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Surface Water Drainage Calculation

For
Twinham,
34 Hurst Road,
Hassocks,
East Sussex,
BN6 9NL

Date: November 2025
Project No: 63770 Rev05

Summary of Results for 100 year Return Period (+45%)

Half Drain Time : 65 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	63.198	0.098	0.1	0.0	0.1	0.3	O K
30 min Summer	63.223	0.123	0.1	0.0	0.1	0.4	O K
60 min Summer	63.240	0.140	0.1	0.0	0.1	0.4	O K
120 min Summer	63.245	0.145	0.1	0.0	0.1	0.4	O K
180 min Summer	63.240	0.140	0.1	0.0	0.1	0.4	O K
240 min Summer	63.232	0.132	0.1	0.0	0.1	0.4	O K
360 min Summer	63.215	0.115	0.1	0.0	0.1	0.4	O K
480 min Summer	63.199	0.099	0.1	0.0	0.1	0.3	O K
600 min Summer	63.185	0.085	0.1	0.0	0.1	0.3	O K
720 min Summer	63.173	0.073	0.1	0.0	0.1	0.2	O K
960 min Summer	63.156	0.056	0.1	0.0	0.1	0.2	O K
1440 min Summer	63.142	0.042	0.1	0.0	0.1	0.1	O K
2160 min Summer	63.132	0.032	0.0	0.0	0.0	0.1	O K
2880 min Summer	63.126	0.026	0.0	0.0	0.0	0.1	O K
4320 min Summer	63.120	0.020	0.0	0.0	0.0	0.1	O K
5760 min Summer	63.116	0.016	0.0	0.0	0.0	0.0	O K
7200 min Summer	63.113	0.013	0.0	0.0	0.0	0.0	O K
8640 min Summer	63.112	0.012	0.0	0.0	0.0	0.0	O K
10080 min Summer	63.110	0.010	0.0	0.0	0.0	0.0	O K
15 min Winter	63.198	0.098	0.1	0.0	0.1	0.3	O K
30 min Winter	63.224	0.124	0.1	0.0	0.1	0.4	O K
60 min Winter	63.240	0.140	0.1	0.0	0.1	0.4	O K
120 min Winter	63.242	0.142	0.1	0.0	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Overflow Volume (m³)	Time-Peak (mins)
15 min Summer	136.149	0.0	17
30 min Summer	91.587	0.0	31
60 min Summer	58.739	0.0	54
120 min Summer	36.305	0.0	88
180 min Summer	26.955	0.0	122
240 min Summer	21.679	0.0	156
360 min Summer	15.967	0.0	222
480 min Summer	12.831	0.0	286
600 min Summer	10.820	0.0	346
720 min Summer	9.407	0.0	404
960 min Summer	7.537	0.0	514
1440 min Summer	5.504	0.0	750
2160 min Summer	4.010	0.0	1104
2880 min Summer	3.199	0.0	1472
4320 min Summer	2.322	0.0	2204
5760 min Summer	1.848	0.0	2936
7200 min Summer	1.549	0.0	3672
8640 min Summer	1.341	0.0	4400
10080 min Summer	1.188	0.0	5024
15 min Winter	136.149	0.0	17
30 min Winter	91.587	0.0	31
60 min Winter	58.739	0.0	58
120 min Winter	36.305	0.0	92

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Summary of Results for 100 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
180 min Winter	63.232	0.132	0.1	0.0	0.1	0.4	O K
240 min Winter	63.219	0.119	0.1	0.0	0.1	0.4	O K
360 min Winter	63.194	0.094	0.1	0.0	0.1	0.3	O K
480 min Winter	63.173	0.073	0.1	0.0	0.1	0.2	O K
600 min Winter	63.156	0.056	0.1	0.0	0.1	0.2	O K
720 min Winter	63.148	0.048	0.1	0.0	0.1	0.1	O K
960 min Winter	63.140	0.040	0.1	0.0	0.1	0.1	O K
1440 min Winter	63.130	0.030	0.0	0.0	0.0	0.1	O K
2160 min Winter	63.122	0.022	0.0	0.0	0.0	0.1	O K
2880 min Winter	63.118	0.018	0.0	0.0	0.0	0.1	O K
4320 min Winter	63.113	0.013	0.0	0.0	0.0	0.0	O K
5760 min Winter	63.110	0.010	0.0	0.0	0.0	0.0	O K
7200 min Winter	63.109	0.009	0.0	0.0	0.0	0.0	O K
8640 min Winter	63.108	0.008	0.0	0.0	0.0	0.0	O K
10080 min Winter	63.107	0.007	0.0	0.0	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Overflow Volume (m³)	Time-Peak (mins)
180 min Winter	26.955	0.0	130
240 min Winter	21.679	0.0	166
360 min Winter	15.967	0.0	232
480 min Winter	12.831	0.0	292
600 min Winter	10.820	0.0	344
720 min Winter	9.407	0.0	392
960 min Winter	7.537	0.0	512
1440 min Winter	5.504	0.0	752
2160 min Winter	4.010	0.0	1116
2880 min Winter	3.199	0.0	1480
4320 min Winter	2.322	0.0	2208
5760 min Winter	1.848	0.0	2808
7200 min Winter	1.549	0.0	3632
8640 min Winter	1.341	0.0	4376
10080 min Winter	1.188	0.0	5032

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.001

Time (mins)	Area (ha)
0-4	0.001

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Model Details

Storage is Online Cover Level (m) 63.850

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.04461	Diameter/Width (m)	1.2
Safety Factor	2.0	Length (m)	8.5
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	63.100		

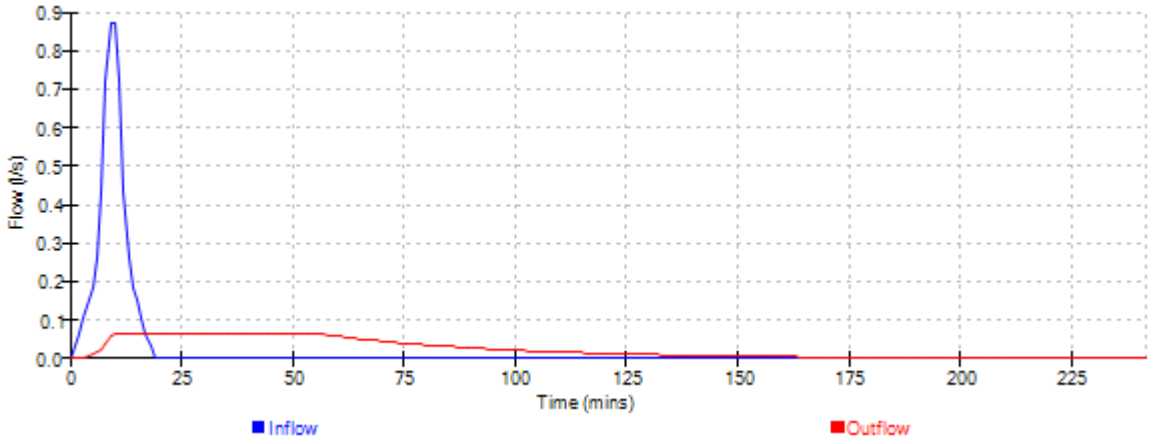
Depth/Flow Relationship Overflow Control

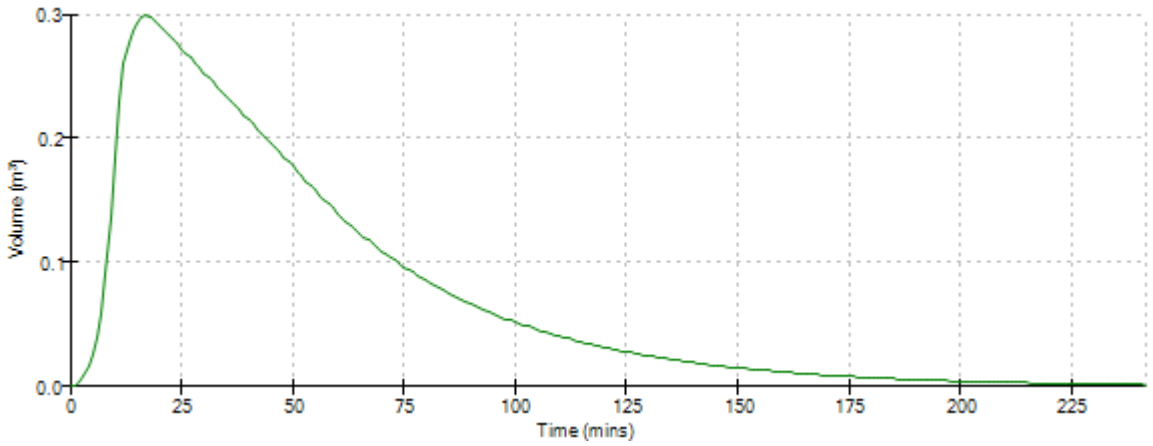
Invert Level (m) 63.750

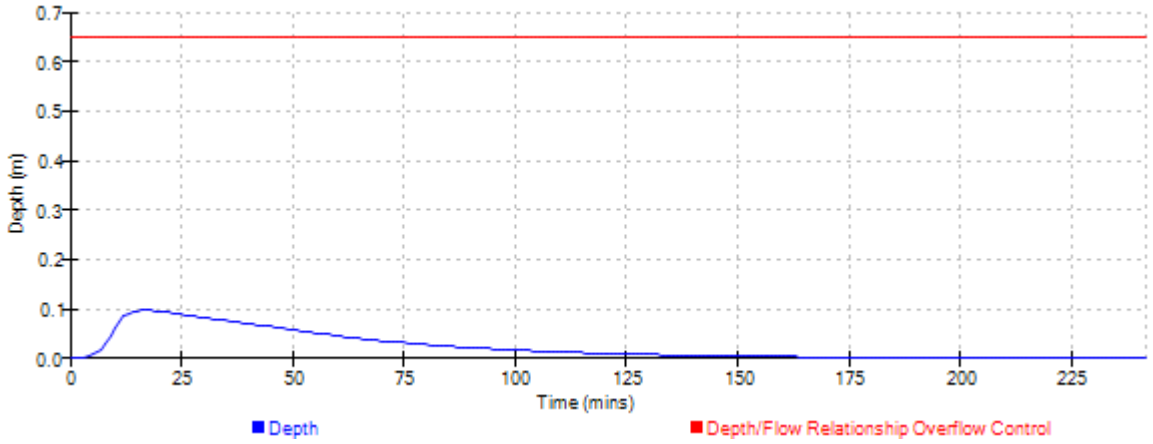
Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	0.0000	0.800	0.0400

