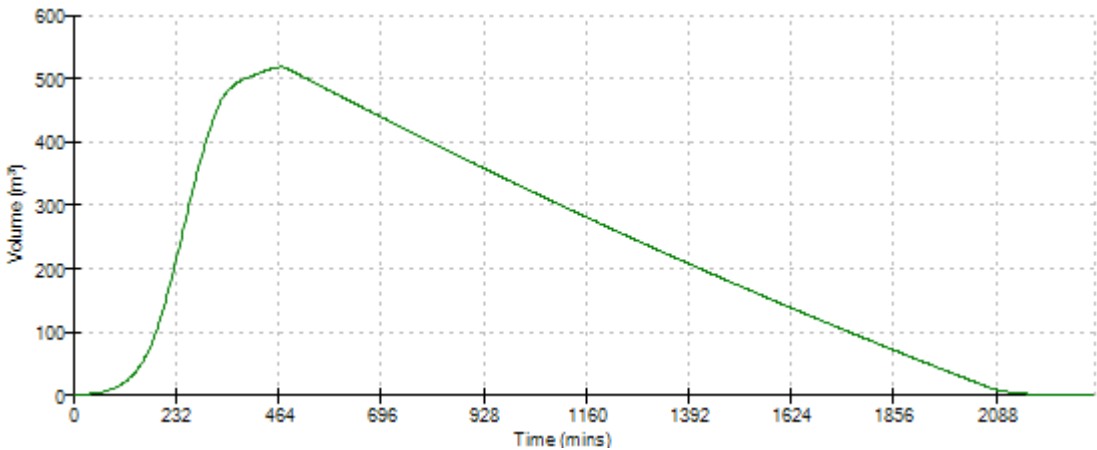
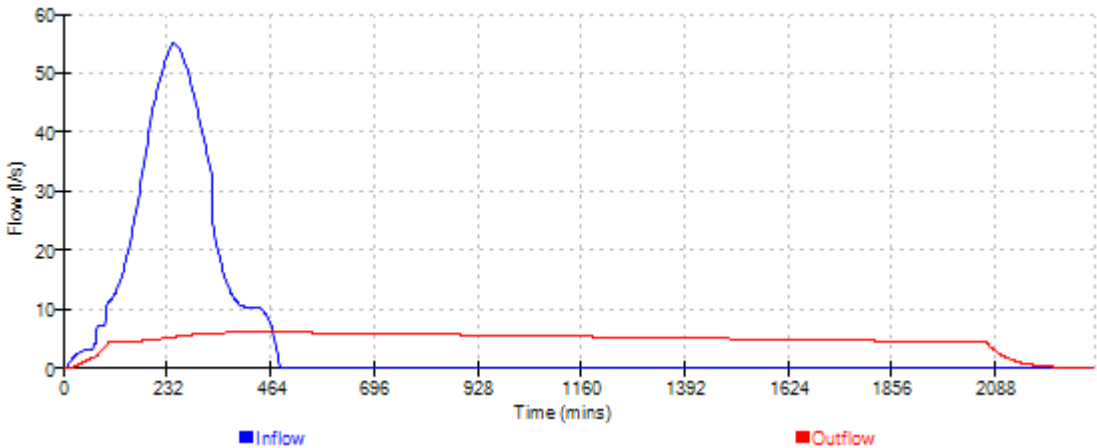
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Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 360 min Winter for 15104 Soakaway cascade Rev B.SRCX



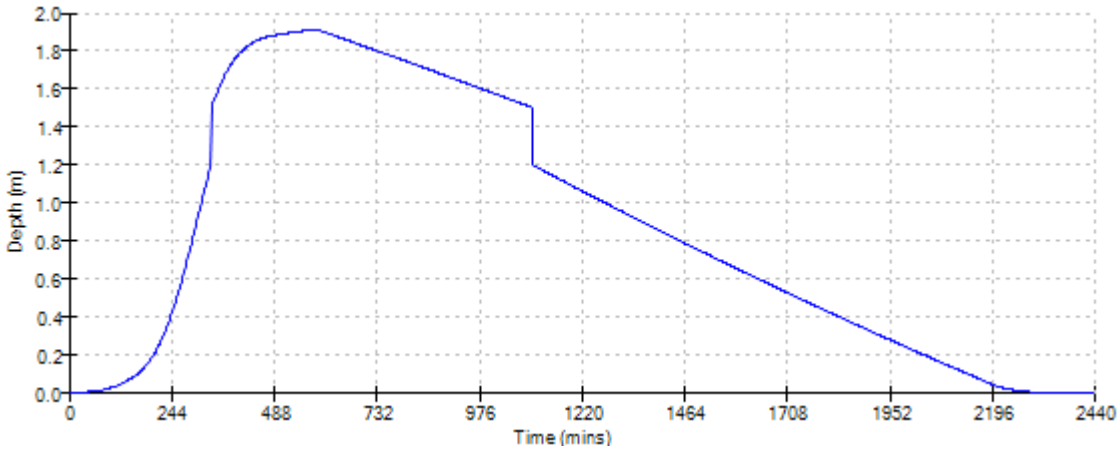
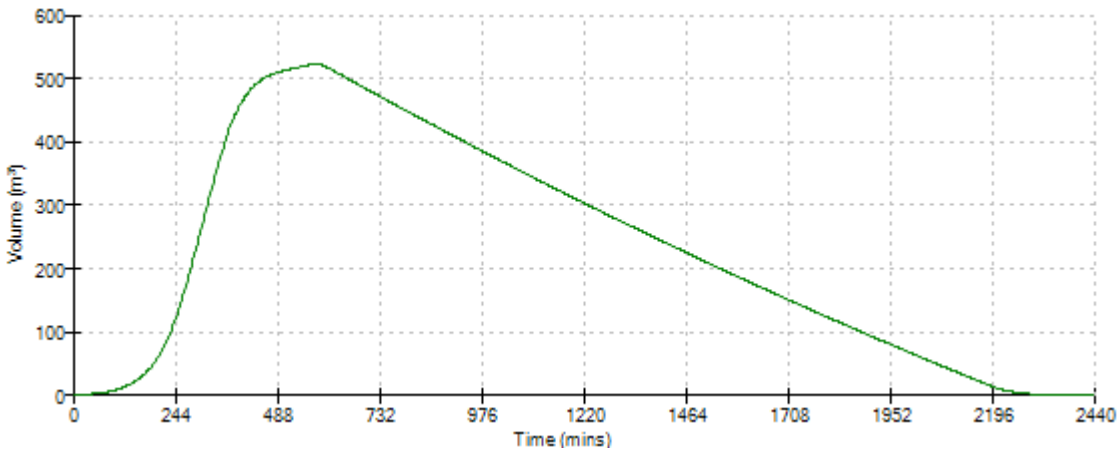
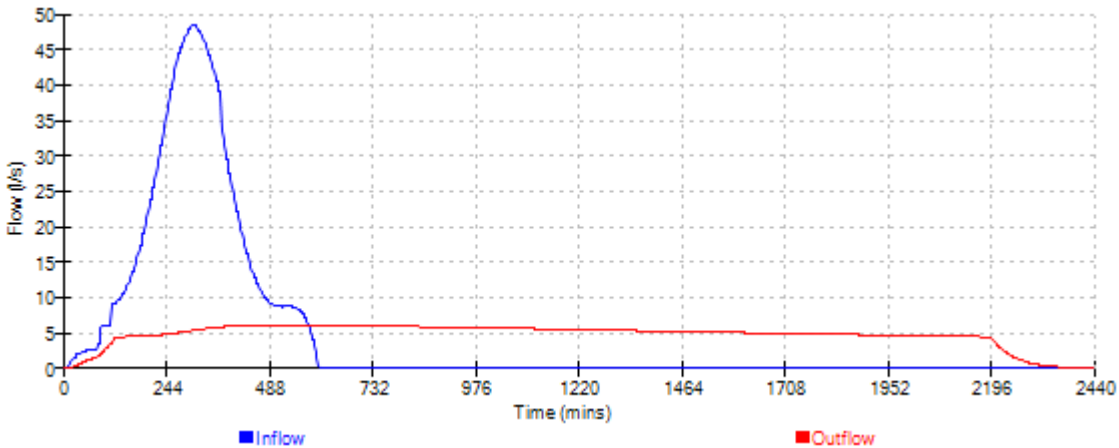
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Causeway		Source Control 2017.1.2

