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91 King Street Maidstone Kent ME14 1BQ	GTR Fontwell Revision E	
Date 13/01/2022 File 15104 GTR Fontwell Rev ...	Designed by DPM Checked by	
Causeway Network 2017.1.2		

Time Area Diagram for 15104 GTR FONTWELL.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.319	4-8	0.370	8-12	0.012

Total Area Contributing (ha) = 0.701

Total Pipe Volume (m³) = 24.379

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<u>STORM SEWER DESIGN by the Modified Rational Method</u> <u>Network Design Table for 15104 GTR FONTWELL.SWS</u> « - Indicates pipe capacity < flow											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
S1.000	40.637	0.275	147.8	0.116	5.00	0.0	0.600	o	225	Pipe/Conduit	
S1.001	17.732	0.120	147.8	0.074	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.002	17.750	0.120	147.9	0.061	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.003	17.750	0.120	147.9	0.065	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.004	18.598	0.125	148.8	0.048	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.005	32.260	2.500	12.9	0.024	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.006	13.925	0.860	16.2	0.061	0.00	0.0	0.600	o	225	Pipe/Conduit	
S2.000	23.568	0.235	100.3	0.000	5.00	0.0	0.600	o	225	Pipe/Conduit	
S2.001	23.568	0.235	100.3	0.016	0.00	0.0	0.600	o	225	Pipe/Conduit	
S2.002	14.945	0.250	59.8	0.023	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.007	27.111	0.180	150.6	0.052	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.008	21.456	0.150	143.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
S1.009	3.152	0.025	126.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
S1.010	26.914	0.025	1076.6	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
S3.000	12.030	0.300	40.1	0.063	5.00	0.0	0.600	o	225	Pipe/Conduit	
S3.001	13.713	0.090	152.4	0.006	0.00	0.0	0.600	o	225	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
S1.000	50.00	5.63	28.675	0.116	0.0	0.0	0.0	1.07	42.7	20.9	
S1.001	50.00	5.91	28.400	0.190	0.0	0.0	0.0	1.07	42.7	34.3	
S1.002	50.00	6.18	28.280	0.251	0.0	0.0	0.0	1.07	42.7«	45.3	
S1.003	50.00	6.46	28.160	0.316	0.0	0.0	0.0	1.07	42.7«	57.1	
S1.004	50.00	6.75	28.040	0.364	0.0	0.0	0.0	1.07	42.5«	65.7	
S1.005	50.00	6.89	27.915	0.388	0.0	0.0	0.0	3.66	145.6	70.1	
S1.006	50.00	6.97	25.415	0.449	0.0	0.0	0.0	3.27	129.9	81.1	
S2.000	50.00	5.30	25.275	0.000	0.0	0.0	0.0	1.31	51.9	0.0	
S2.001	50.00	5.60	25.040	0.016	0.0	0.0	0.0	1.31	51.9	2.9	
S2.002	50.00	5.75	24.805	0.039	0.0	0.0	0.0	1.69	67.4	7.0	
S1.007	50.00	7.39	24.555	0.540	0.0	0.0	0.0	1.06	42.3«	97.5	
S1.008	50.00	7.66	24.000	0.540	0.0	0.0	0.0	1.31	92.8«	97.5	
S1.009	50.00	7.70	23.850	0.540	0.0	0.0	0.0	1.40	98.9	97.5	
S1.010	50.00	8.31	23.825	0.540	0.0	0.0	0.0	0.73	207.5	97.5	
S3.000	50.00	5.10	25.425	0.063	0.0	0.0	0.0	2.07	82.4	11.4	
S3.001	50.00	5.31	25.125	0.069	0.0	0.0	0.0	1.06	42.0	12.5	
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<u>STORM SEWER DESIGN by the Modified Rational Method</u> <u>Network Design Table for 15104 GTR FONTWELL.SWS</u>											
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
S3.002	6.895	0.045	153.2	0.014	0.00	0.0	0.600	o	225	Pipe/Conduit	
S3.003	17.238	0.115	149.9	0.041	0.00	0.0	0.600	o	225	Pipe/Conduit	
S4.000	12.602	0.450	28.0	0.037	5.00	0.0	0.600	o	150	Pipe/Conduit	
S3.004	21.707	0.875	24.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
S3.005	4.632	0.100	46.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
S3.006	4.587	0.100	45.9	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
S1.011	10.095	0.100	101.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.012	5.629	0.055	102.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
<u>Network Results Table</u>											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
S3.002	50.00	5.42	25.035	0.083	0.0	0.0	0.0	1.05	41.9	15.0	
S3.003	50.00	5.69	24.990	0.124	0.0	0.0	0.0	1.07	42.4	22.4	
S4.000	50.00	5.11	25.400	0.037	0.0	0.0	0.0	1.91	33.8	6.7	
S3.004	50.00	5.83	24.875	0.161	0.0	0.0	0.0	2.64	104.9	29.1	
S3.005	50.00	5.87	24.000	0.161	0.0	0.0	0.0	1.93	76.6	29.1	
S3.006	50.00	5.89	23.900	0.161	0.0	0.0	0.0	3.60	1018.4	29.1	
S1.011	50.00	8.44	23.650	0.701	0.0	0.0	0.0	1.30	51.7«	126.6	
S1.012	50.00	8.51	23.550	0.701	0.0	0.0	0.0	1.29	51.4«	126.6	
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Manhole Schedules for 15104 GTR FONTWELL.SWS									
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)
S1	29.500	0.825	Open Manhole	600	S1.000	28.675	225		
S2	29.500	1.100	Open Manhole	600	S1.001	28.400	225	S1.000	28.400
S3	29.350	1.070	Open Manhole	600	S1.002	28.280	225	S1.001	28.280
S4	29.350	1.190	Open Manhole	600	S1.003	28.160	225	S1.002	28.160
S5	29.350	1.310	Open Manhole	600	S1.004	28.040	225	S1.003	28.040
S6	29.300	1.385	Open Manhole	600	S1.005	27.915	225	S1.004	27.915
S7	26.700	1.285	Open Manhole	600	S1.006	25.415	225	S1.005	25.415
S15	26.100	0.825	Open Manhole	600	S2.000	25.275	225		
S16	26.100	1.060	Open Manhole	600	S2.001	25.040	225	S2.000	25.040
S17	26.100	1.295	Open Manhole	600	S2.002	24.805	225	S2.001	24.805
S8	26.200	1.645	Open Manhole	600	S1.007	24.555	225	S1.006	24.555
								S2.002	24.555
S9	26.200	2.200	Open Manhole	1200	S1.008	24.000	300	S1.007	24.375
S10	25.000	1.150	Open Manhole	1200	S1.009	23.850	300	S1.008	23.850
S11 Inlet	25.200	1.375	Open Manhole	300	S1.010	23.825	600	S1.009	23.825
S18	26.120	0.695	Open Manhole	225	S3.000	25.425	225		
S19	25.840	0.715	Open Manhole	600	S3.001	25.125	225	S3.000	25.125
S20	25.800	0.765	Open Manhole	600	S3.002	25.035	225	S3.001	25.035
S21	25.800	0.810	Open Manhole	1200	S3.003	24.990	225	S3.002	24.990
S25	26.050	0.650	Open Manhole	600	S4.000	25.400	150		
S22	25.950	1.075	Open Manhole	600	S3.004	24.875	225	S3.003	24.875
								S4.000	24.950
S23	25.800	1.800	Open Manhole	600	S3.005	24.000	225	S3.004	24.000
S24 Inlet	25.200	1.300	Open Manhole	225	S3.006	23.900	600	S3.005	23.900
S12 Outlet	25.200	1.550	Open Manhole	225	S1.011	23.650	225	S1.010	23.800
								S3.006	23.800
S13	26.600	3.050	Open Manhole	1200	S1.012	23.550	225	S1.011	23.550
S14	26.600	3.105	Open Manhole	0		OUTFALL		S1.012	23.495
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<u>Simulation Criteria for 15104 GTR FONTWELL.SWS</u> Volumetric Runoff Coeff 1.000 Additional Flow - % of Total Flow 0.000 Areal Reduction Factor 1.000 MADD Factor * 10m³/ha Storage 2.000 Hot Start (mins) 0 Inlet Coefficient 0.800 Hot Start Level (mm) 0 Flow per Person per Day (l/per/day) 0.000 Manhole Headloss Coeff (Global) 0.500 Run Time (mins) 60 Foul Sewage per hectare (l/s) 0.000 Output Interval (mins) 1 Number of Input Hydrographs 0 Number of Storage Structures 16 Number of Online Controls 0 Number of Time/Area Diagrams 0 Number of Offline Controls 0 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Profile Type</td> <td>Summer</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>Cv (Summer)</td> <td>1.000</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>Storm Duration (mins)</td> <td>30</td> </tr> <tr> <td>Ratio R</td> <td>0.400</td> <td></td> <td></td> </tr> </table>			Rainfall Model	FSR	Profile Type	Summer	Return Period (years)	100	Cv (Summer)	1.000	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	19.800	Storm Duration (mins)	30	Ratio R	0.400		
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<u>Storage Structures for 15104 GTR FONTWELL.SWS</u> <u>Porous Car Park Manhole: S1, DS/PN: S1.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>15.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>5.0</td></tr><tr><td>Max Percolation (l/s)</td><td>20.8</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Cap Volume Depth (m)</td><td>0.650</td></tr></table> <u>Porous Car Park Manhole: S2, DS/PN: S1.001</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>16.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.2</td></tr><tr><td>Max Percolation (l/s)</td><td>58.7</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Cap Volume Depth (m)</td><td>0.650</td></tr></table> <u>Porous Car Park Manhole: S3, DS/PN: S1.002</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>16.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>22.1</td></tr><tr><td>Max Percolation (l/s)</td><td>98.2</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Cap Volume Depth (m)</td><td>0.500</td></tr></table> <u>Porous Car Park Manhole: S4, DS/PN: S1.003</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>16.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>22.4</td></tr><tr><td>Max Percolation (l/s)</td><td>99.6</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Cap Volume Depth (m)</td><td>0.500</td></tr></table> <u>Porous Car Park Manhole: S5, DS/PN: S1.004</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>16.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>22.4</td></tr><tr><td>Max Percolation (l/s)</td><td>99.6</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Cap Volume Depth (m)</td><td>0.500</td></tr></table> <u>Porous Car Park Manhole: S6, DS/PN: S1.005</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Max Percolation (l/s)</td><td>49.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Safety Factor</td><td>1.5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	15.0	Membrane Percolation (mm/hr)	1000	Length (m)	5.0	Max Percolation (l/s)	20.8	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Cap Volume Depth (m)	0.650	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	16.0	Membrane Percolation (mm/hr)	1000	Length (m)	13.2	Max Percolation (l/s)	58.7	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Cap Volume Depth (m)	0.650	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	16.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.1	Max Percolation (l/s)	98.2	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Cap Volume Depth (m)	0.500	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	16.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.4	Max Percolation (l/s)	99.6	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Cap Volume Depth (m)	0.500	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	16.0	Membrane Percolation (mm/hr)	1000	Length (m)	22.4	Max Percolation (l/s)	99.6	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Cap Volume Depth (m)	0.500	Infiltration Coefficient Base (m/hr)	0.00000	Max Percolation (l/s)	49.8	Membrane Percolation (mm/hr)	1000	Safety Factor	1.5
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Max Percolation (l/s)	99.6	Slope (1:X)	500.0																																																																																																																															
Safety Factor	1.5	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	28.700	Cap Volume Depth (m)	0.500																																																																																																																															
Infiltration Coefficient Base (m/hr)	0.00000	Max Percolation (l/s)	49.8																																																																																																																															
Membrane Percolation (mm/hr)	1000	Safety Factor	1.5																																																																																																																															
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<u>Porous Car Park Manhole: S6, DS/PN: S1.005</u> <table><tr><td>Porosity</td><td>0.30</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Width (m)</td><td>11.0</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Length (m)</td><td>16.3</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S7, DS/PN: S1.006</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>40.0</td></tr><tr><td>Max Percolation (l/s)</td><td>66.7</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>26.250</td><td>Cap Volume Depth (m)</td><td>0.300</td></tr></table> <u>Porous Car Park Manhole: S17, DS/PN: S2.002</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>8.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.0</td></tr><tr><td>Max Percolation (l/s)</td><td>31.1</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>25.650</td><td>Cap Volume Depth (m)</td><td>0.300</td></tr></table> <u>Porous Car Park Manhole: S8, DS/PN: S1.007</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>16.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>20.5</td></tr><tr><td>Max Percolation (l/s)</td><td>91.1</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>25.600</td><td>Cap Volume Depth (m)</td><td>0.450</td></tr></table> <u>Porous Car Park Manhole: S18, DS/PN: S3.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>4.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>47.5</td></tr><tr><td>Max Percolation (l/s)</td><td>63.3</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>25.670</td><td>Cap Volume Depth (m)</td><td>0.300</td></tr></table> <u>Porous Car Park Manhole: S19, DS/PN: S3.001</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>4.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>12.5</td></tr><tr><td>Max Percolation (l/s)</td><td>16.7</td><td>Slope (1:X)</td><td>500.0</td></tr><tr><td>Safety Factor</td><td>1.5</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>25.390</td><td>Cap Volume Depth (m)</td><td>0.300</td></tr></table>			Porosity	0.30	Slope (1:X)	500.0	Invert Level (m)	28.700	Depression Storage (mm)	5	Width (m)	11.0	Evaporation (mm/day)	3	Length (m)	16.3	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	40.0	Max Percolation (l/s)	66.7	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	26.250	Cap Volume Depth (m)	0.300	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.6	Membrane Percolation (mm/hr)	1000	Length (m)	13.0	Max Percolation (l/s)	31.1	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	25.650	Cap Volume Depth (m)	0.300	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	16.0	Membrane Percolation (mm/hr)	1000	Length (m)	20.5	Max Percolation (l/s)	91.1	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	25.600	Cap Volume Depth (m)	0.450	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	4.8	Membrane Percolation (mm/hr)	1000	Length (m)	47.5	Max Percolation (l/s)	63.3	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	25.670	Cap Volume Depth (m)	0.300	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	4.8	Membrane Percolation (mm/hr)	1000	Length (m)	12.5	Max Percolation (l/s)	16.7	Slope (1:X)	500.0	Safety Factor	1.5	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	25.390	Cap Volume Depth (m)	0.300
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Causeway Network 2017.1.2		

Porous Car Park Manhole: S20, DS/PN: S3.002

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 4.8	
Membrane Percolation (mm/hr) 1000	Length (m) 29.0	
Max Percolation (l/s) 38.7	Slope (1:X) 500.0	
Safety Factor 1.5	Depression Storage (mm) 5	
Porosity 0.30	Evaporation (mm/day) 3	
Invert Level (m) 25.350	Cap Volume Depth (m) 0.300	

Porous Car Park Manhole: S21, DS/PN: S3.003

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 16.0	
Membrane Percolation (mm/hr) 1000	Length (m) 32.5	
Max Percolation (l/s) 144.4	Slope (1:X) 500.0	
Safety Factor 1.5	Depression Storage (mm) 5	
Porosity 0.30	Evaporation (mm/day) 3	
Invert Level (m) 25.350	Cap Volume Depth (m) 0.300	

Porous Car Park Manhole: S22, DS/PN: S3.004

Infiltration Coefficient Base (m/hr) 0.00000	Width (m) 16.0	
Membrane Percolation (mm/hr) 1000	Length (m) 31.8	
Max Percolation (l/s) 141.3	Slope (1:X) 500.0	
Safety Factor 1.5	Depression Storage (mm) 5	
Porosity 0.30	Evaporation (mm/day) 3	
Invert Level (m) 25.500	Cap Volume Depth (m) 0.300	

Tank or Pond Manhole: S12 Outlet, DS/PN: S1.011

Invert Level (m) 23.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	370.0	1.400	485.0

Cellular Storage Manhole: S13, DS/PN: S1.012

Invert Level (m) 22.800 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	1.201	0.0	383.2
1.200	300.0	383.1			