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Event: 15 min Summer

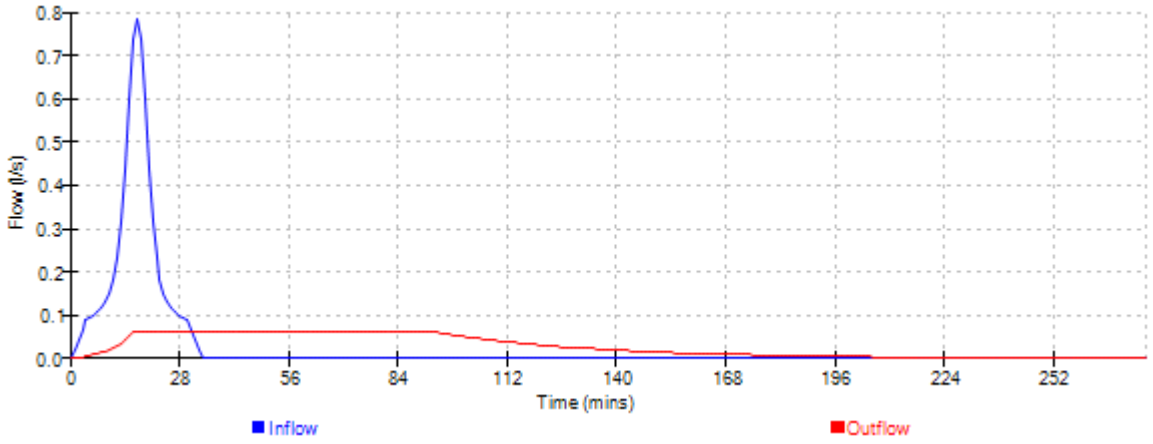


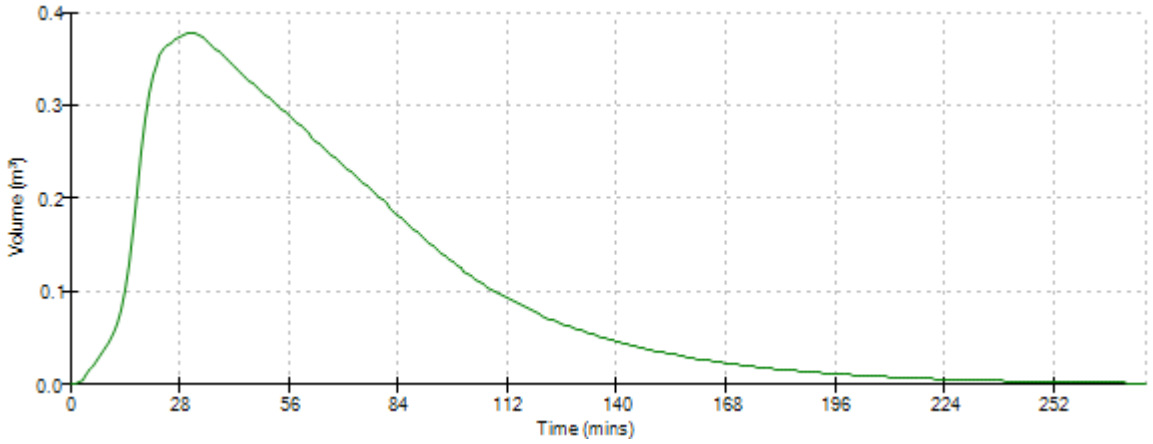


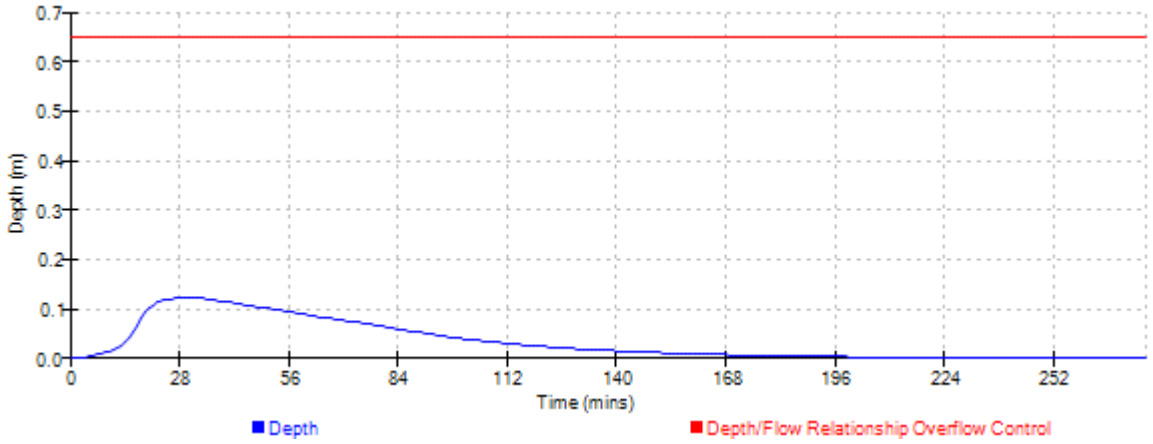


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Event: 30 min Summer

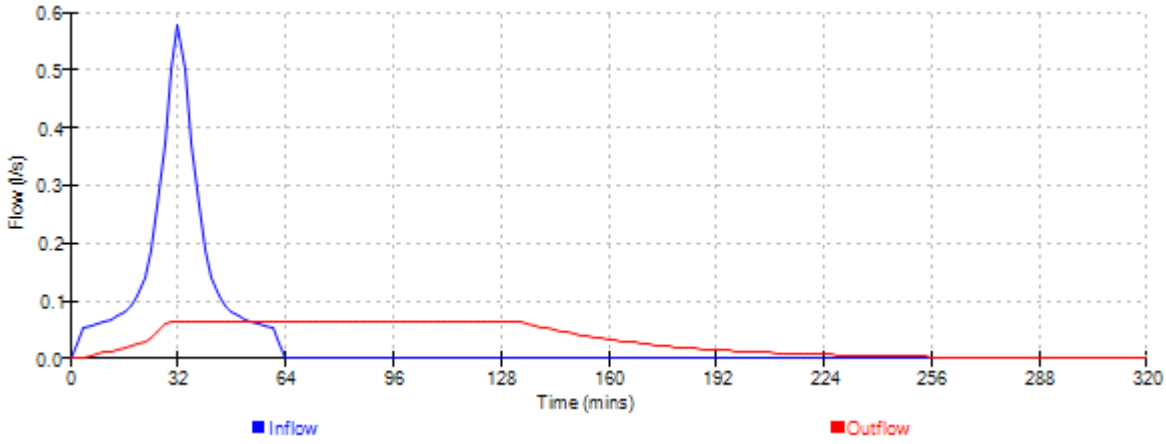


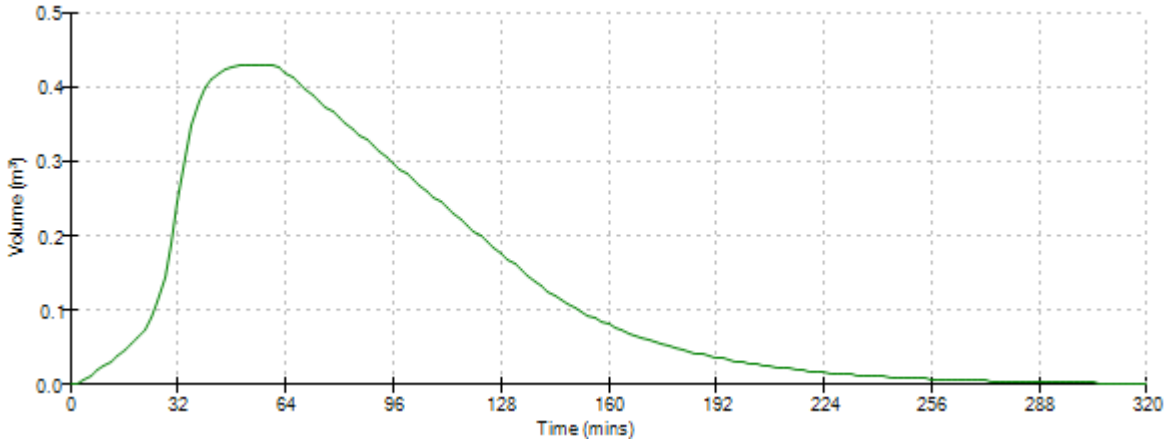


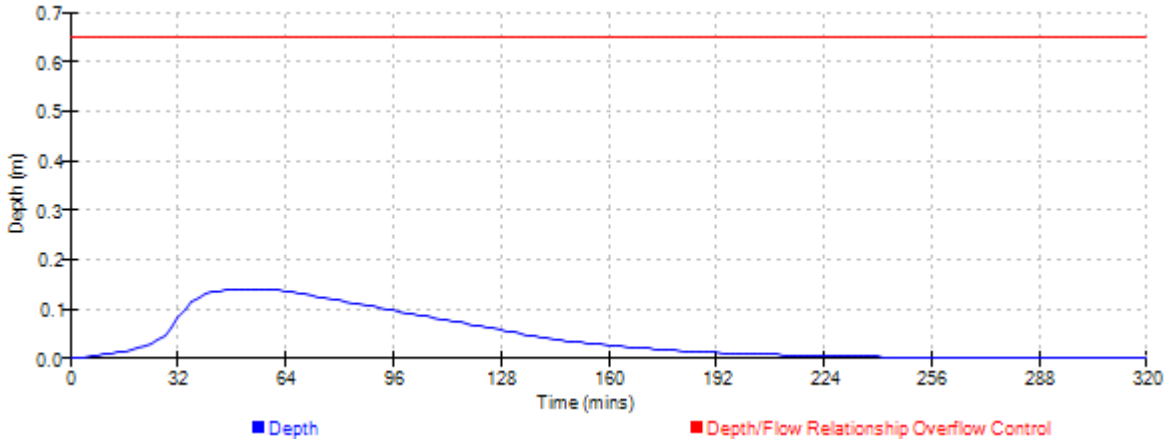


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Event: 60 min Summer

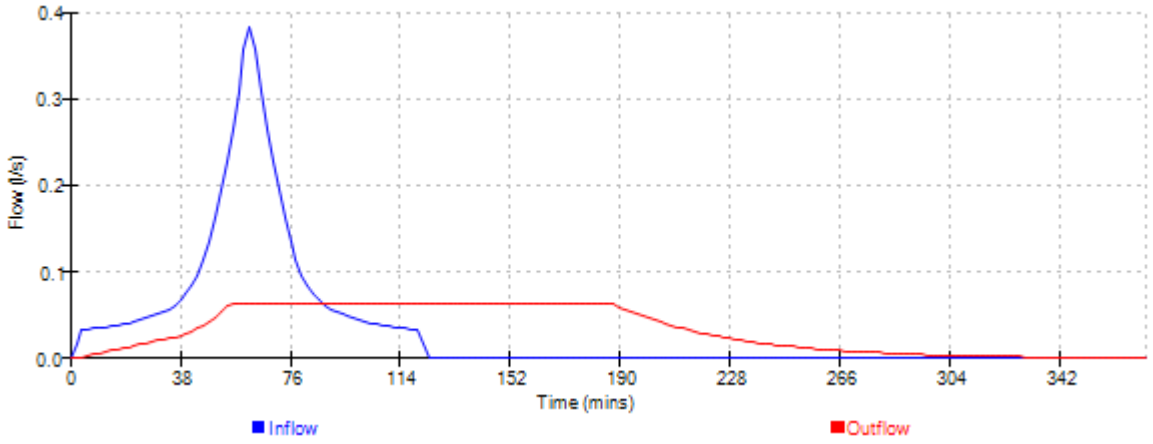


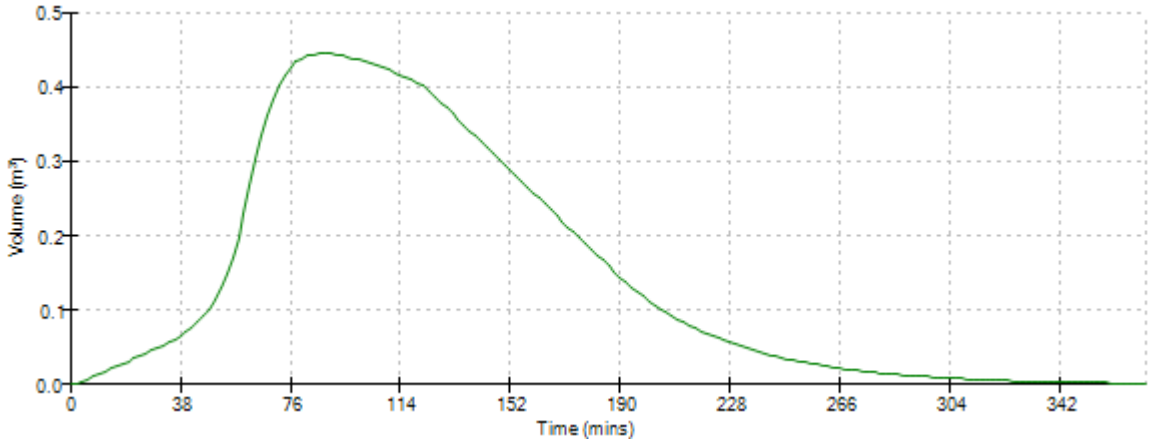


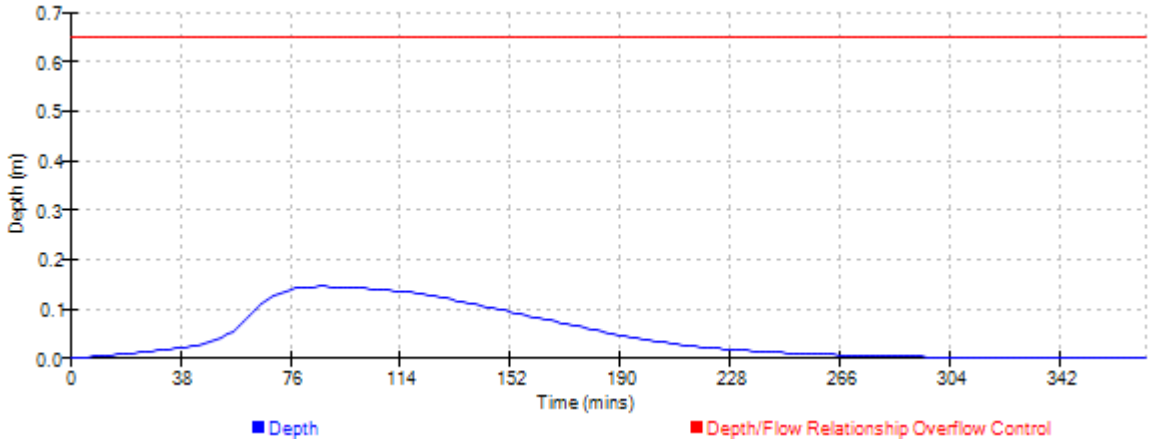


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Event: 120 min Summer

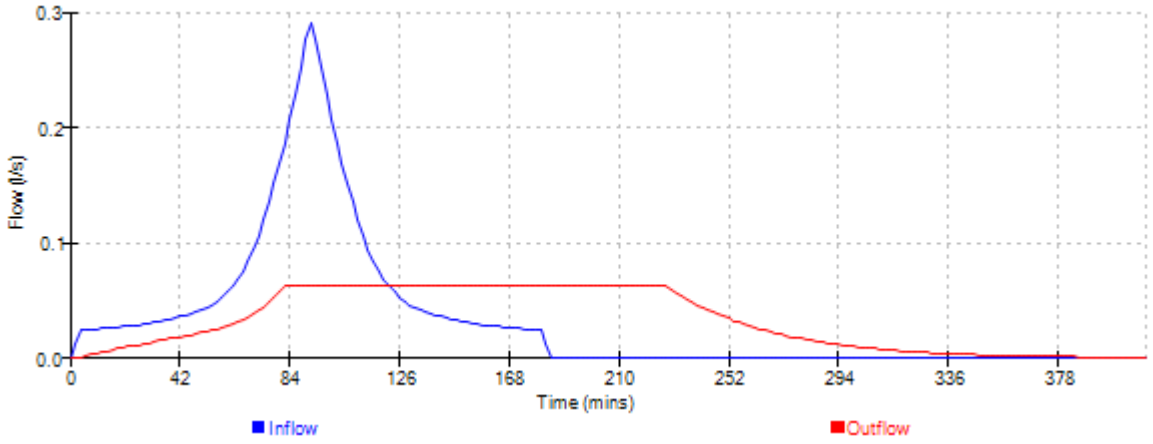


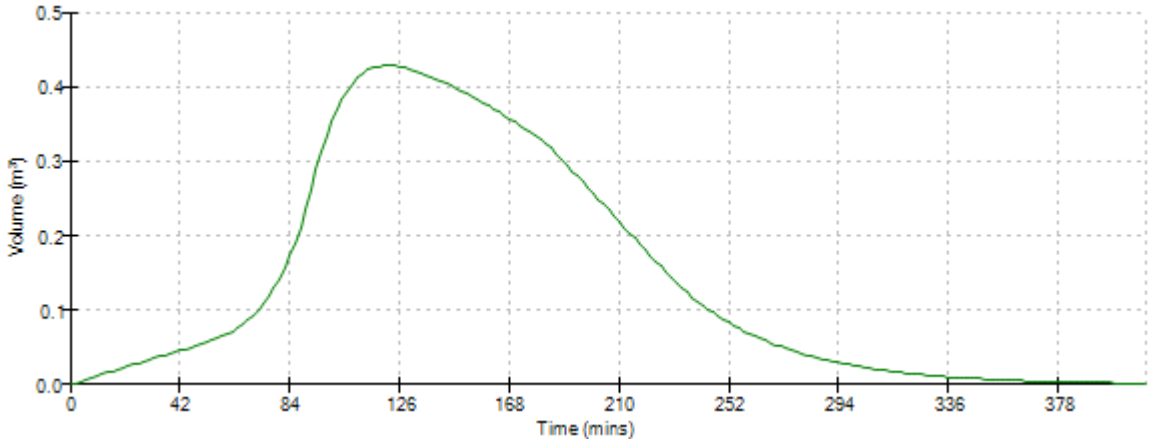


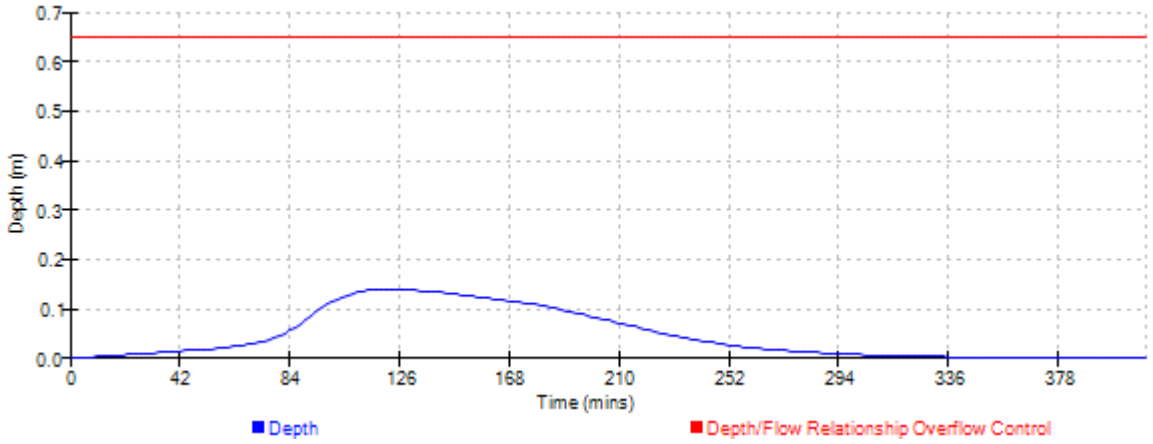


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Event: 180 min Summer

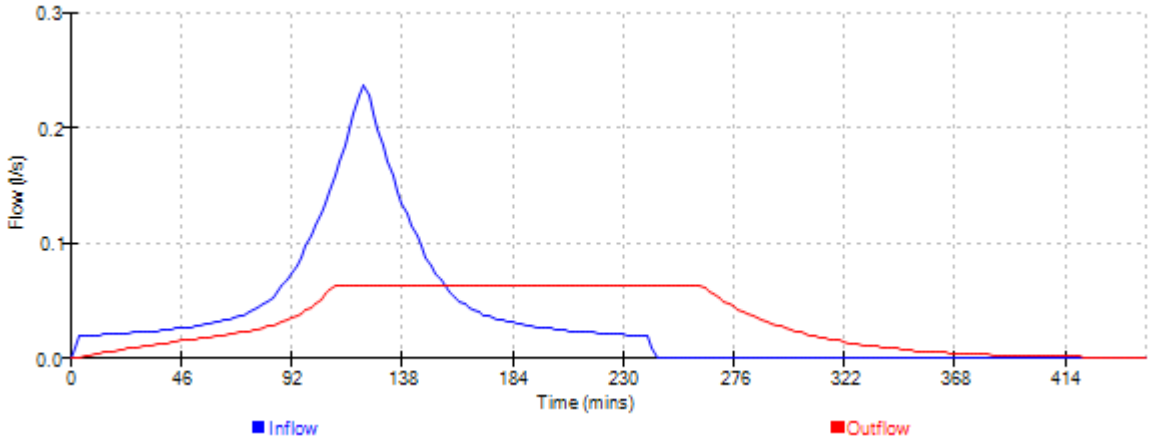


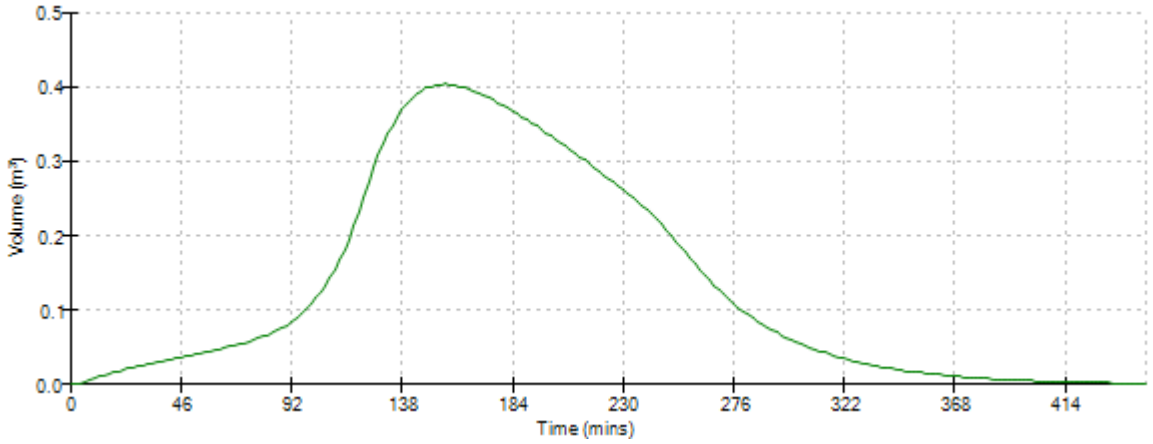


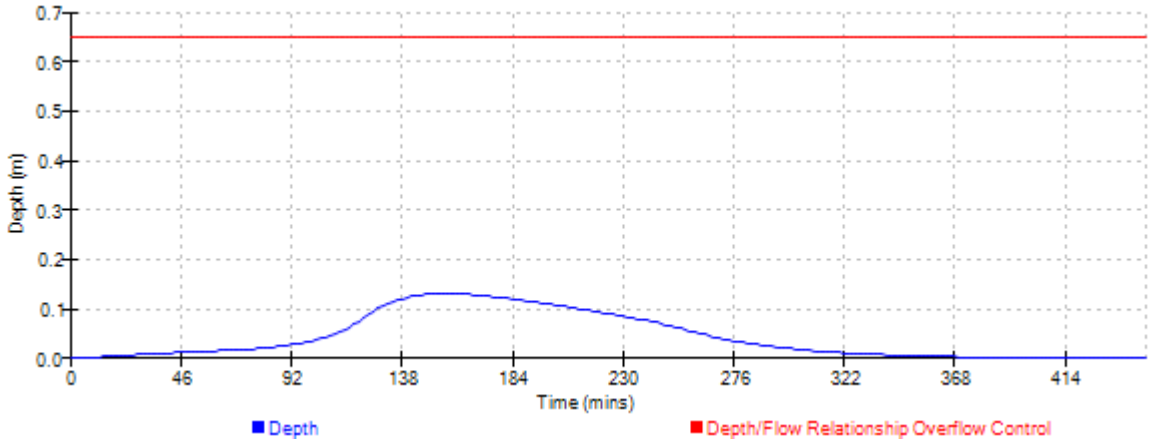


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Event: 240 min Summer

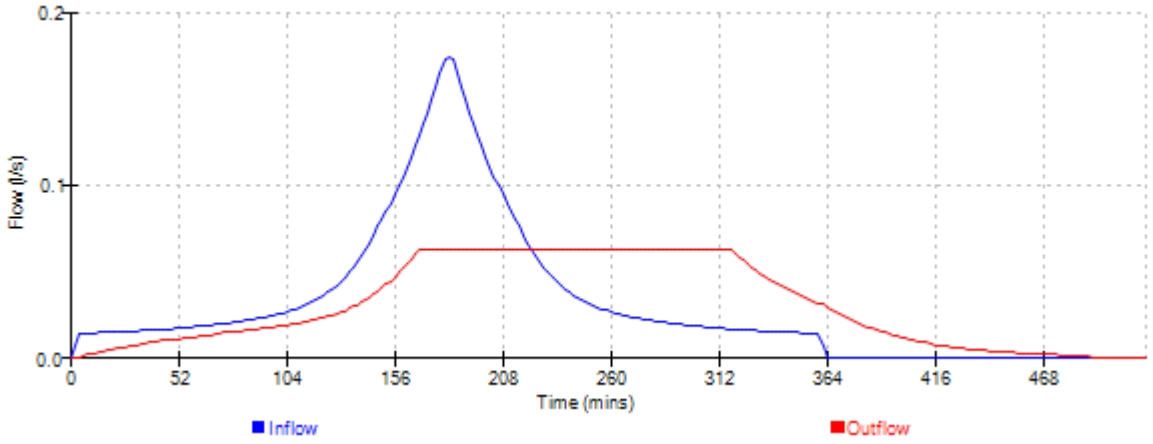


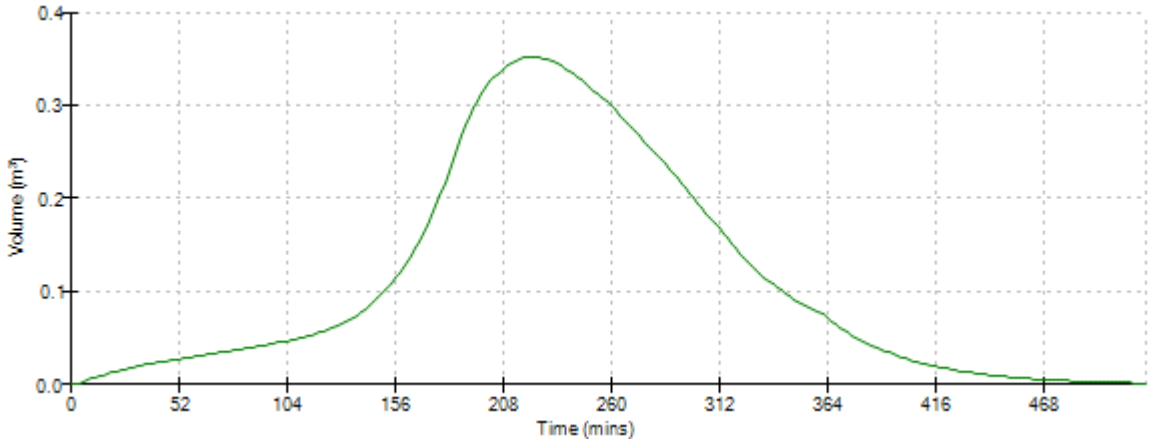


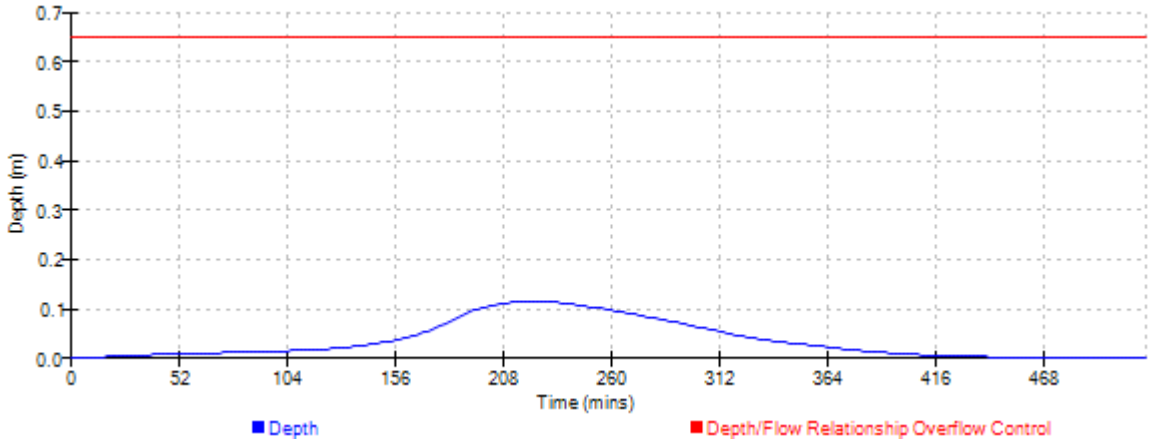


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Event: 360 min Summer