Cascade Event: 480 min Winter for 15104 Soakaway cascade Rev B.SRCX



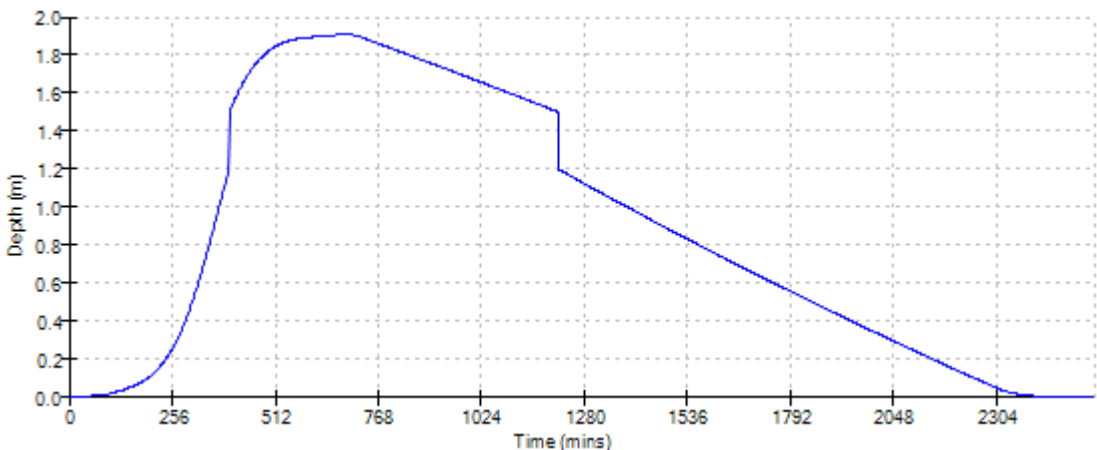
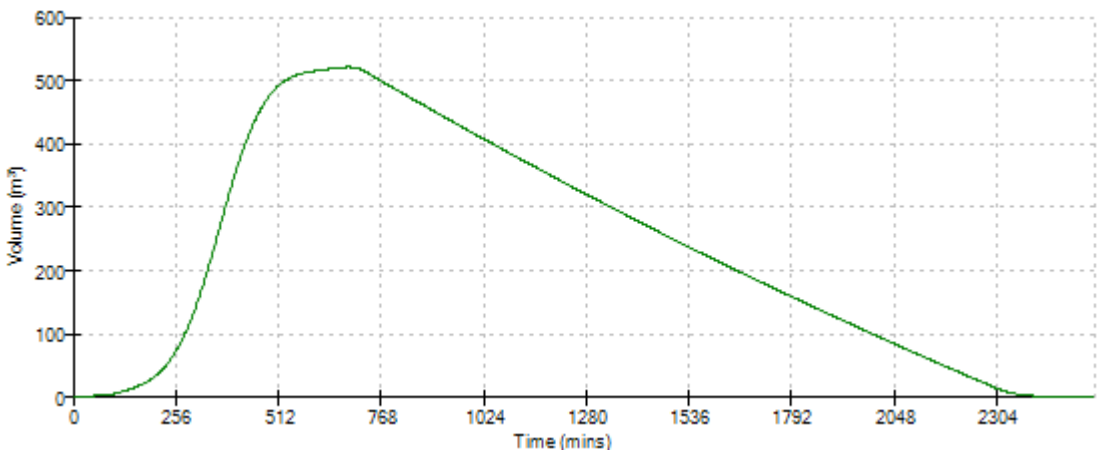
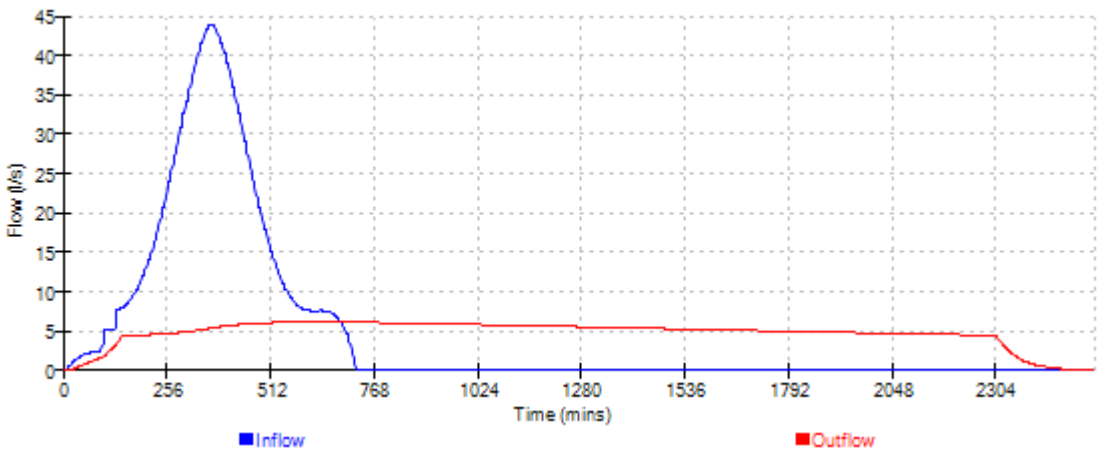
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Causeway		Source Control 2017.1.2