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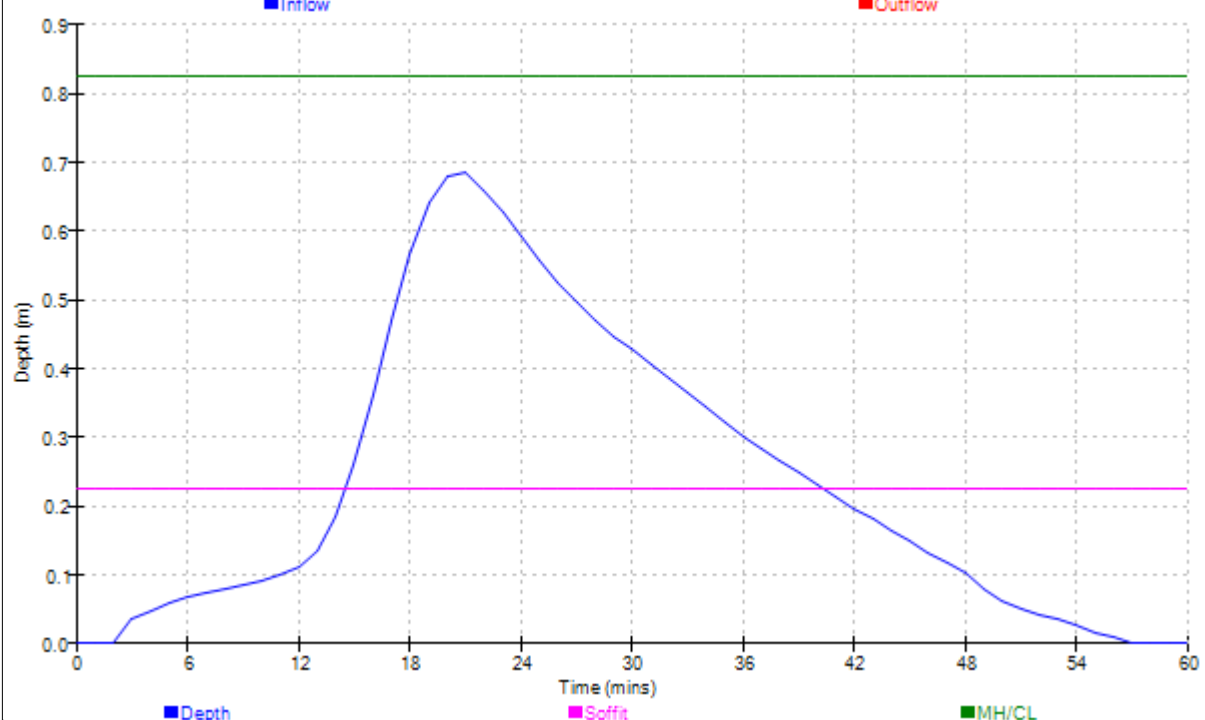
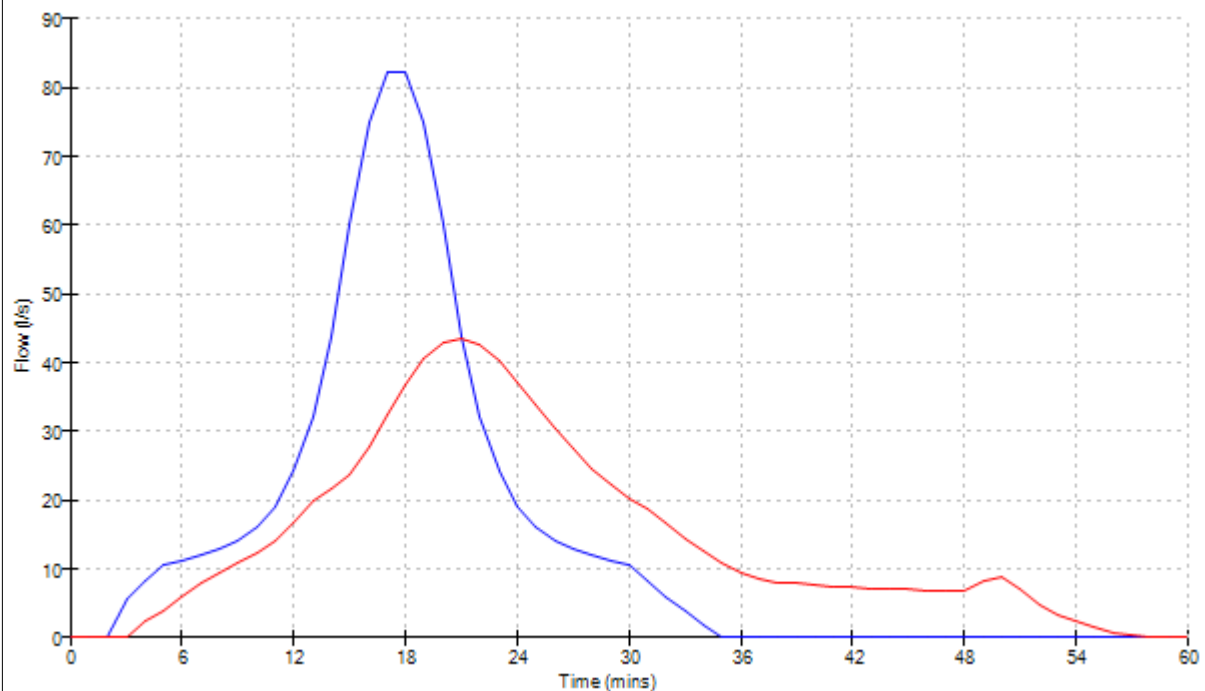
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Summary of Critical Results by Maximum Level (Rank 1) for 15104 GTR FONTWELL.SWS Simulation Criteria Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000 Hot Start Level (mm) 0 Inlet Coeffiecient 0.800 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000 Foul Sewage per hectare (l/s) 0.000 Number of Input Hydrographs 0 Number of Storage Structures 16 Number of Online Controls 0 Number of Time/Area Diagrams 0 Number of Offline Controls 0 Number of Real Time Controls 0 Synthetic Rainfall Details Rainfall Model FSR Ratio R 0.400 Region England and Wales Cv (Summer) 1.000 M5-60 (mm) 19.800 Cv (Winter) 1.000 Margin for Flood Risk Warning (mm) 150.0 DVD Status OFF Analysis Timestep Fine Inertia Status OFF DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 40 <table><tr><th>PN</th><th>US/MH Name</th><th>Storm</th><th>Return Period</th><th>Climate Change</th><th>First (X) Surcharge</th><th>First (Y) Flood</th><th>First (Z) Overflow</th><th>Overflow Act.</th></tr><tr><td>S1.000</td><td>S1</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.001</td><td>S2</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.002</td><td>S3</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.003</td><td>S4</td><td>30 Summer</td><td>100</td><td>+40%</td><td>1/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.004</td><td>S5</td><td>15 Summer</td><td>100</td><td>+40%</td><td>1/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.005</td><td>S6</td><td>15 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td></tr><tr><td>S1.006</td><td>S7</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S2.000</td><td>S15</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S2.001</td><td>S16</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S2.002</td><td>S17</td><td>30 Summer</td><td>100</td><td>+40%</td><td>1/30 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.007</td><td>S8</td><td>30 Summer</td><td>100</td><td>+40%</td><td>1/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.008</td><td>S9</td><td>30 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.009</td><td>S10</td><td>30 Summer</td><td>100</td><td>+40%</td><td>1/30 Summer</td><td></td><td></td><td></td></tr><tr><td>S1.010</td><td>S11 Inlet</td><td>60 Winter</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td></tr><tr><td>S3.000</td><td>S18</td><td>15 Summer</td><td>100</td><td>+40%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S3.001</td><td>S19</td><td>15 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S3.002</td><td>S20</td><td>15 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S3.003</td><td>S21</td><td>15 Summer</td><td>100</td><td>+40%</td><td>30/15 Summer</td><td></td><td></td><td></td></tr><tr><td>S4.000</td><td>S25</td><td>15 Summer</td><td>100</td><td>+40%</td><td></td><td></td><td></td><td></td></tr></table> ©1982-2017 XP Solutions			PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	S1.000	S1	30 Summer	100	+40%	30/15 Summer				S1.001	S2	30 Summer	100	+40%	30/15 Summer				S1.002	S3	30 Summer	100	+40%	30/15 Summer				S1.003	S4	30 Summer	100	+40%	1/15 Summer				S1.004	S5	15 Summer	100	+40%	1/15 Summer				S1.005	S6	15 Summer	100	+40%					S1.006	S7	30 Summer	100	+40%	30/15 Summer				S2.000	S15	30 Summer	100	+40%	30/15 Summer				S2.001	S16	30 Summer	100	+40%	30/15 Summer				S2.002	S17	30 Summer	100	+40%	1/30 Summer				S1.007	S8	30 Summer	100	+40%	1/15 Summer				S1.008	S9	30 Summer	100	+40%	30/15 Summer				S1.009	S10	30 Summer	100	+40%	1/30 Summer				S1.010	S11 Inlet	60 Winter	100	+40%					S3.000	S18	15 Summer	100	+40%	100/15 Summer				S3.001	S19	15 Summer	100	+40%	30/15 Summer				S3.002	S20	15 Summer	100	+40%	30/15 Summer				S3.003	S21	15 Summer	100	+40%	30/15 Summer				S4.000	S25	15 Summer	100	+40%				
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S3.002	S20	15 Summer	100	+40%	30/15 Summer																																																																																																																																																																																	
S3.003	S21	15 Summer	100	+40%	30/15 Summer																																																																																																																																																																																	
S4.000	S25	15 Summer	100	+40%																																																																																																																																																																																		

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<u>Summary of Critical Results by Maximum Level (Rank 1) for 15104 GTR FONTWELL.SWS</u>									
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	S1	29.361	0.461	0.000	1.08		43.6	FLOOD RISK	
S1.001	S2	29.081	0.456	0.000	1.14		43.6	SURCHARGED	
S1.002	S3	28.936	0.431	0.000	1.44		54.9	SURCHARGED	
S1.003	S4	28.792	0.407	0.000	1.57		59.9	SURCHARGED	
S1.004	S5	28.658	0.393	0.000	2.03		77.8	SURCHARGED	
S1.005	S6	28.058	-0.082	0.000	0.72		98.6	OK	
S1.006	S7	26.432	0.792	0.000	0.87		98.8	SURCHARGED	
S2.000	S15	25.831	0.331	0.000	-0.03		-1.5	SURCHARGED	
S2.001	S16	25.831	0.566	0.000	0.24		11.5	SURCHARGED	
S2.002	S17	25.826	0.796	0.000	0.25		14.6	SURCHARGED	
S1.007	S8	25.819	1.039	0.000	2.58		101.0	SURCHARGED	
S1.008	S9	24.625	0.325	0.000	1.24		101.0	SURCHARGED	
S1.009	S10	24.394	0.244	0.000	1.78		101.0	SURCHARGED	
S1.010	S11 Inlet	24.235	-0.190	0.000	0.79		100.1	OK	
S3.000	S18	25.684	0.034	0.000	0.67		46.9	SURCHARGED	
S3.001	S19	25.577	0.227	0.000	1.13		41.2	SURCHARGED	
S3.002	S20	25.467	0.207	0.000	1.58		47.2	SURCHARGED	
S3.003	S21	25.384	0.169	0.000	1.58		59.6	SURCHARGED	
S4.000	S25	25.529	-0.021	0.000	0.93		28.5	OK	
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<u>Summary of Critical Results by Maximum Level (Rank 1) for 15104 GTR FONTWELL.SWS</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
S3.004	S22	15 Summer	100	+40%	100/15 Summer			
S3.005	S23	15 Summer	100	+40%	30/15 Summer			
S3.006	S24 Inlet	60 Winter	100	+40%				
S1.011	S12 Outlet	60 Winter	100	+40%	30/15 Summer			
S1.012	S13	180 Summer	100	+40%	100/60 Summer			
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Level Exceeded
S3.004	S22	25.135	0.035	0.000	0.87		83.6	SURCHARGED
S3.005	S23	24.466	0.241	0.000	1.87		83.5	SURCHARGED
S3.006	S24 Inlet	24.163	-0.337	0.000	0.17		60.3	OK
S1.011	S12 Outlet	24.162	0.287	0.000	1.99		86.1	SURCHARGED
S1.012	S13	23.826	0.051	0.000	1.46		48.2	SURCHARGED
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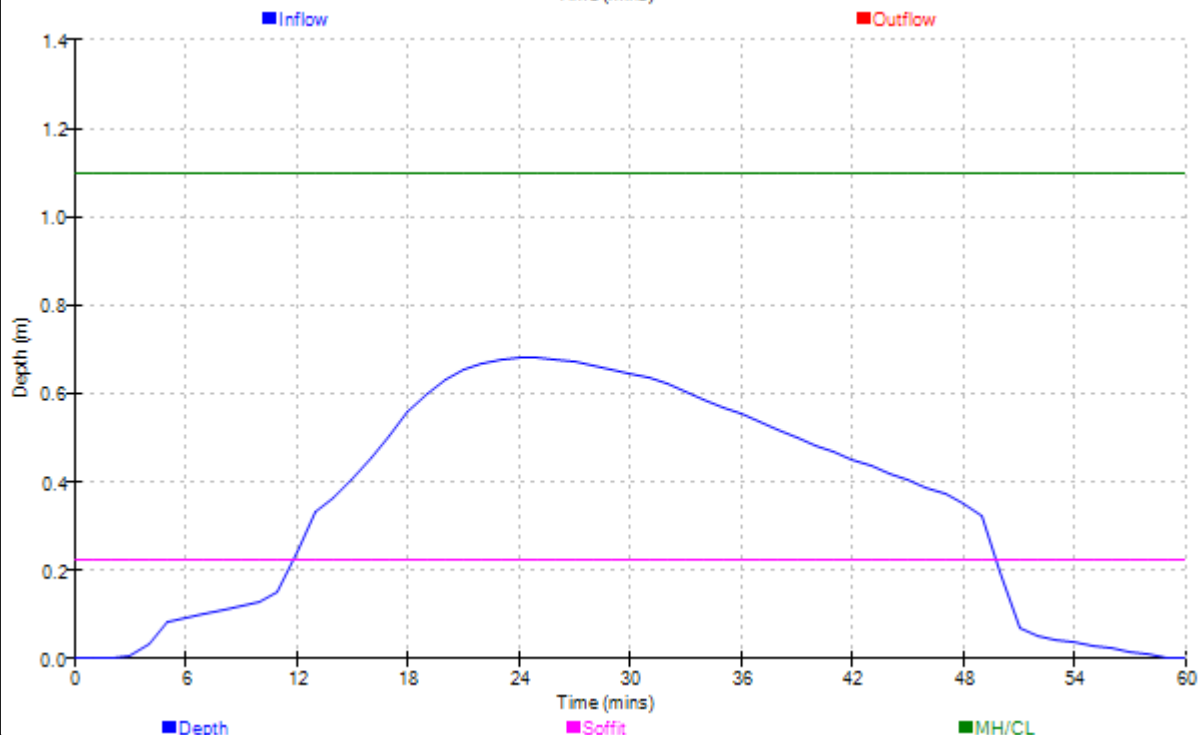
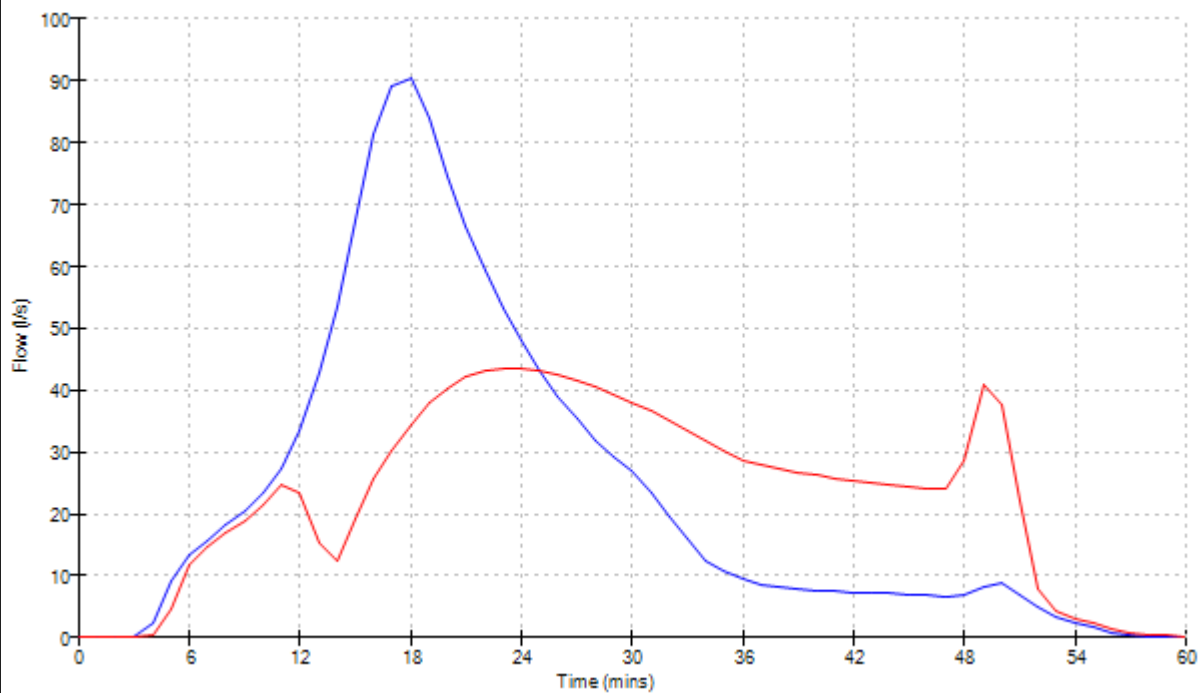
Graphs for Pipe S1.000 US/MH S1 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: FLOOD RISK