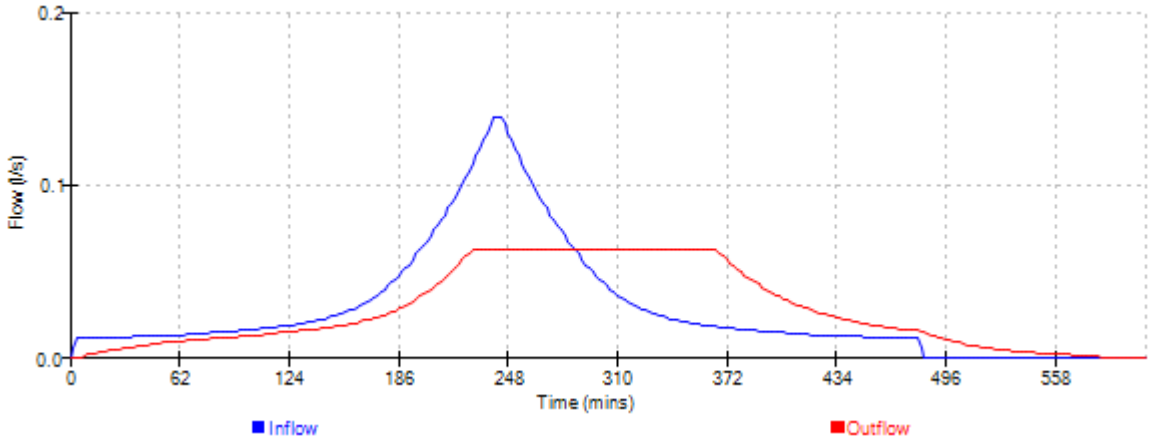


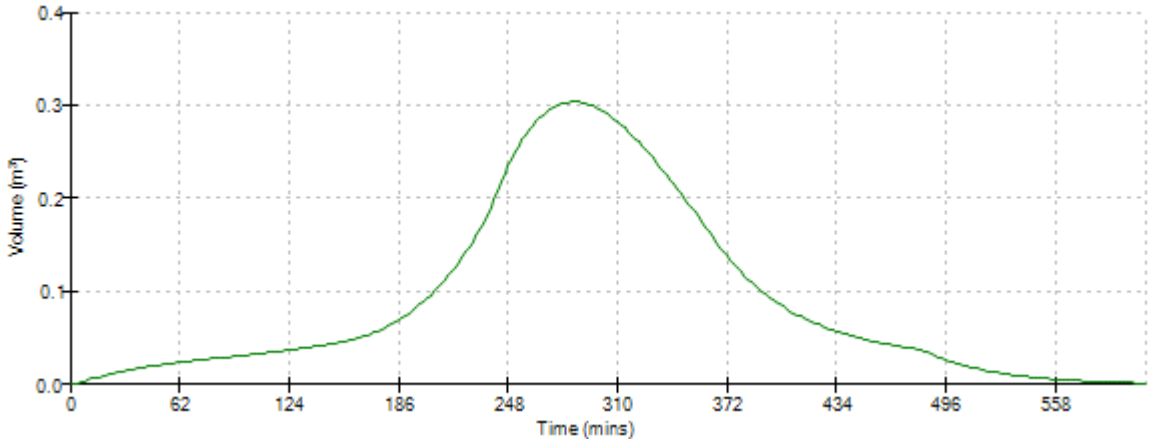


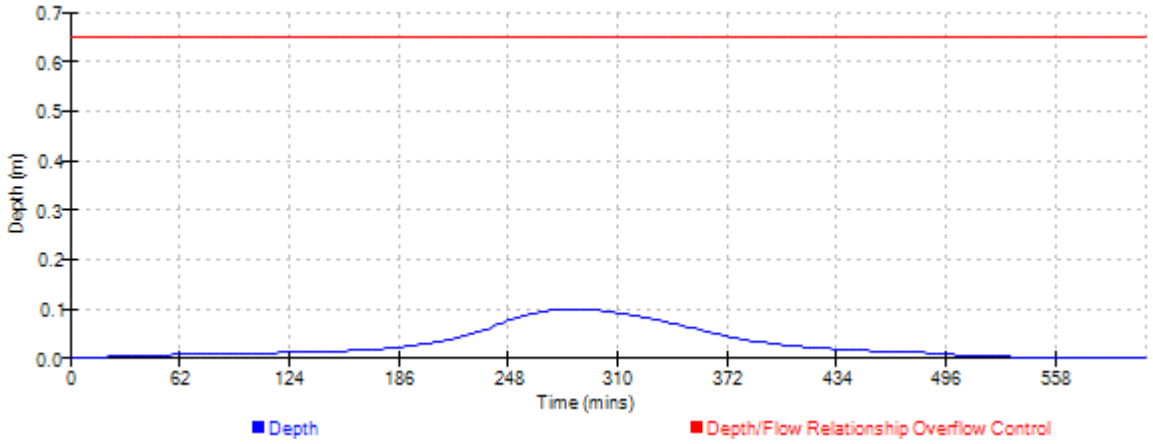


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Event: 480 min Summer

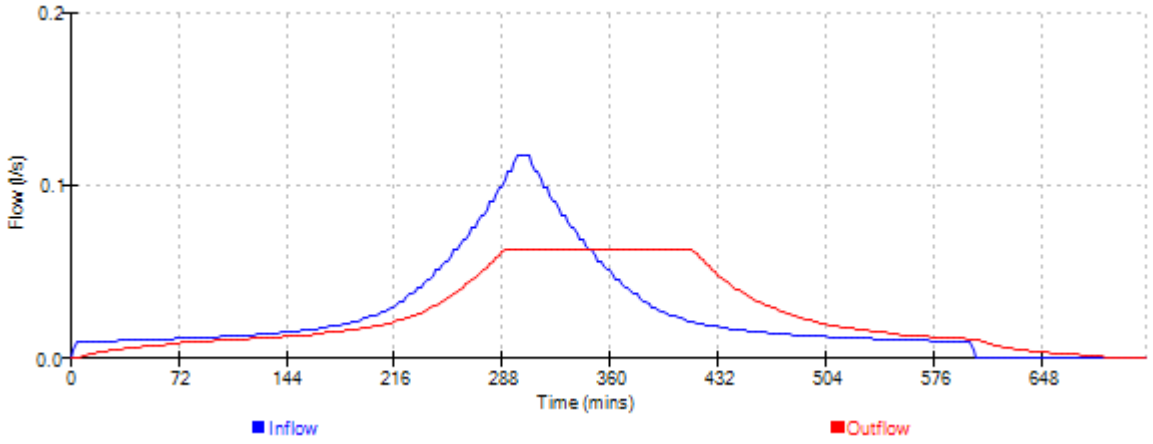


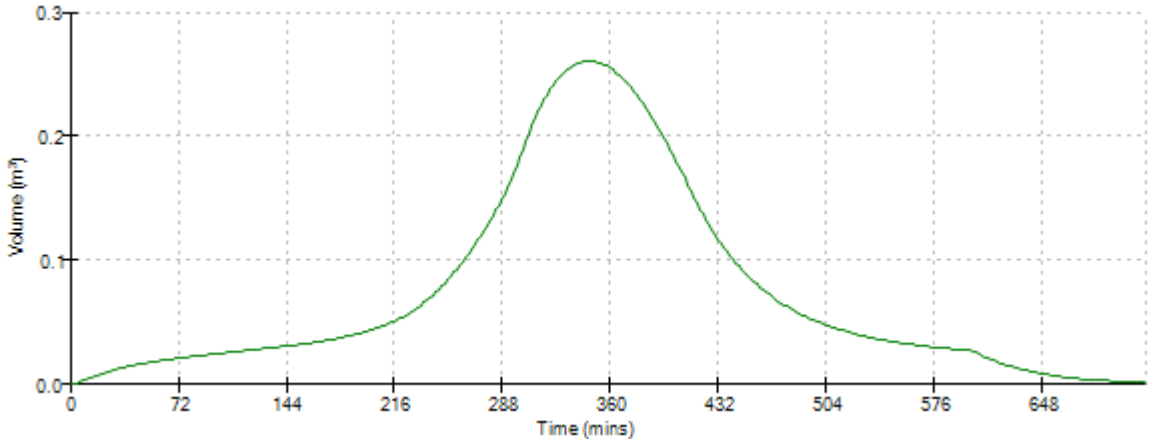


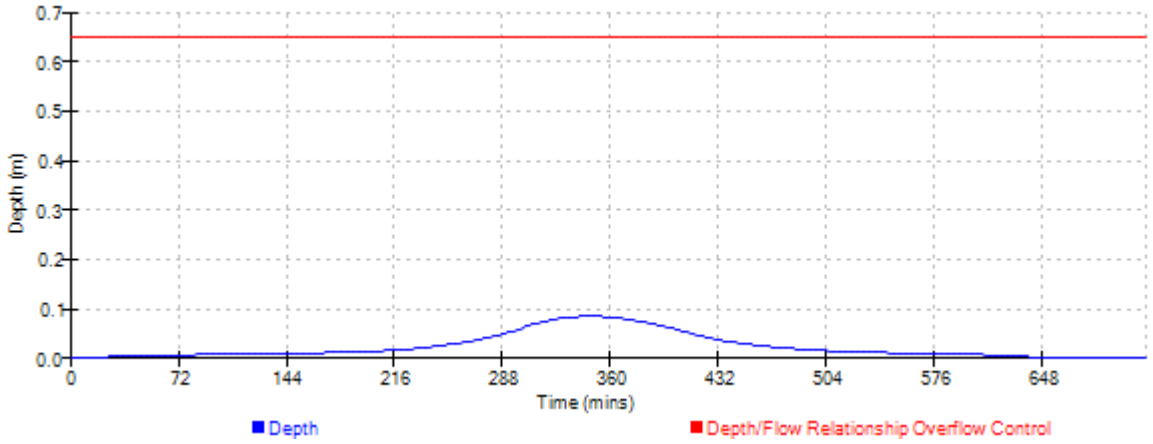


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Event: 600 min Summer

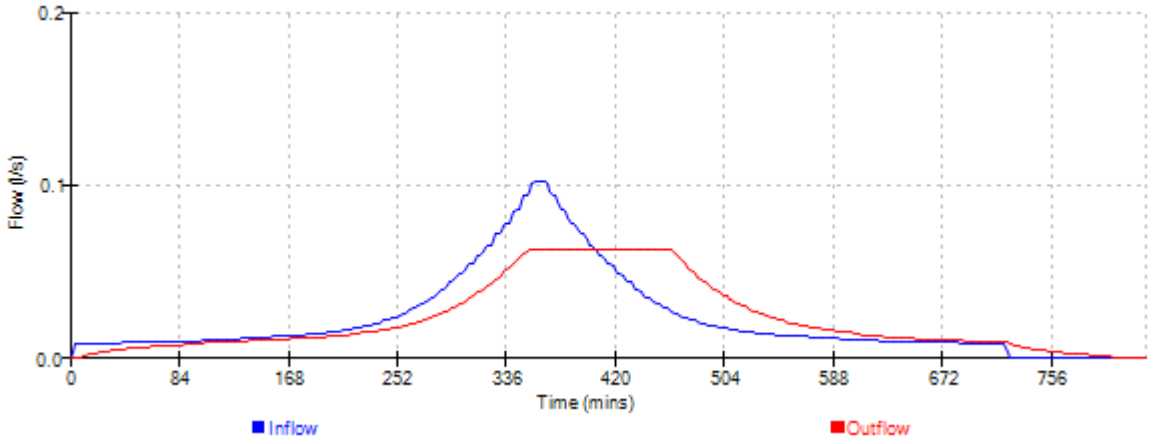


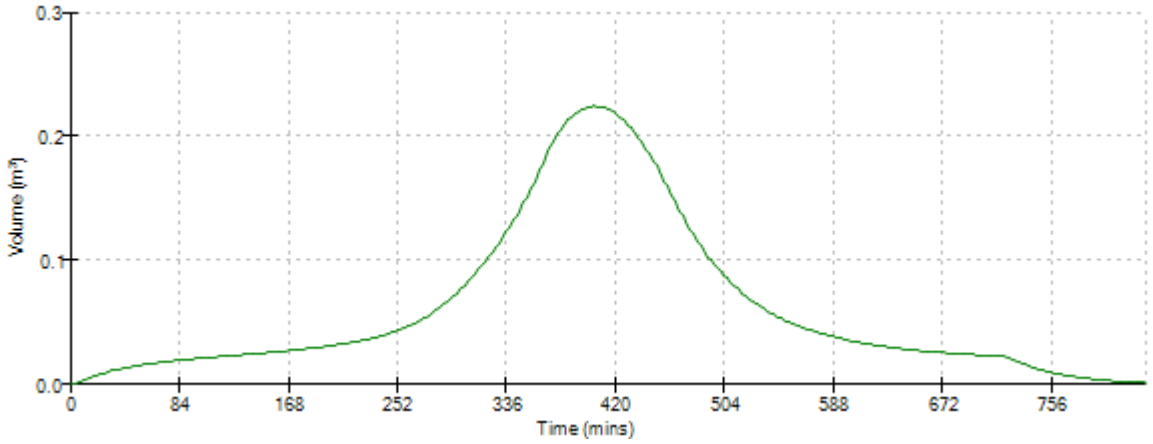


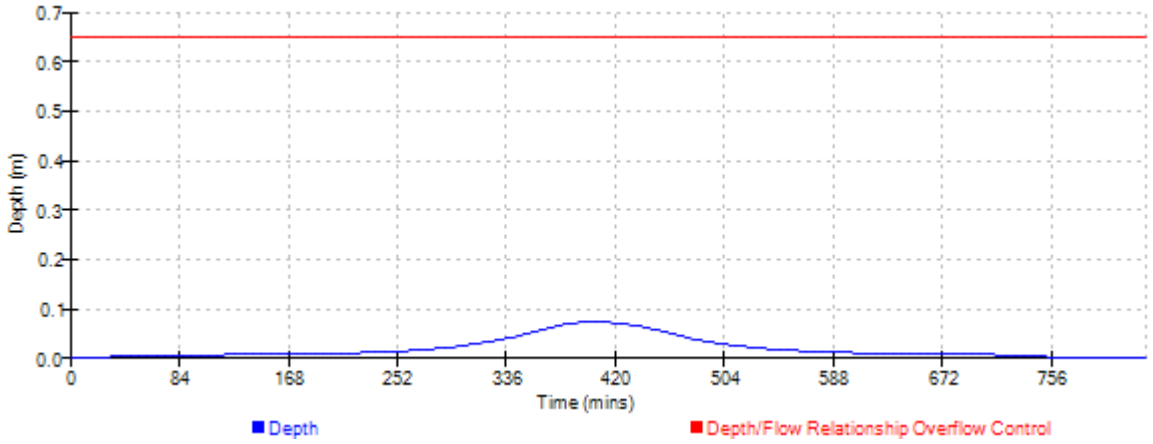


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Event: 720 min Summer

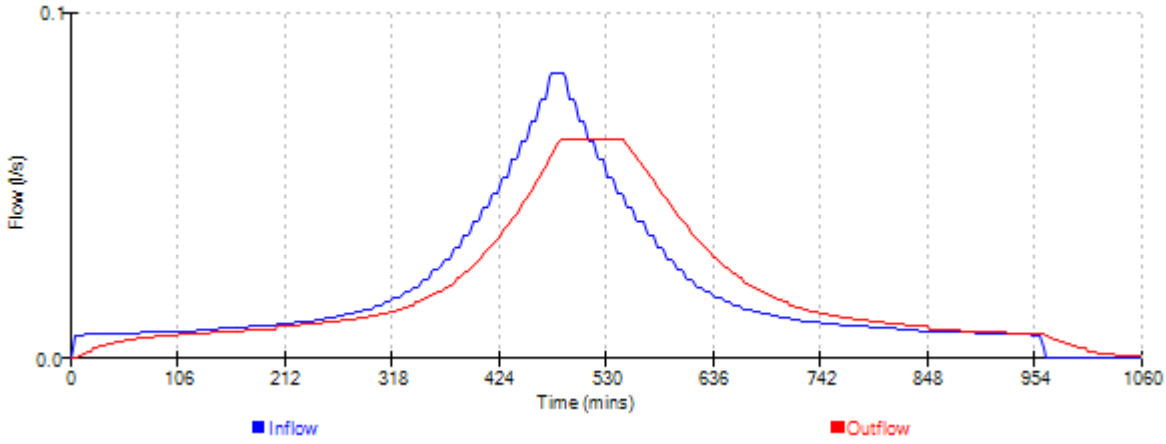


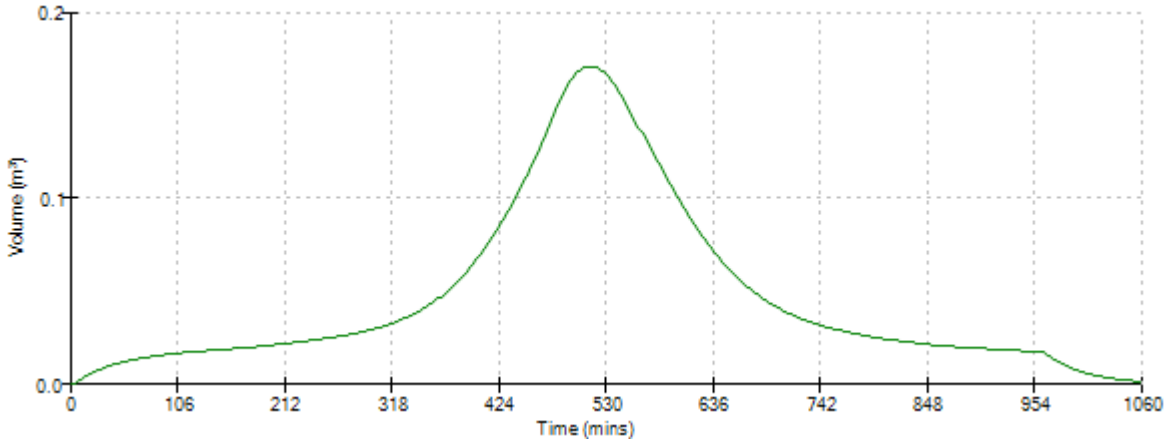


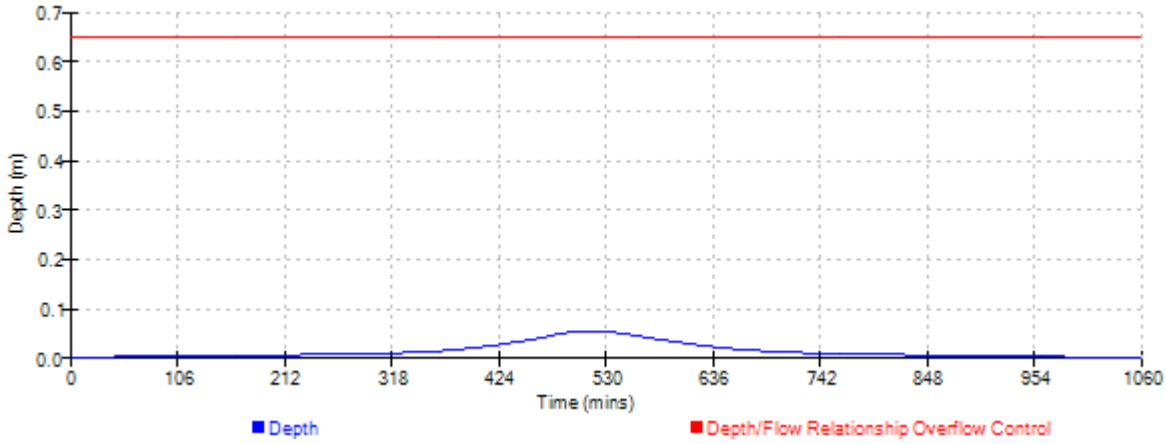


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Event: 960 min Summer

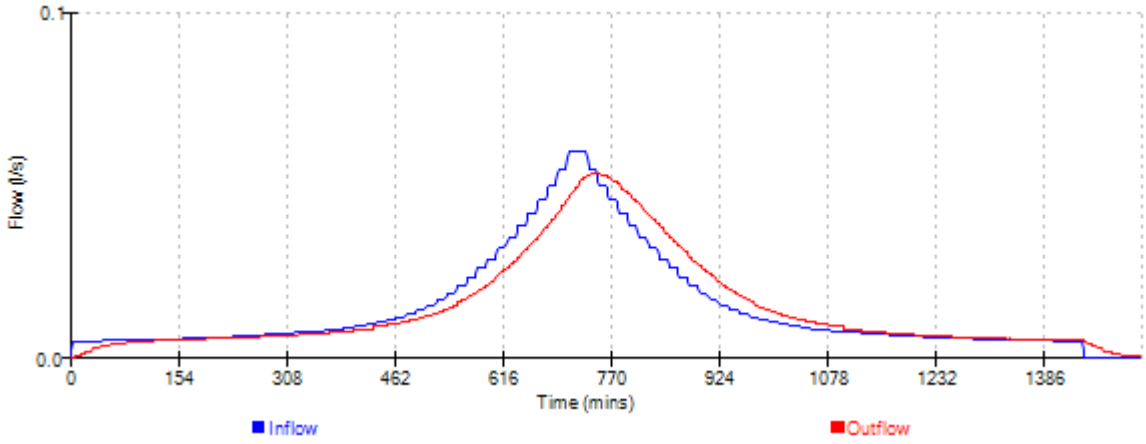


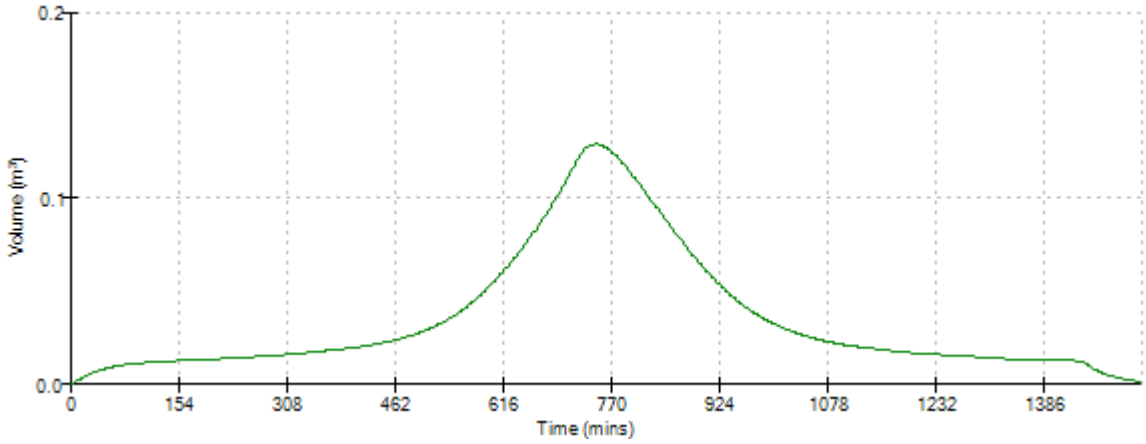


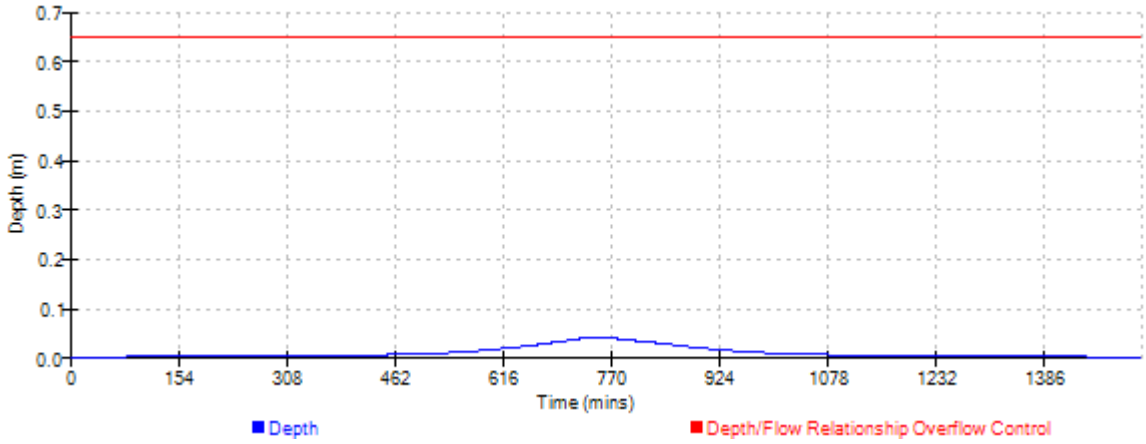


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Event: 1440 min Summer

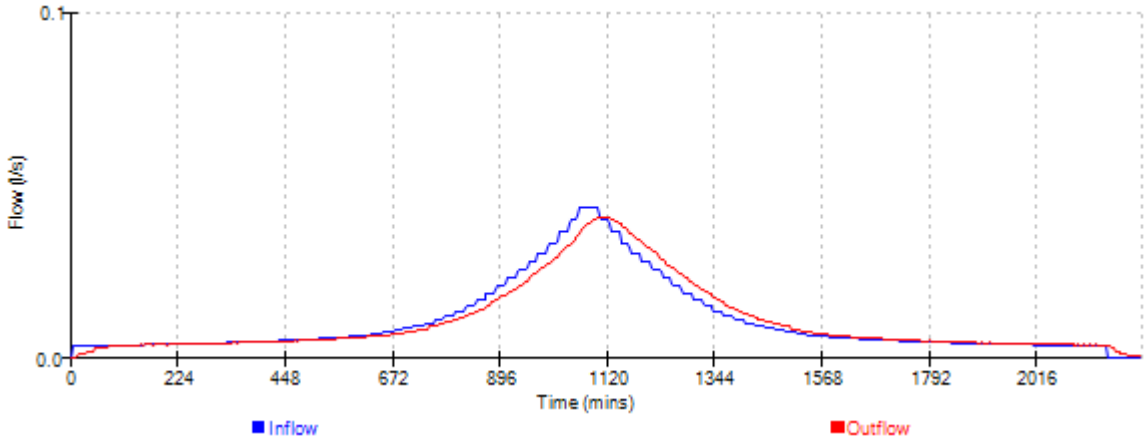


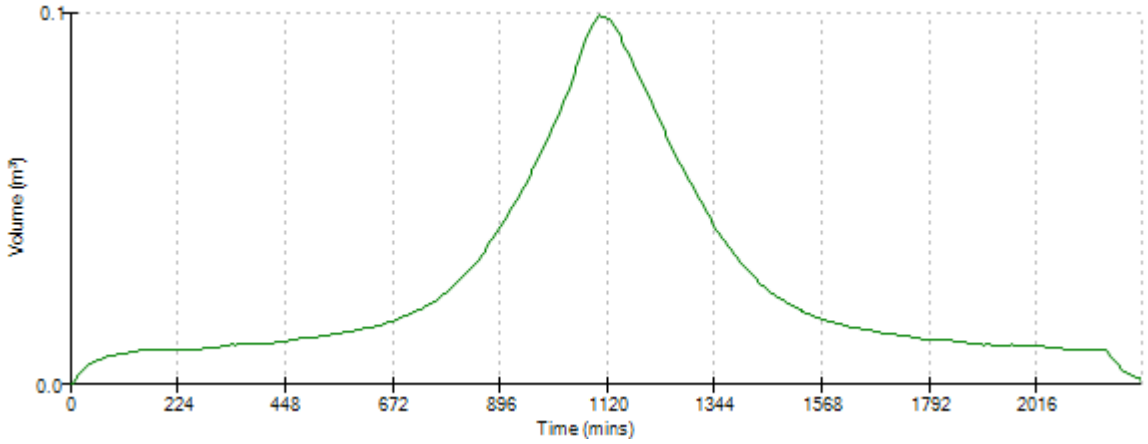


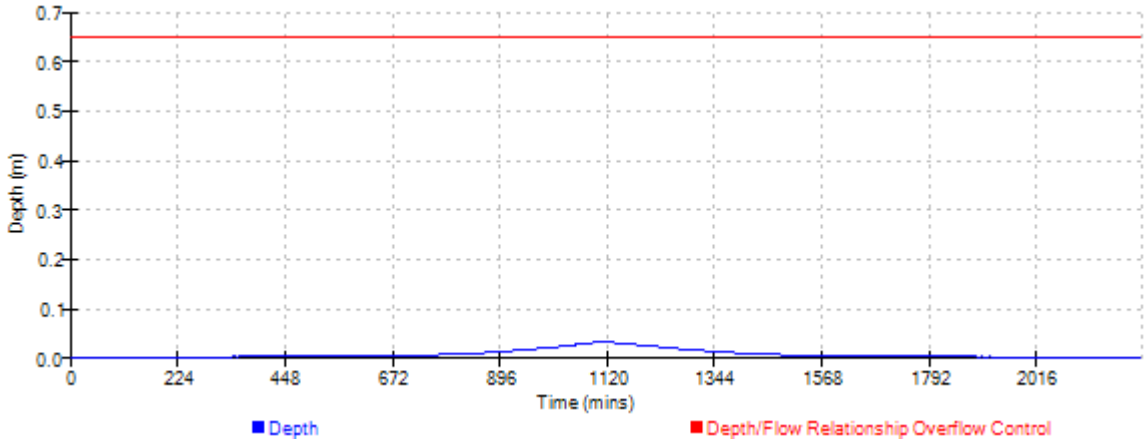


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Event: 2160 min Summer

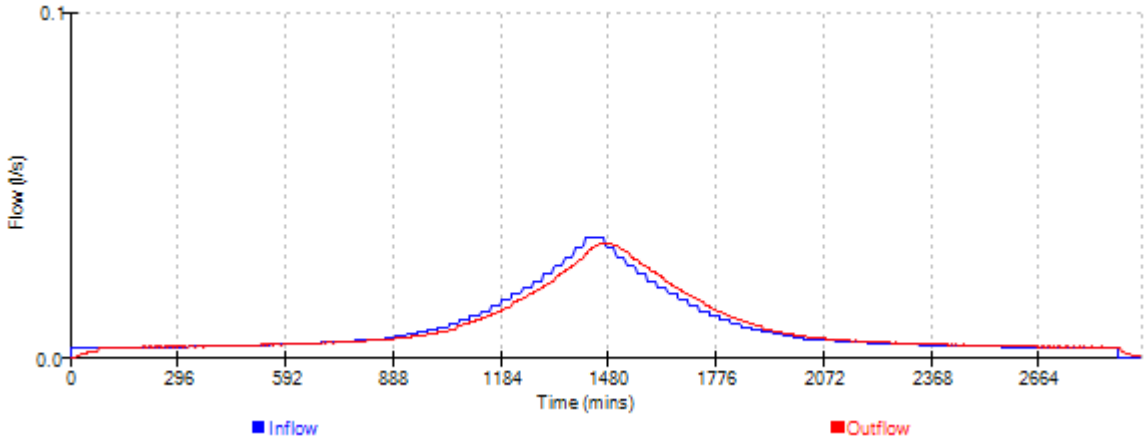


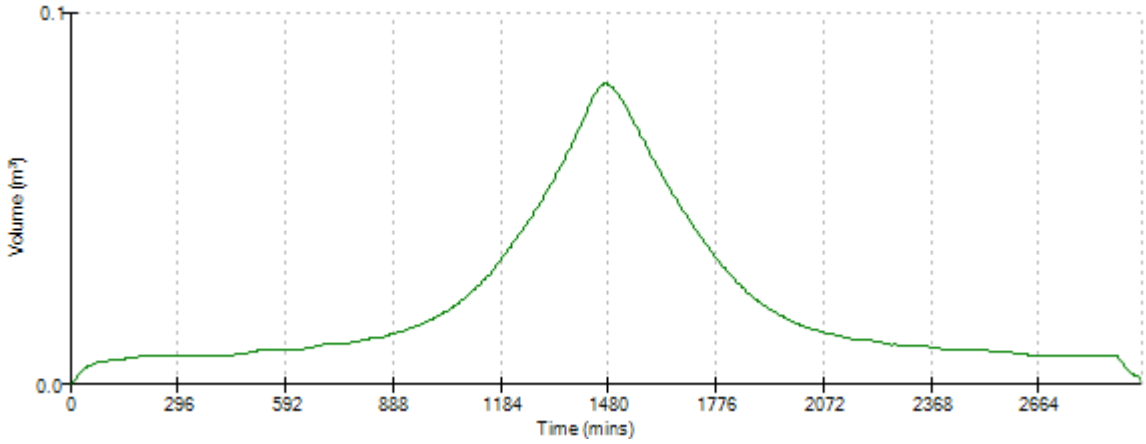