Cascade Event: 600 min Winter for 15104 Soakaway cascade Rev B.SRCX



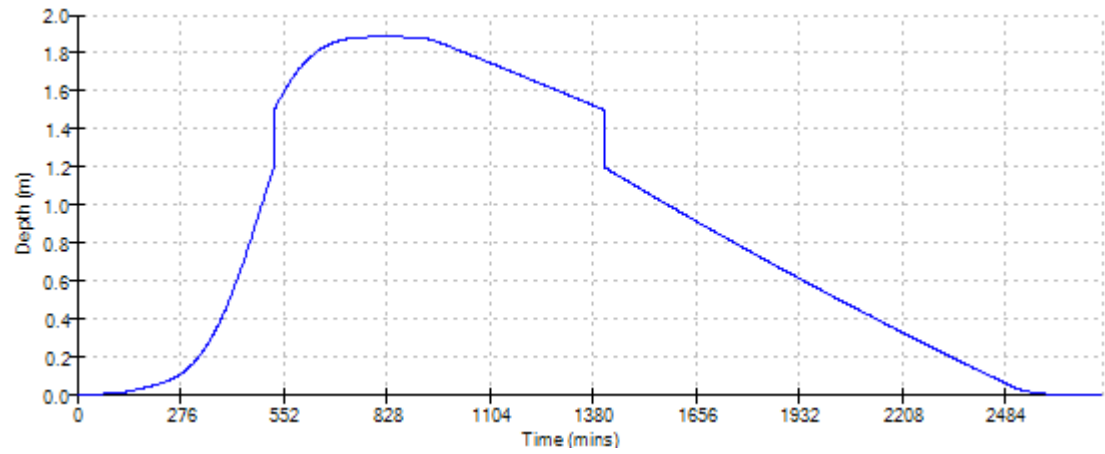
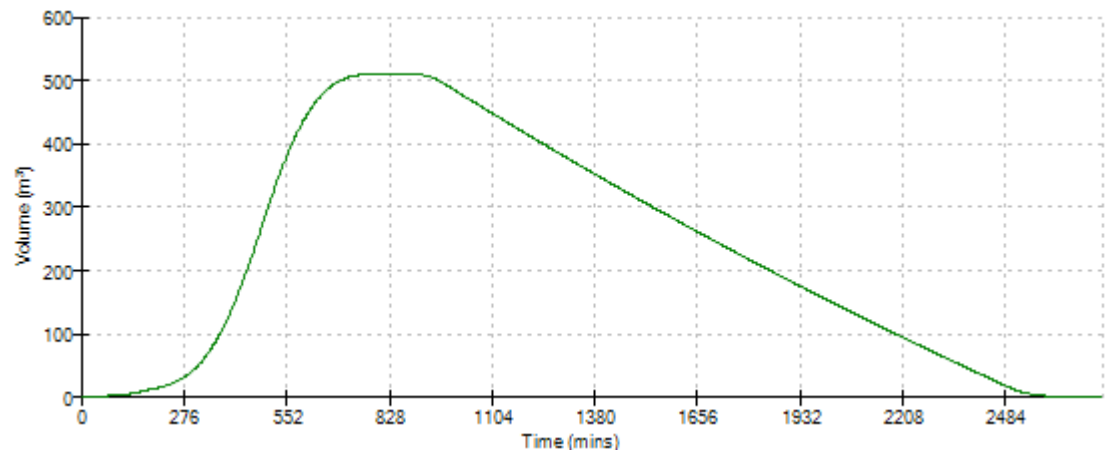
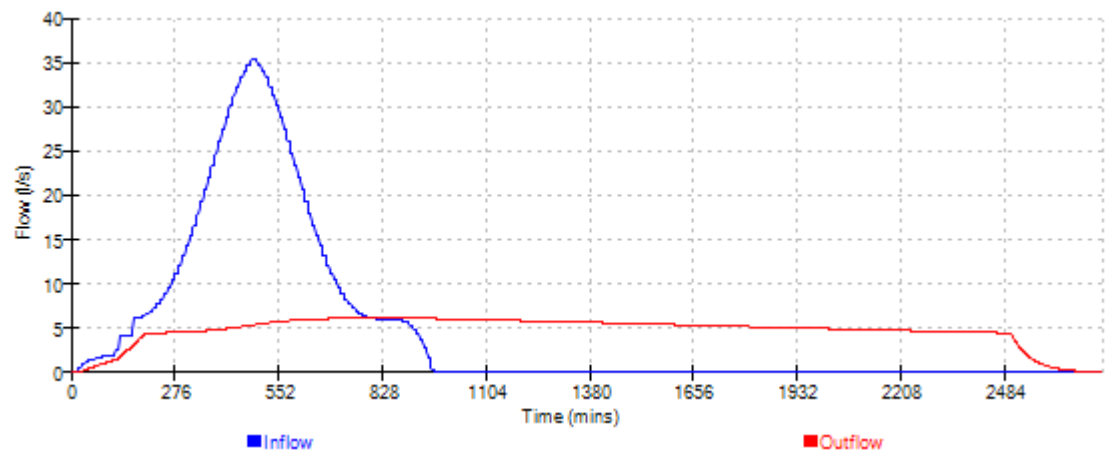
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91 King Street	GTR Fontwell	
Maidstone	Soakaway	
Kent ME14 1BQ	Rev B	
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Causeway	Source Control 2017.1.2	