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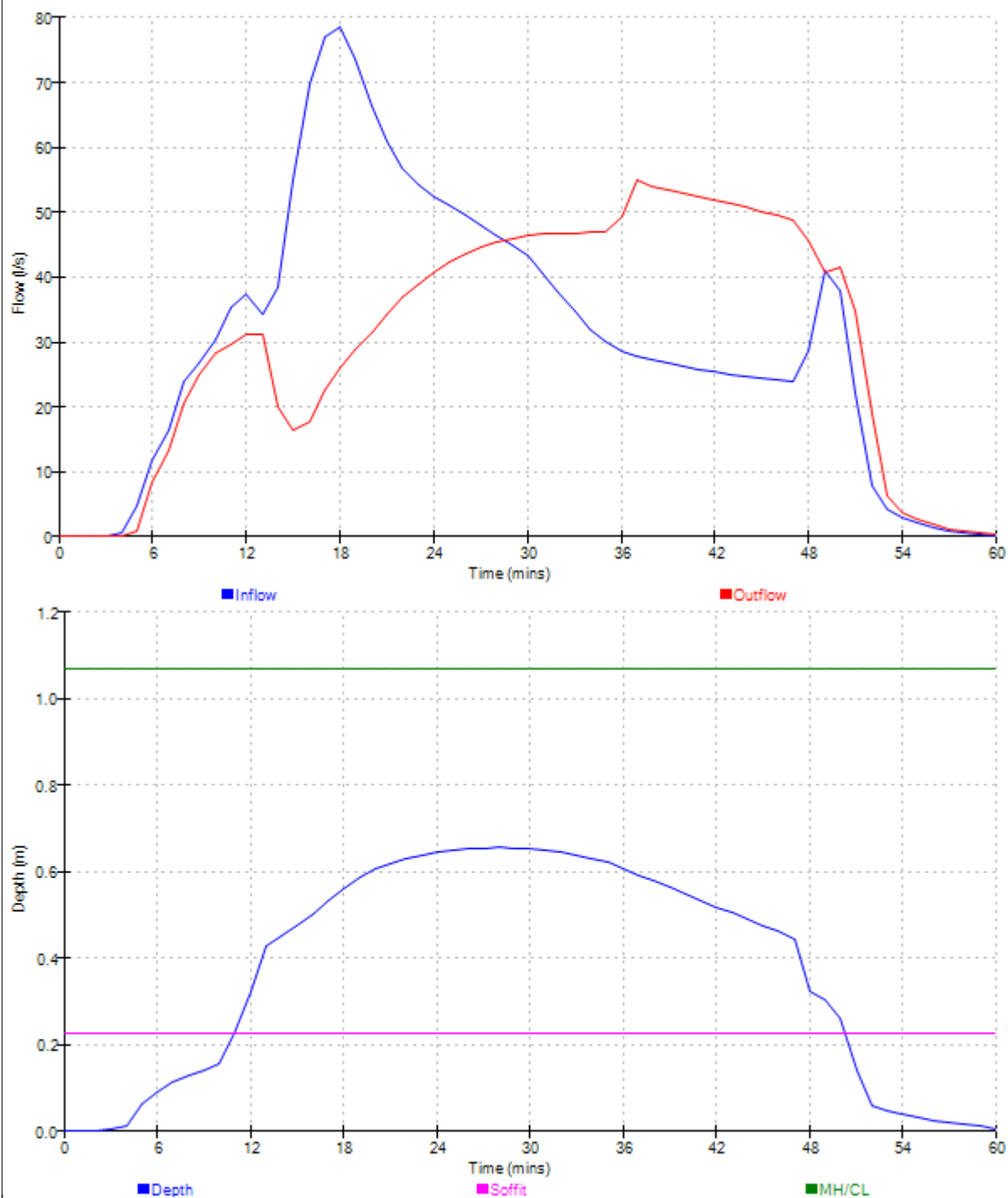
Graphs for Pipe S1.001 US/MH S2 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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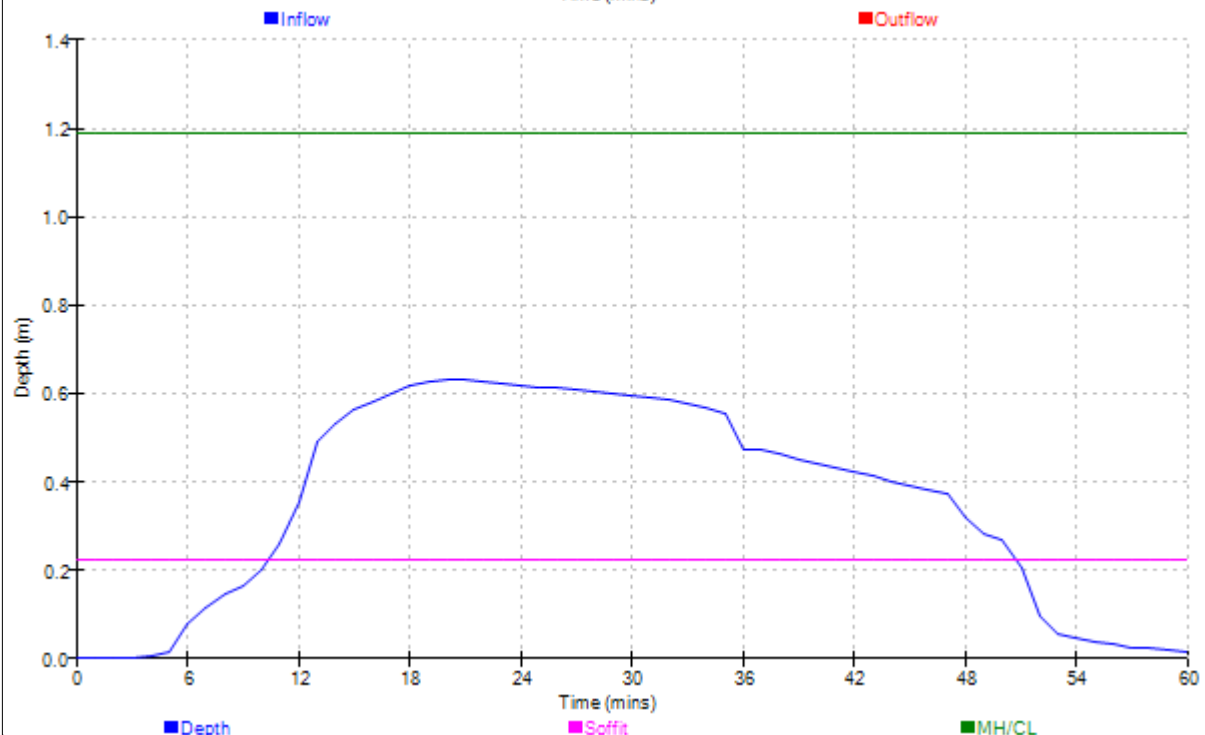
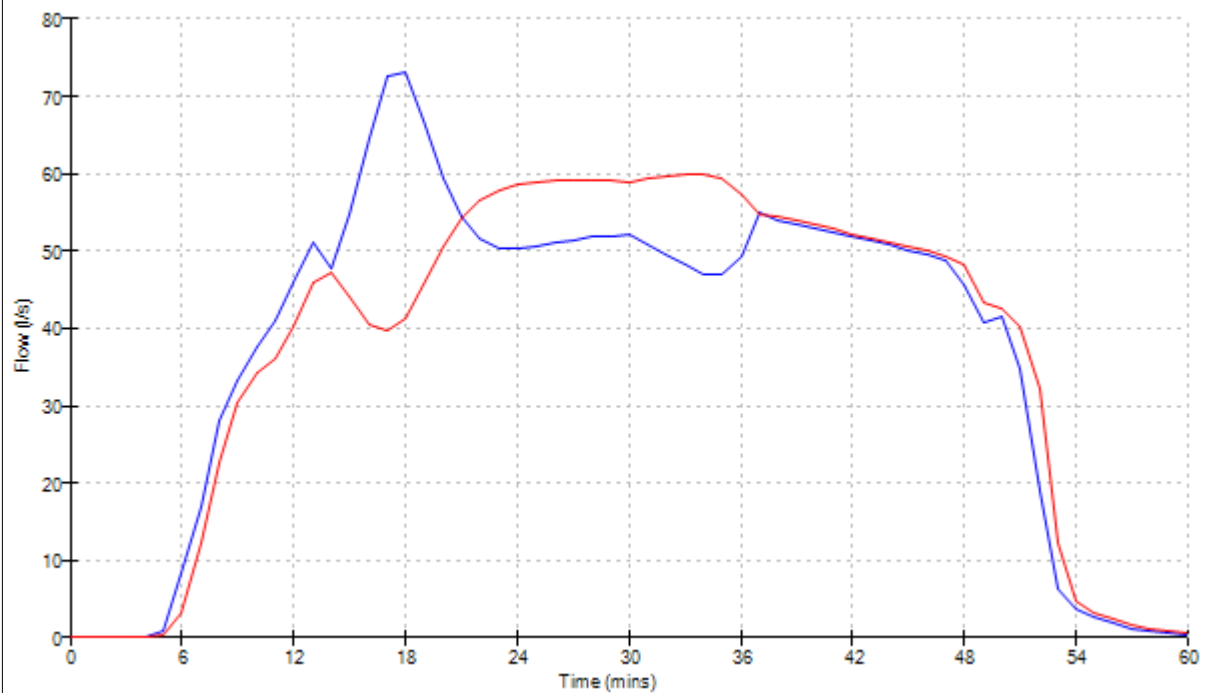
Graphs for Pipe S1.002 US/MH S3 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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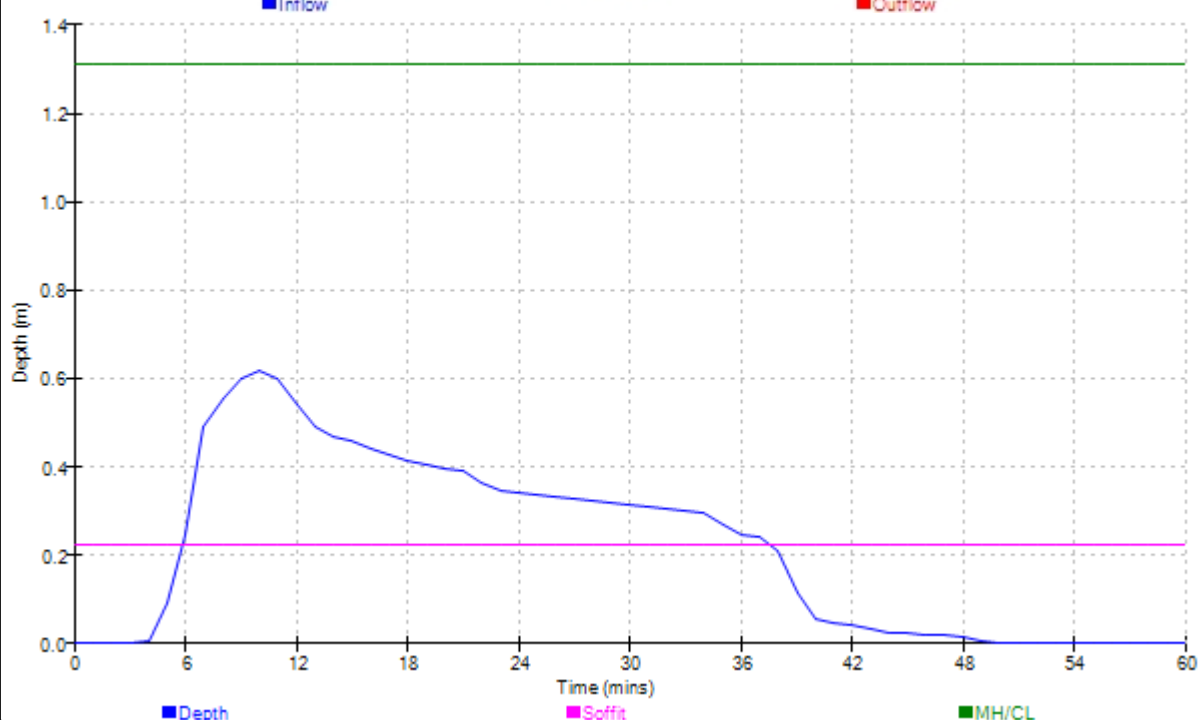
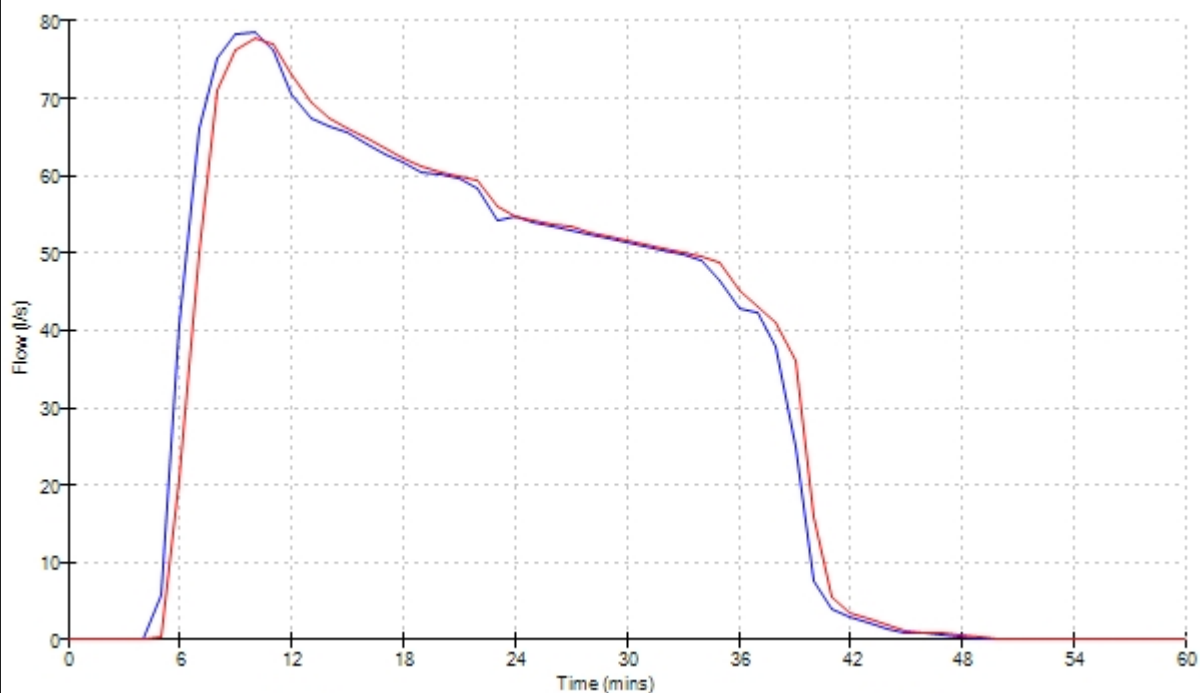
Graphs for Pipe S1.003 US/MH S4 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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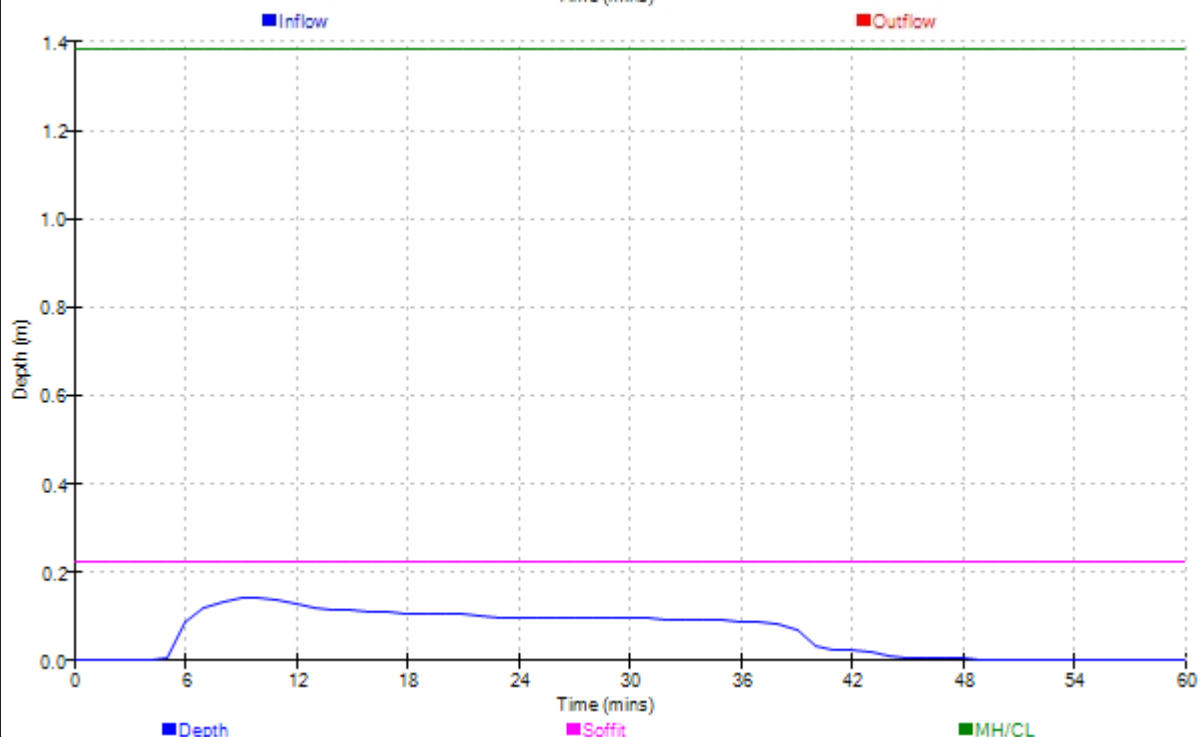
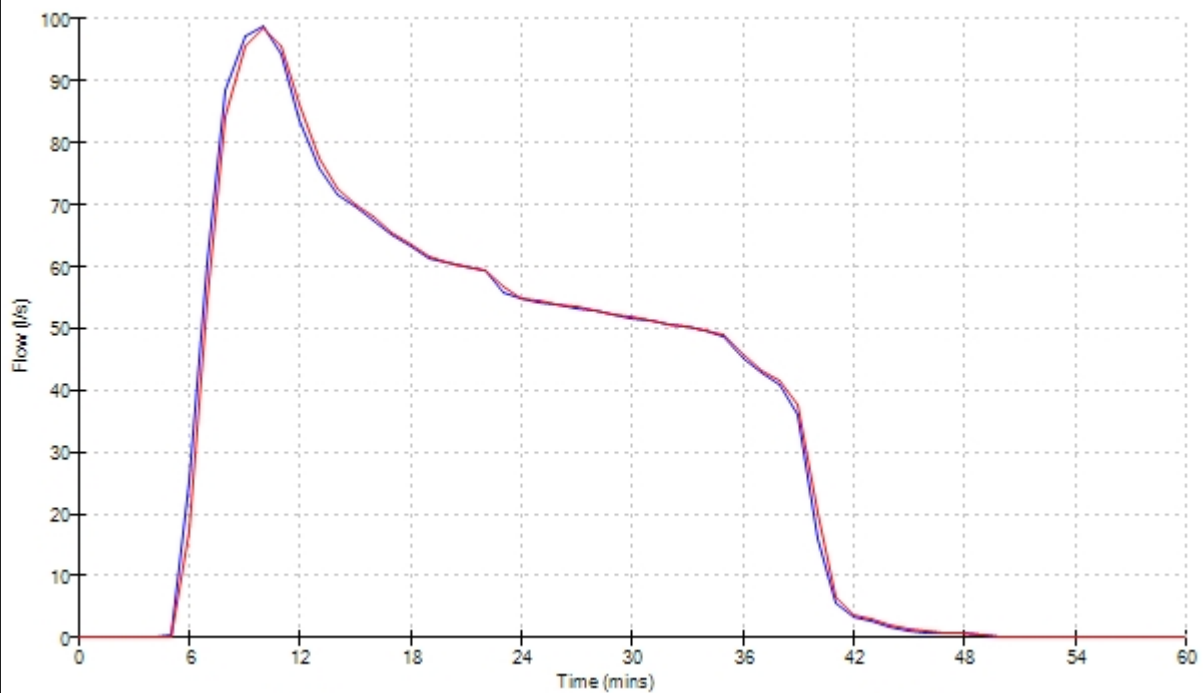
Graphs for Pipe S1.004 US/MH S5 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: SURCHARGED