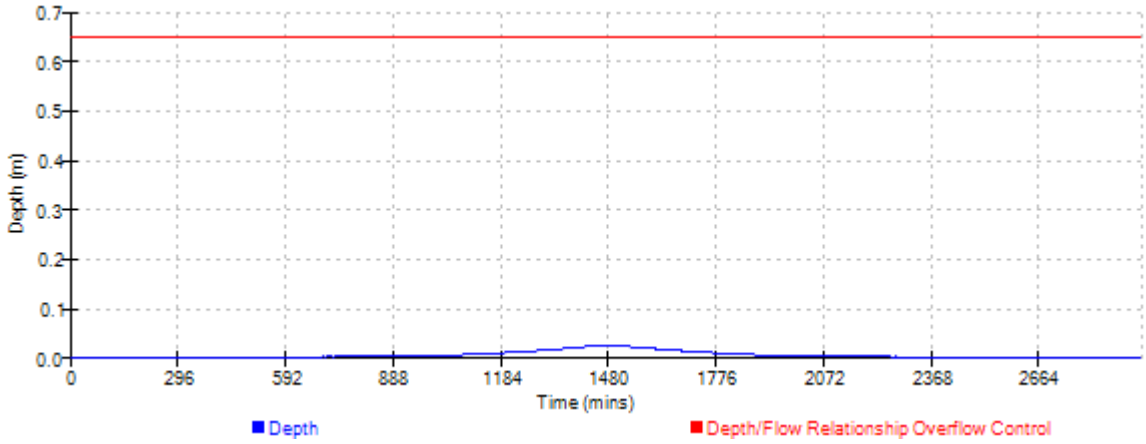


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Event: 2880 min Summer

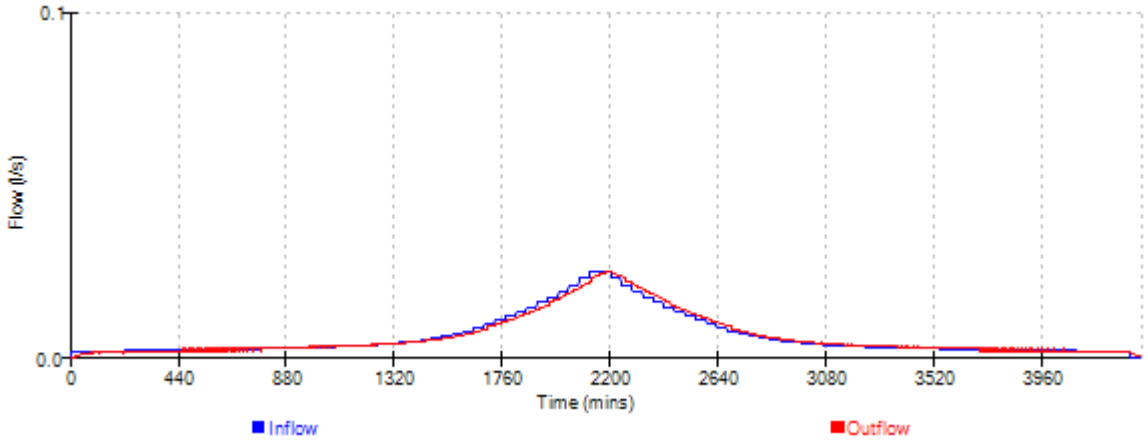


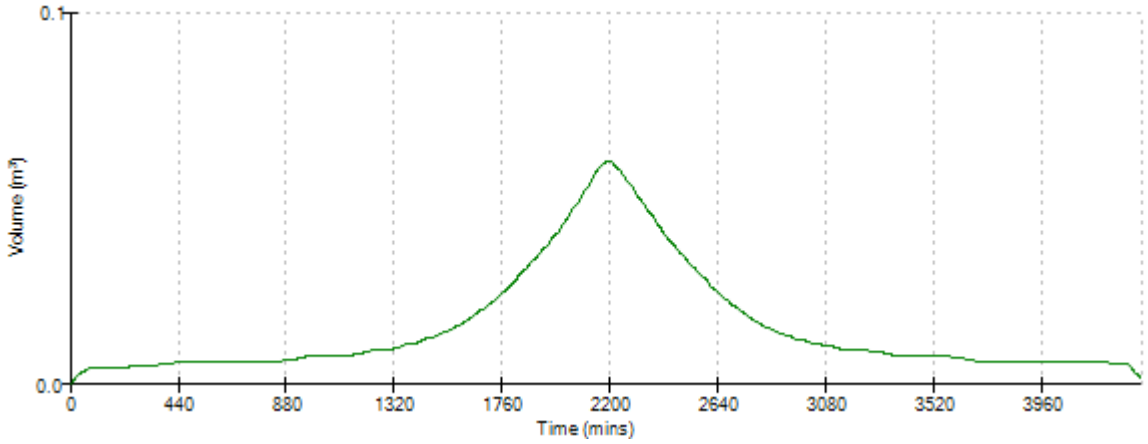


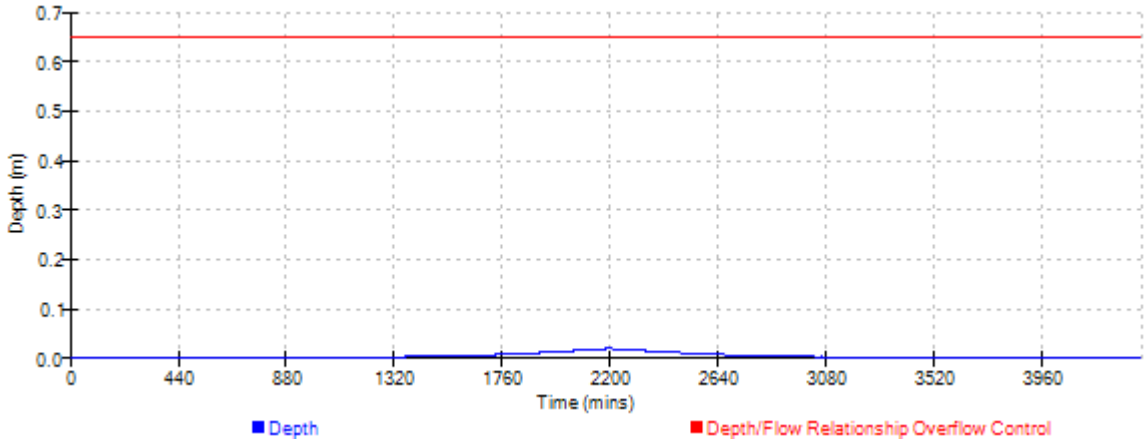


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Event: 4320 min Summer

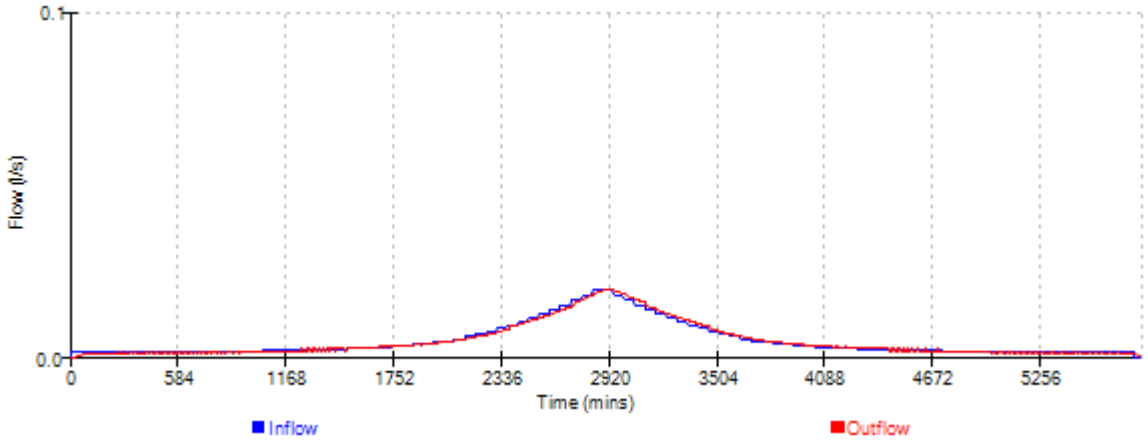


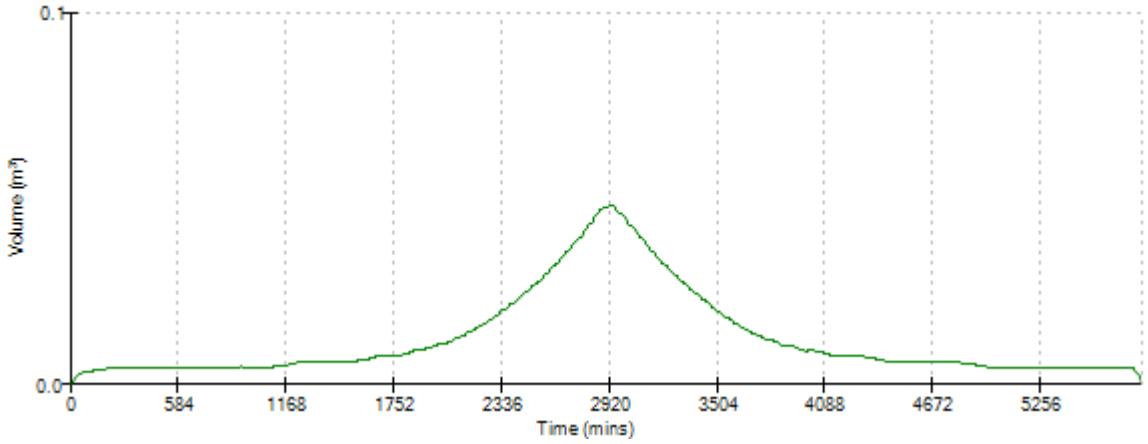


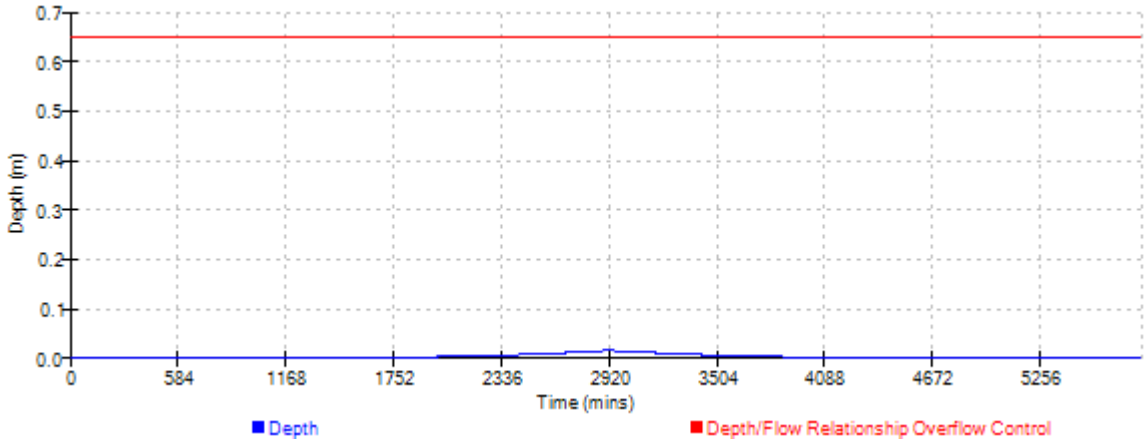


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Event: 5760 min Summer

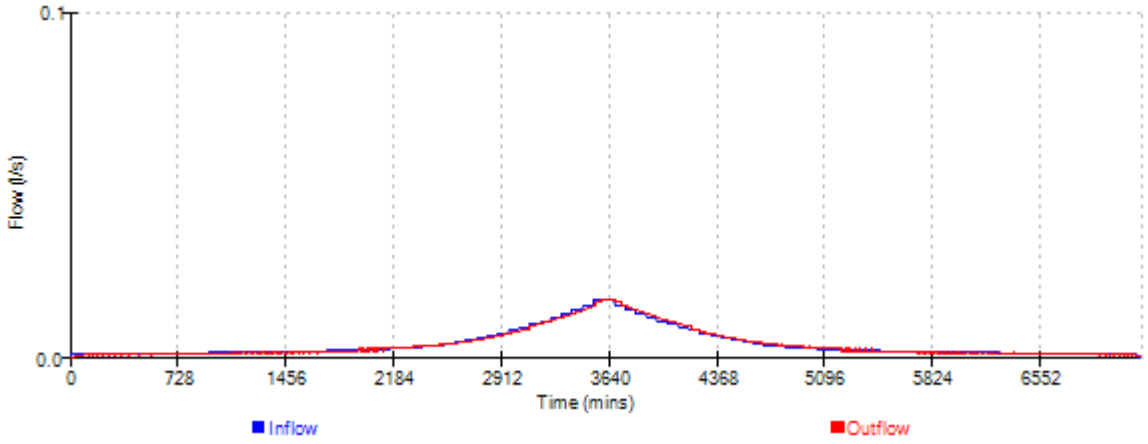


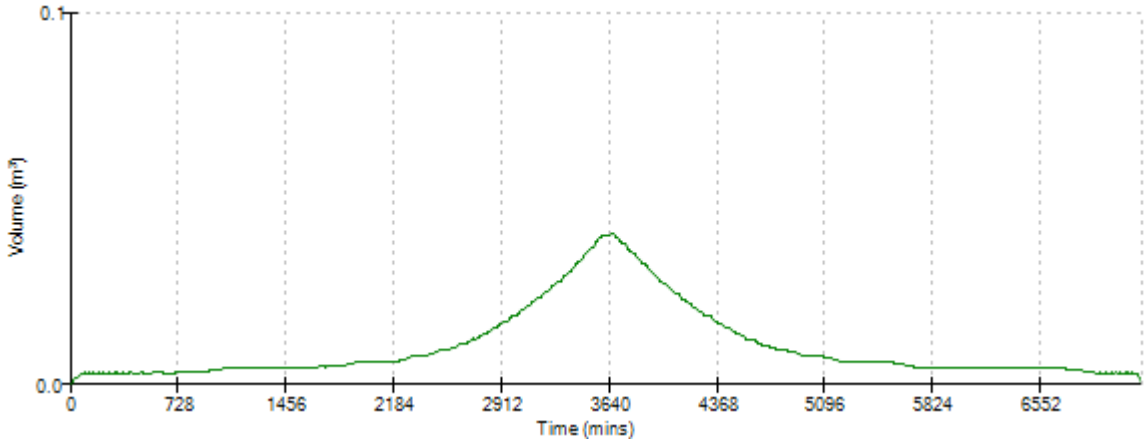


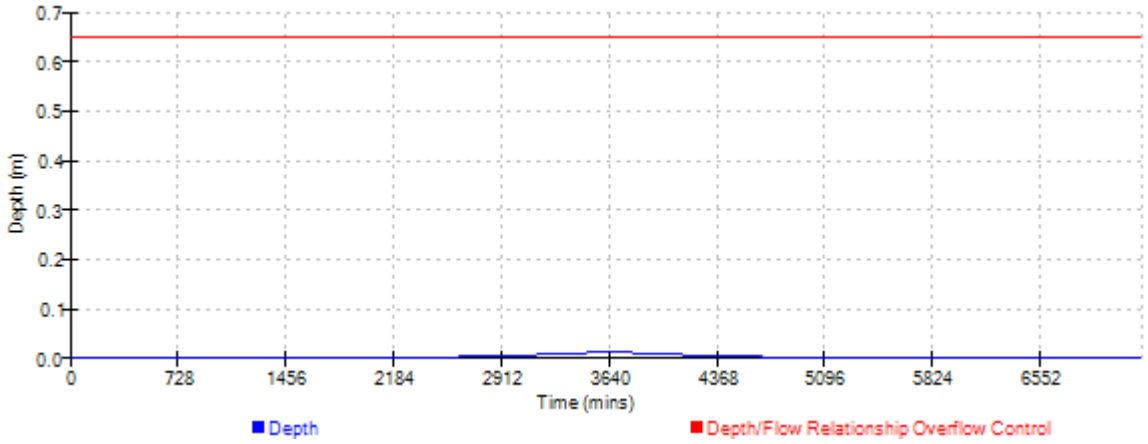


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Event: 7200 min Summer

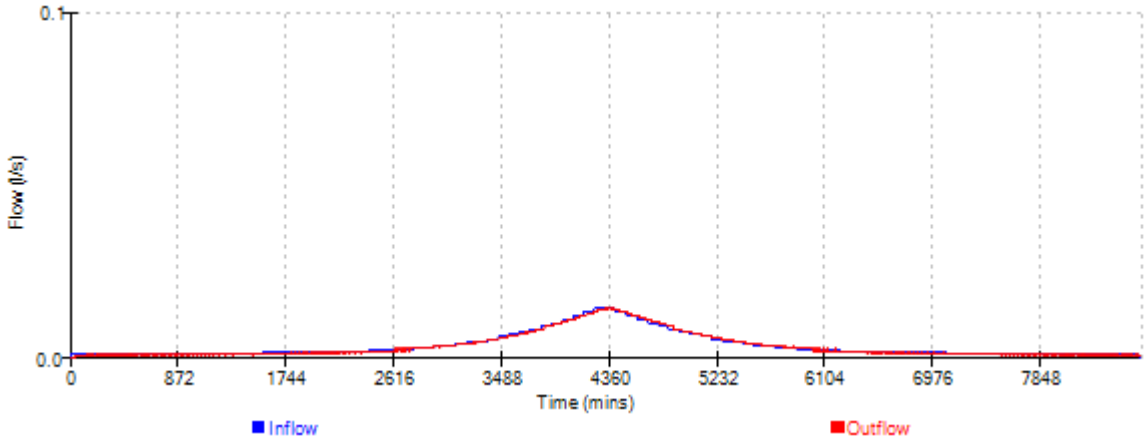


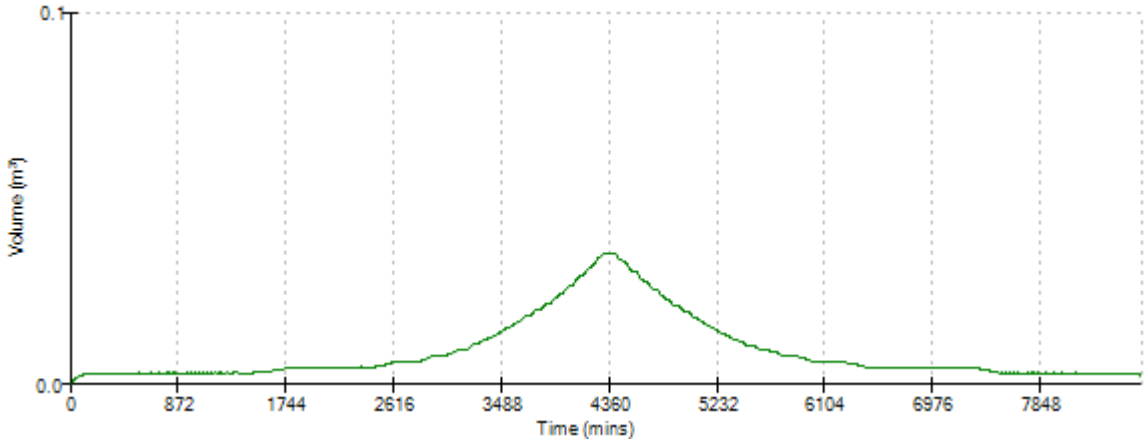


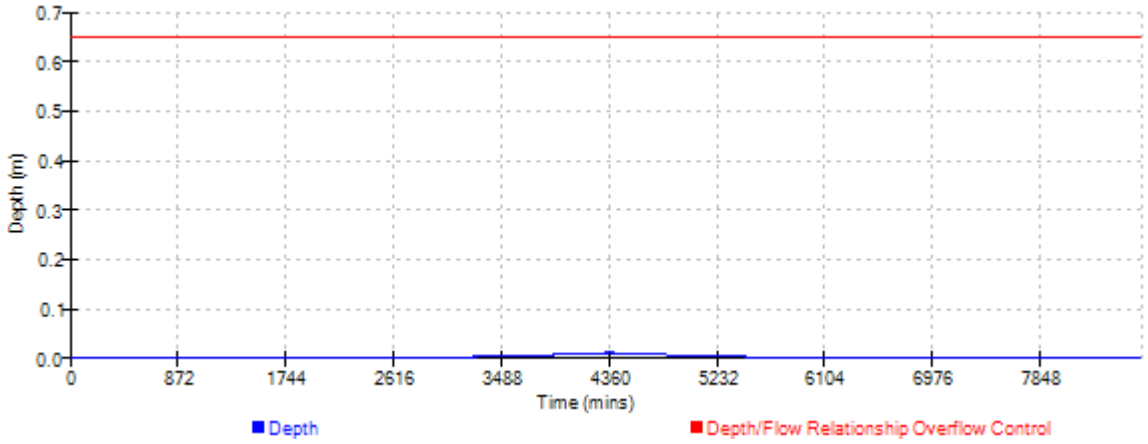


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Event: 8640 min Summer

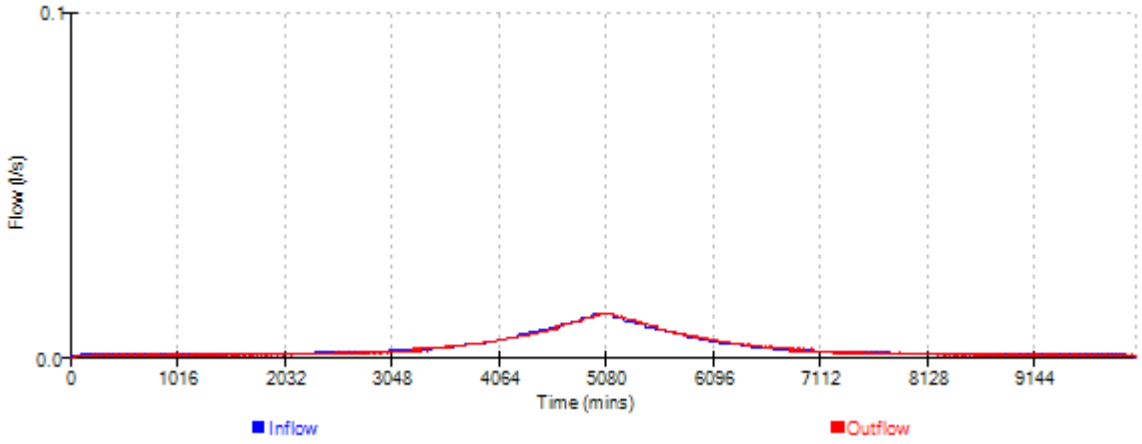


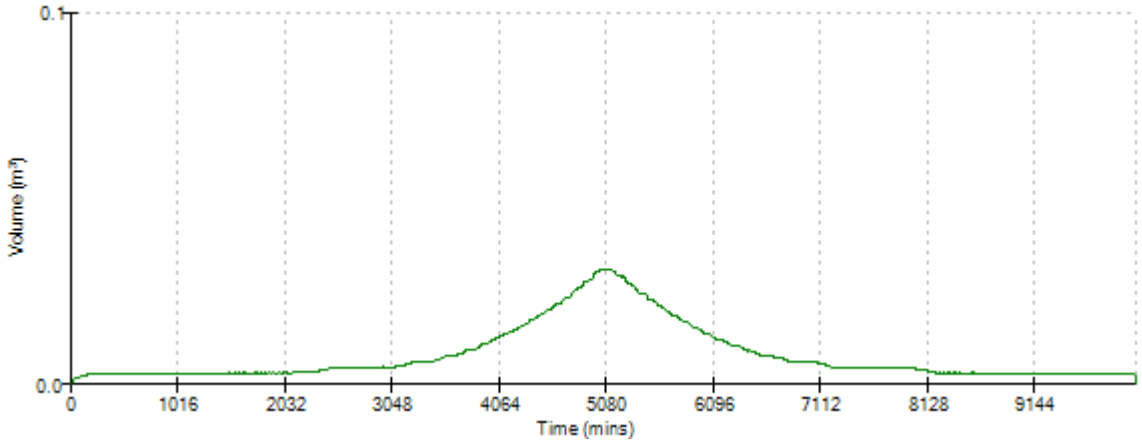


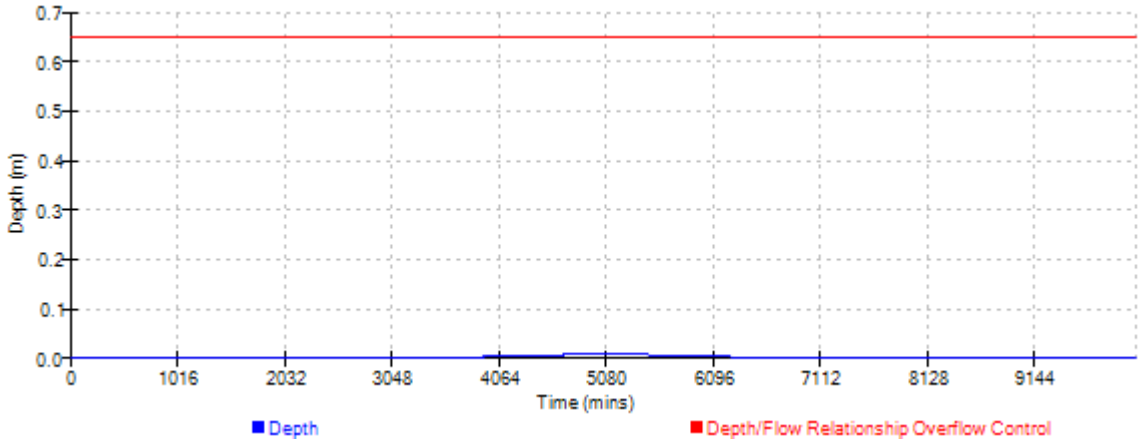


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Event: 10080 min Summer

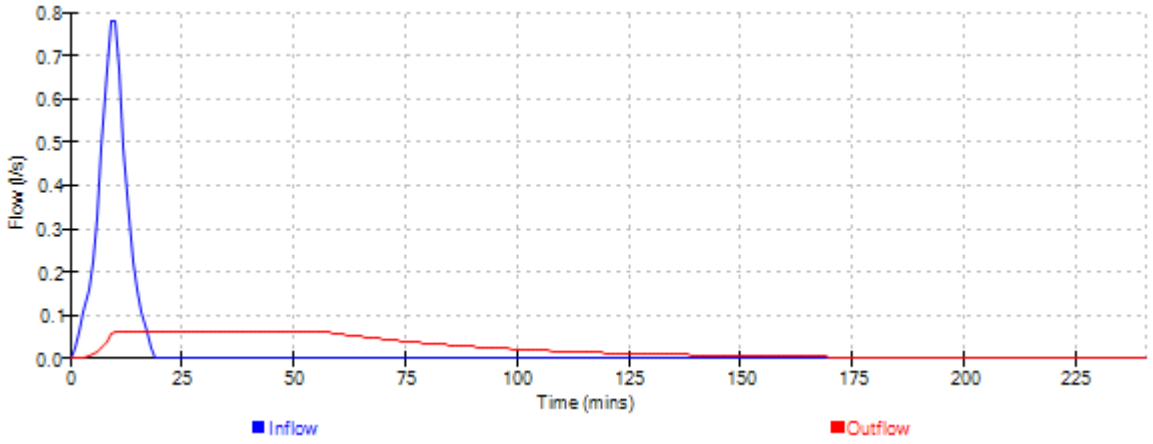


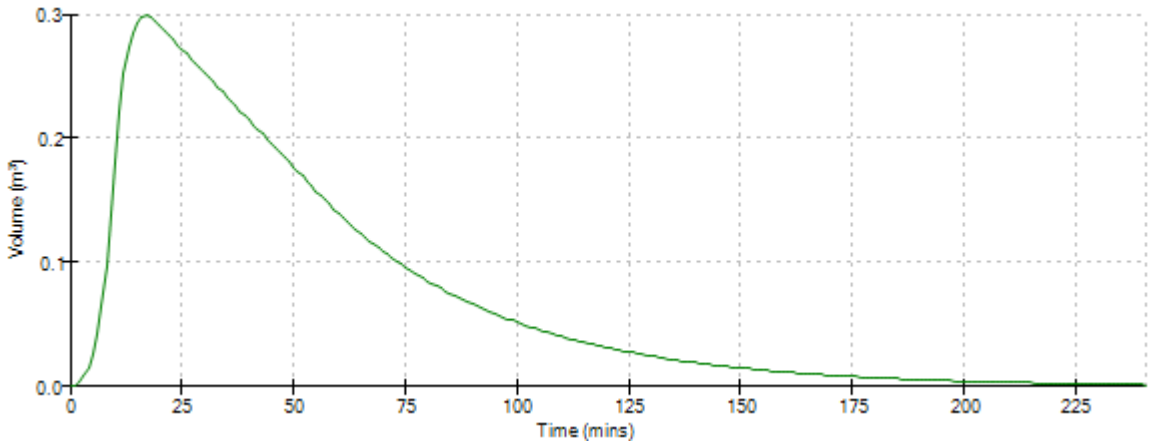


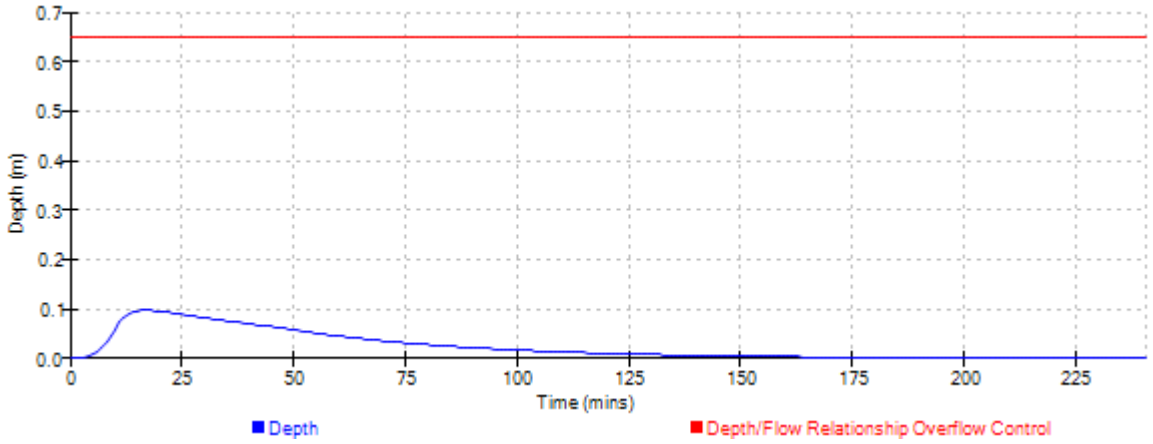