Cascade Event: 720 min Winter for 15104 Soakaway cascade Rev B.SRCX



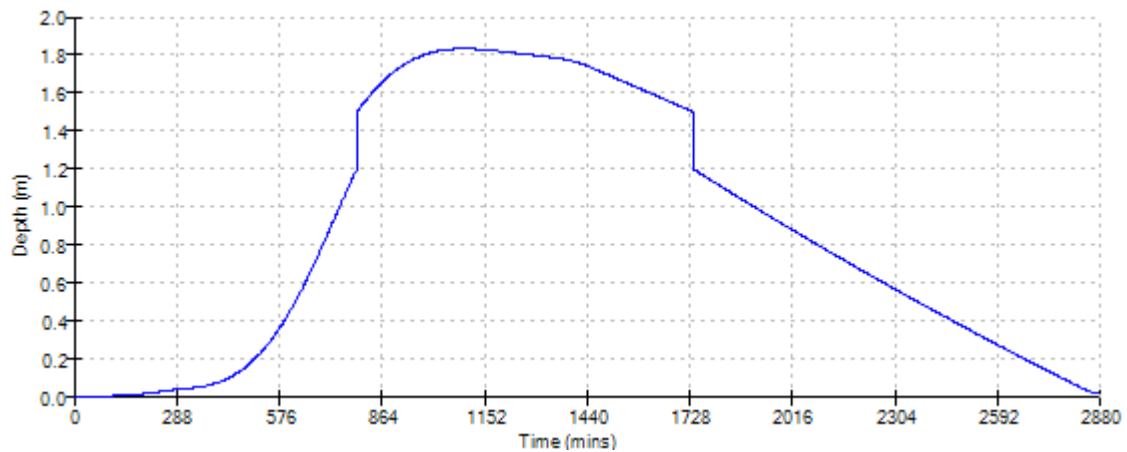
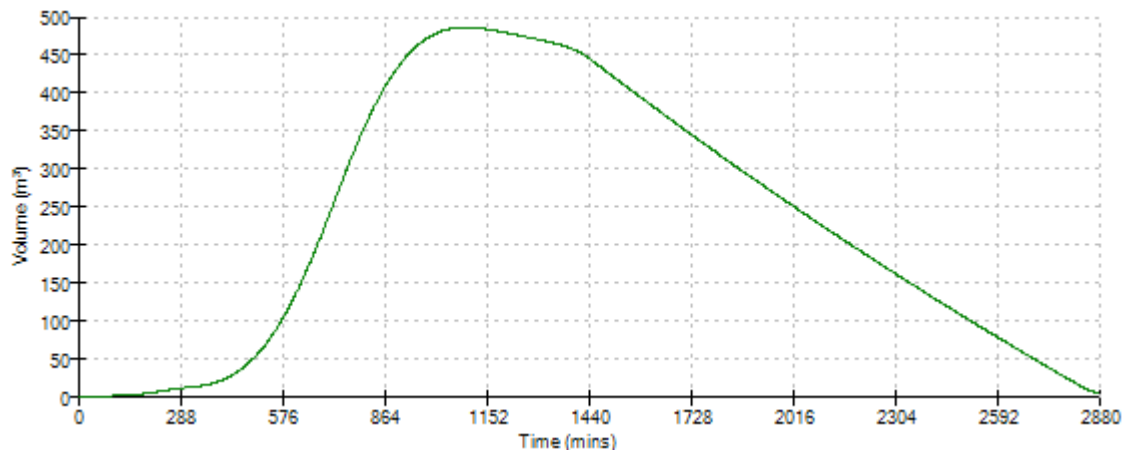
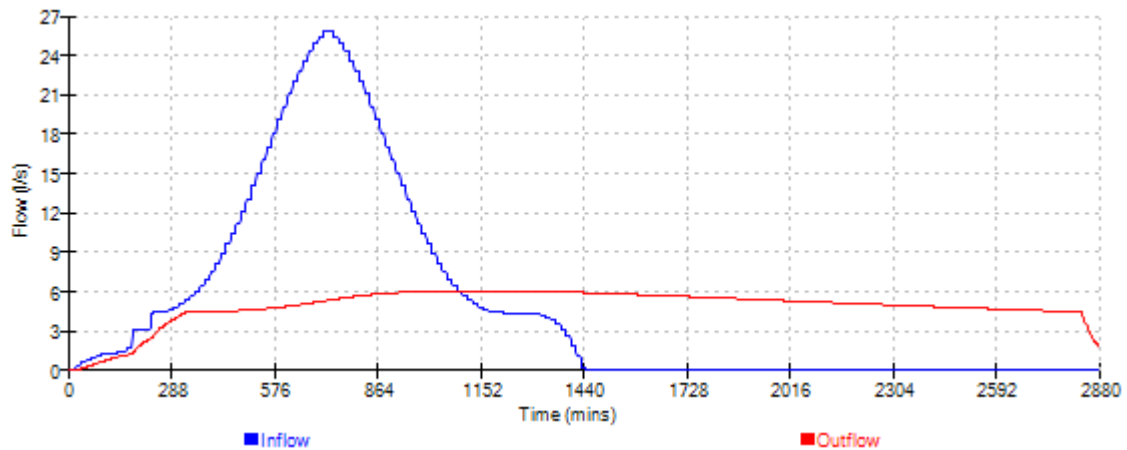
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Causeway		Source Control 2017.1.2

Cascade Event: 960 min Winter for 15104 Soakaway cascade Rev B.SRCX



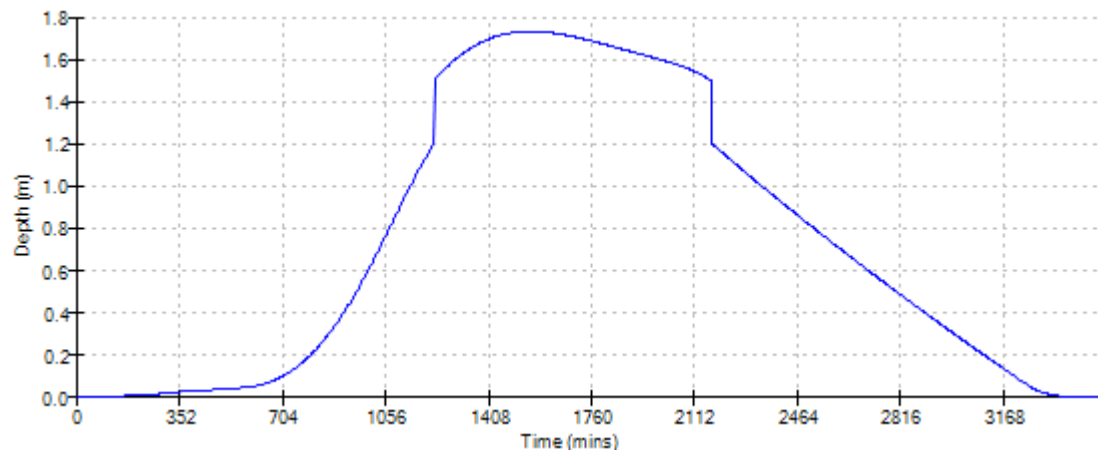
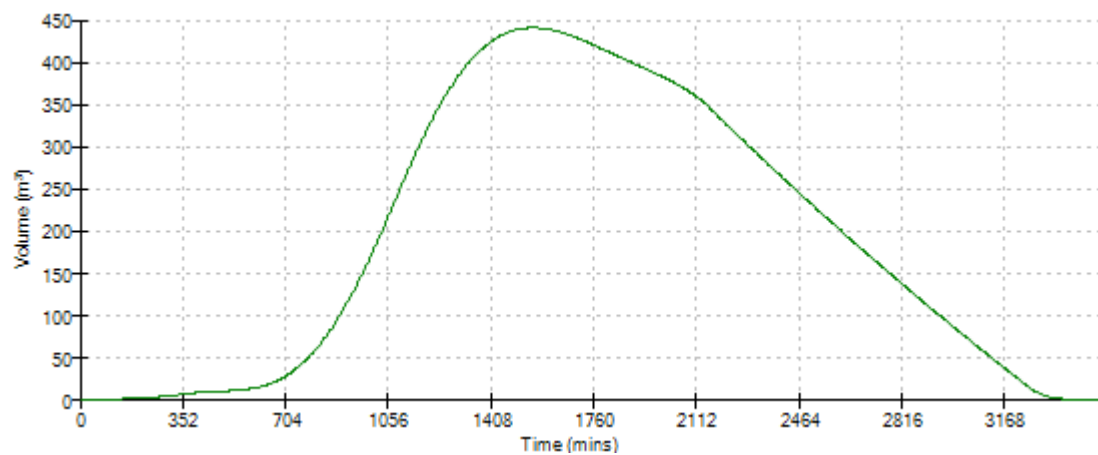
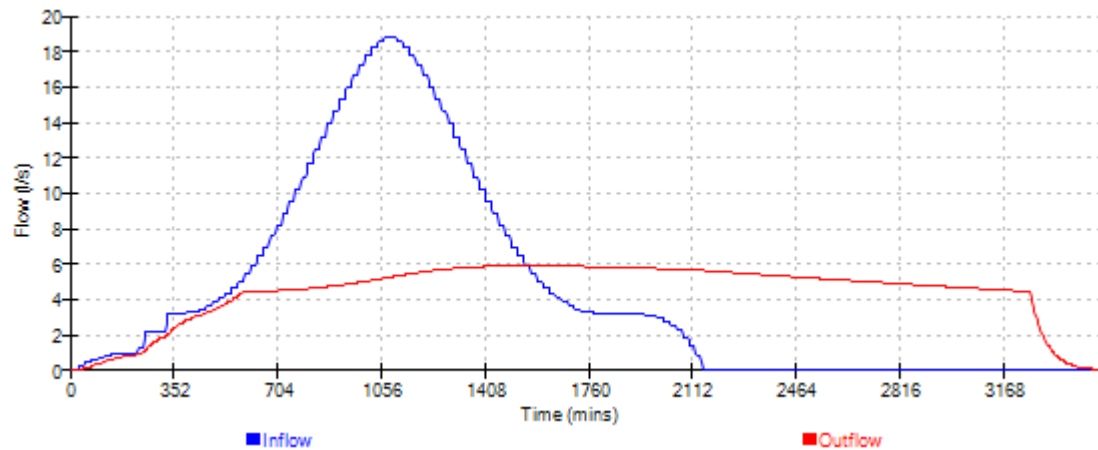
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 1440 min Winter for 15104 Soakaway cascade Rev B.SRCX