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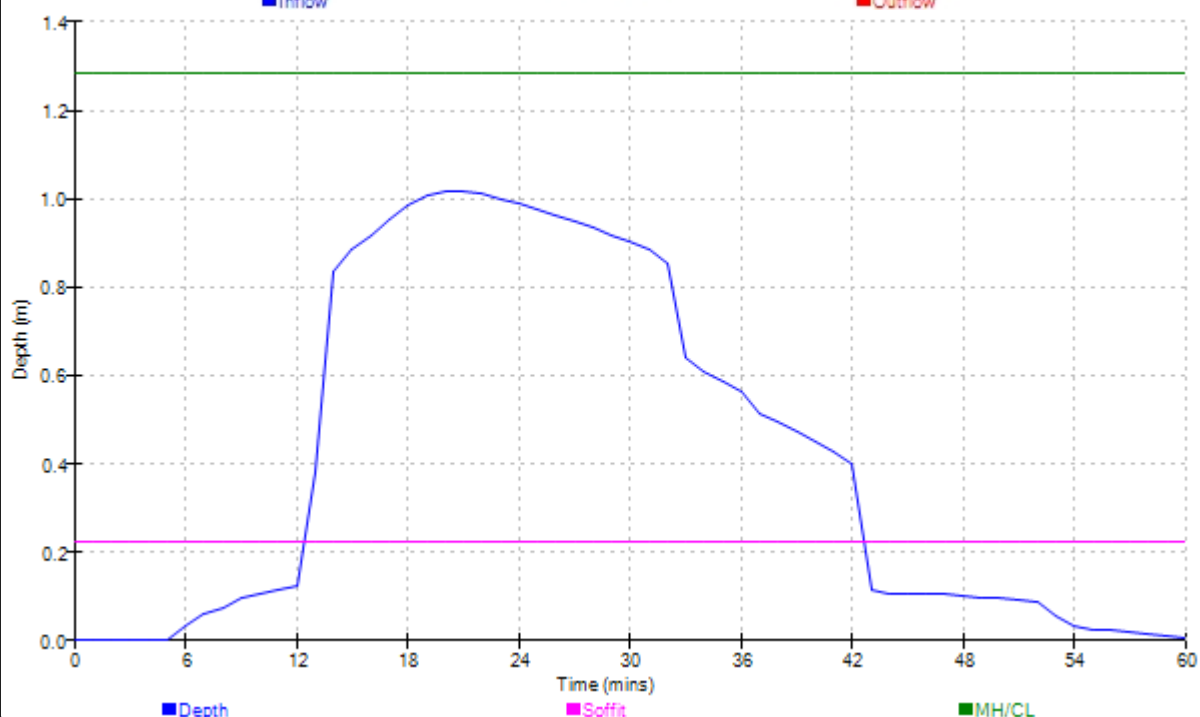
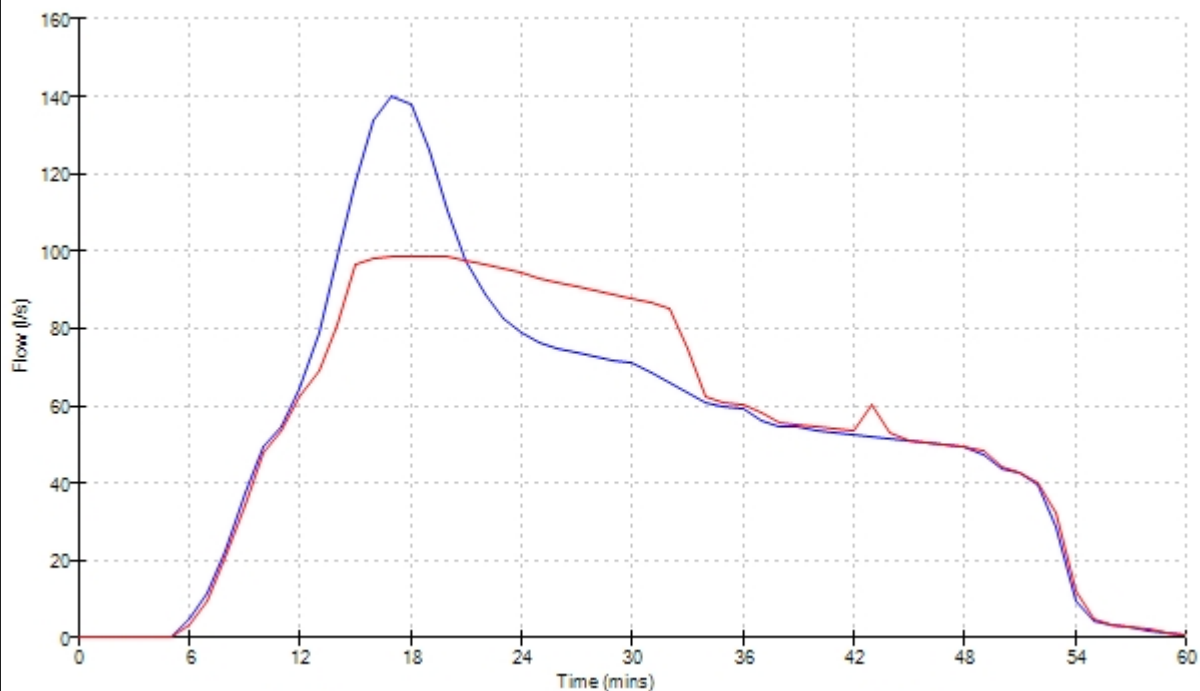
Graphs for Pipe S1.005 US/MH S6 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: OK