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Event: 15 min Winter

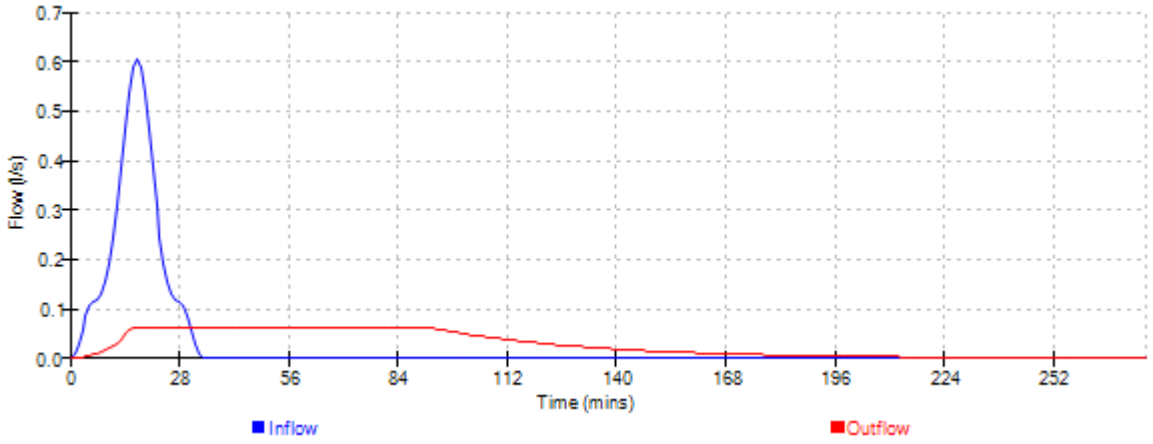


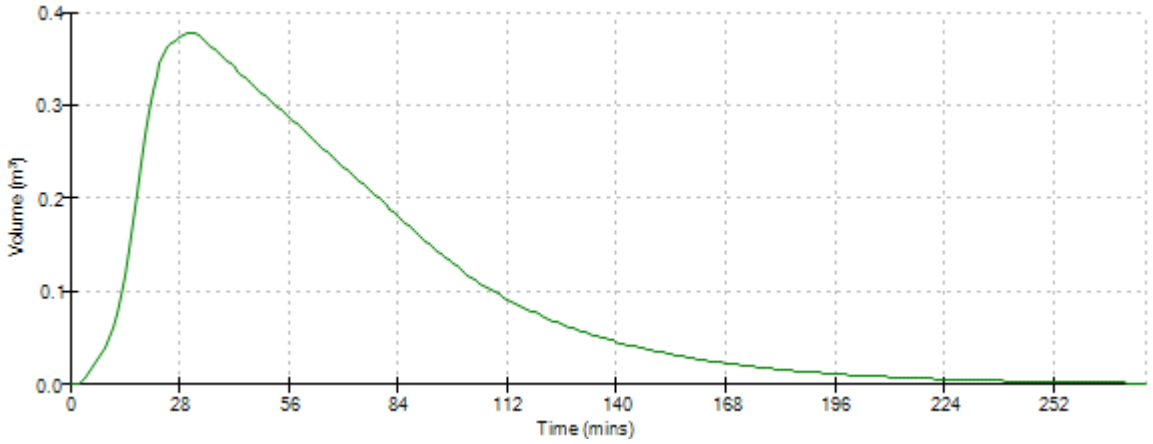


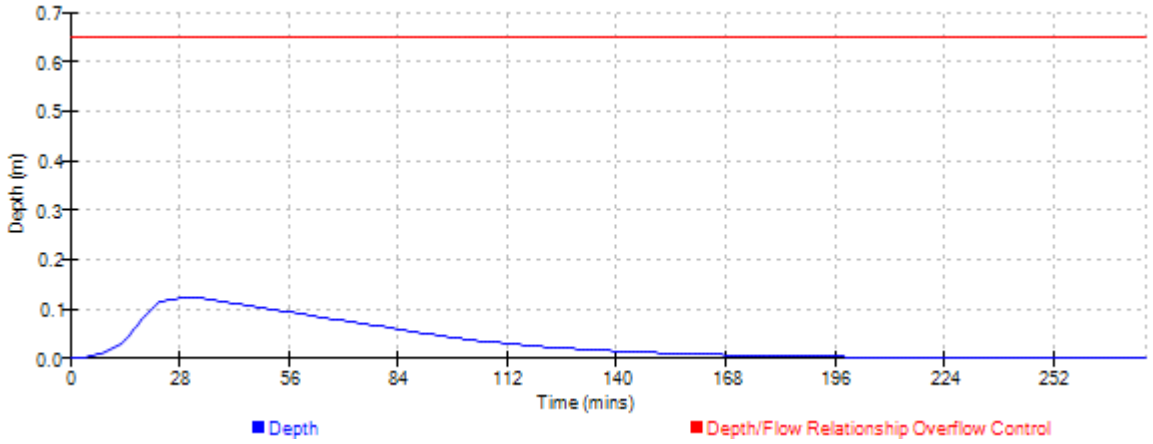


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Event: 30 min Winter

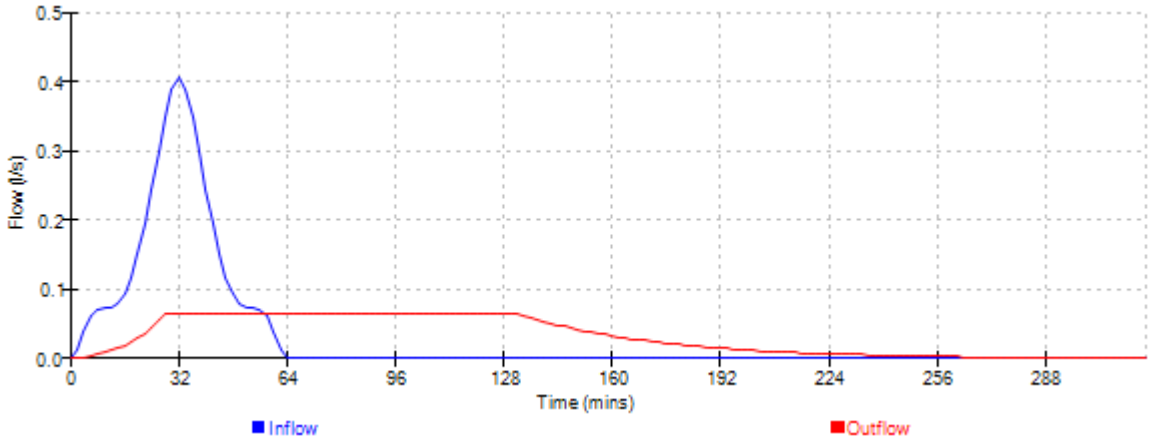


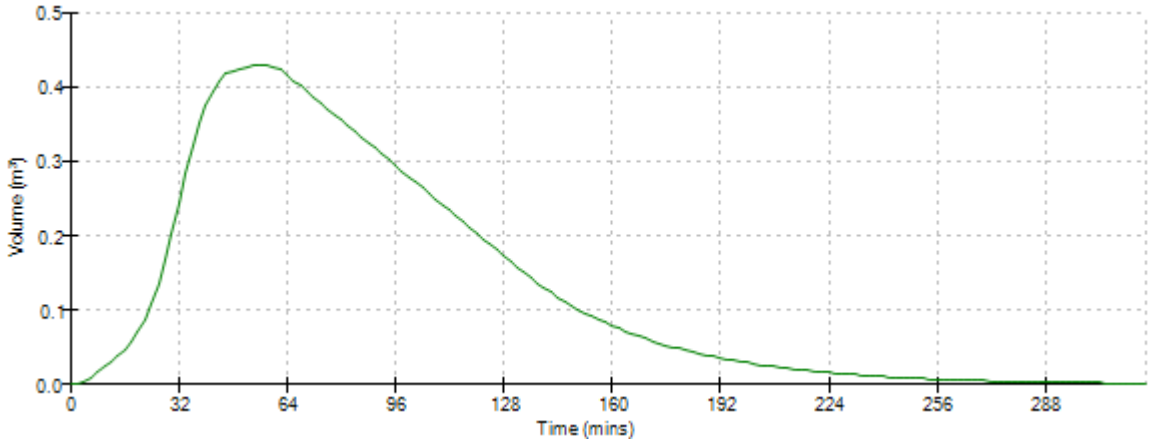


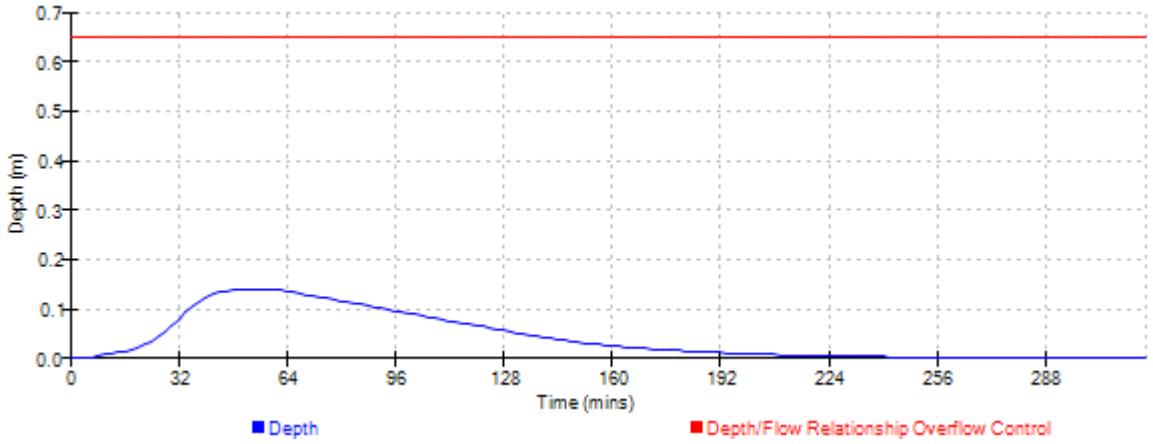


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Event: 60 min Winter

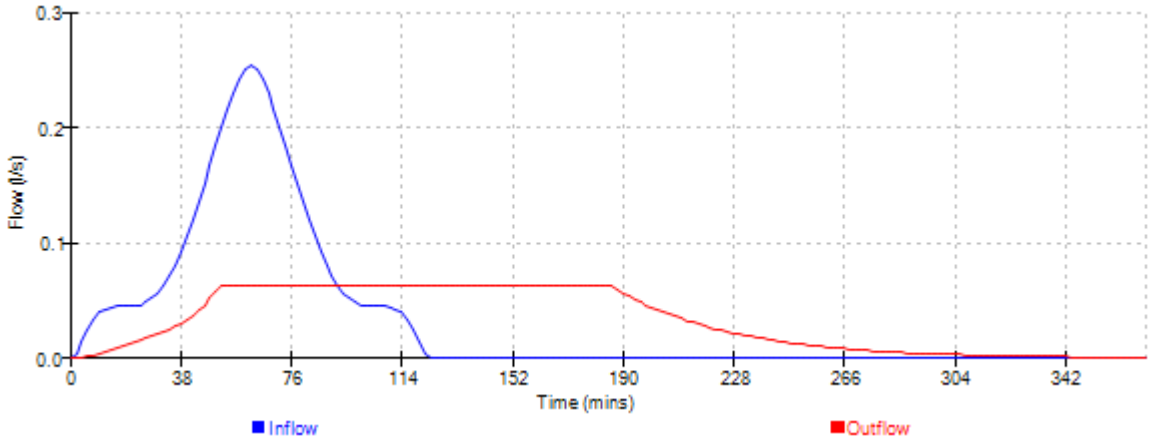


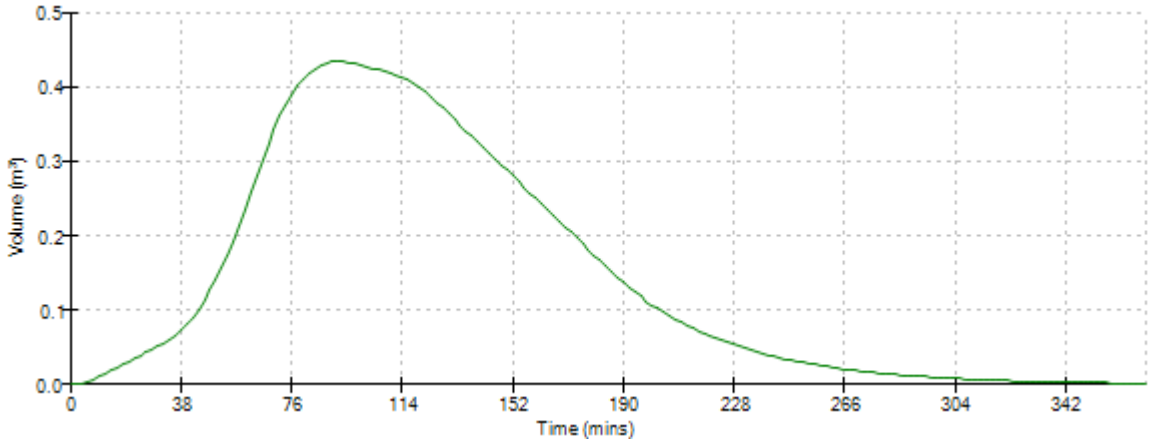


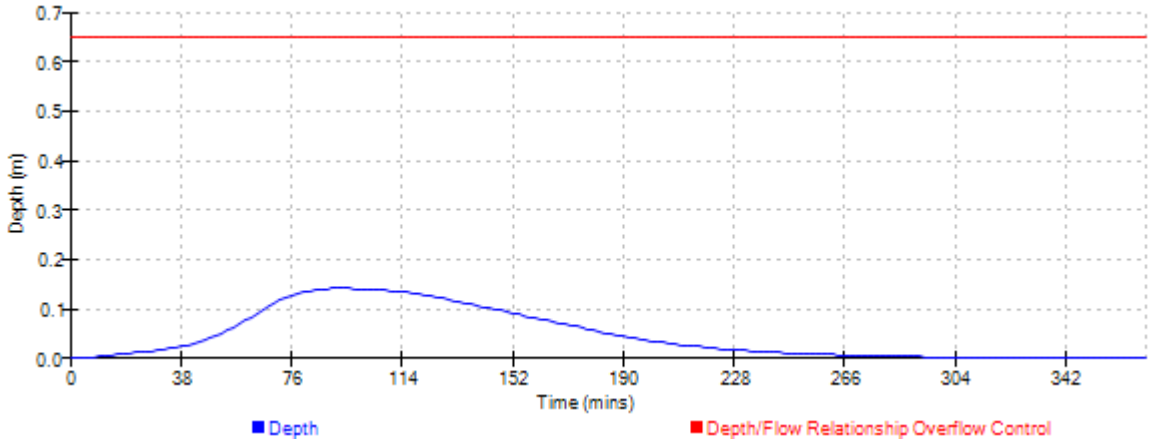


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Event: 120 min Winter

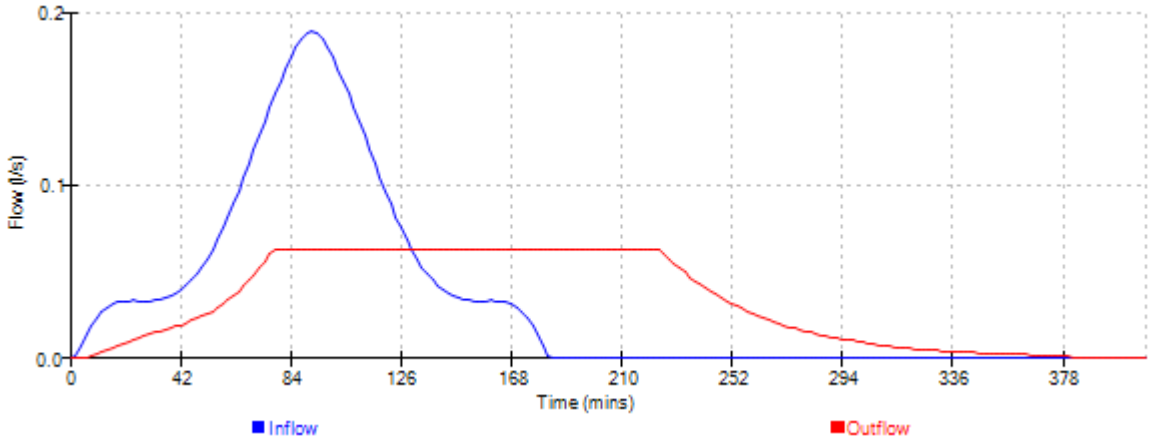


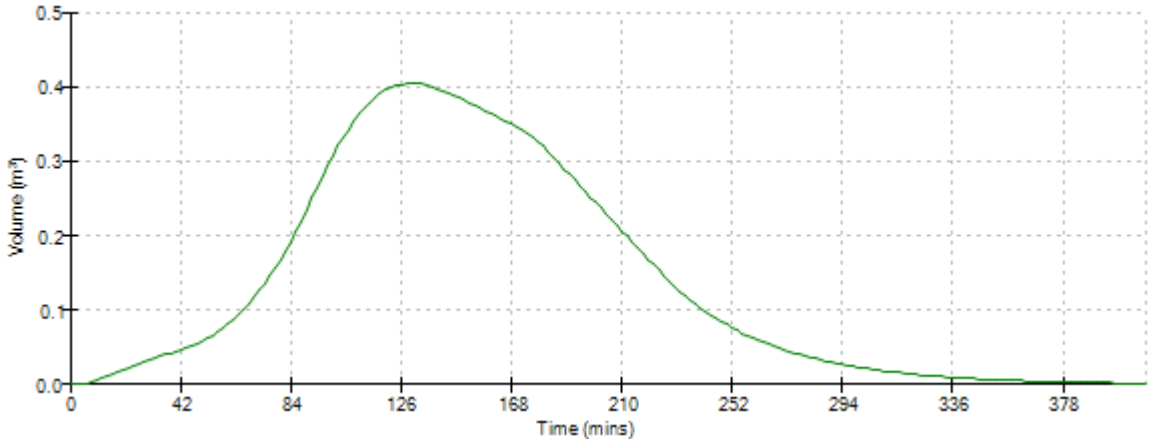


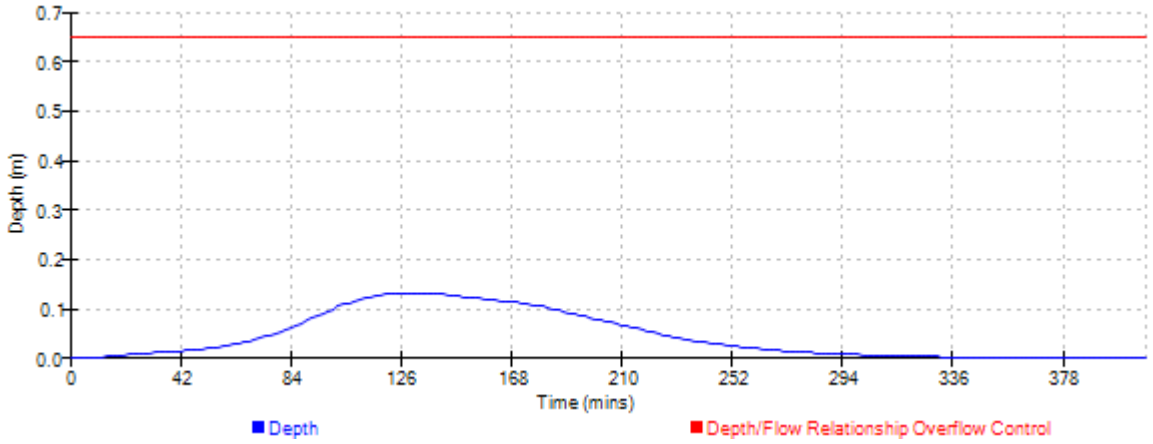


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Event: 180 min Winter

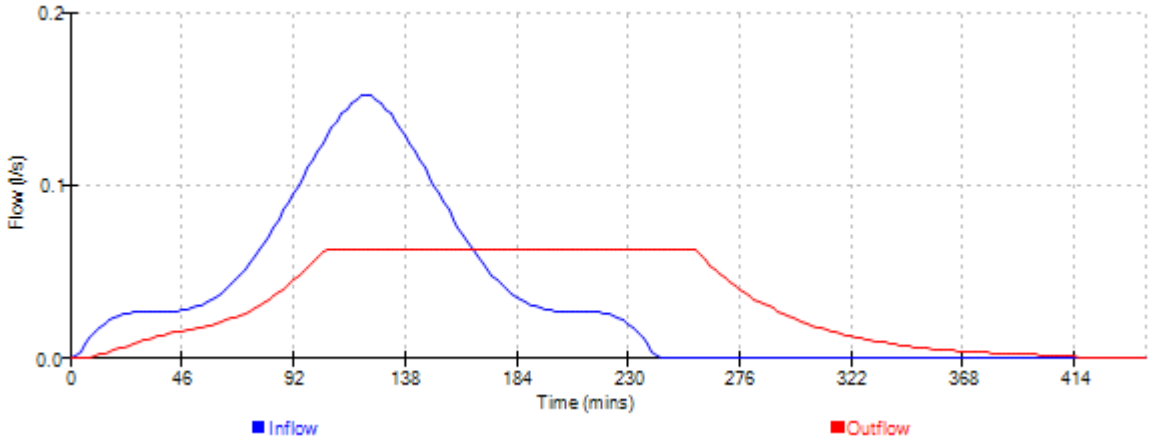


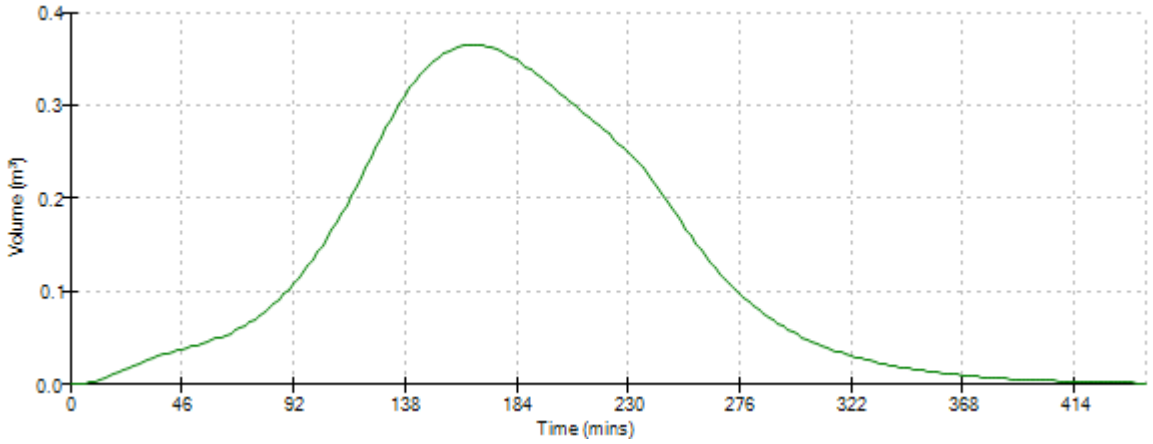


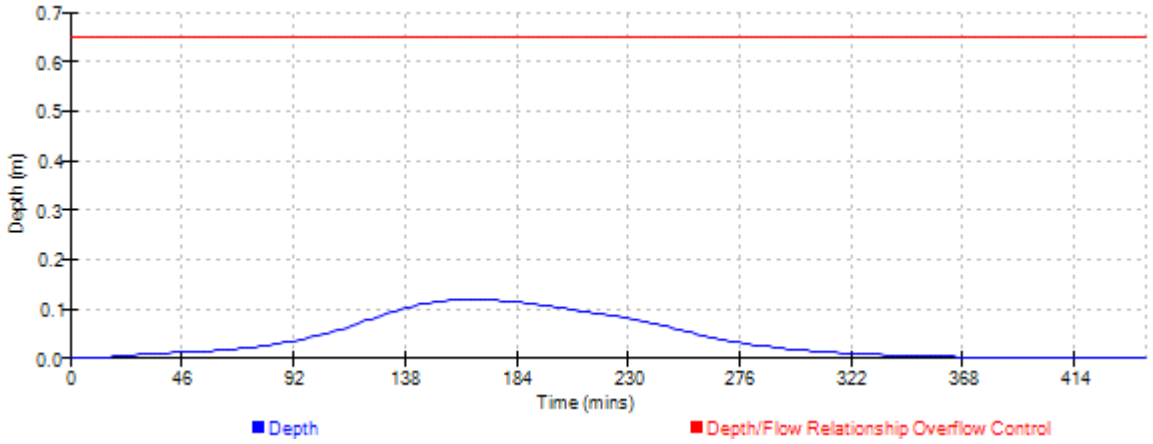


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Event: 240 min Winter

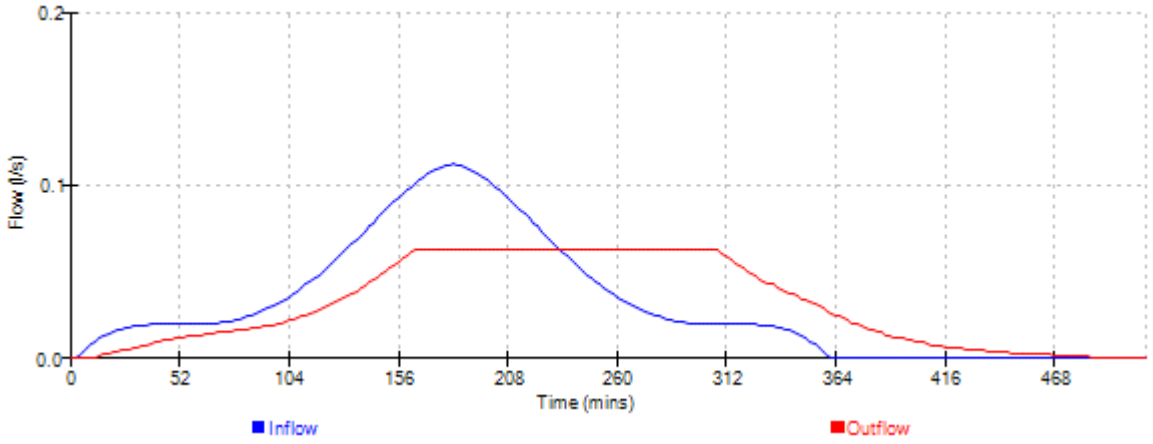


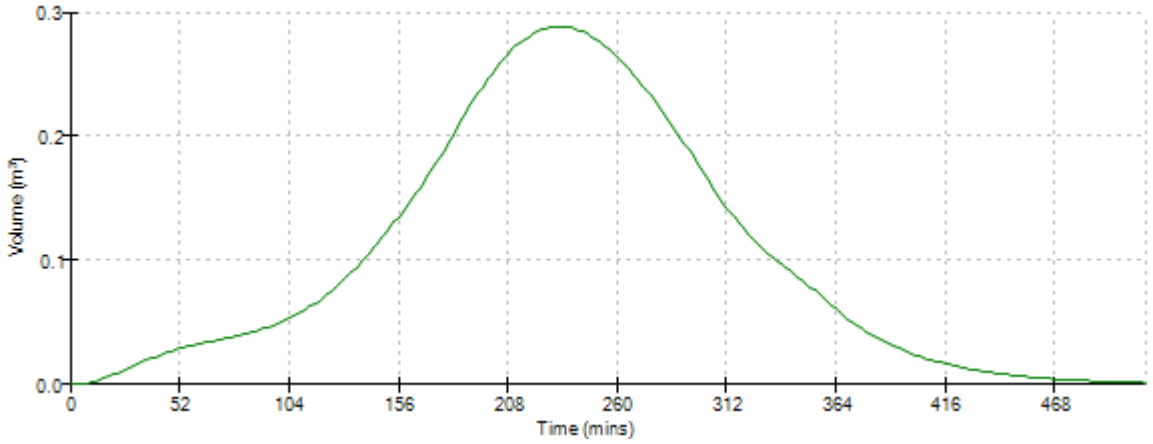


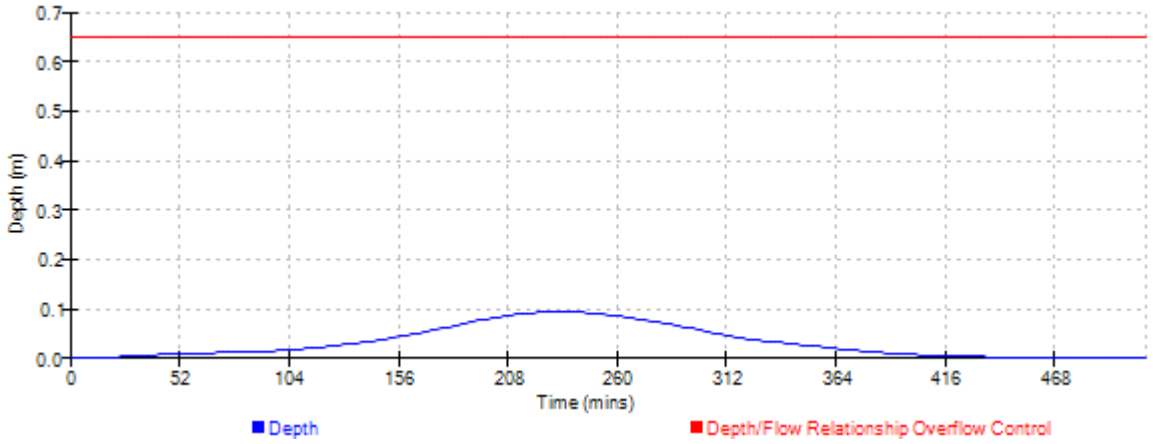


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Event: 360 min Winter