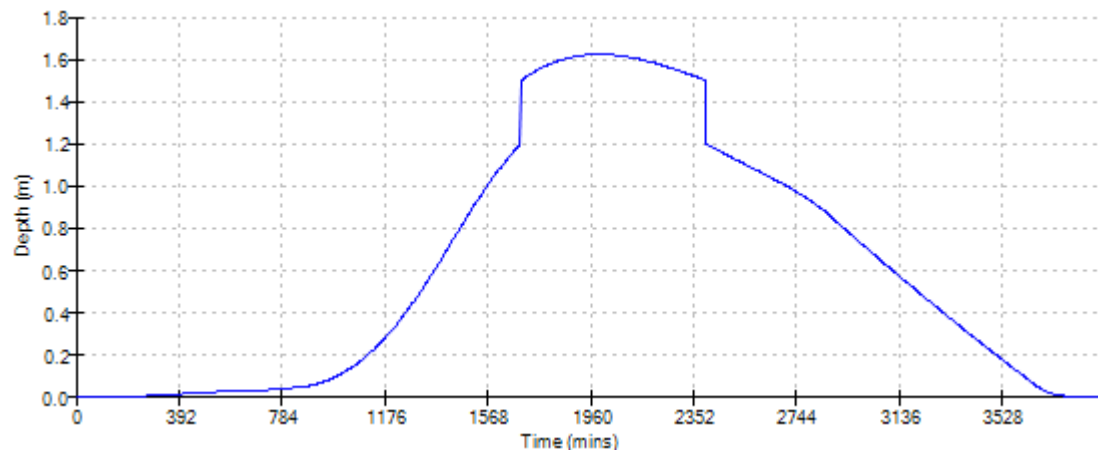
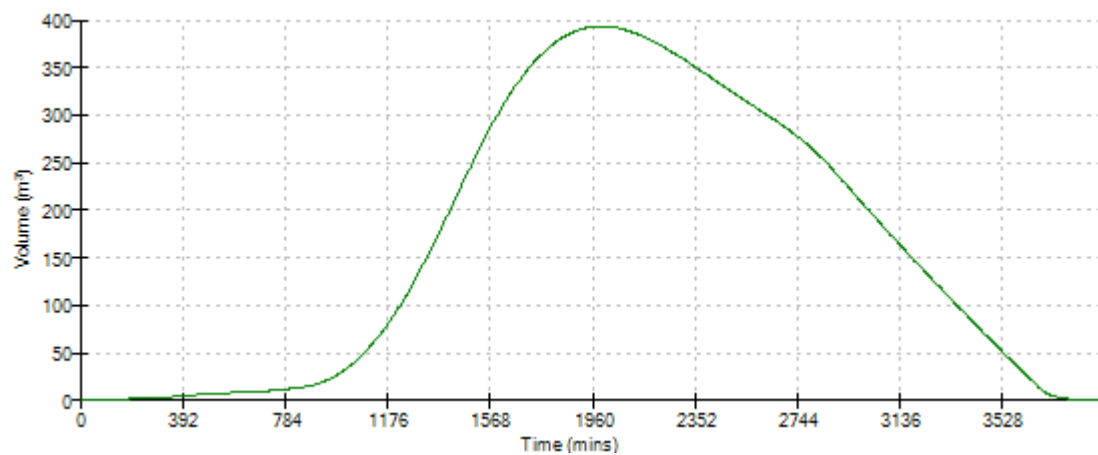
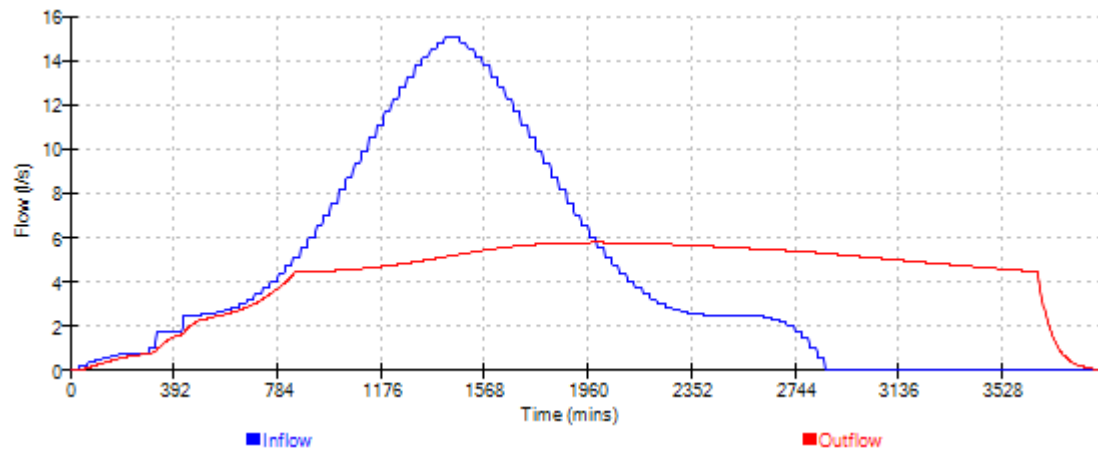
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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Soakaway Rev B	
Date 14/12/2020 File	Designed by DPM Checked by	
Causeway		Source Control 2017.1.2