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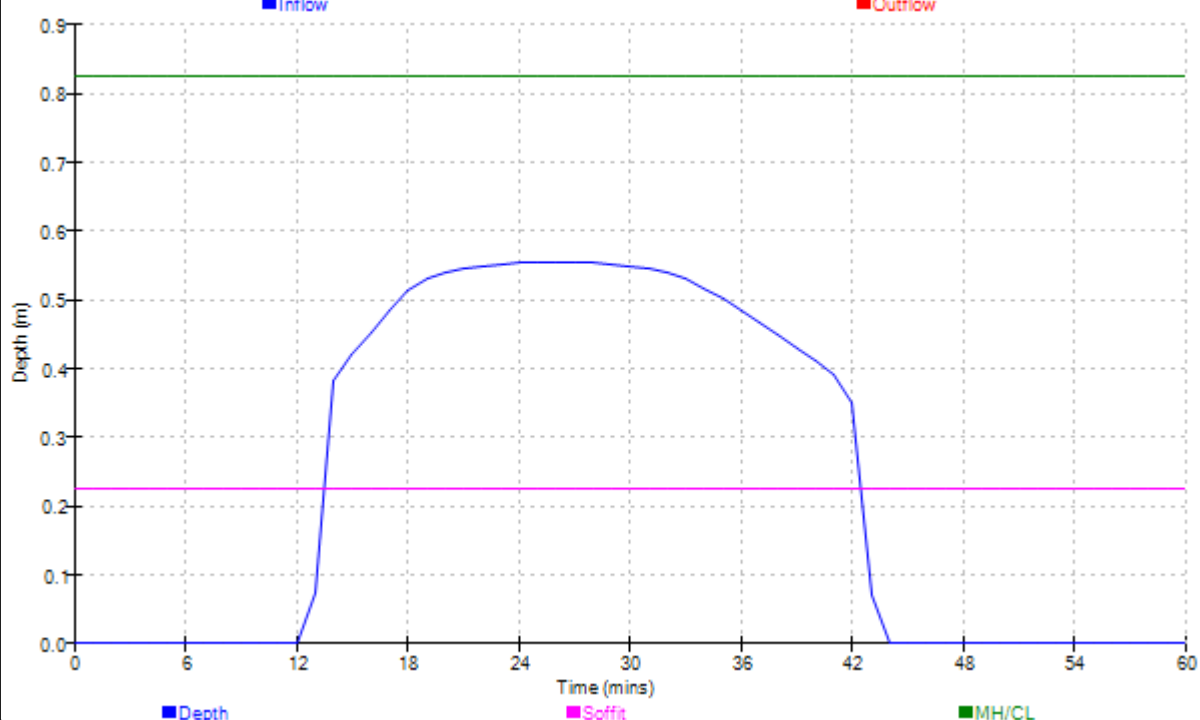
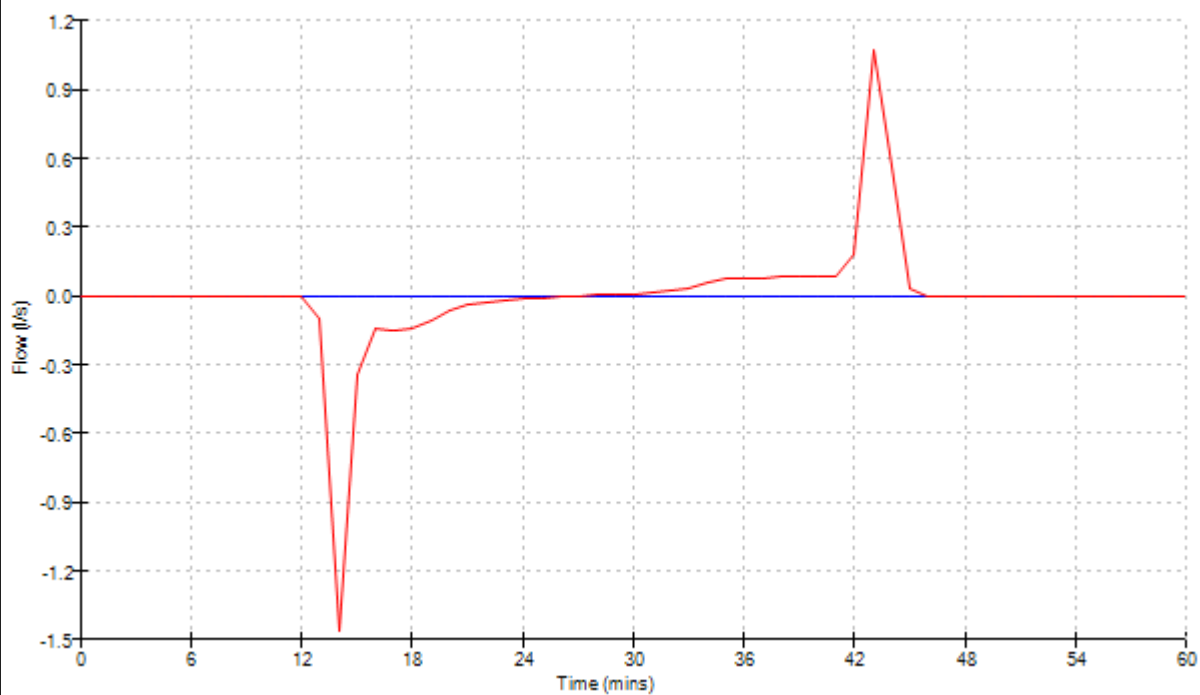
Graphs for Pipe S1.006 US/MH S7 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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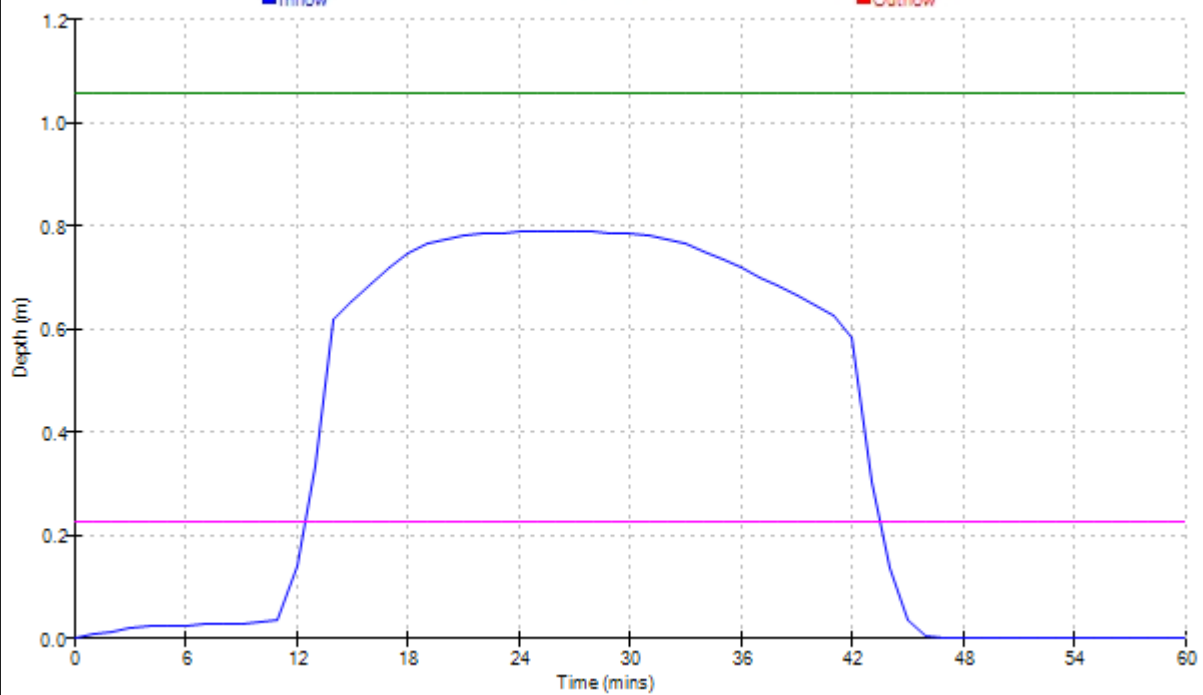
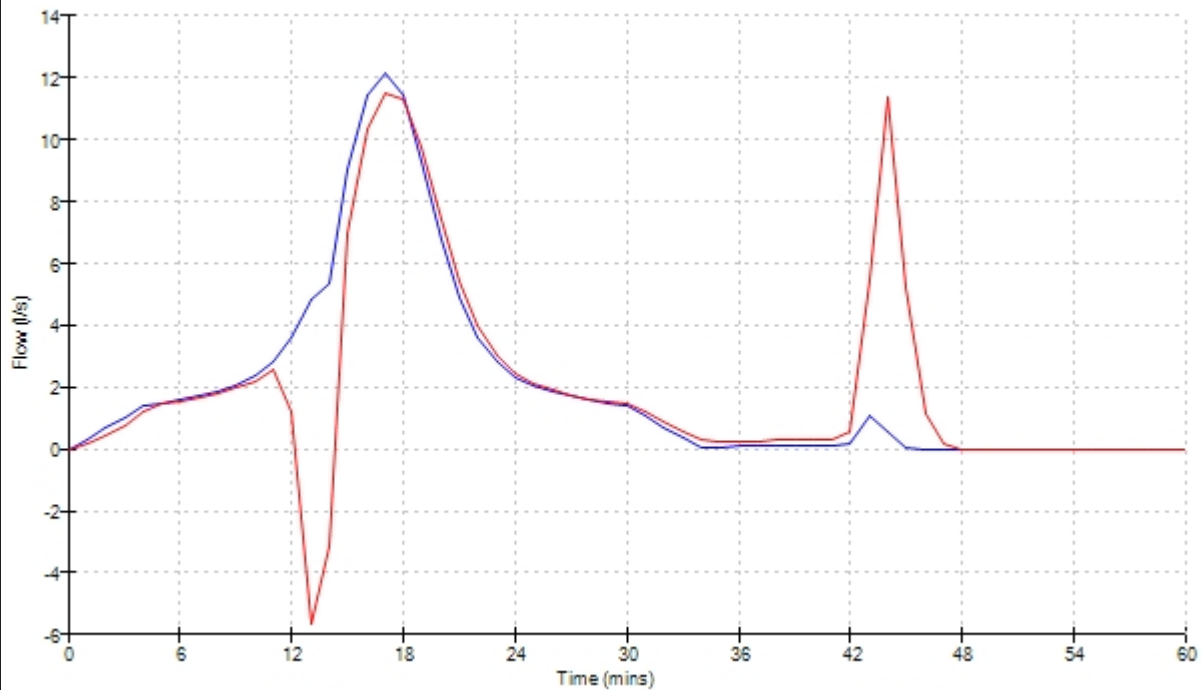
Graphs for Pipe S2.000 US/MH S15 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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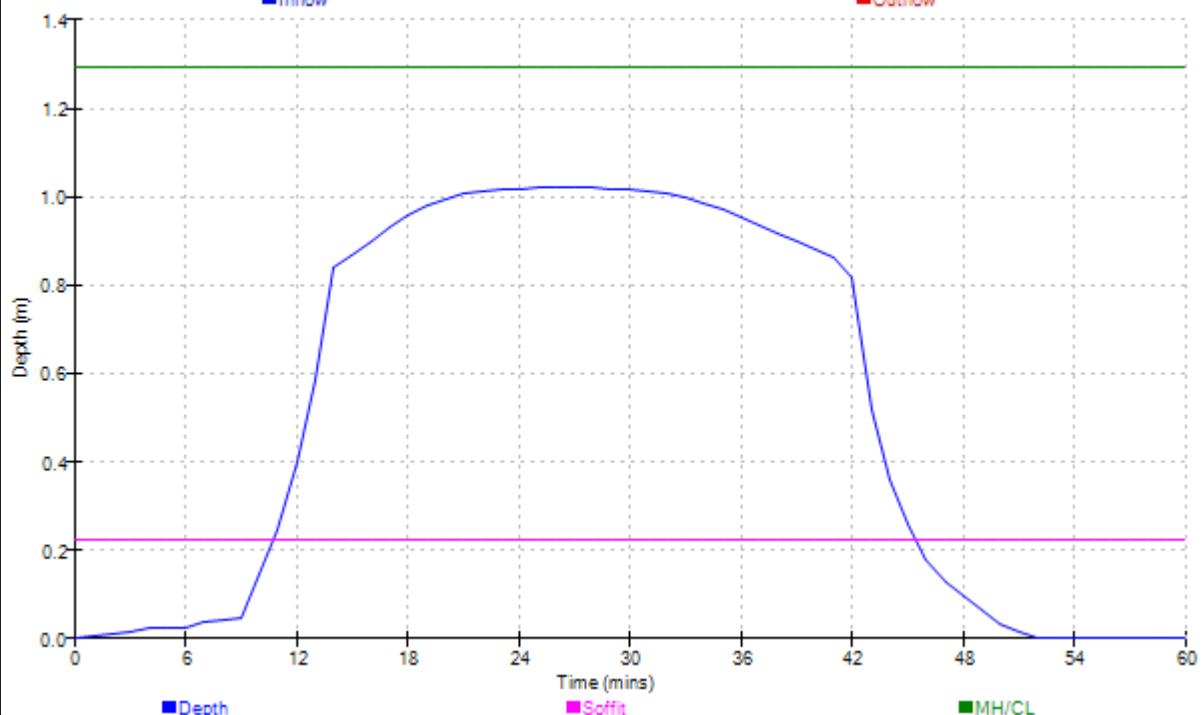
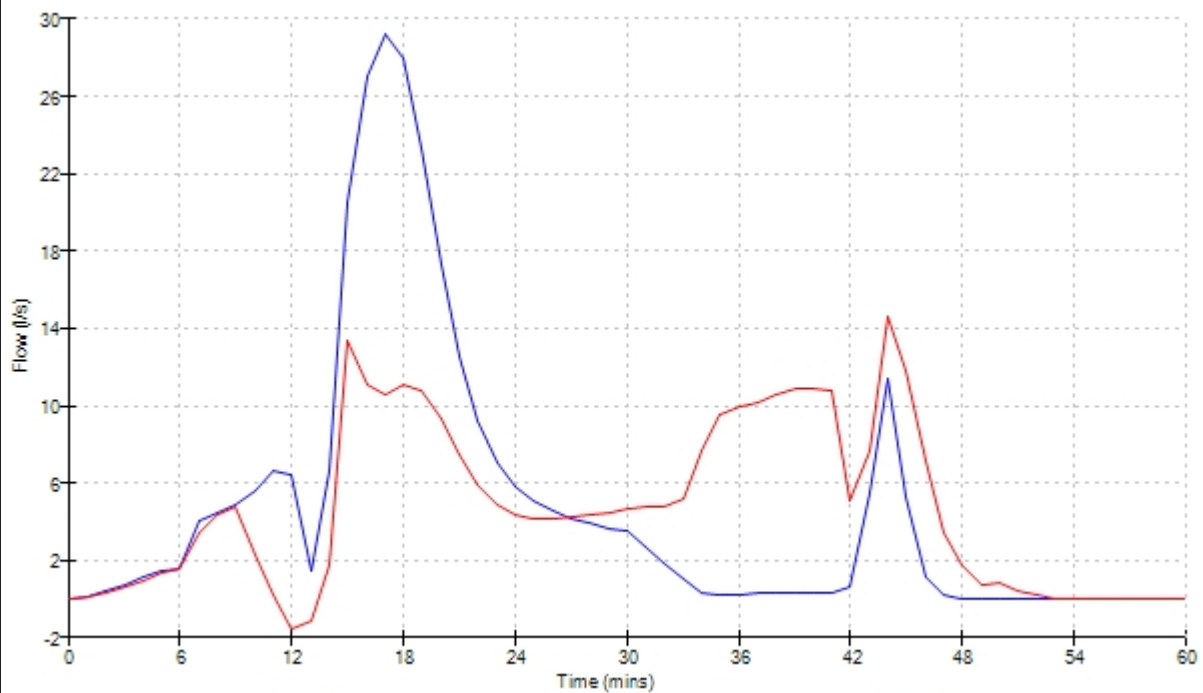
Graphs for Pipe S2.001 US/MH S16 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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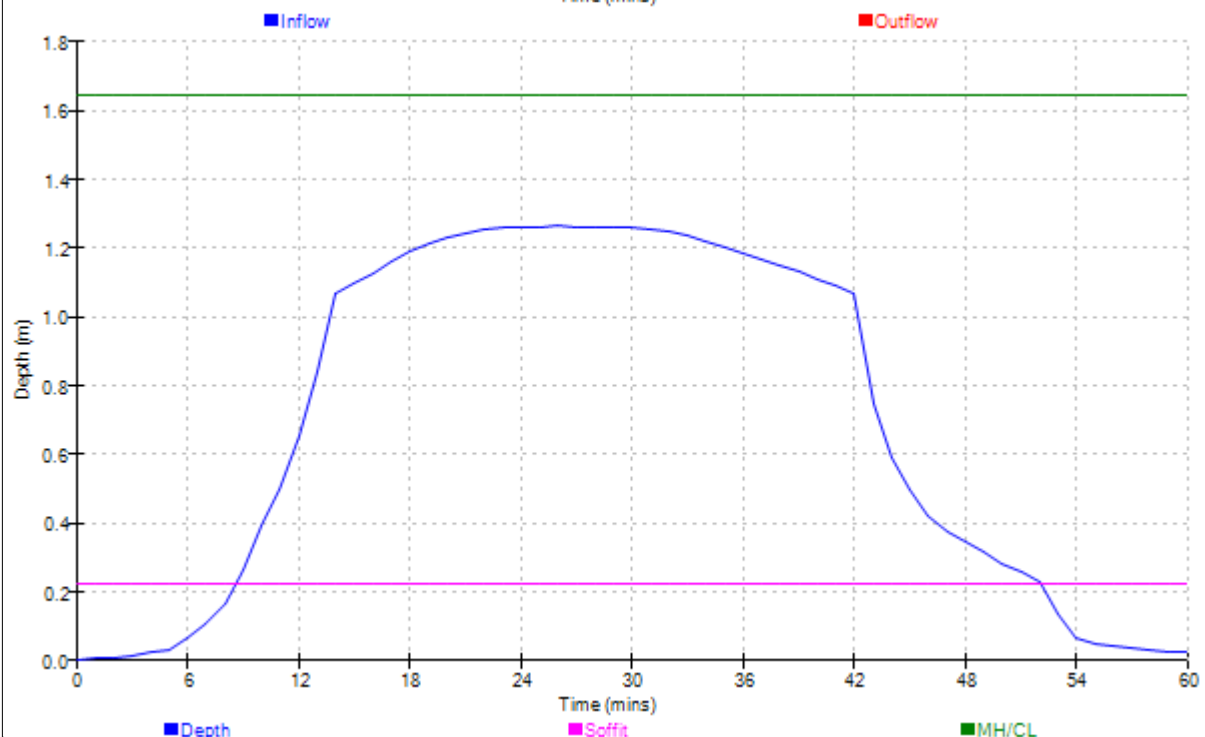
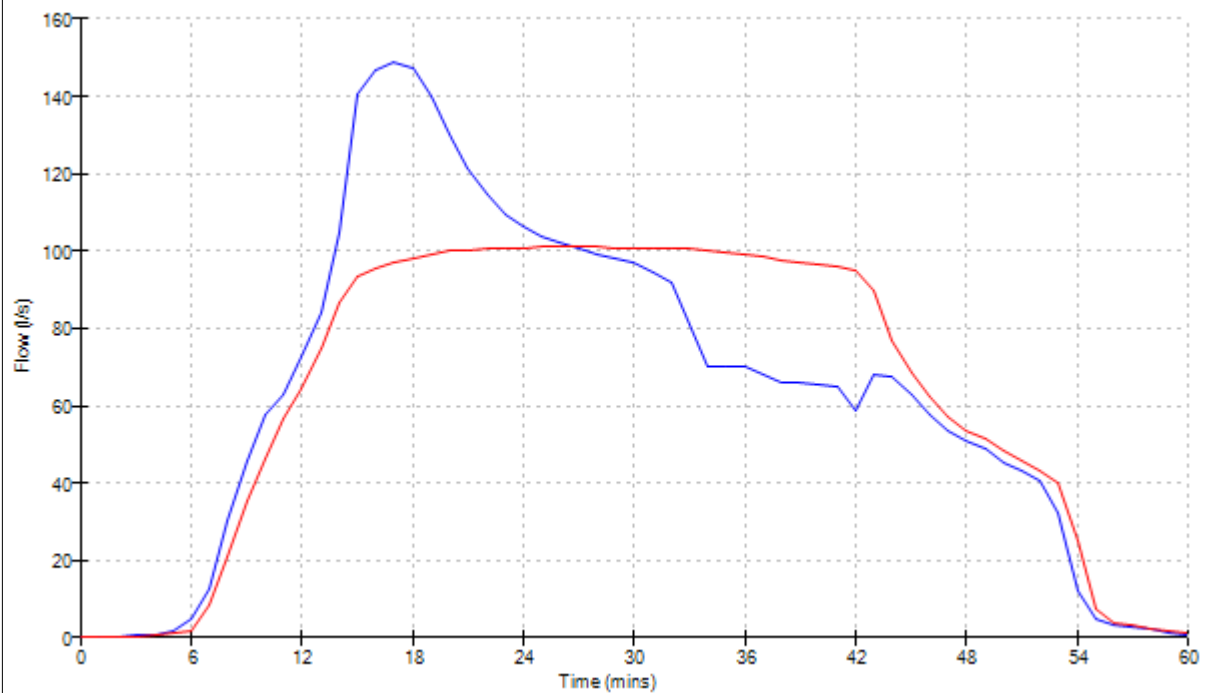
Graphs for Pipe S2.002 US/MH S17 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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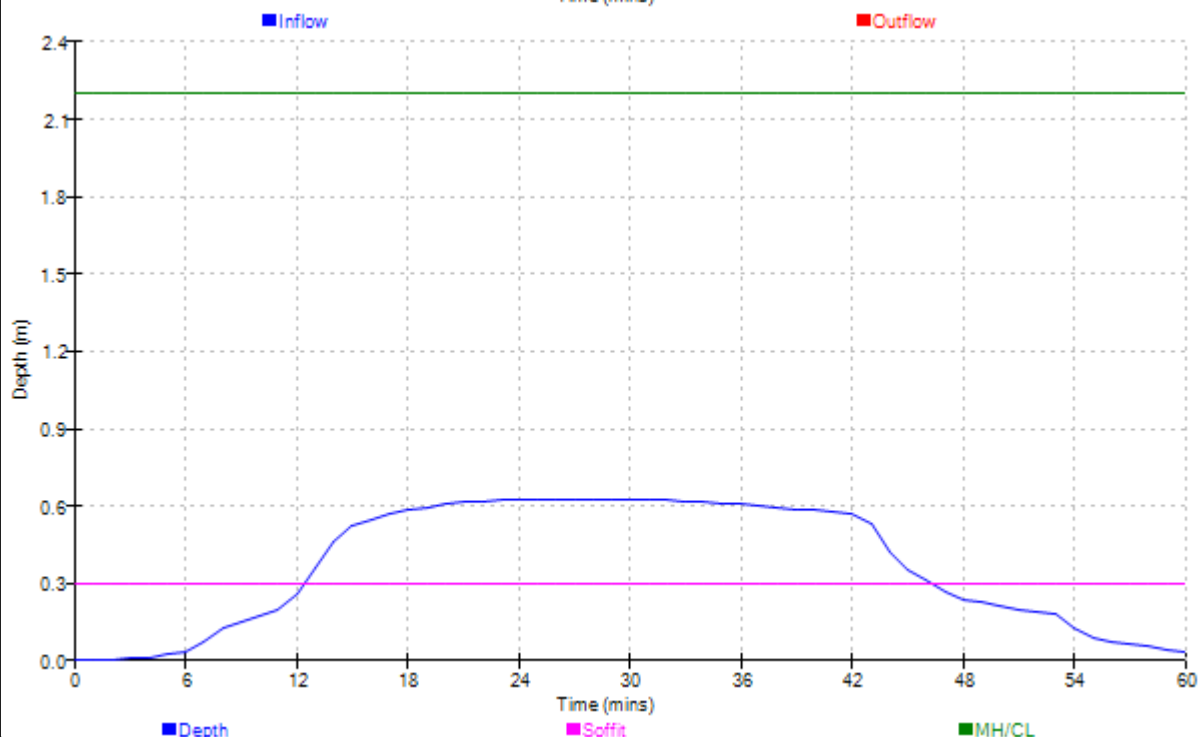
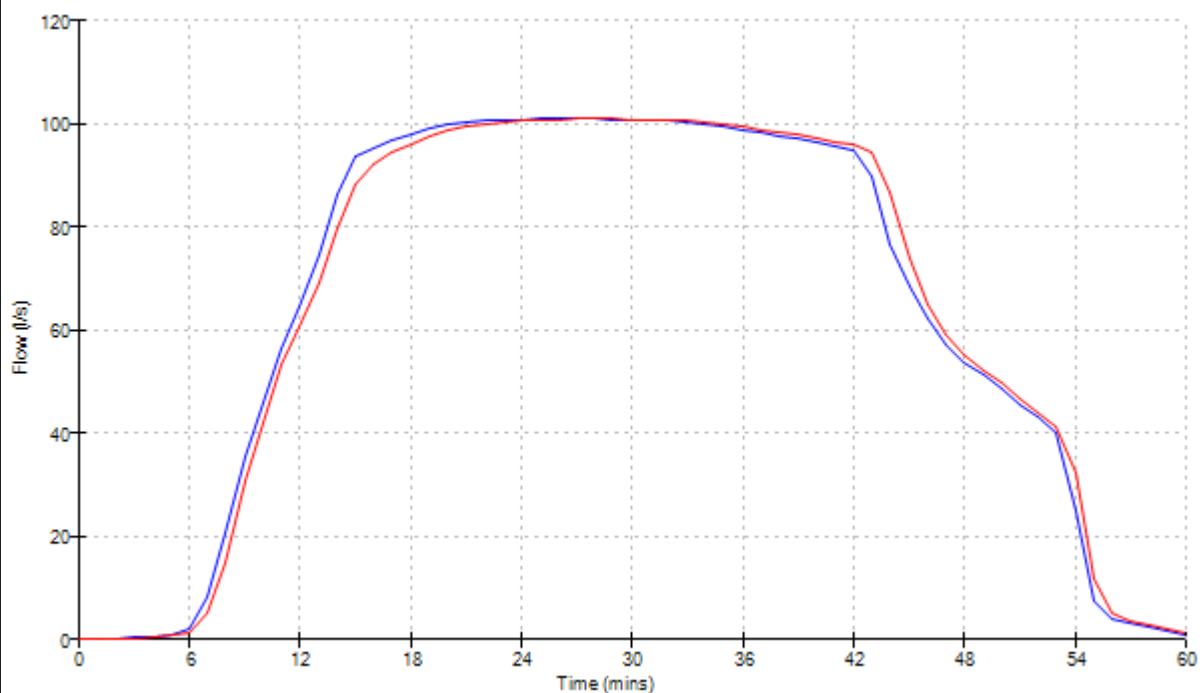
Graphs for Pipe S1.007 US/MH S8 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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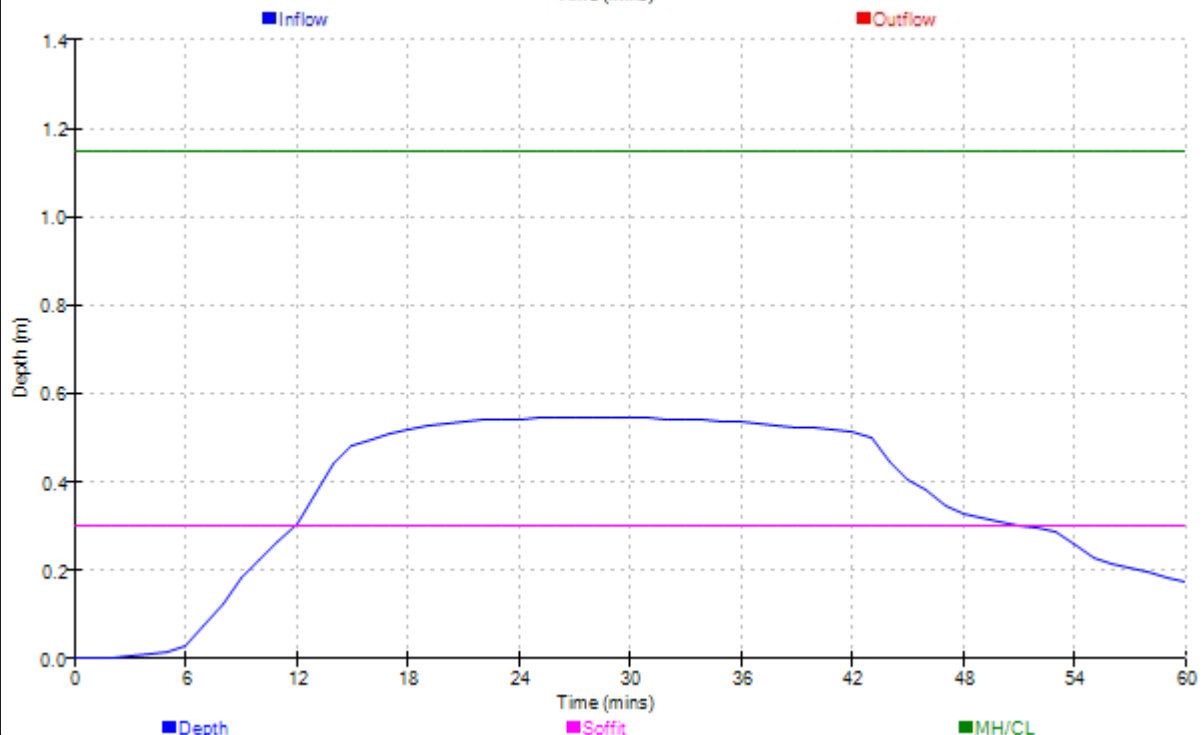
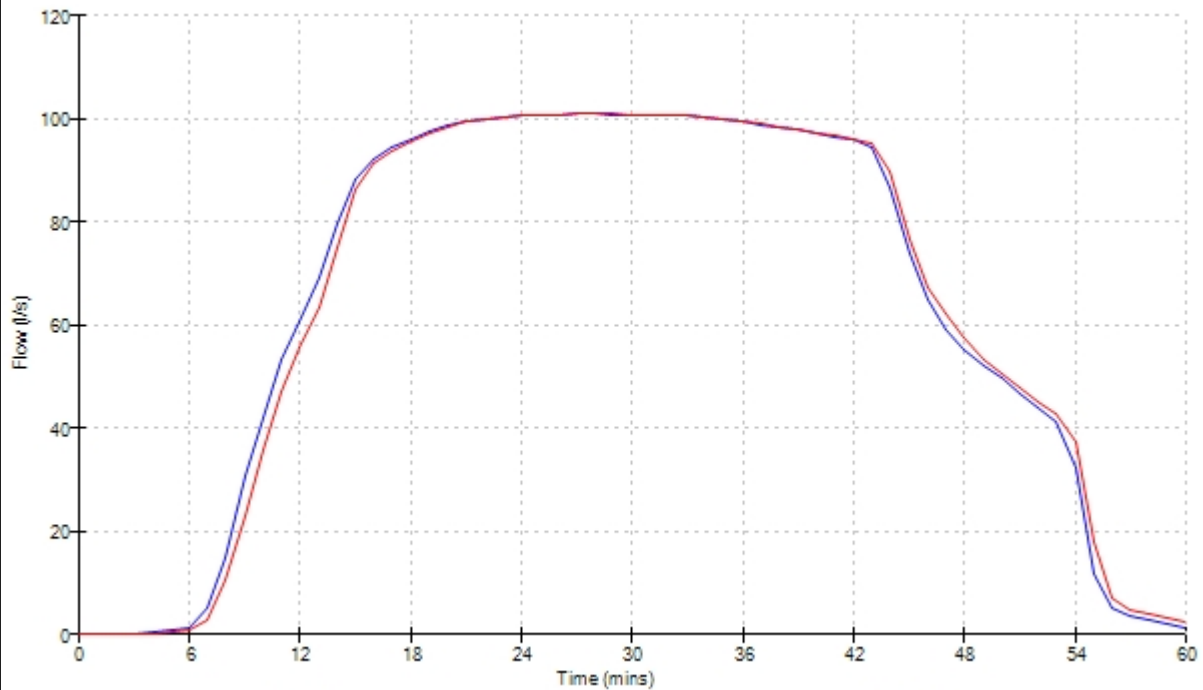
Graphs for Pipe S1.008 US/MH S9 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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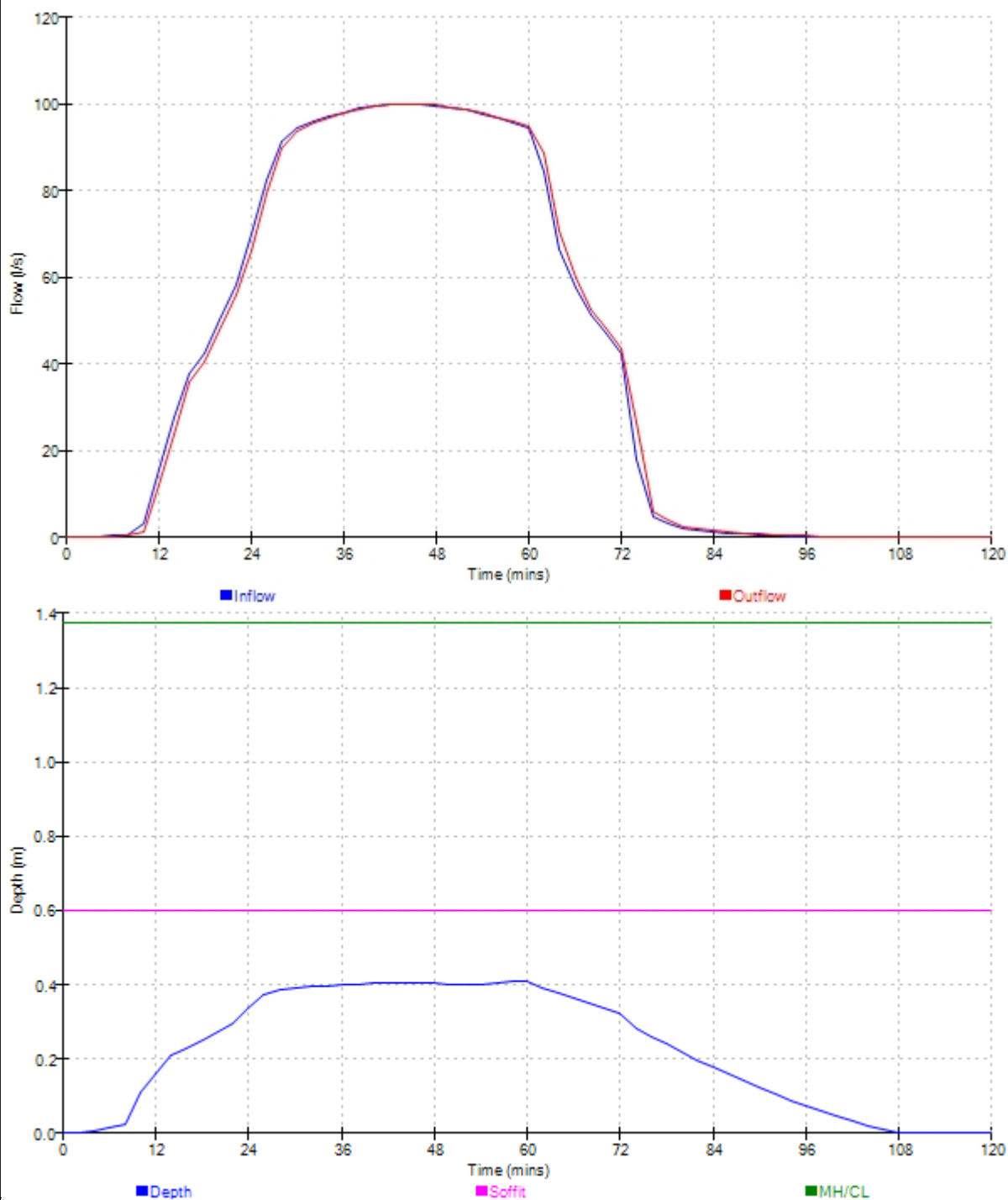
Graphs for Pipe S1.009 US/MH S10 (15104 GTR FONTWELL.SWS)
30 minute 100 year Summer I+40%
Status: SURCHARGED