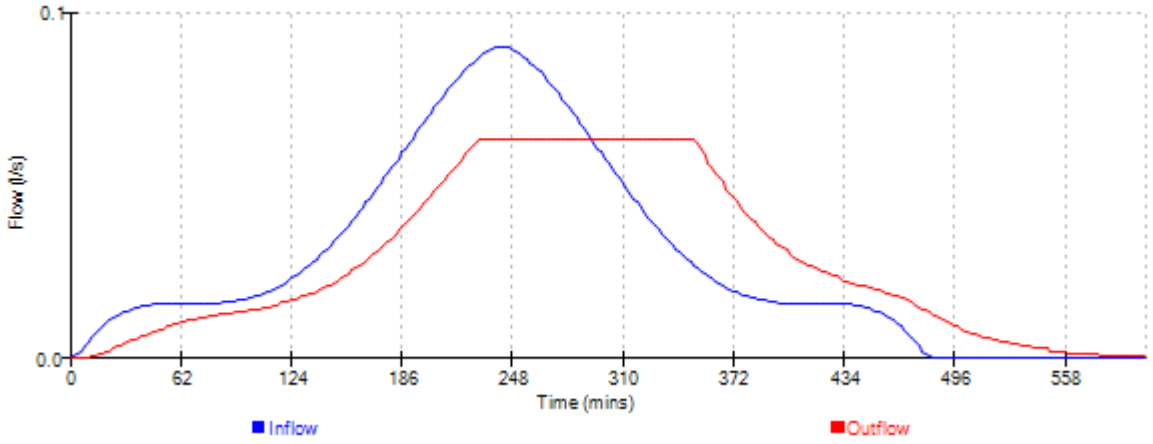


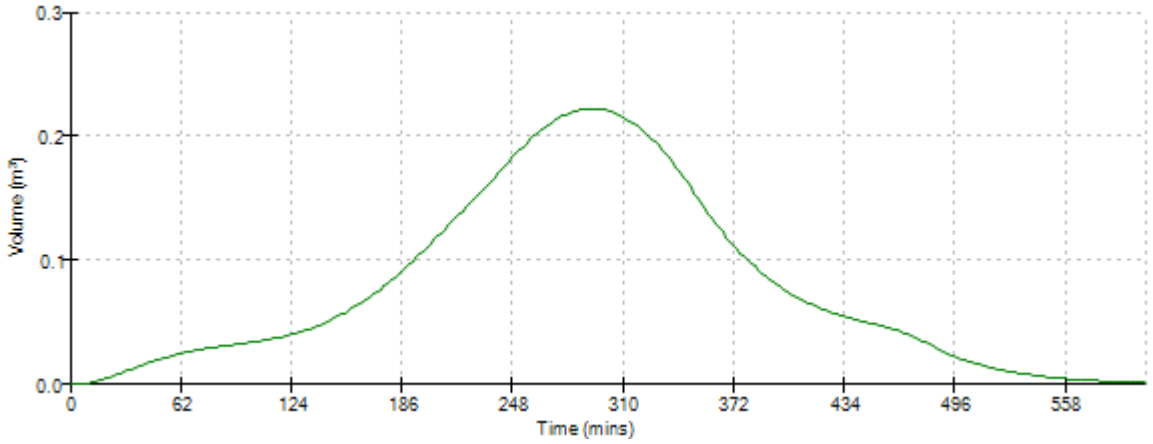


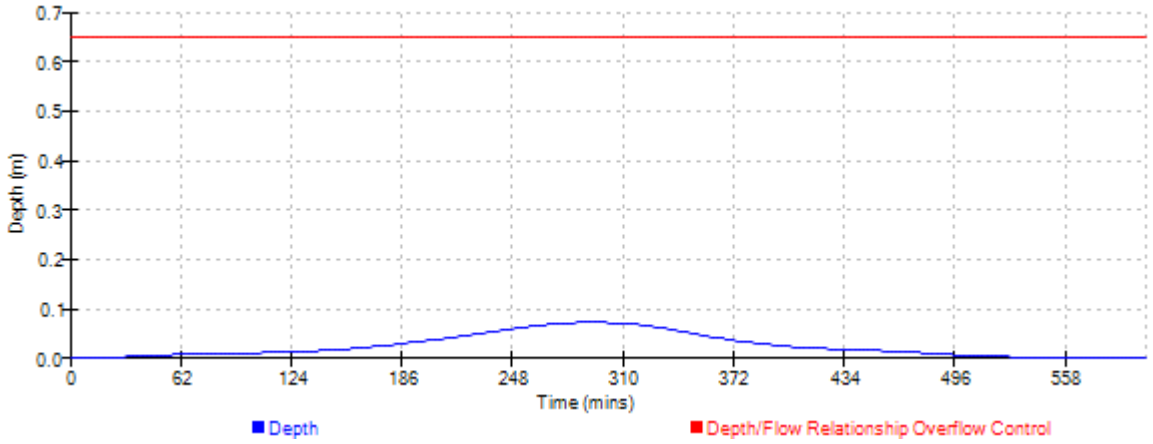


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Event: 480 min Winter

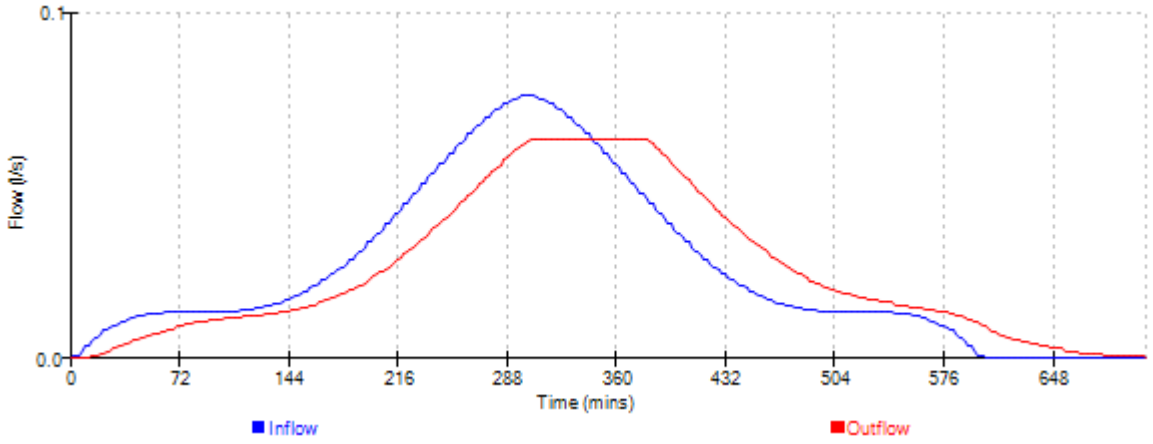


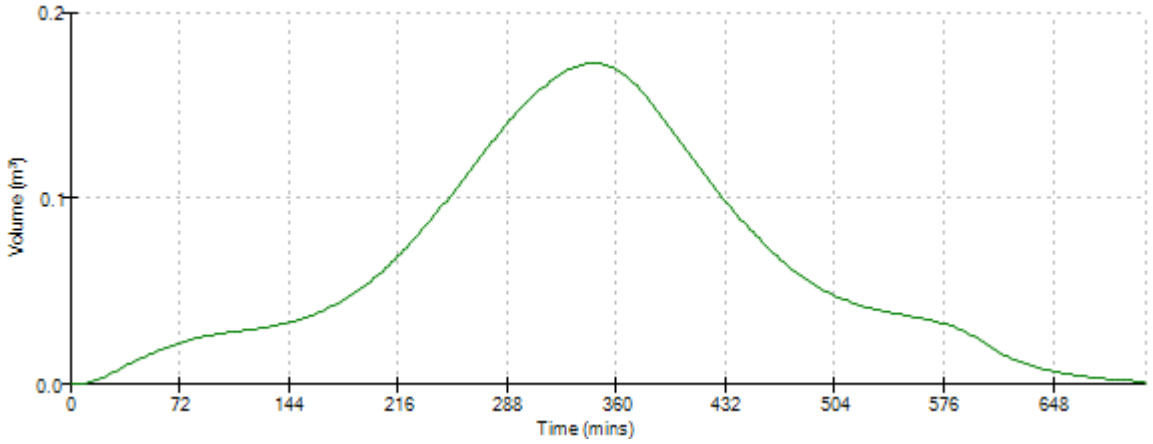


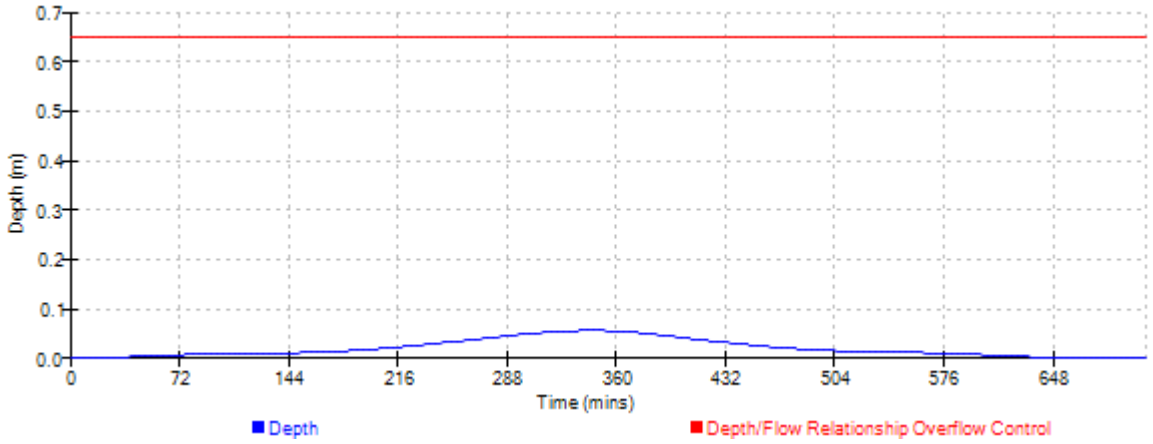


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Event: 600 min Winter

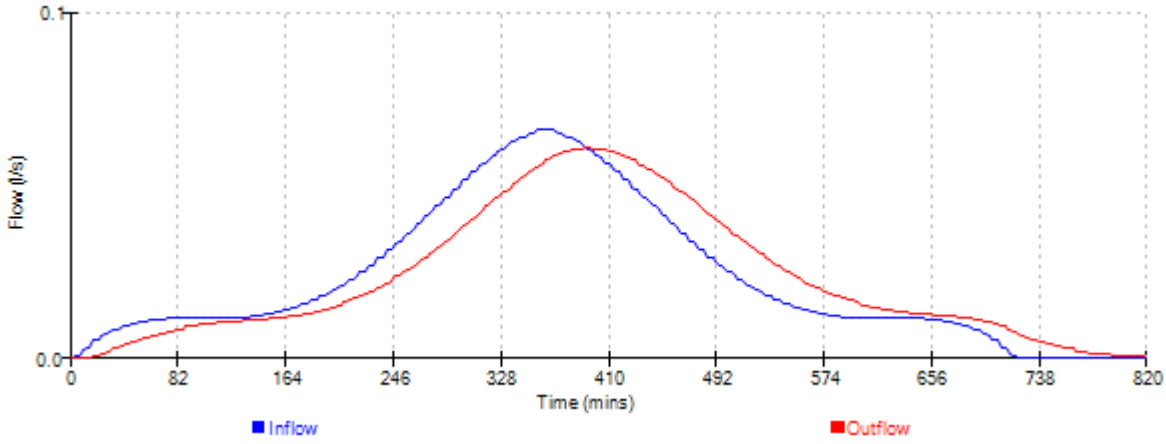


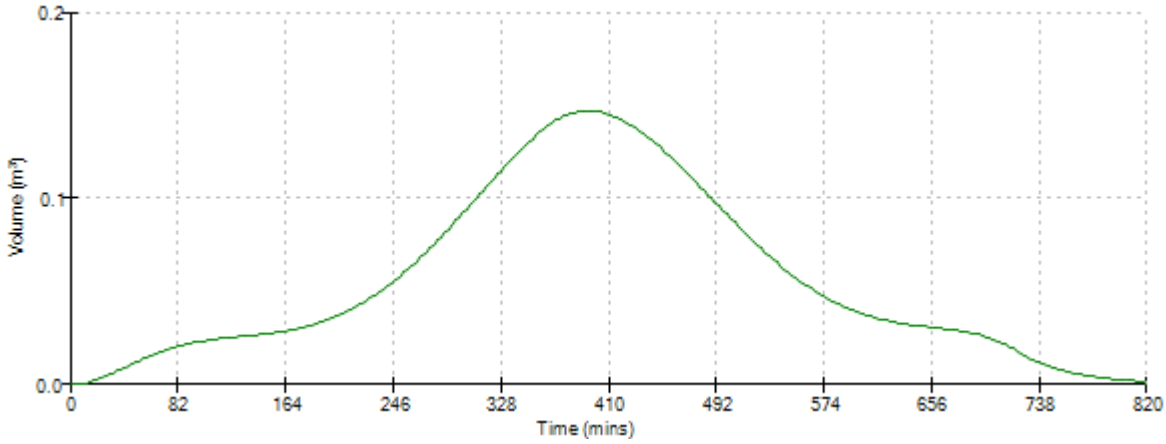


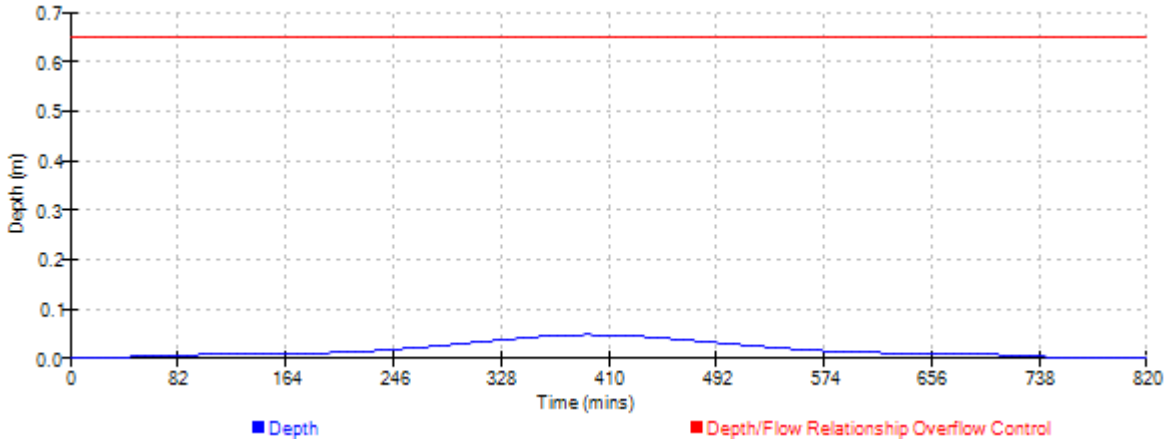


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Event: 720 min Winter

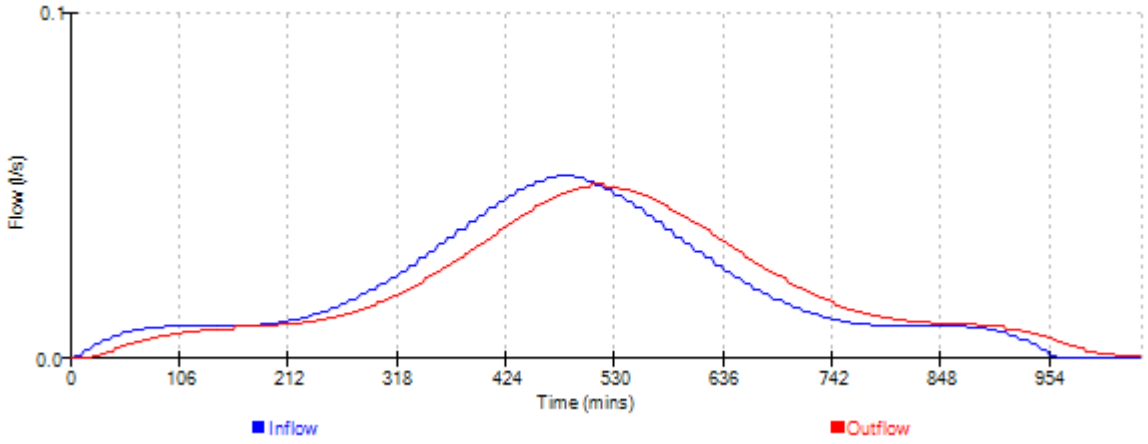


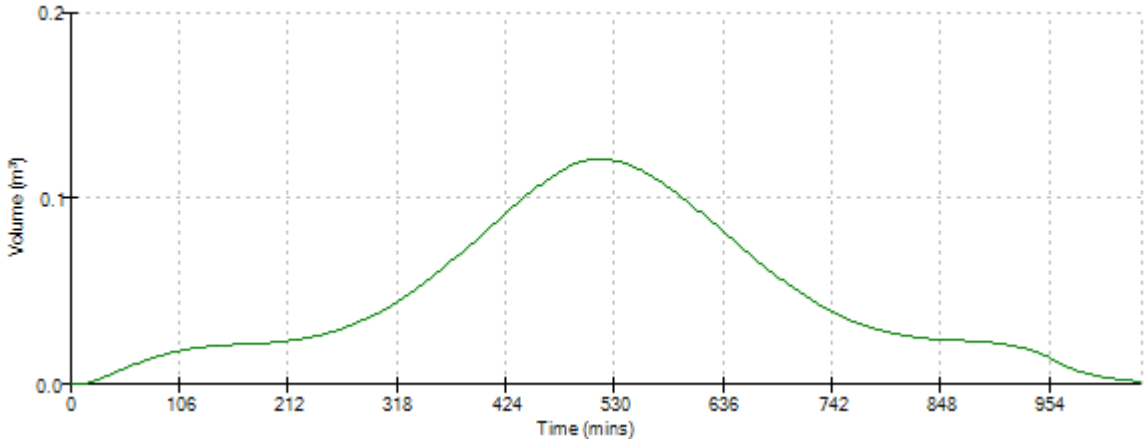


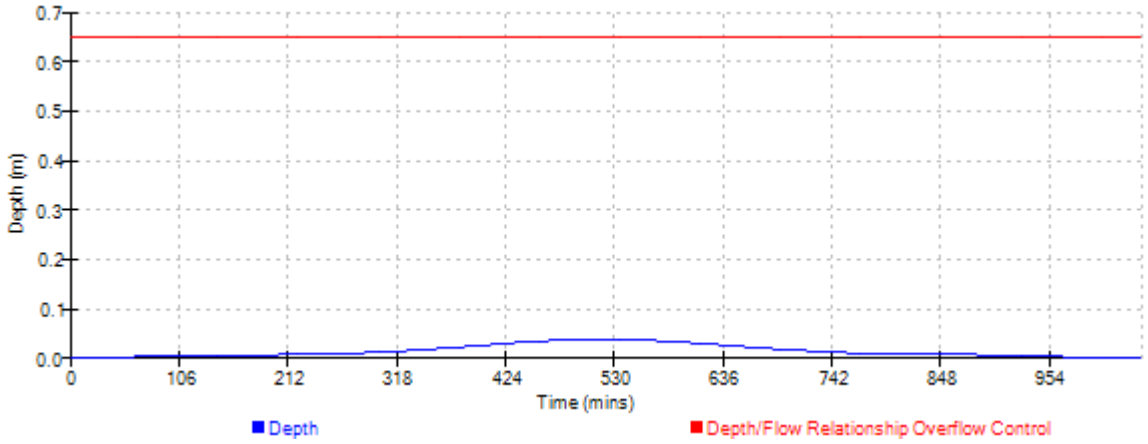


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Event: 960 min Winter

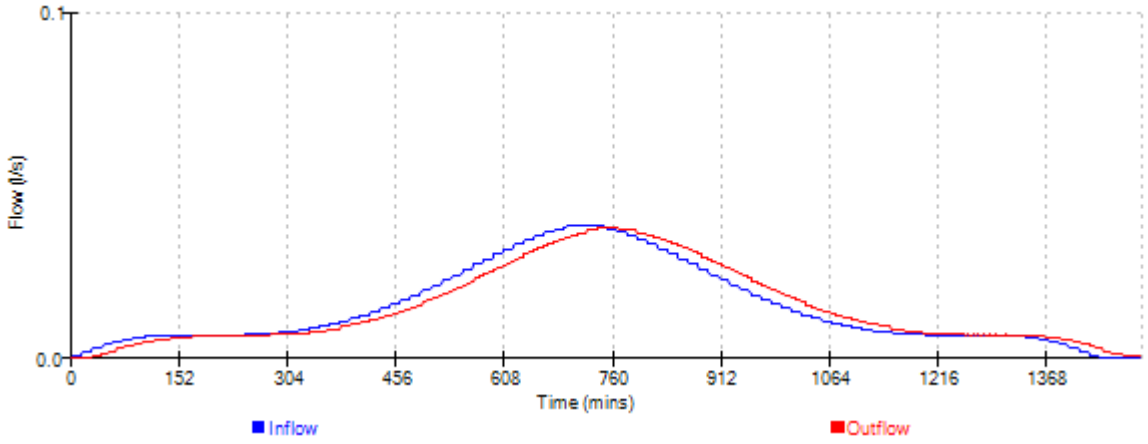


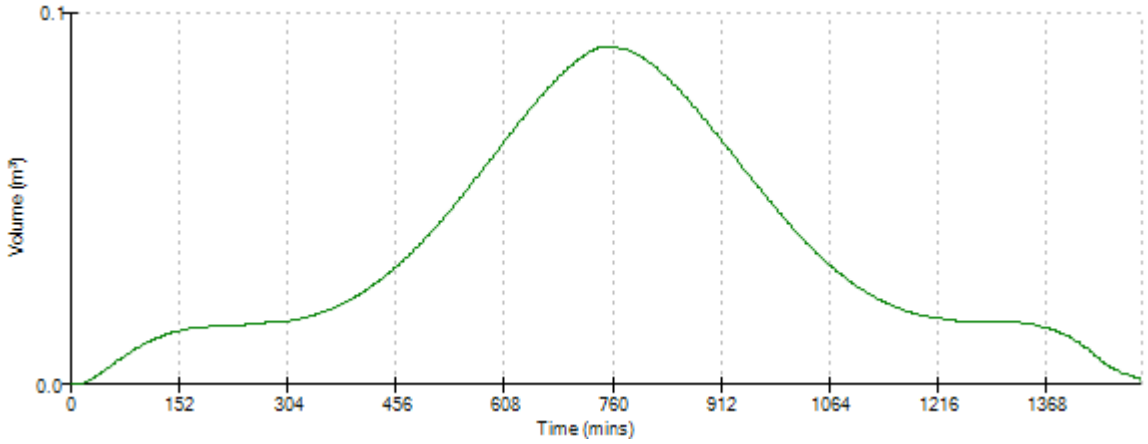


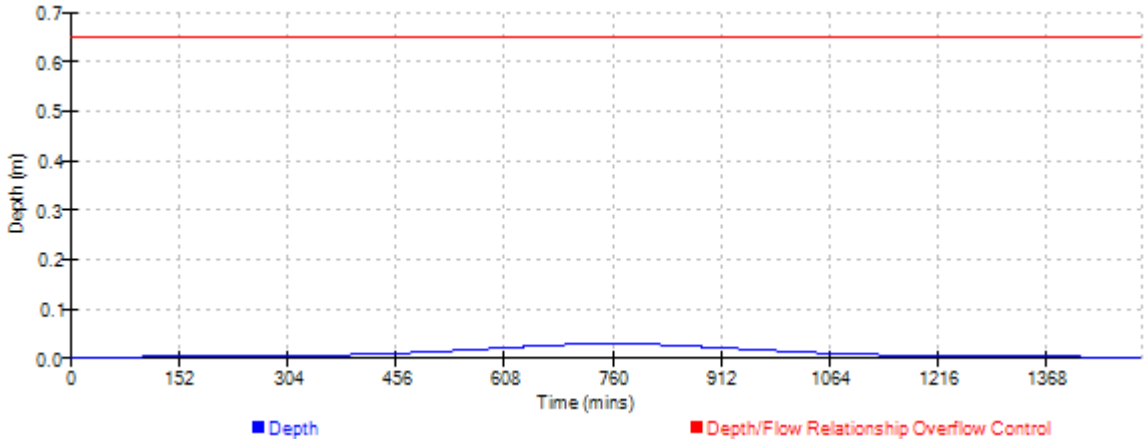


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Event: 1440 min Winter

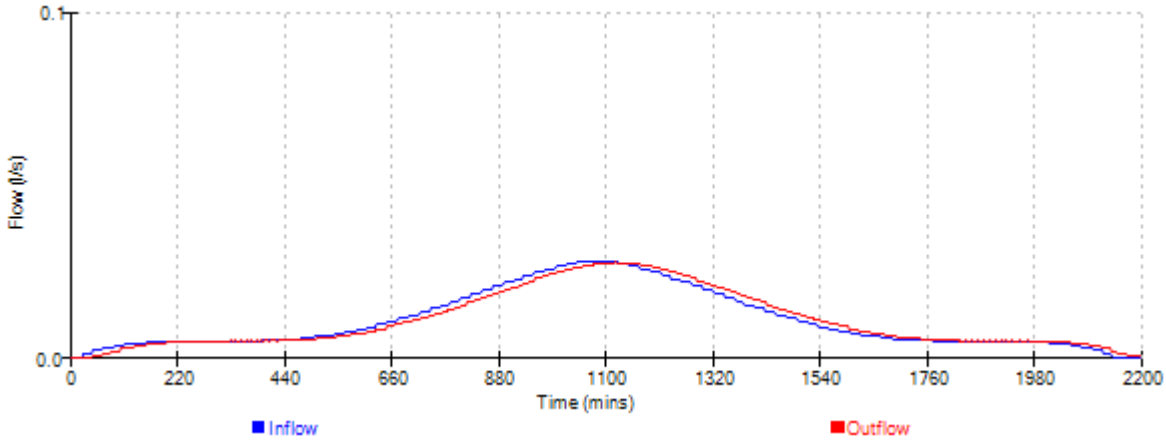


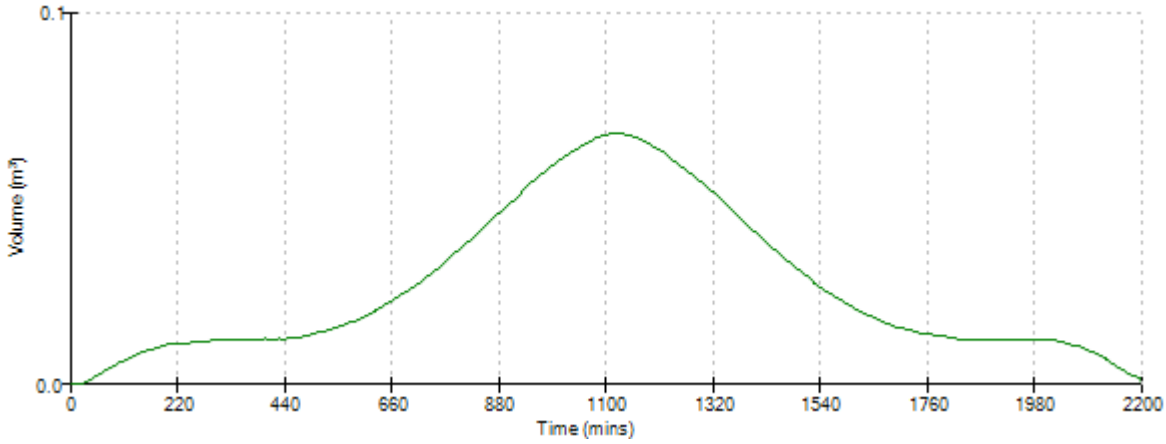


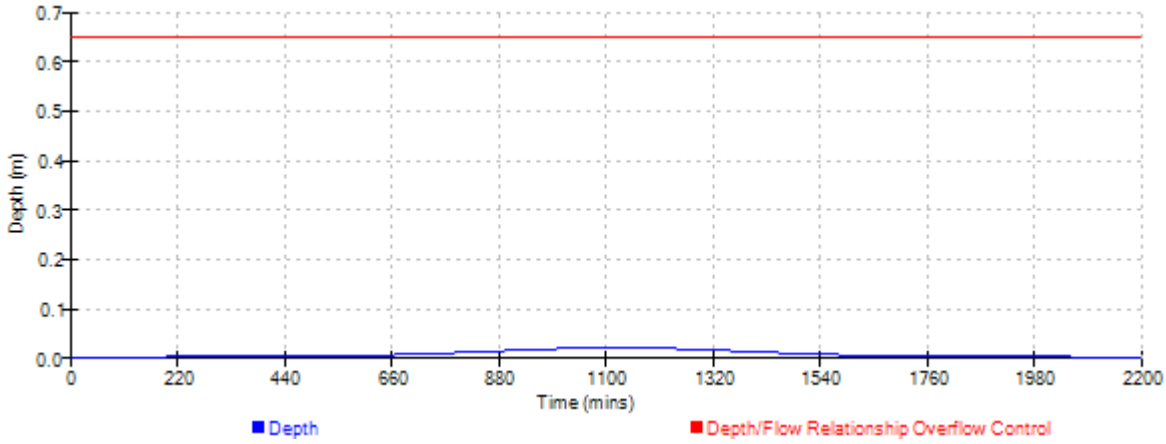


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Event: 2160 min Winter

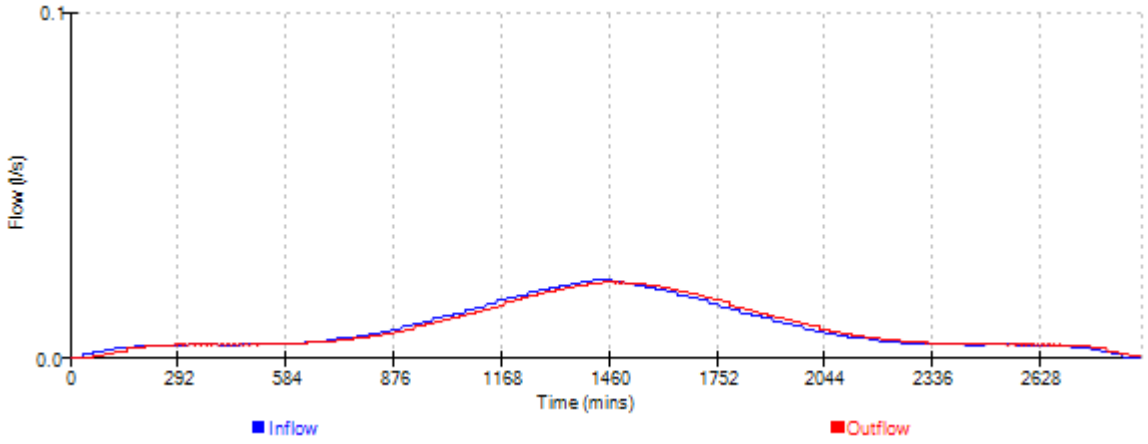


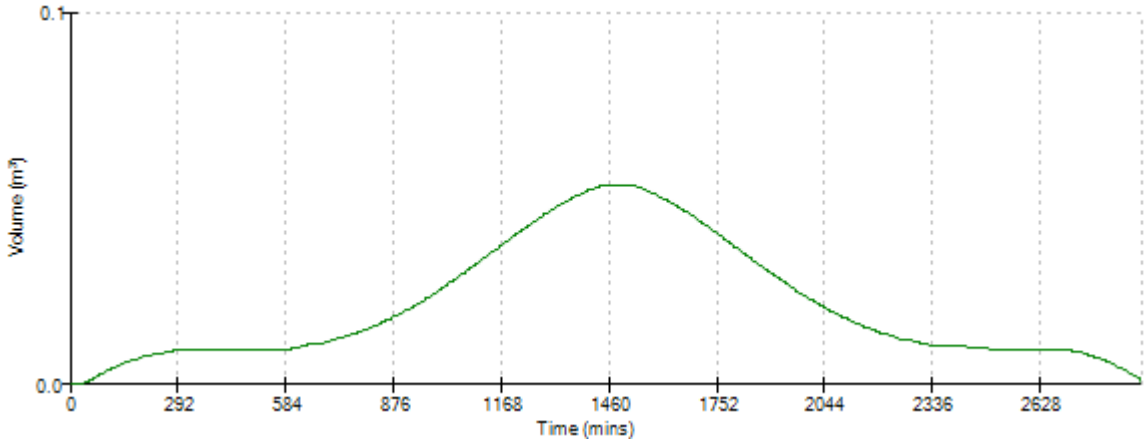