Cascade Event: 2160 min Winter for 15104 Soakaway cascade Rev B.SRCX



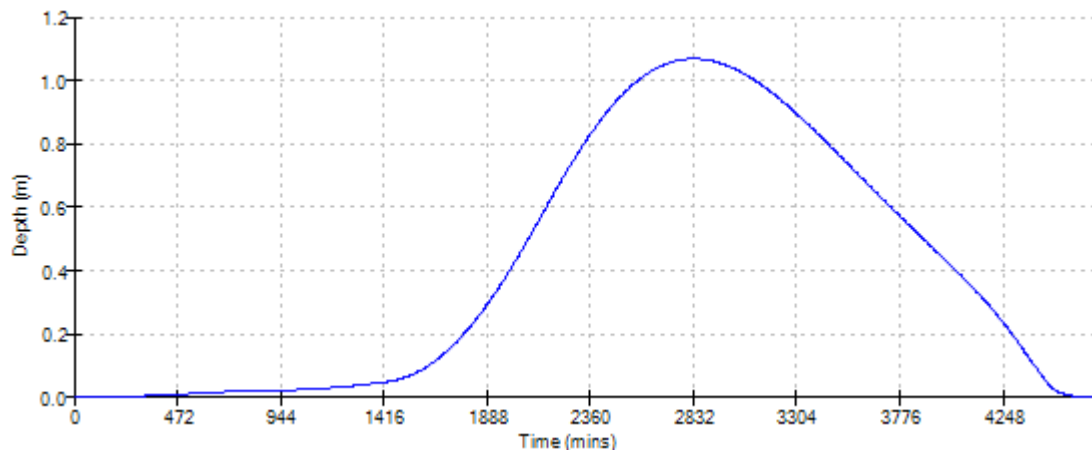
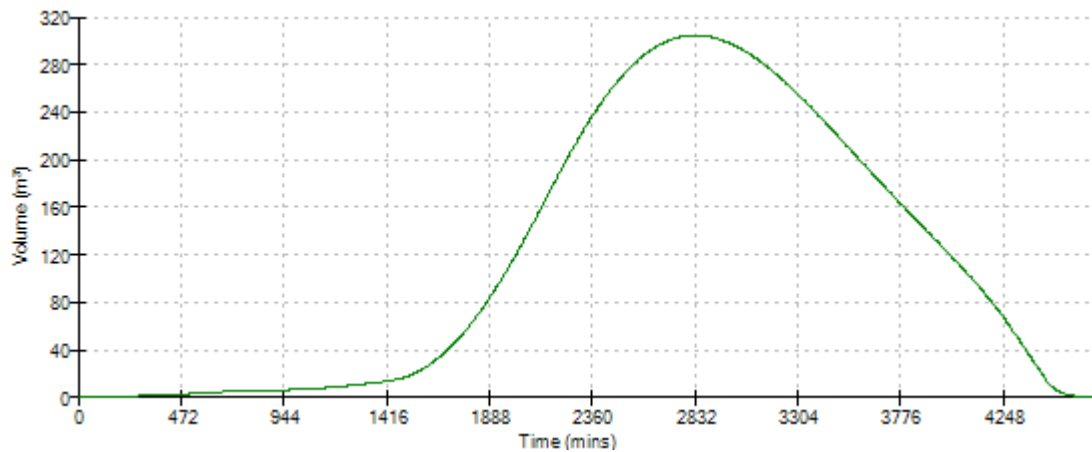
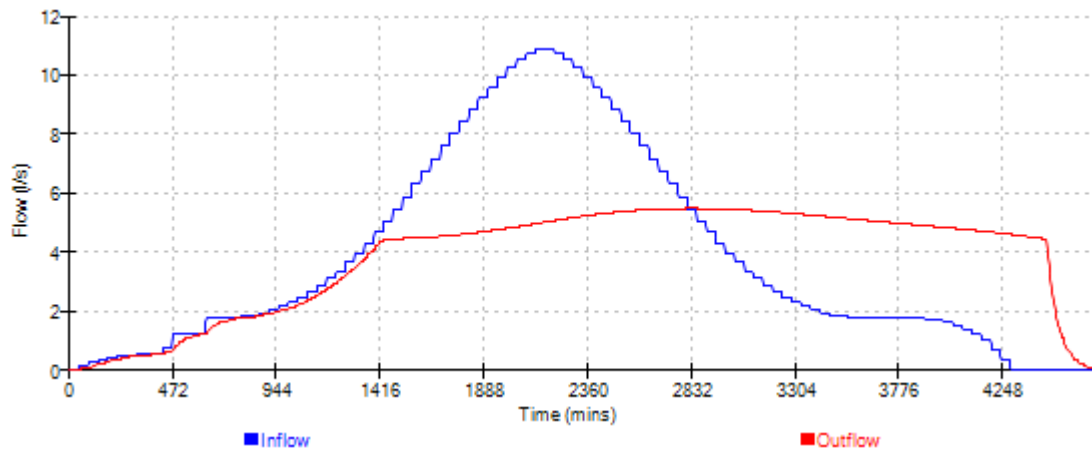
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Causeway		Source Control 2017.1.2