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Graphs for Pipe S1.010 US/MH S11 Inlet (15104 GTR FONTWELL.SWS)
60 minute 100 year Winter I+40%
Status: OK



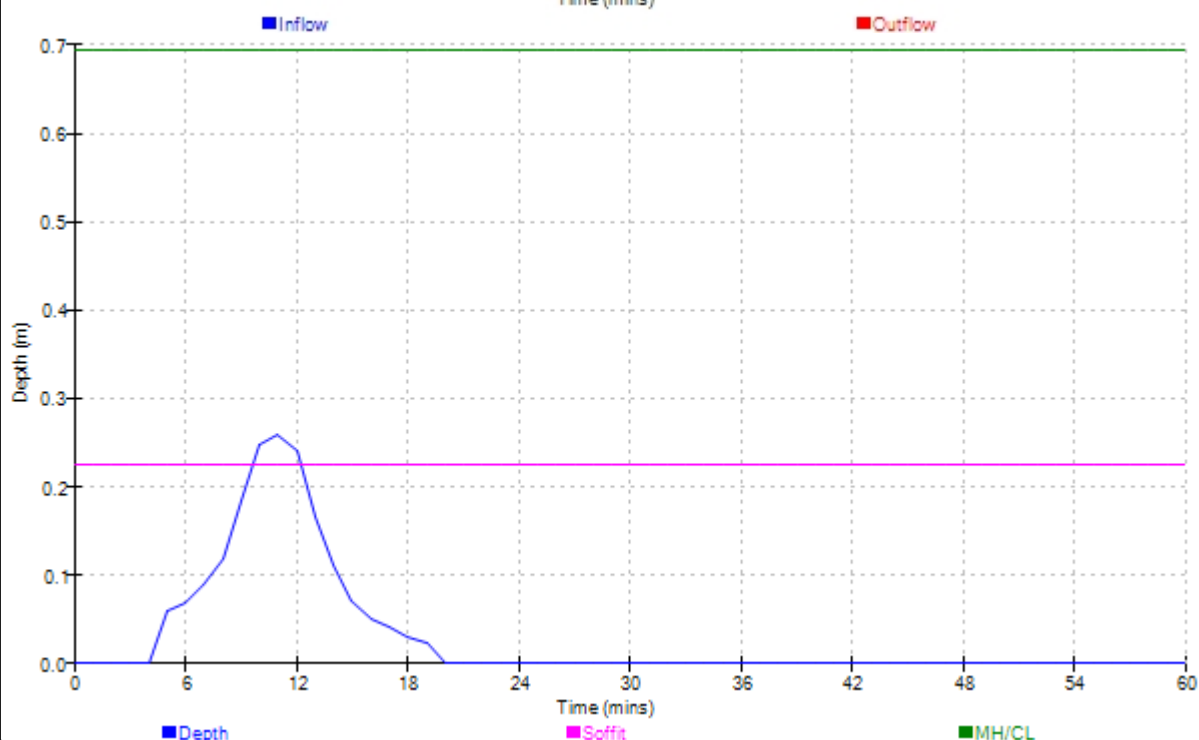
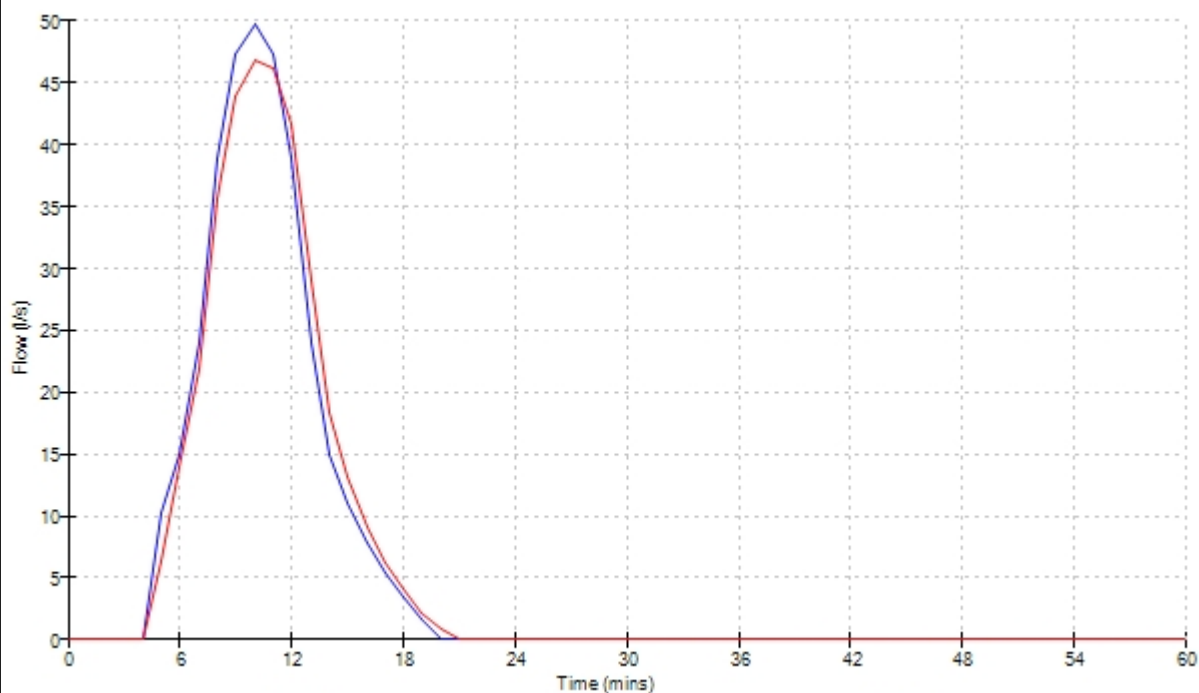
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Graphs for Pipe S3.000 US/MH S18 (15104 GTR FONTWELL.SWS)

15 minute 100 year Summer I+40%

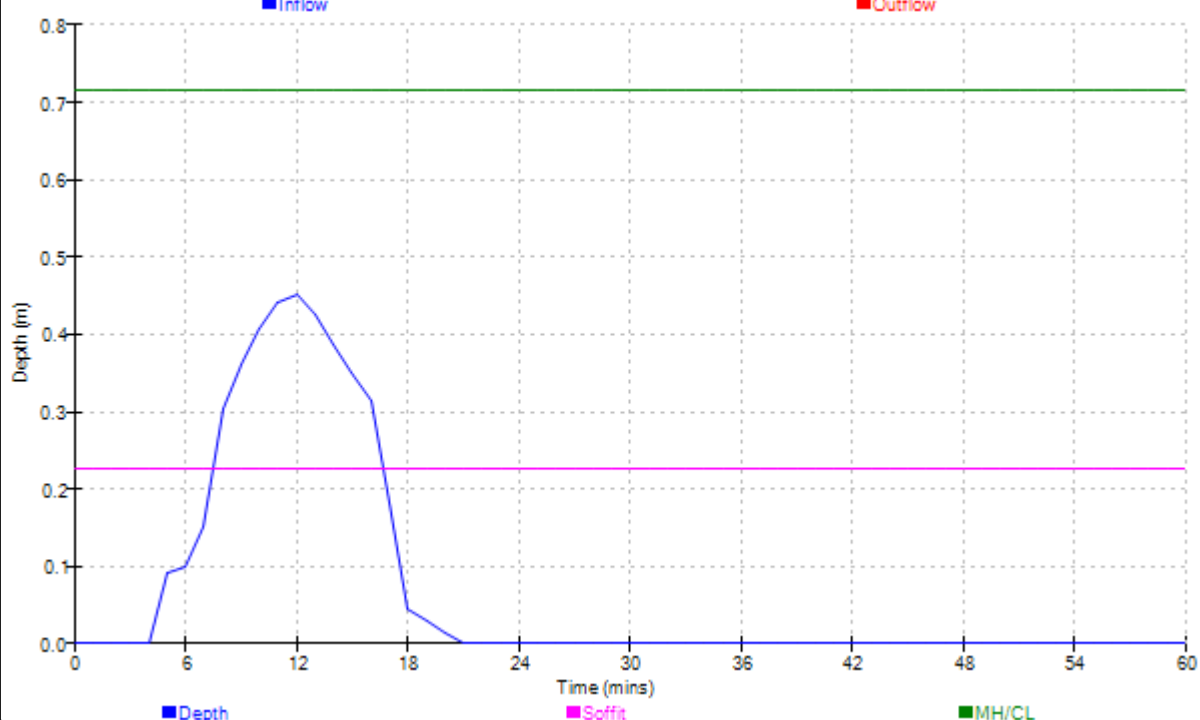
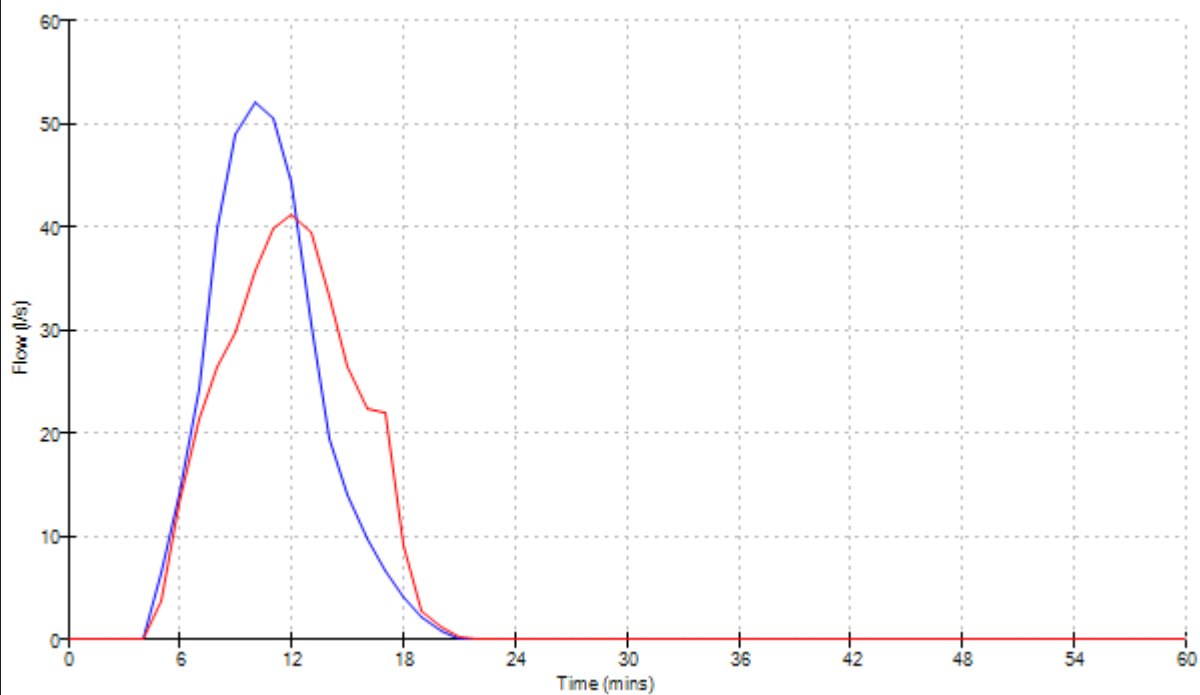
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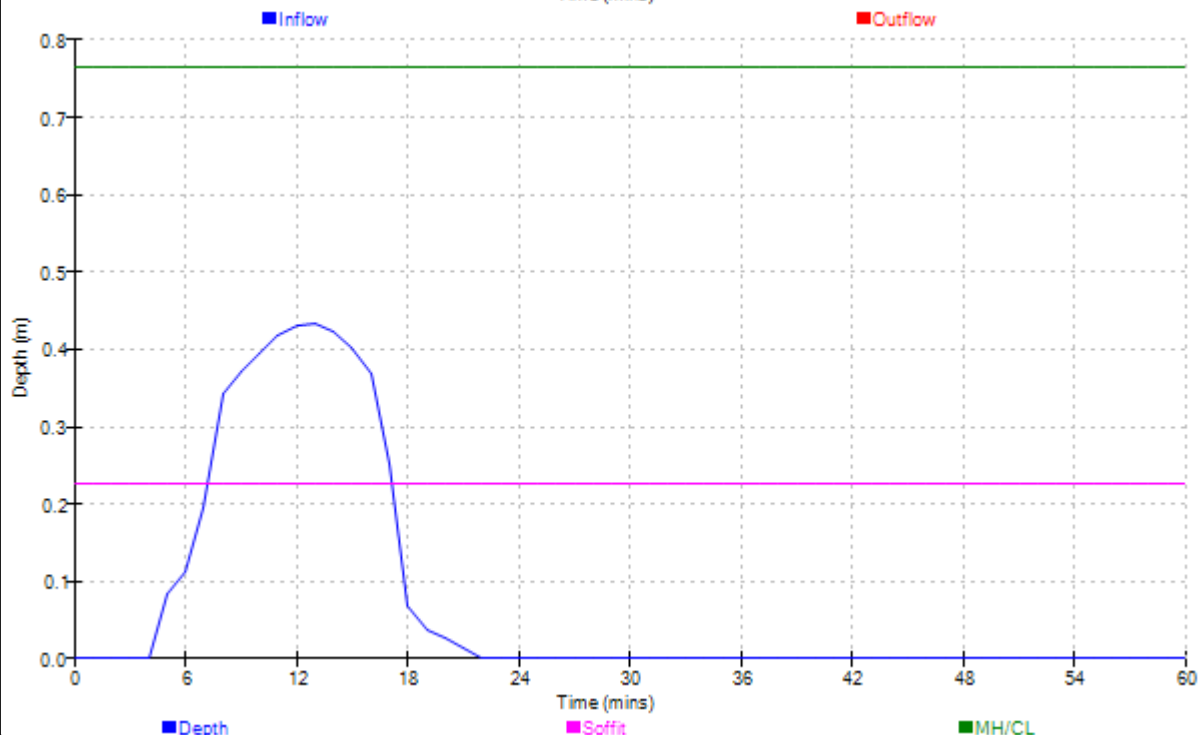
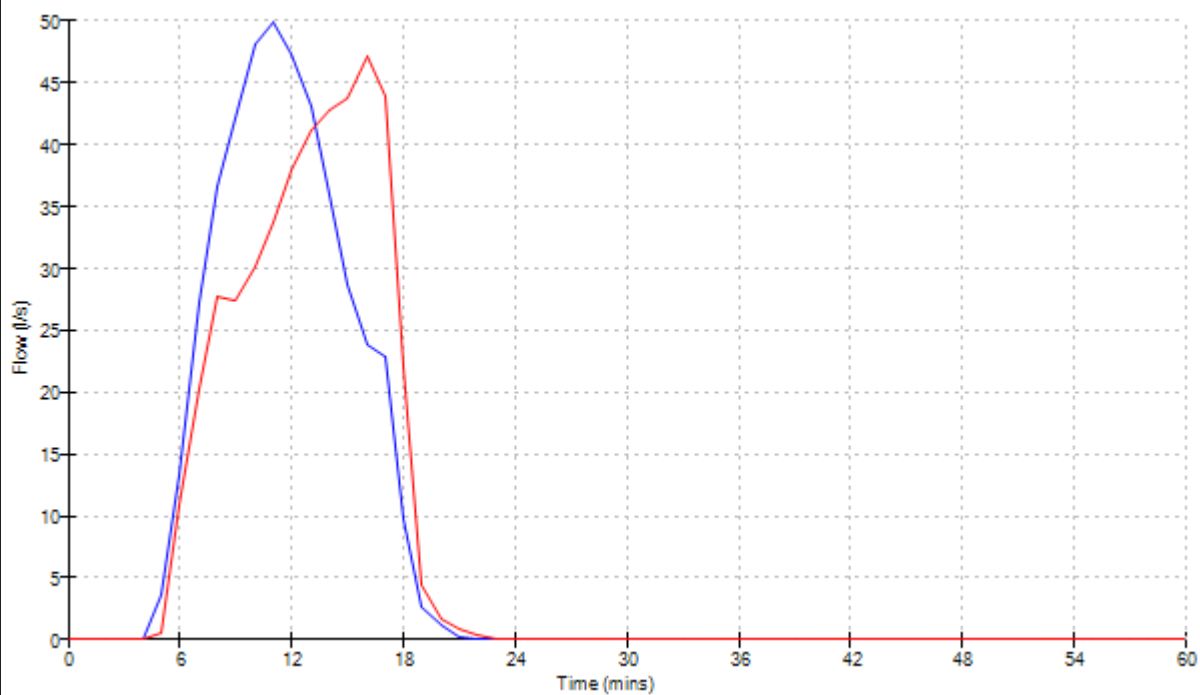
Graphs for Pipe S3.001 US/MH S19 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: SURCHARGED