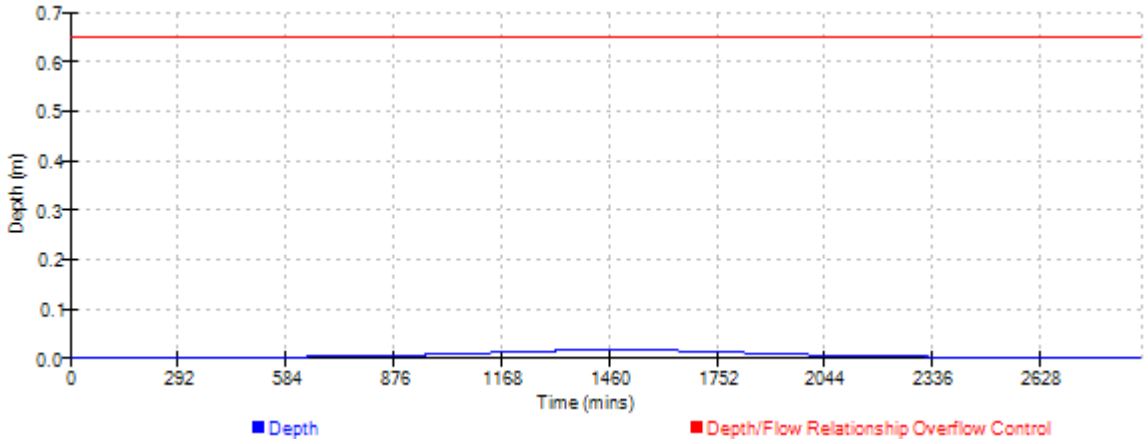


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Event: 2880 min Winter

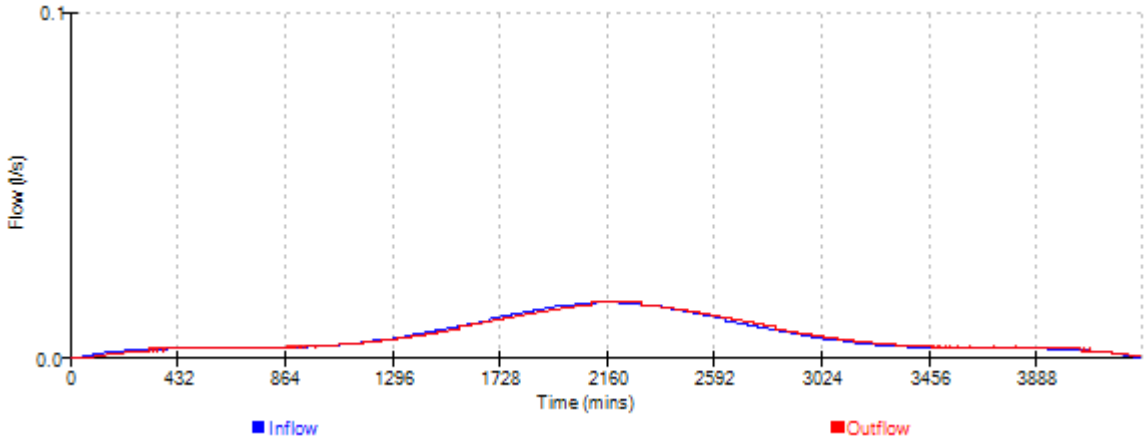


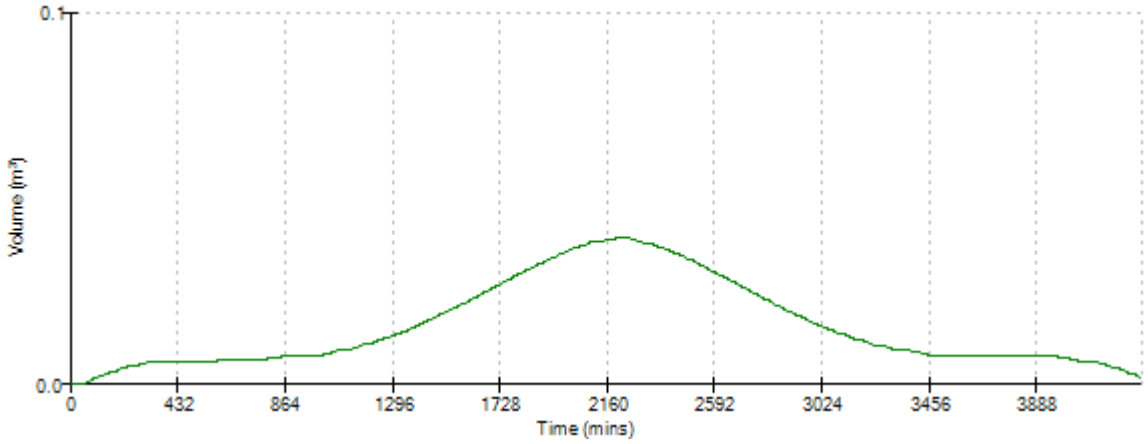


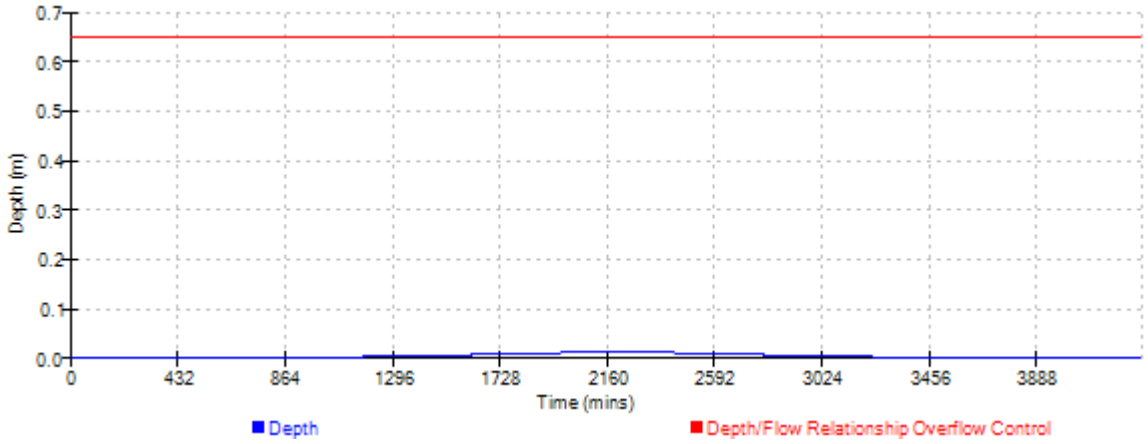


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Event: 4320 min Winter

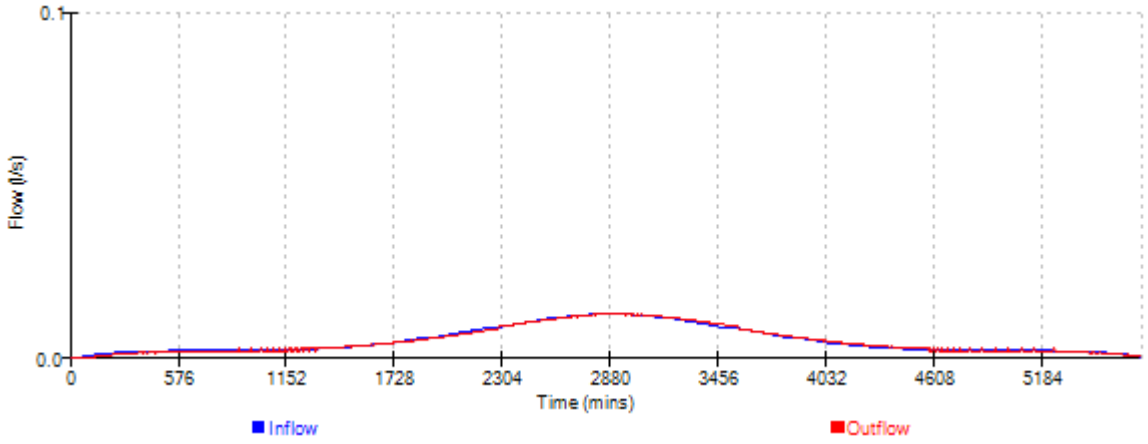


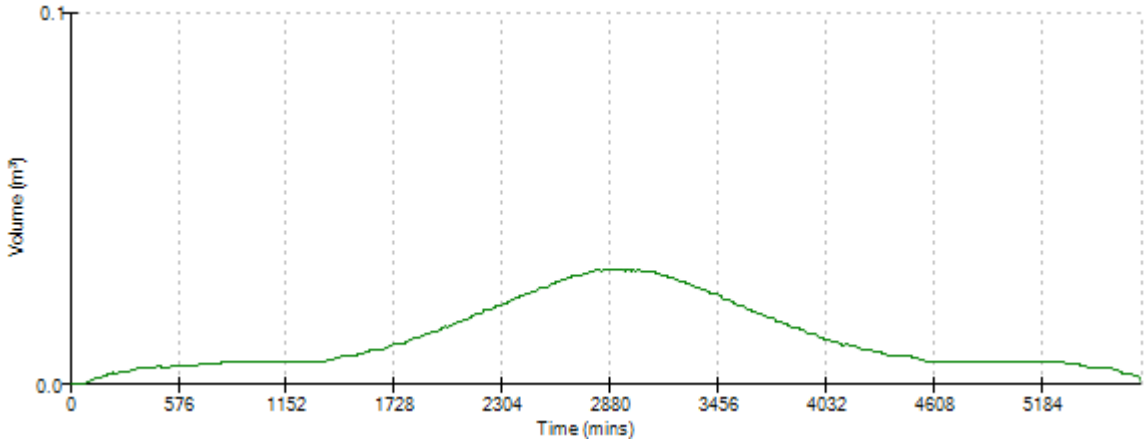


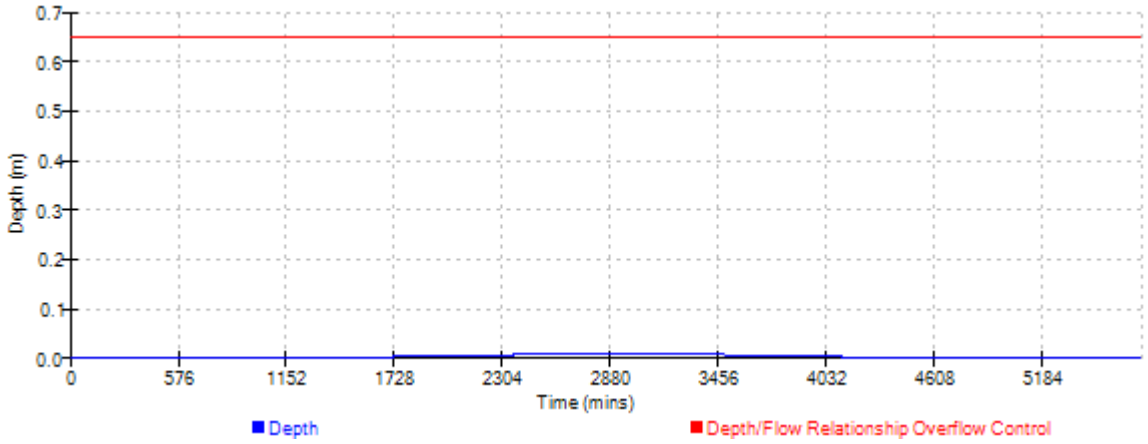


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Event: 5760 min Winter

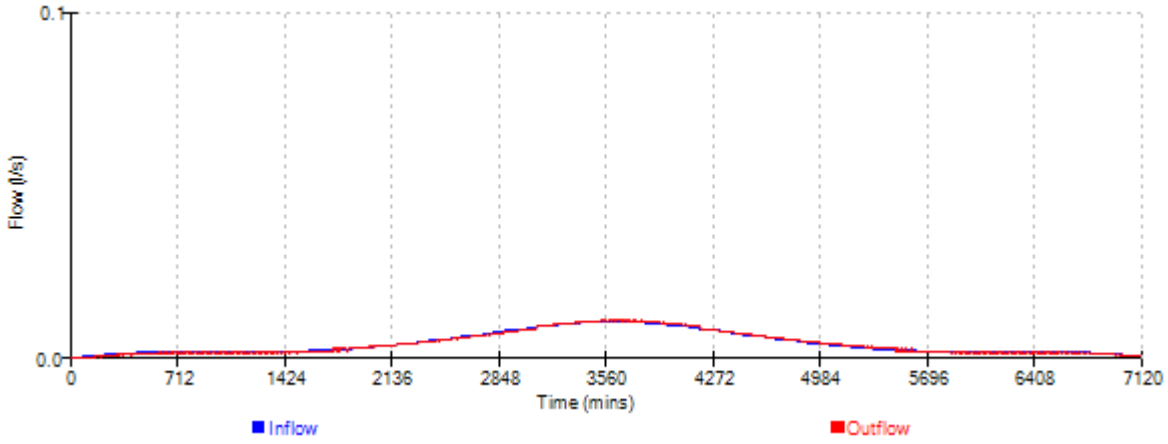


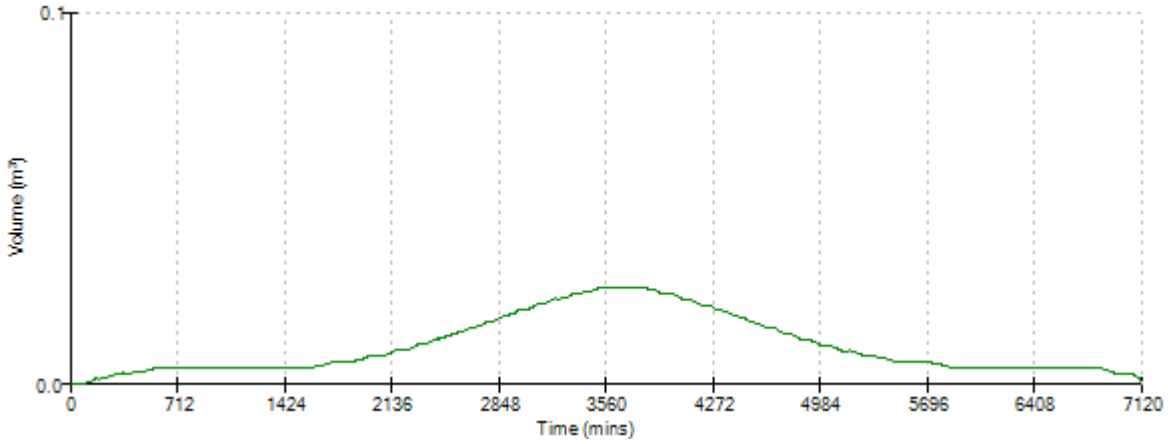


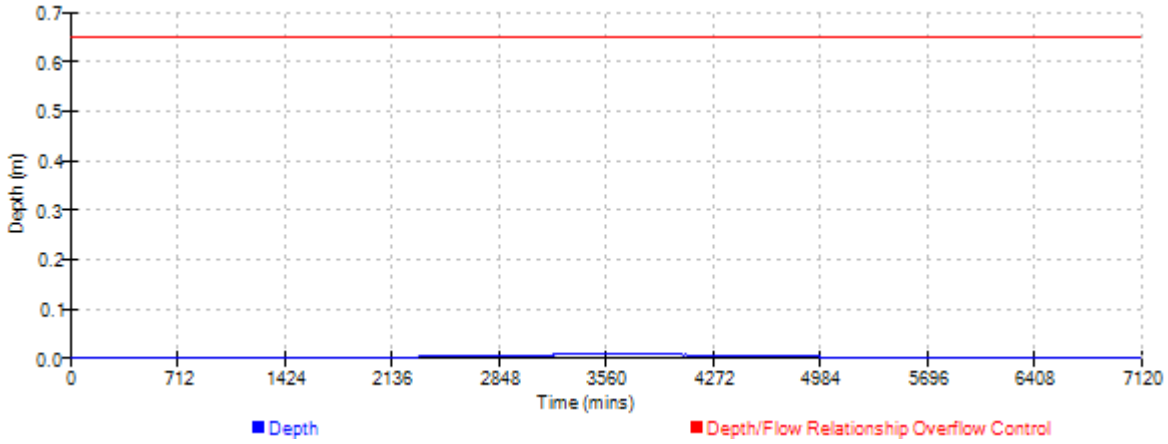


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Event: 7200 min Winter

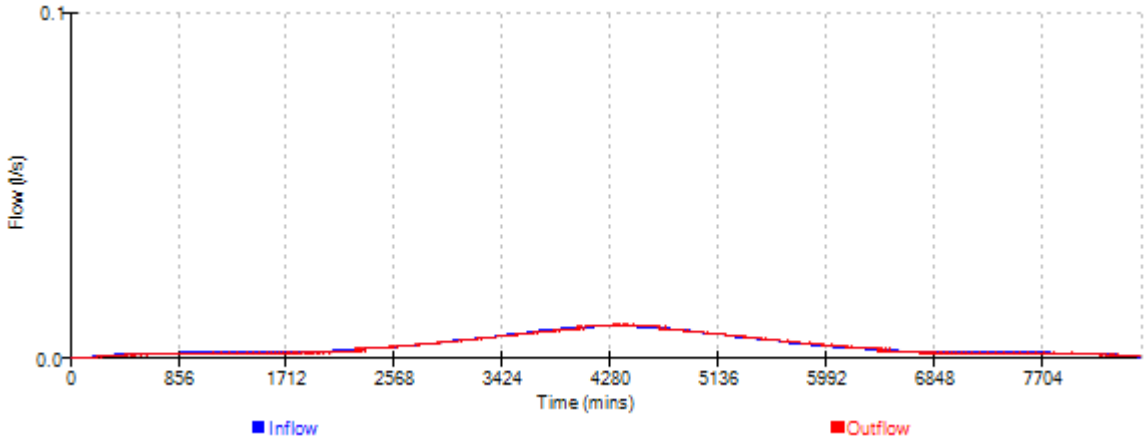


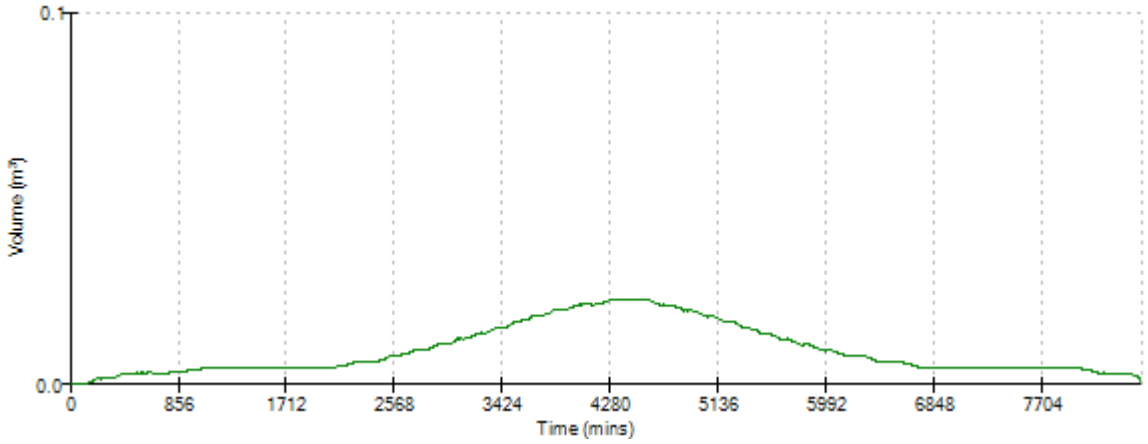


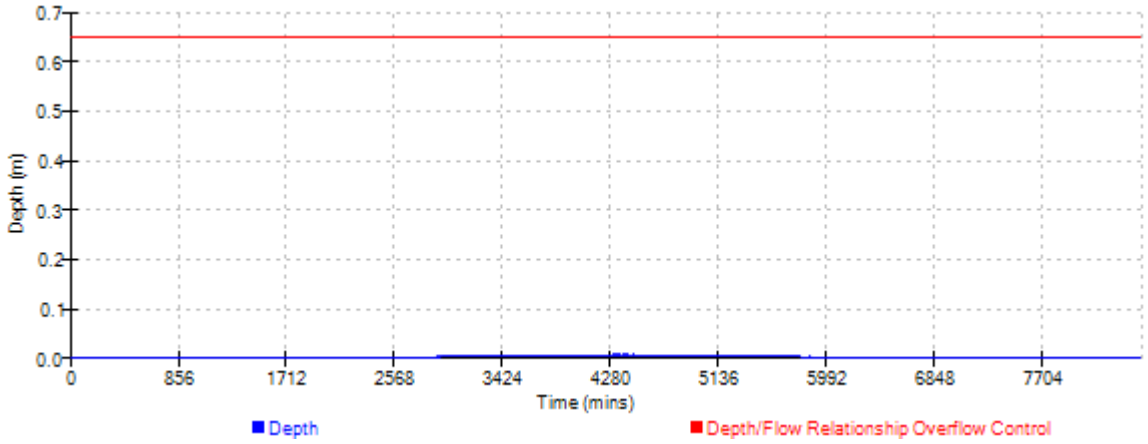


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Event: 8640 min Winter

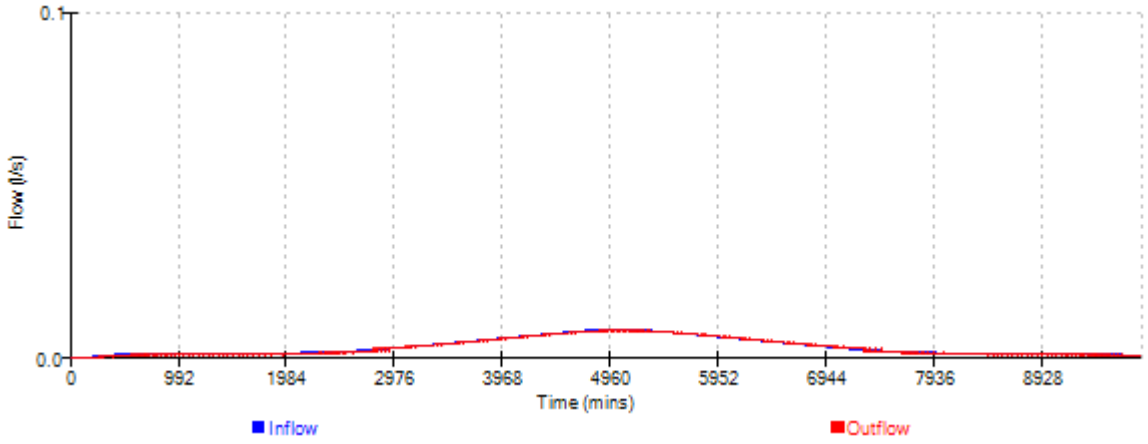


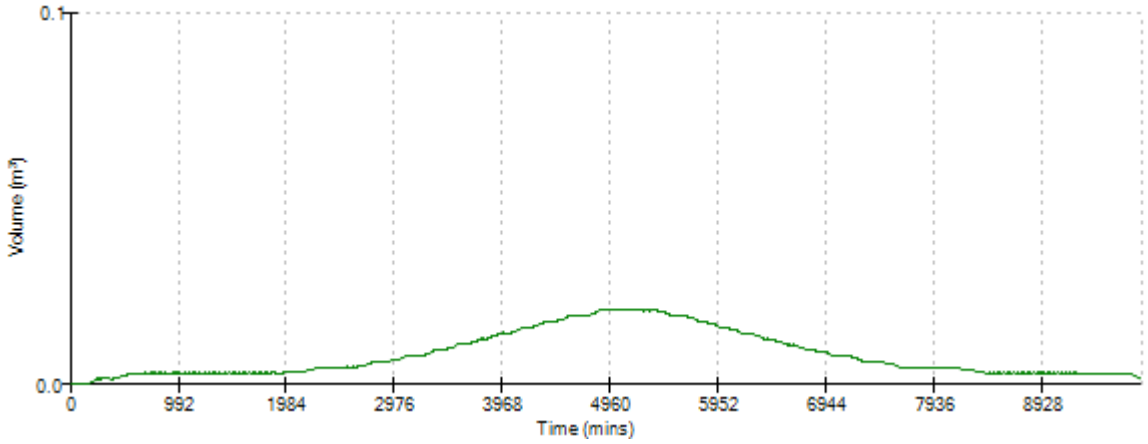


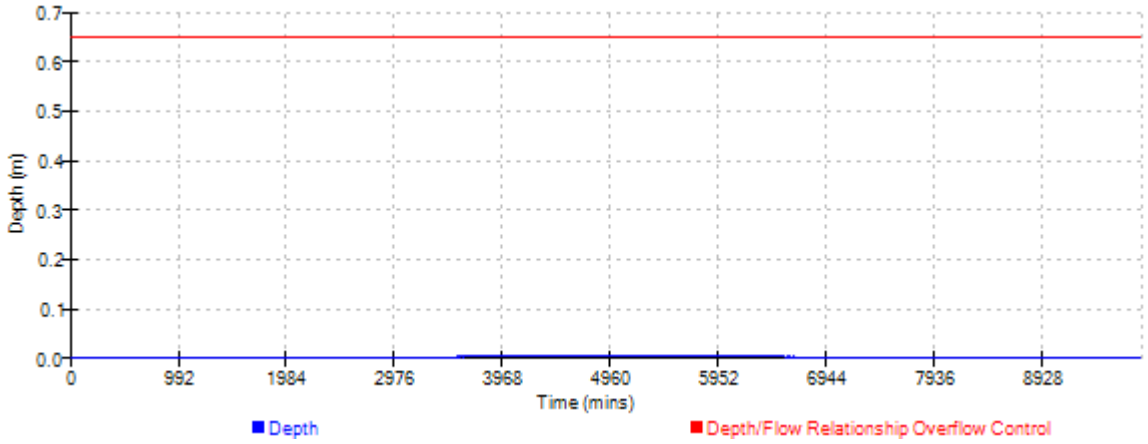


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Event: 10080 min Winter







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Summary of Results for 100 year Return Period (+45%)

Half Drain Time : 301 minutes.