Cascade Event: 2880 min Winter for 15104 Soakaway cascade Rev B.SRCX



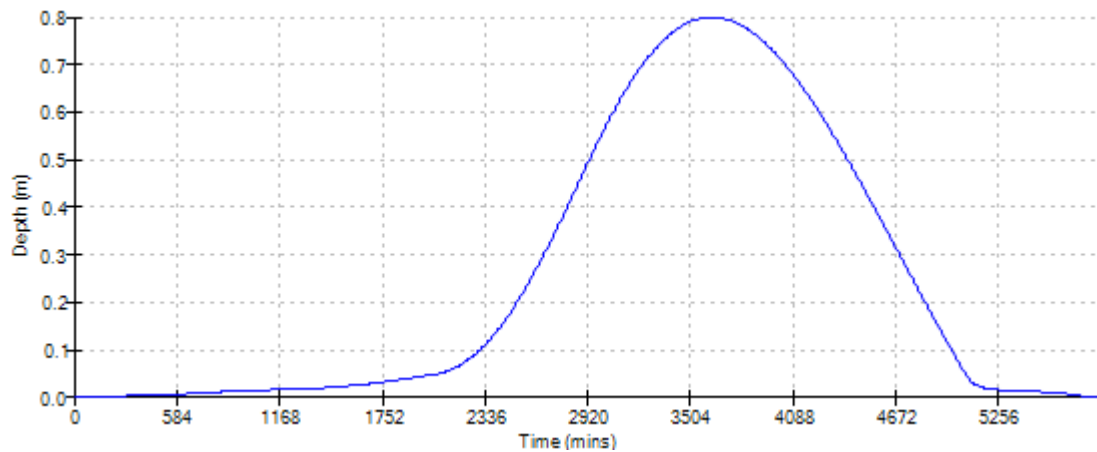
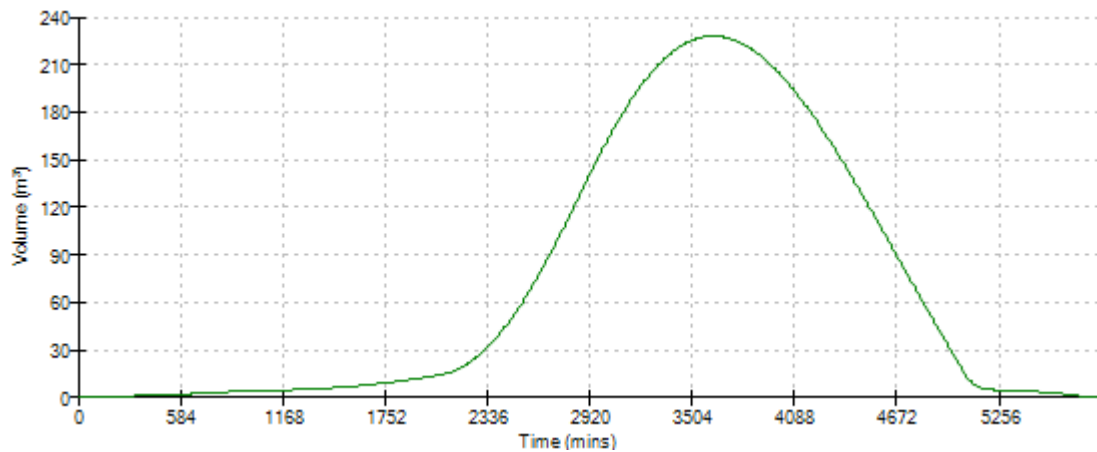
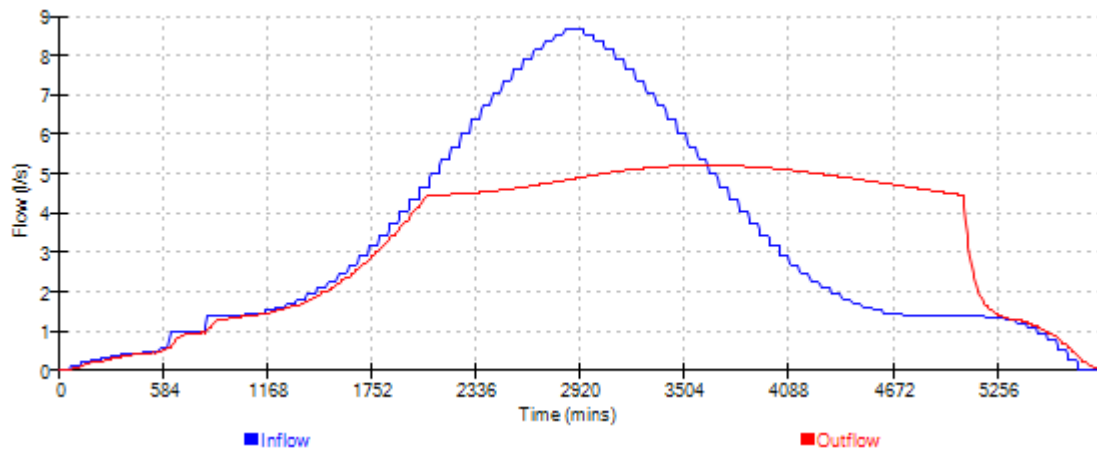
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Causeway		Source Control 2017.1.2

Cascade Event: 4320 min Winter for 15104 Soakaway cascade Rev B.SRCX



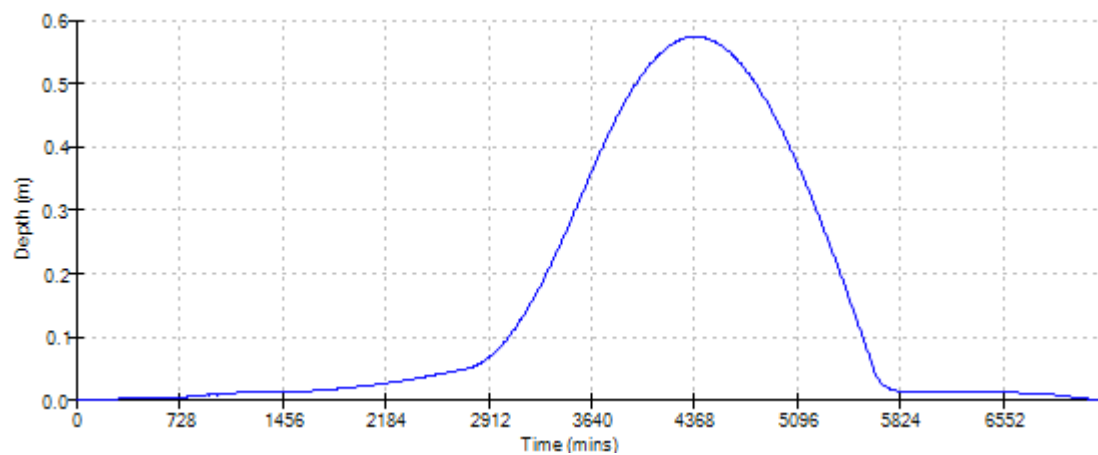
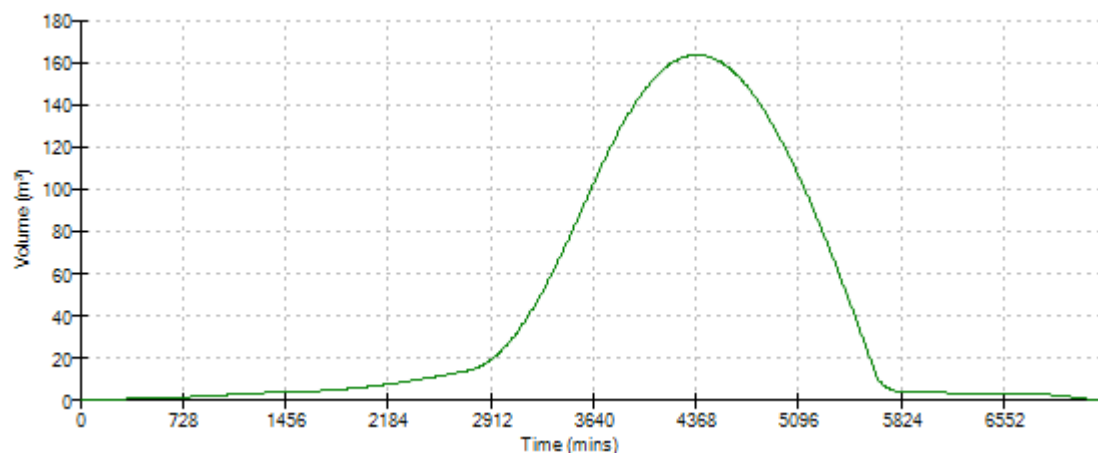
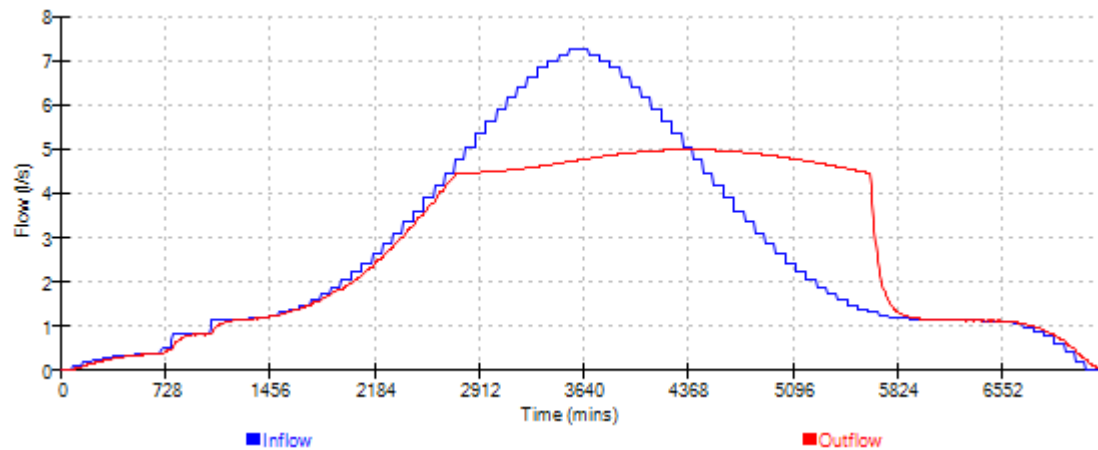
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Maidstone	Soakaway	
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Causeway	Source Control 2017.1.2	