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Graphs for Pipe S3.002 US/MH S20 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: SURCHARGED



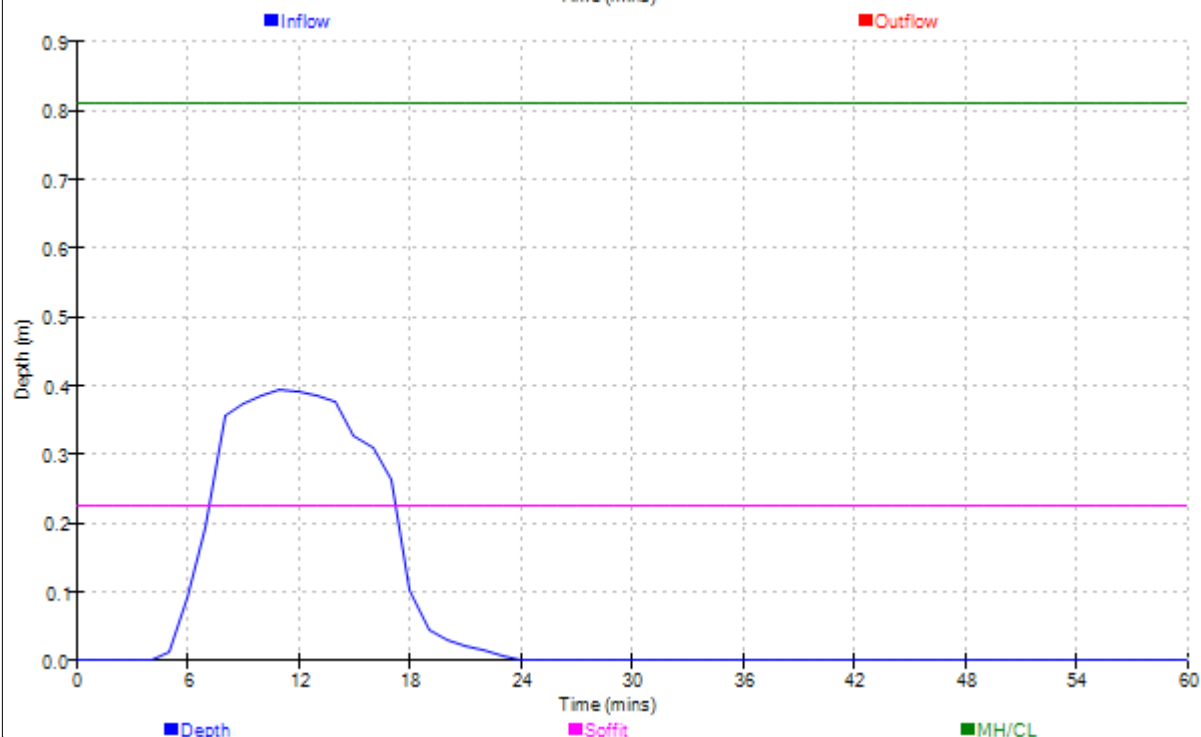
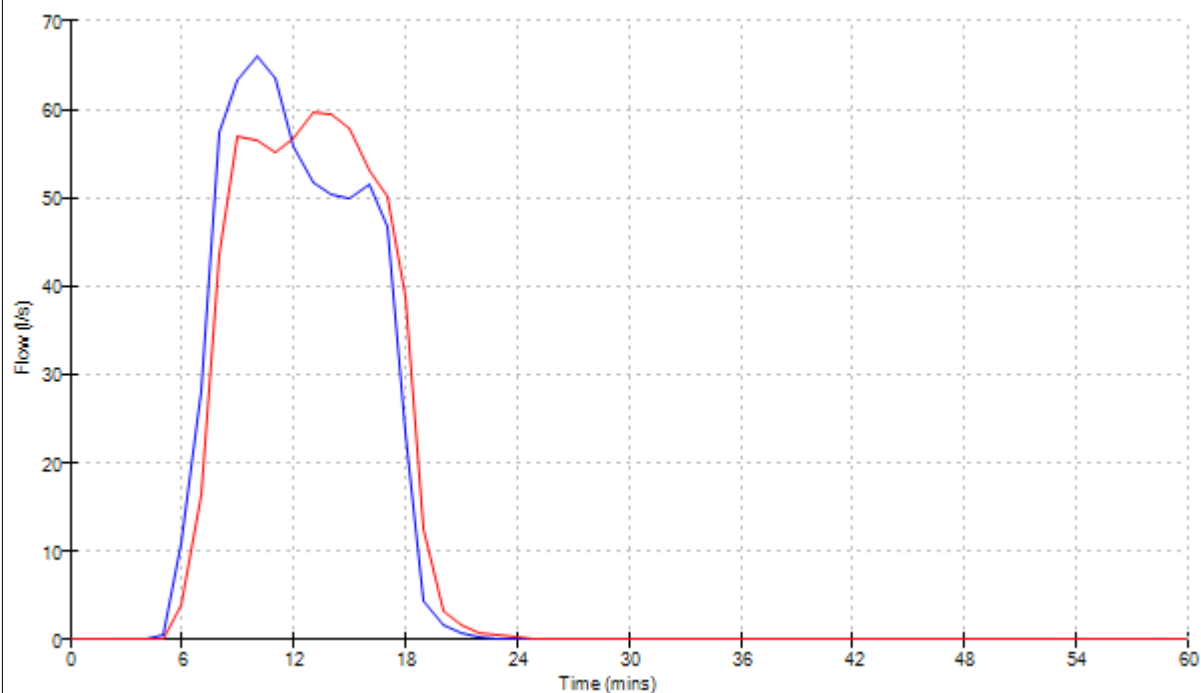
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Graphs for Pipe S3.003 US/MH S21 (15104 GTR FONTWELL.SWS)

15 minute 100 year Summer I+40%

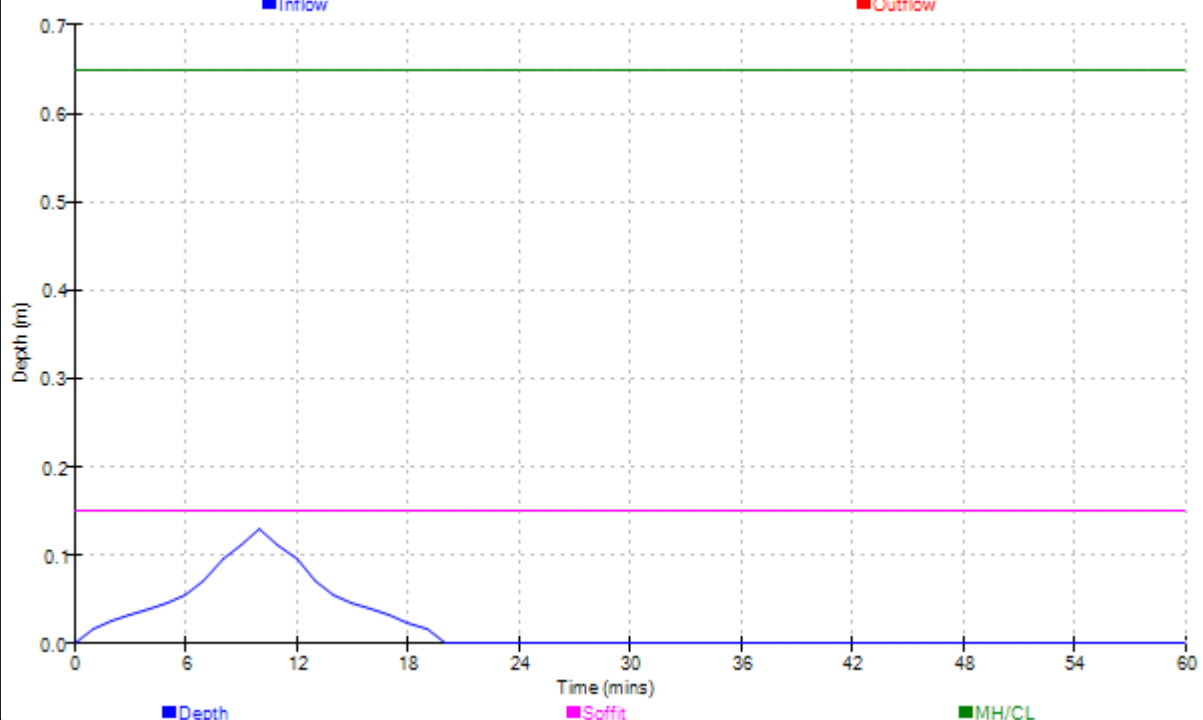
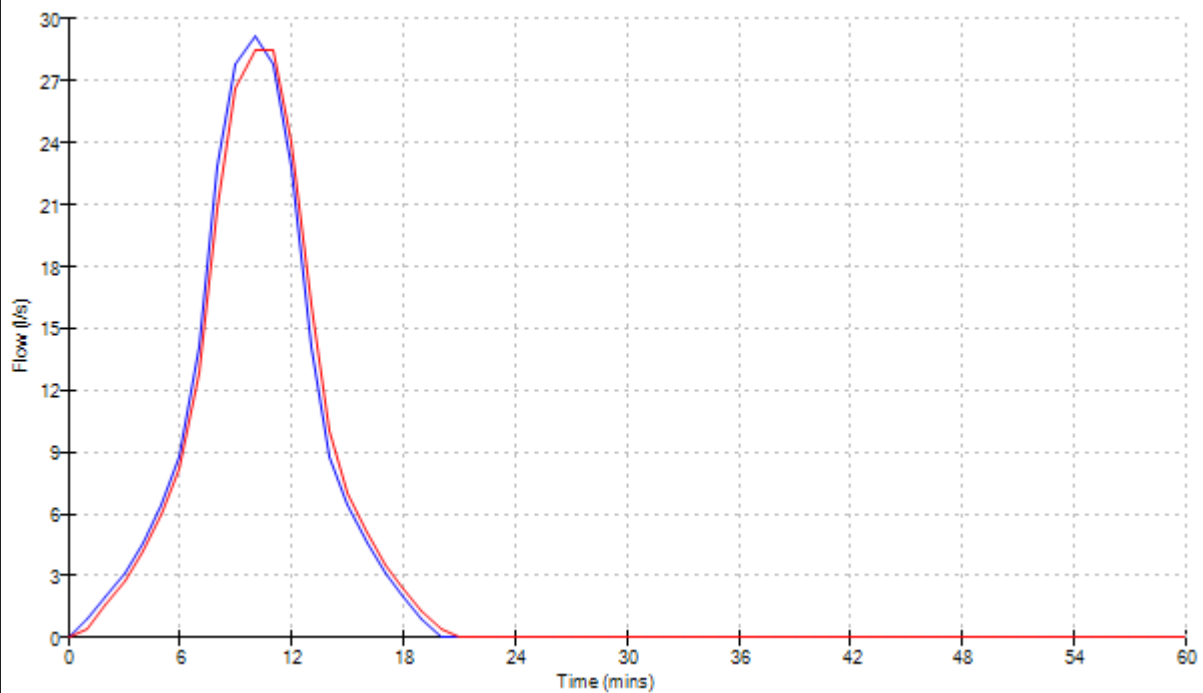
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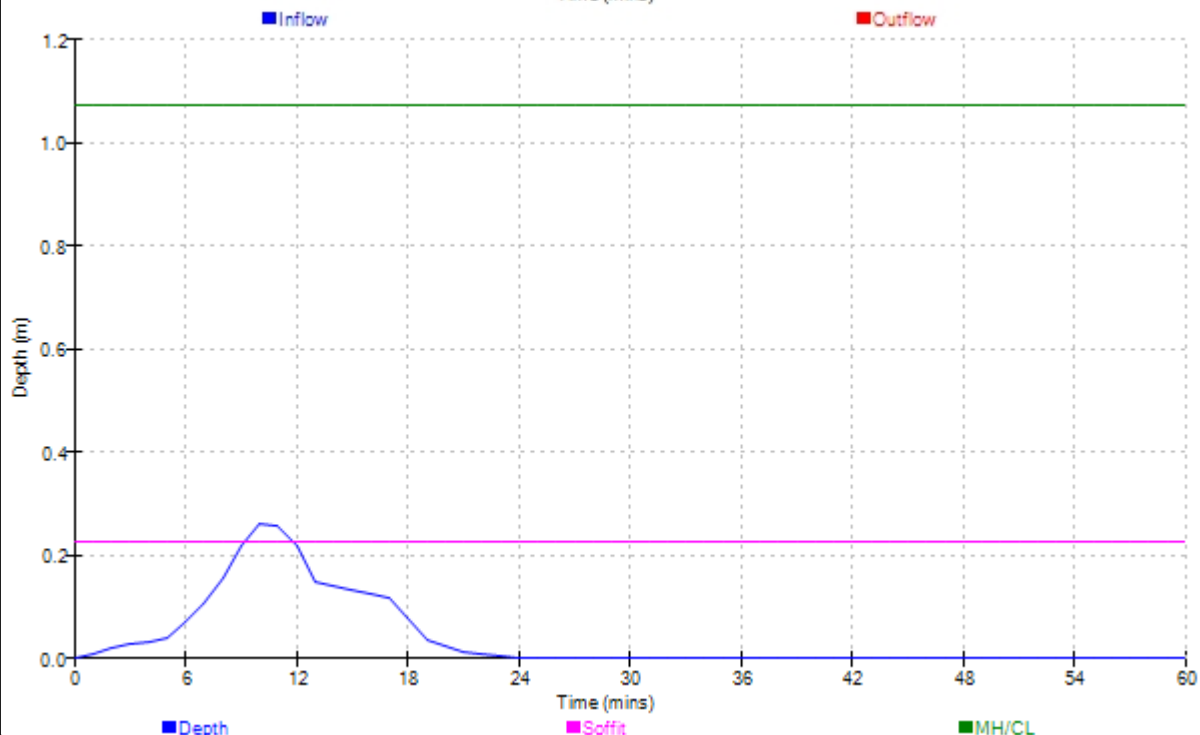
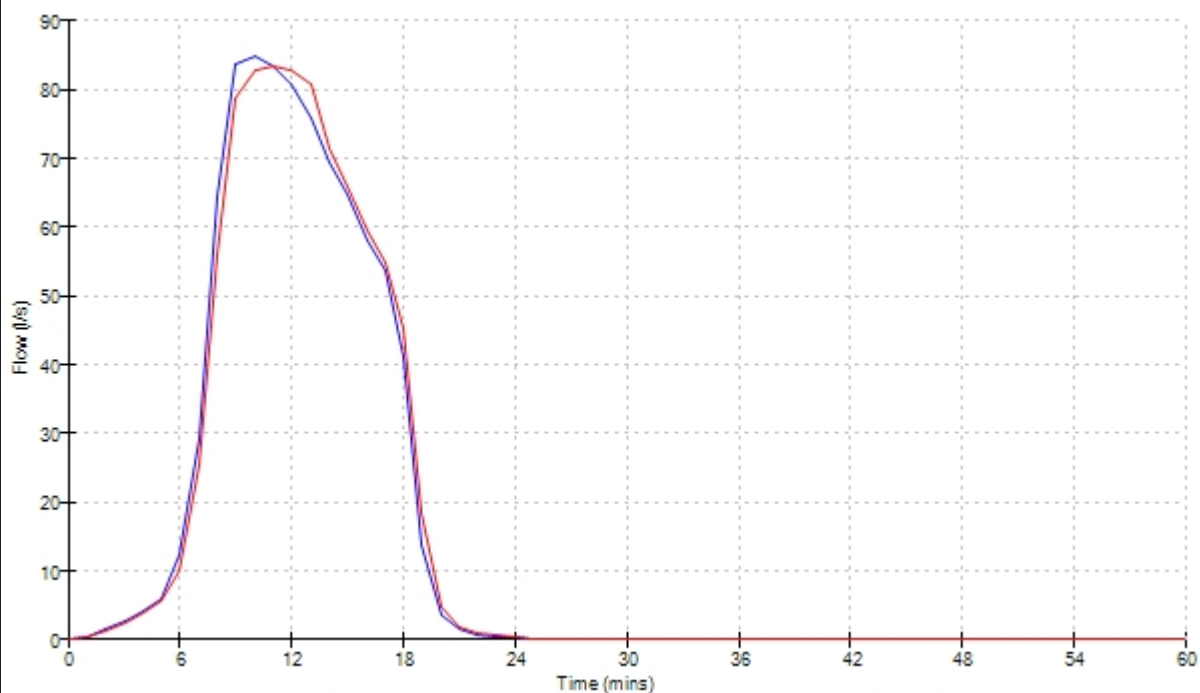
Graphs for Pipe S4.000 US/MH S25 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: OK