Cascade Event: 5760 min Winter for 15104 Soakaway cascade Rev B.SRCX



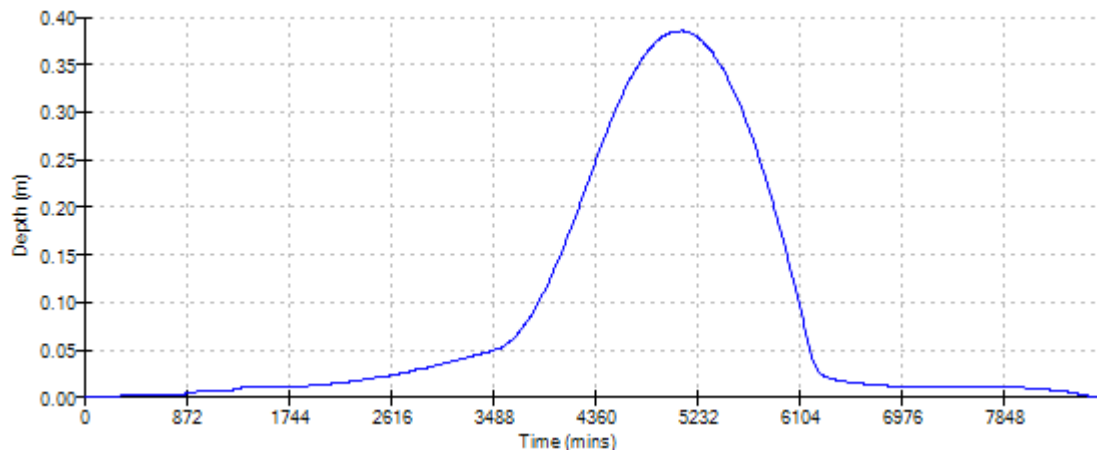
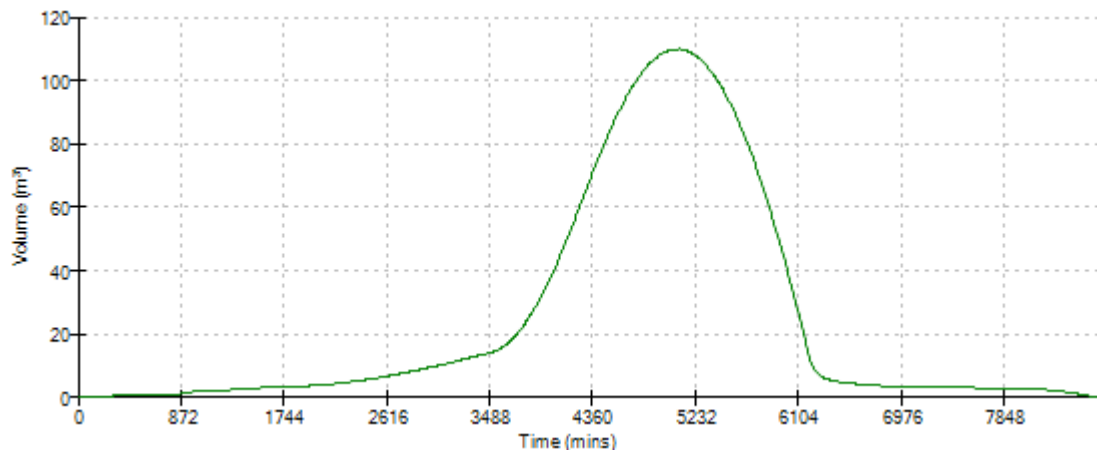
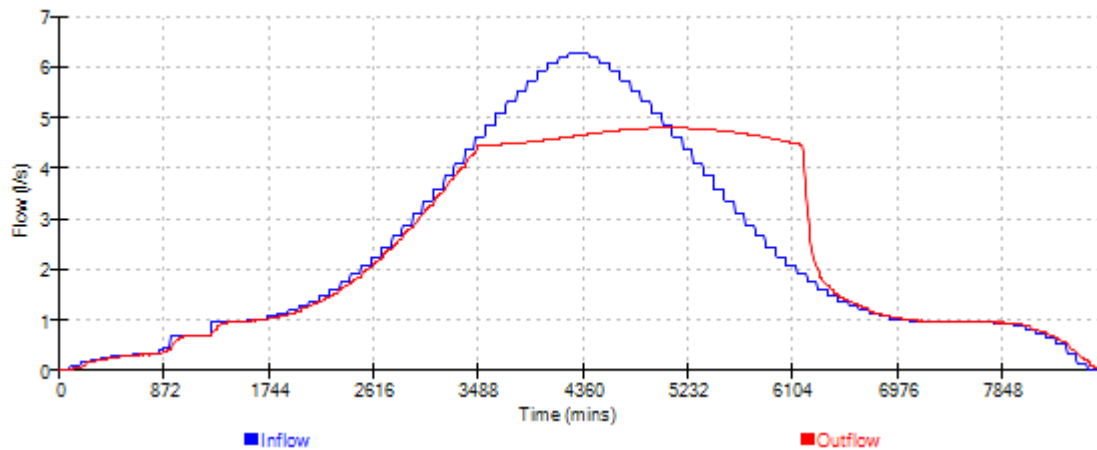
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Causeway		Source Control 2017.1.2

Cascade Event: 7200 min Winter for 15104 Soakaway cascade Rev B.SRCX



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Causeway		Source Control 2017.1.2

Cascade Event: 8640 min Winter for 15104 Soakaway cascade Rev B.SRCX



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Causeway		Source Control 2017.1.2

Cascade Event: 10080 min Winter for 15104 Soakaway cascade Rev B.SRCX