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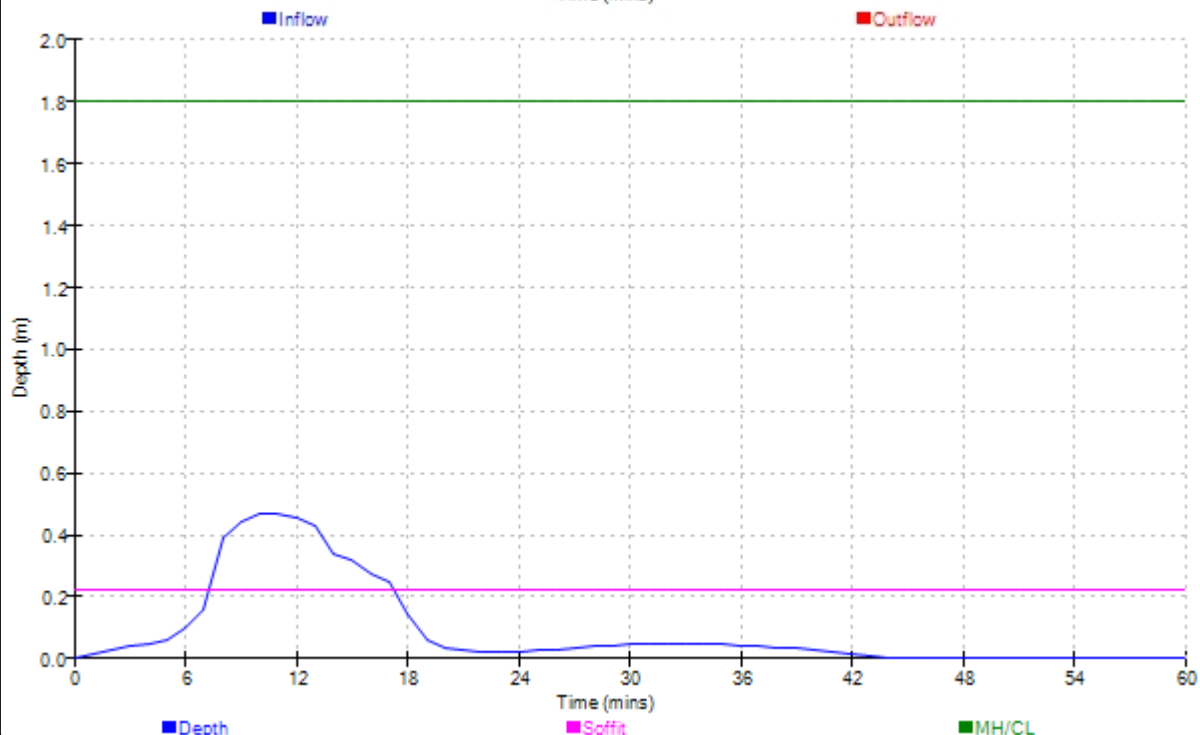
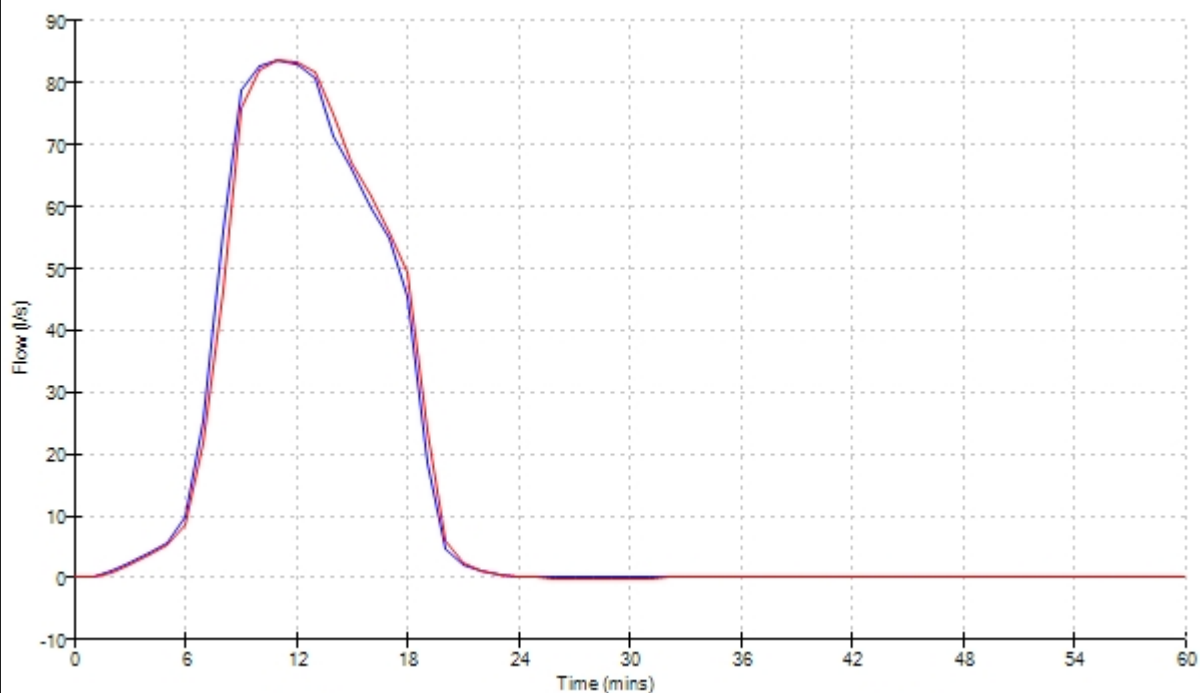
Graphs for Pipe S3.004 US/MH S22 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: SURCHARGED



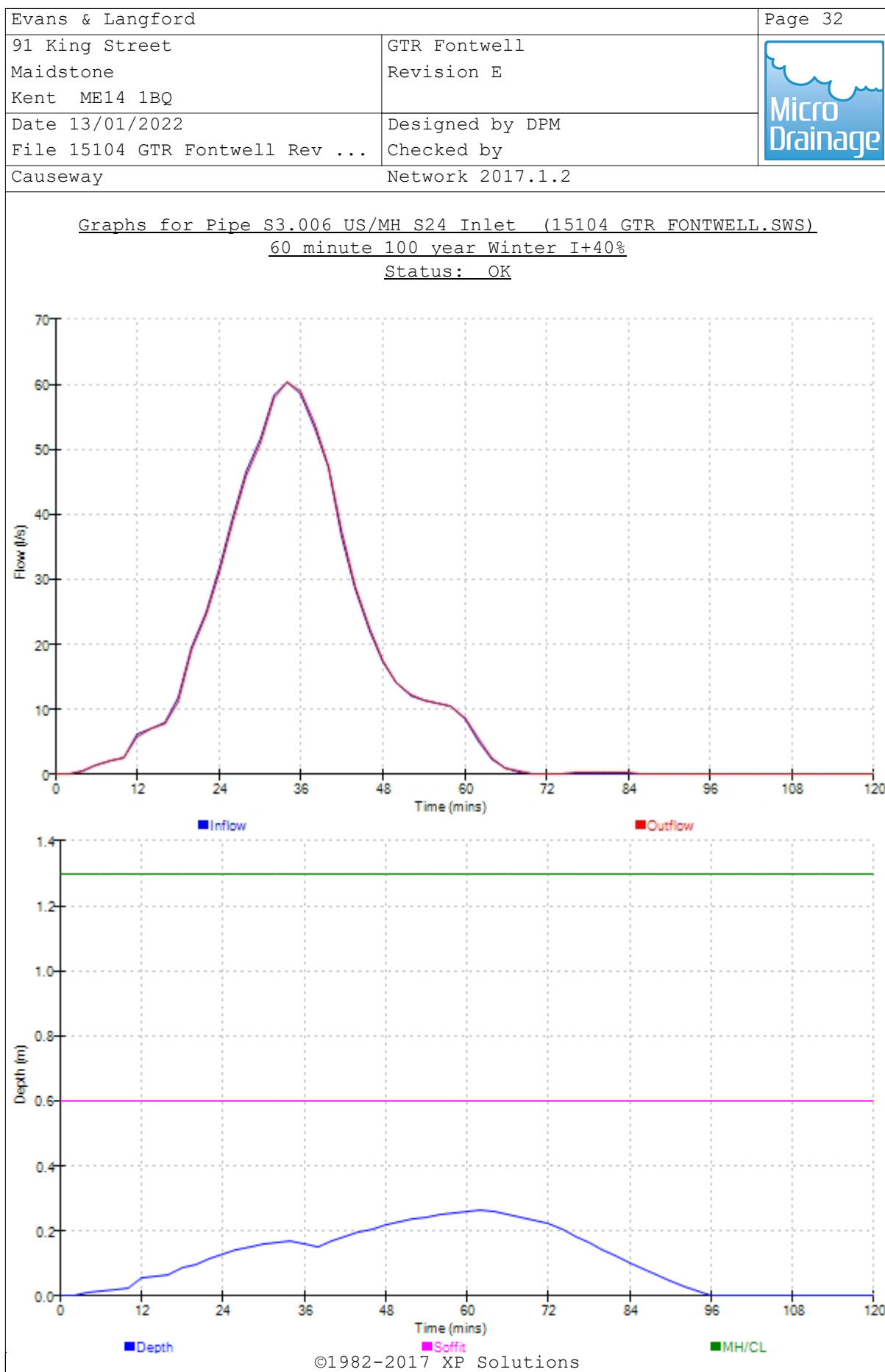
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Graphs for Pipe S3.005 US/MH S23 (15104 GTR FONTWELL.SWS)
15 minute 100 year Summer I+40%
Status: SURCHARGED



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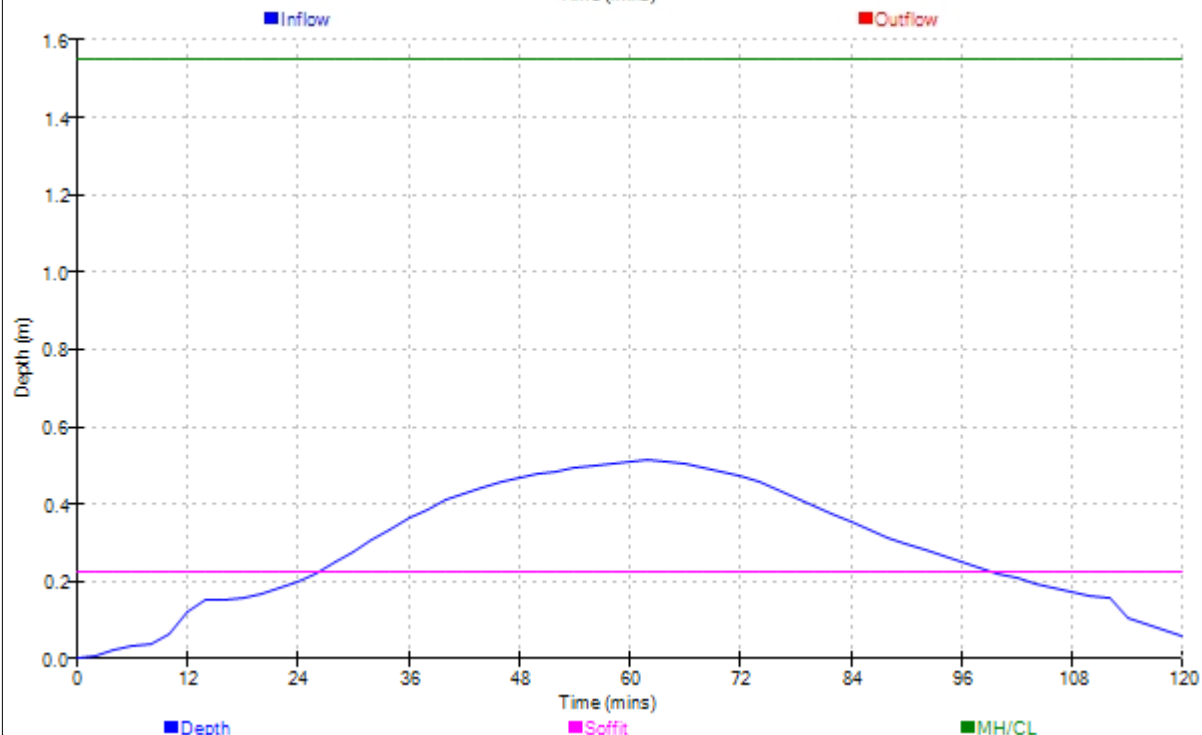
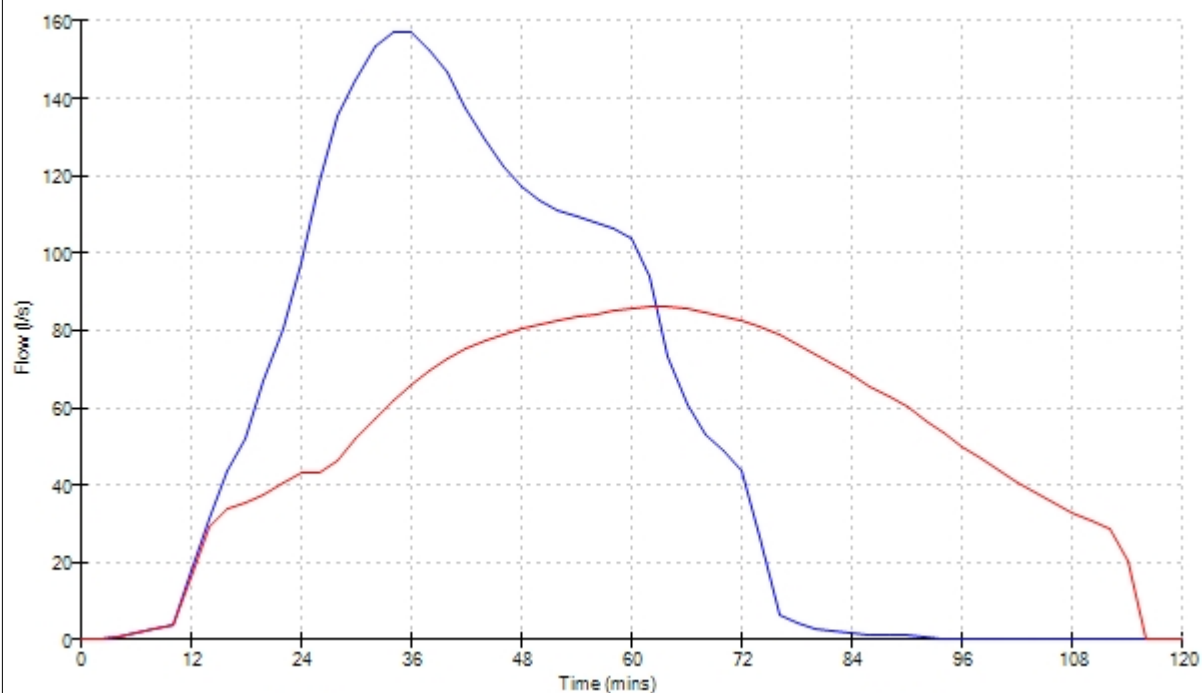


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Graphs for Pipe S1.011 US/MH S12 Outlet (15104 GTR FONTWELL.SWS)

60 minute 100 year Winter I+40%

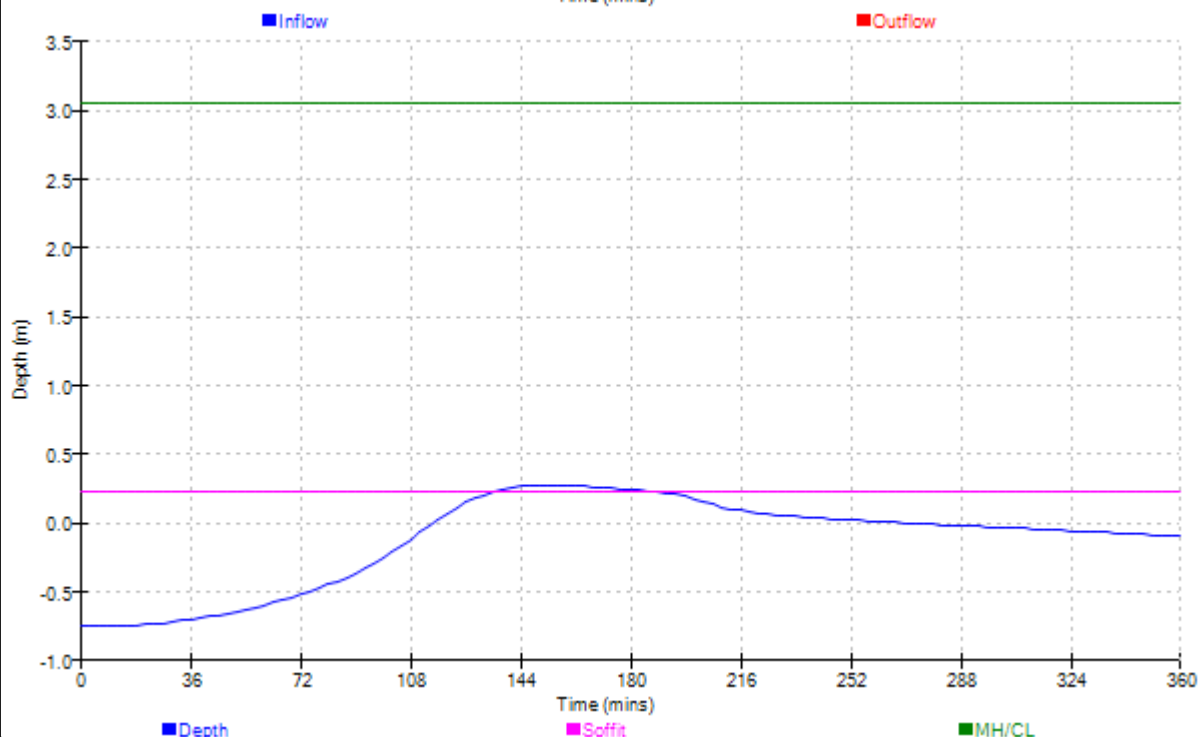
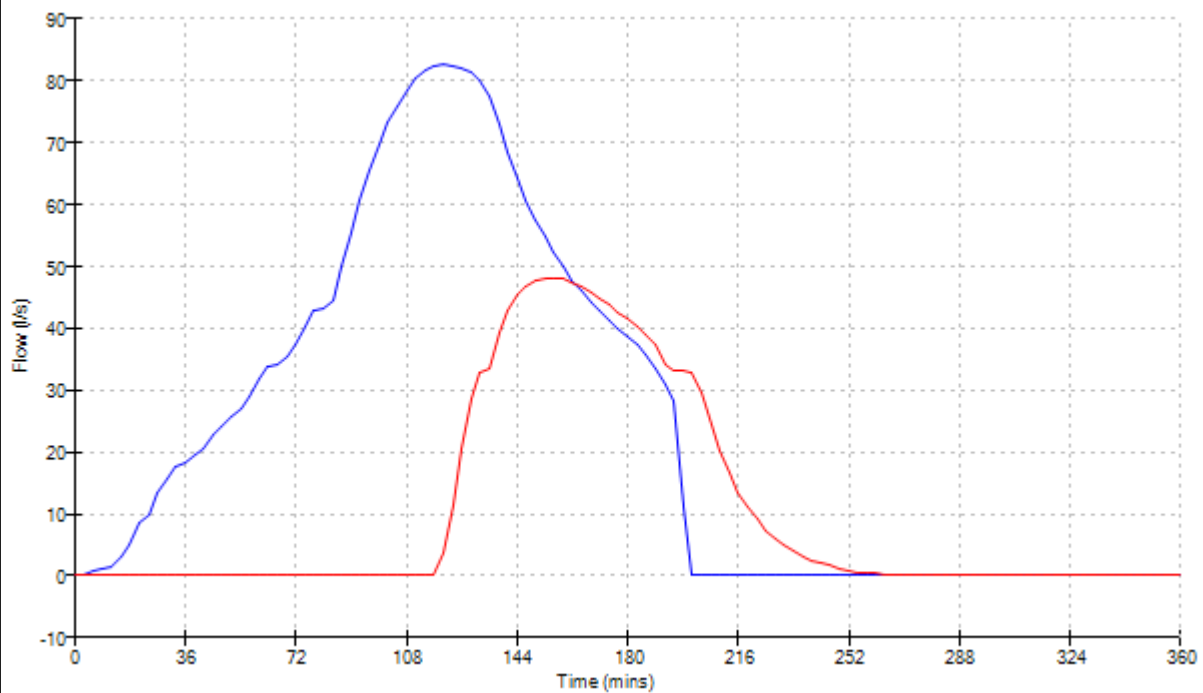
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Graphs for Pipe S1.012 US/MH S13 (15104 GTR FONTWELL.SWS)
180 minute 100 year Summer I+40%
Status: SURCHARGED



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