	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15	min Summer	63.422	0.172	0.0	0.2	0.2	5.2	O K
30	min Summer	63.478	0.228	0.0	0.3	0.3	6.9	O K
60	min Summer	63.534	0.284	0.0	0.3	0.3	8.6	O K
120	min Summer	63.580	0.330	0.0	0.3	0.3	10.0	O K
180	min Summer	63.597	0.347	0.0	0.4	0.4	10.5	O K
240	min Summer	63.601	0.351	0.0	0.4	0.4	10.7	O K
360	min Summer	63.605	0.355	0.0	0.4	0.4	10.8	O K
480	min Summer	63.604	0.354	0.0	0.4	0.4	10.8	O K
600	min Summer	63.600	0.350	0.0	0.4	0.4	10.6	O K
720	min Summer	63.595	0.345	0.0	0.4	0.4	10.5	O K
960	min Summer	63.582	0.332	0.0	0.3	0.3	10.1	O K
1440	min Summer	63.554	0.304	0.0	0.3	0.3	9.2	O K
2160	min Summer	63.515	0.265	0.0	0.3	0.3	8.1	O K
2880	min Summer	63.483	0.233	0.0	0.3	0.3	7.1	O K
4320	min Summer	63.435	0.185	0.0	0.3	0.3	5.6	O K
5760	min Summer	63.400	0.150	0.0	0.2	0.2	4.6	O K
7200	min Summer	63.375	0.125	0.0	0.2	0.2	3.8	O K
8640	min Summer	63.357	0.107	0.0	0.2	0.2	3.2	O K
10080	min Summer	63.342	0.092	0.0	0.2	0.2	2.8	O K
15	min Winter	63.422	0.172	0.0	0.2	0.2	5.2	O K
30	min Winter	63.478	0.228	0.0	0.3	0.3	6.9	O K
60	min Winter	63.534	0.284	0.0	0.3	0.3	8.6	O K
120	min Winter	63.582	0.332	0.0	0.3	0.3	10.1	O K

Storm Event		Rain (mm/hr)	Time-Peak (mins)
15	min Summer	136.149	26
30	min Summer	91.587	40
60	min Summer	58.739	68
120	min Summer	36.305	124
180	min Summer	26.955	182
240	min Summer	21.679	224
360	min Summer	15.967	284
480	min Summer	12.831	348
600	min Summer	10.820	416
720	min Summer	9.407	486
960	min Summer	7.537	622
1440	min Summer	5.504	894
2160	min Summer	4.010	1288
2880	min Summer	3.199	1676
4320	min Summer	2.322	2420
5760	min Summer	1.848	3128
7200	min Summer	1.549	3888
8640	min Summer	1.341	4584
10080	min Summer	1.188	5256
15	min Winter	136.149	25
30	min Winter	91.587	39
60	min Winter	58.739	66
120	min Winter	36.305	122

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Summary of Results for 100 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Σ Max Outflow (l/s)	Max Volume (m³)	Status
180 min Winter	63.599	0.349	0.0	0.4	0.4	10.6	O K
240 min Winter	63.603	0.353	0.0	0.4	0.4	10.7	O K
360 min Winter	63.604	0.354	0.0	0.4	0.4	10.8	O K
480 min Winter	63.601	0.351	0.0	0.4	0.4	10.7	O K
600 min Winter	63.594	0.344	0.0	0.3	0.3	10.5	O K
720 min Winter	63.586	0.336	0.0	0.3	0.3	10.2	O K
960 min Winter	63.567	0.317	0.0	0.3	0.3	9.6	O K
1440 min Winter	63.528	0.278	0.0	0.3	0.3	8.4	O K
2160 min Winter	63.478	0.228	0.0	0.3	0.3	6.9	O K
2880 min Winter	63.439	0.189	0.0	0.3	0.3	5.7	O K
4320 min Winter	63.385	0.135	0.0	0.2	0.2	4.1	O K
5760 min Winter	63.352	0.102	0.0	0.2	0.2	3.1	O K
7200 min Winter	63.330	0.080	0.0	0.2	0.2	2.4	O K
8640 min Winter	63.315	0.065	0.0	0.1	0.1	2.0	O K
10080 min Winter	63.304	0.054	0.0	0.1	0.1	1.6	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
180 min Winter	26.955	178
240 min Winter	21.679	232
360 min Winter	15.967	290
480 min Winter	12.831	366
600 min Winter	10.820	444
720 min Winter	9.407	520
960 min Winter	7.537	668
1440 min Winter	5.504	952
2160 min Winter	4.010	1352
2880 min Winter	3.199	1736
4320 min Winter	2.322	2472
5760 min Winter	1.848	3184
7200 min Winter	1.549	3896
8640 min Winter	1.341	4592
10080 min Winter	1.188	5344

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.347	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+45

Time / Area Diagram

Total Area (ha) 0.016

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.005	4-8	0.005	8-12	0.005

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Model Details

Storage is Online Cover Level (m) 64.100

Cellular Storage Structure

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

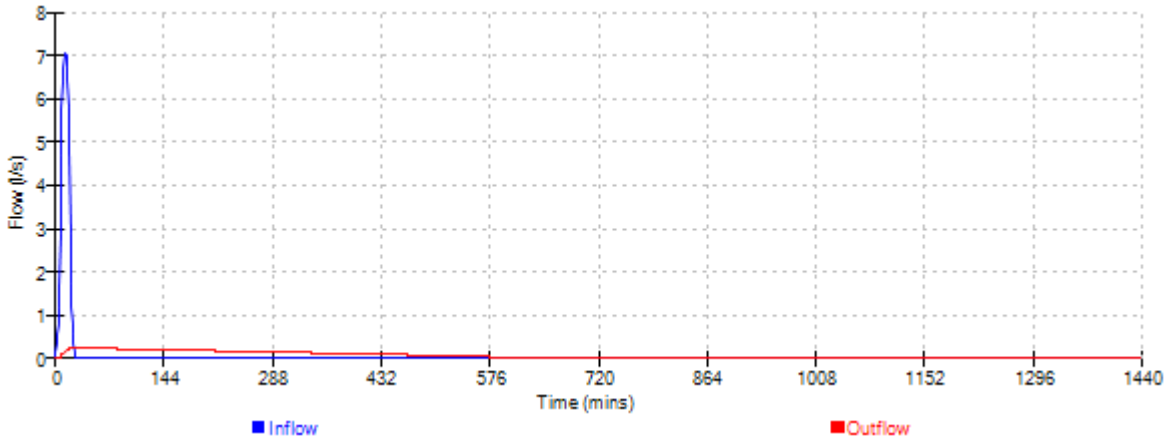
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

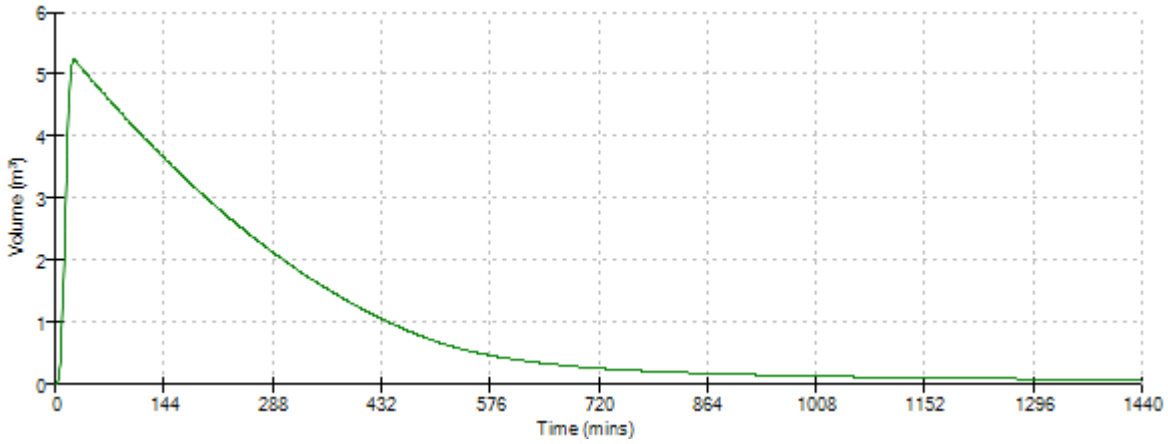
Orifice Outflow Control

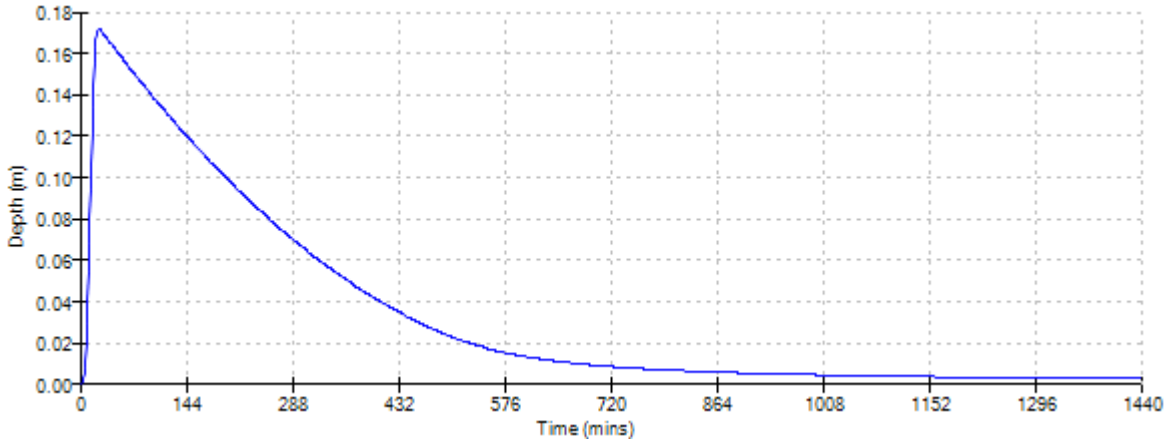
Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

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Event: 15 min Summer

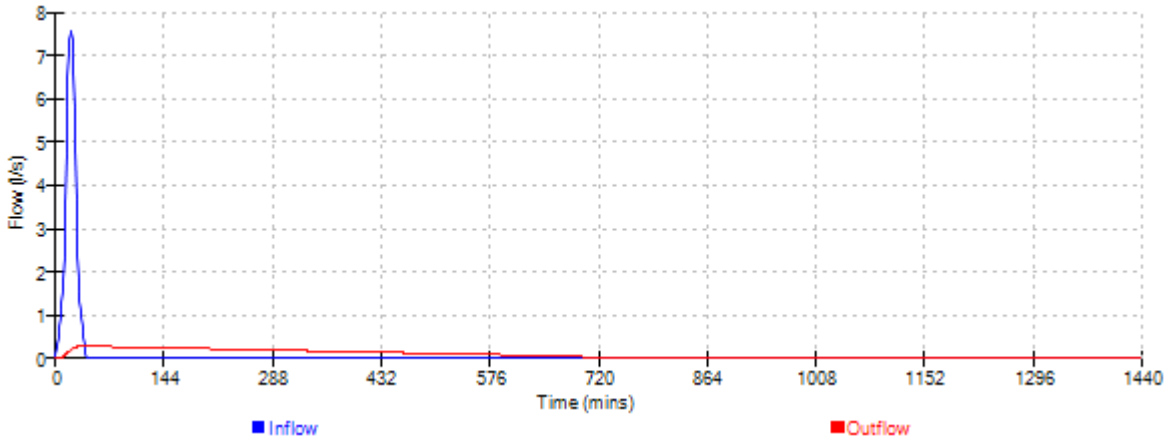


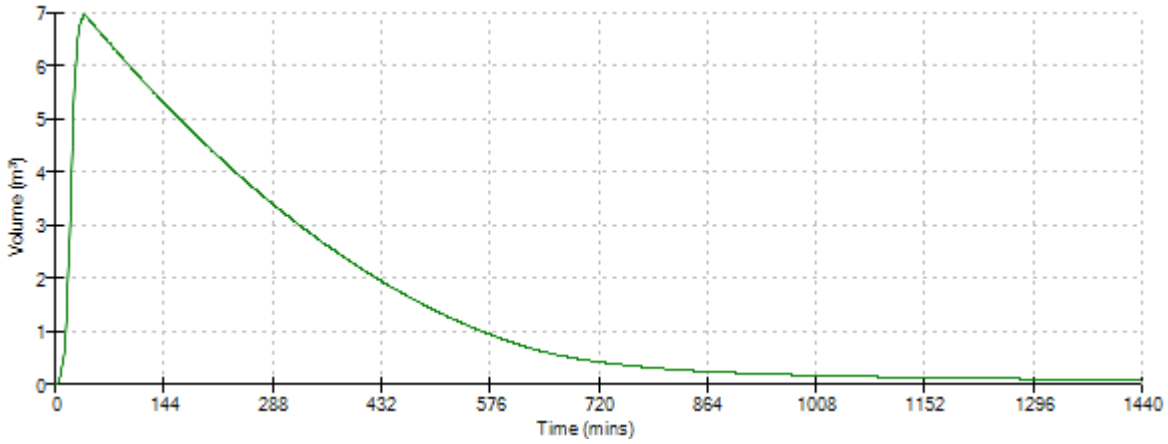


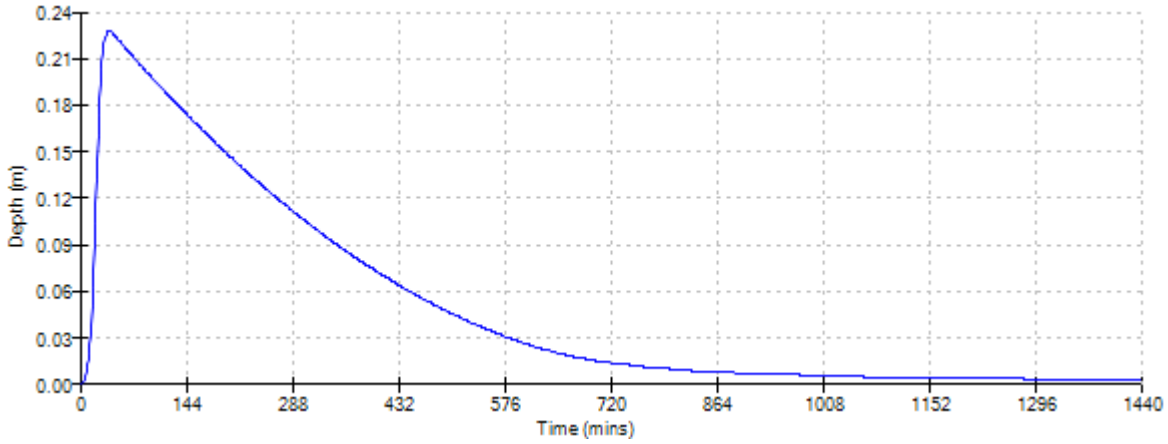


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Event: 30 min Summer

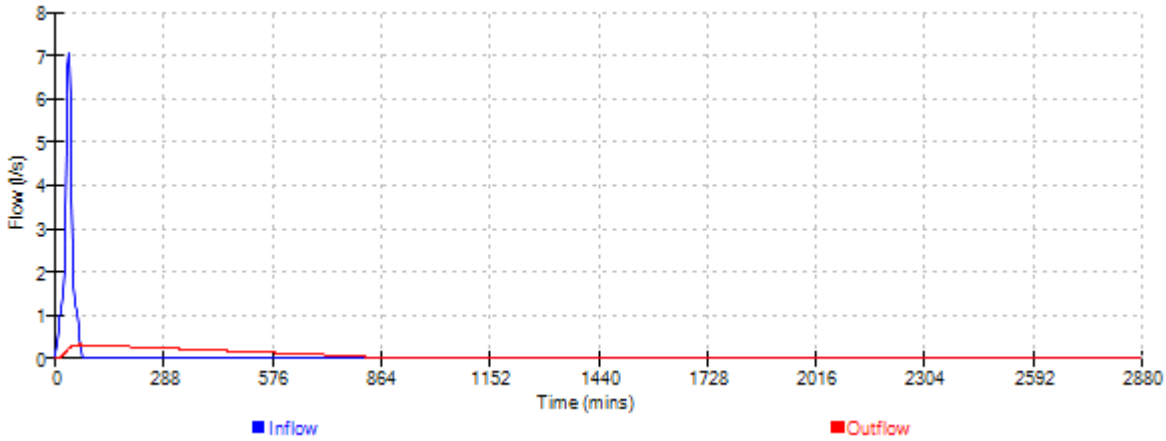


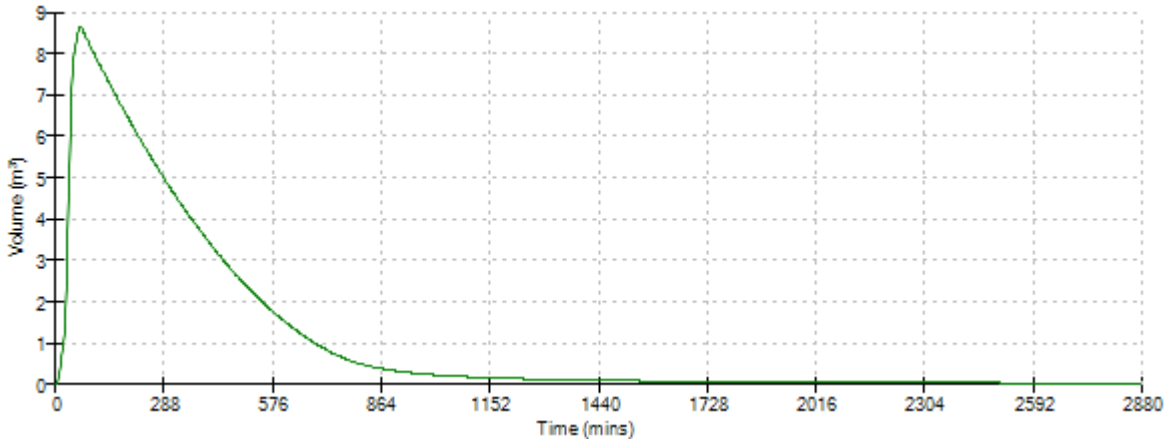


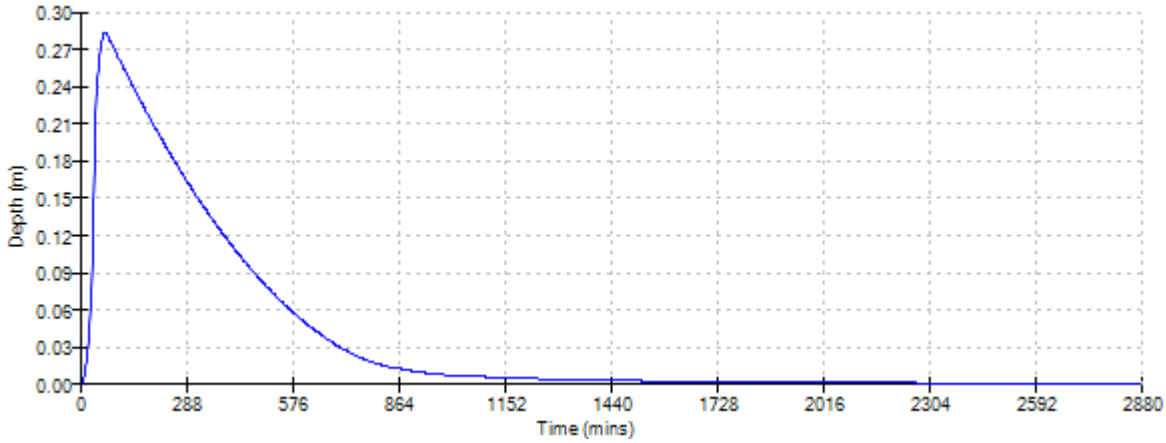


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Event: 60 min Summer

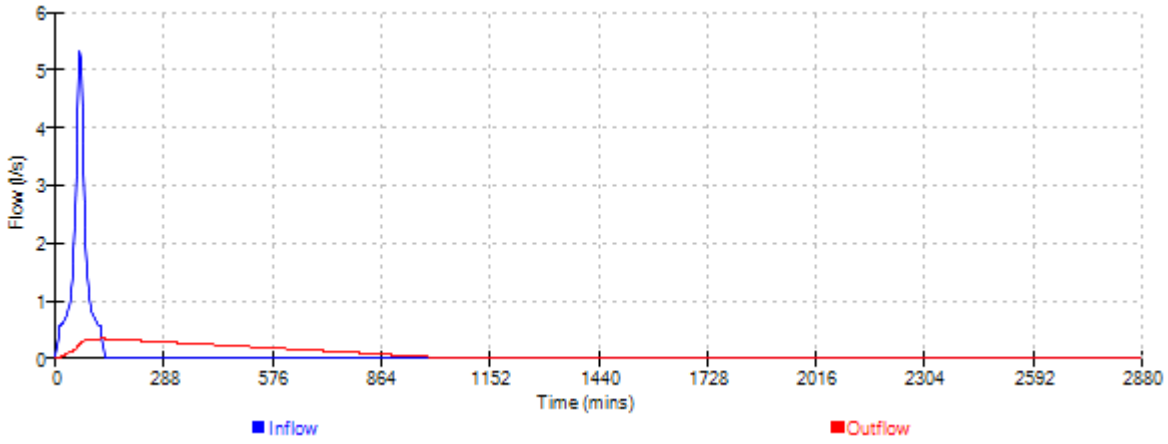


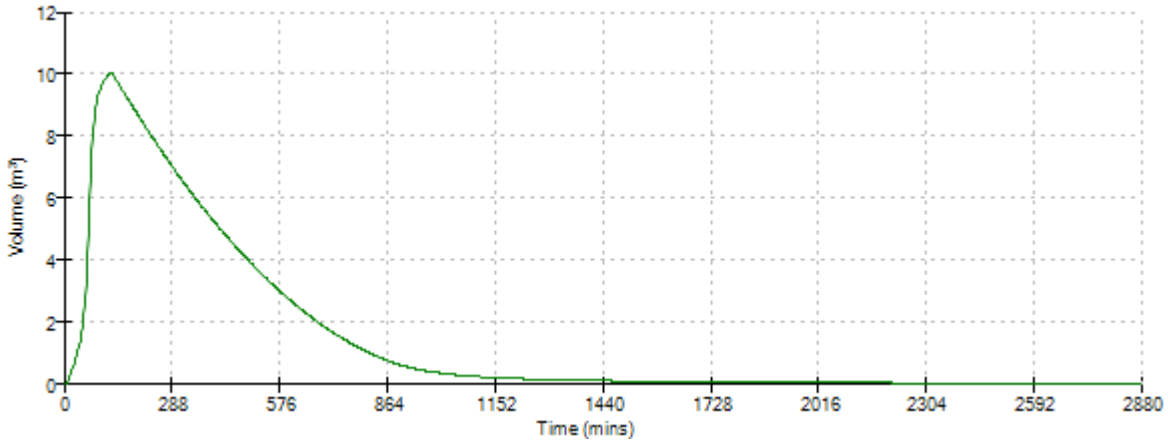


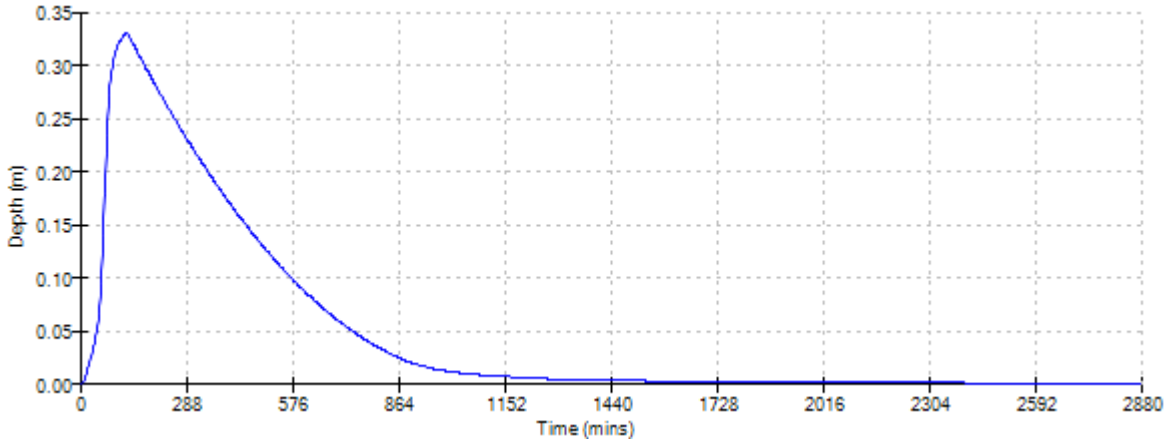


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Event: 120 min Summer

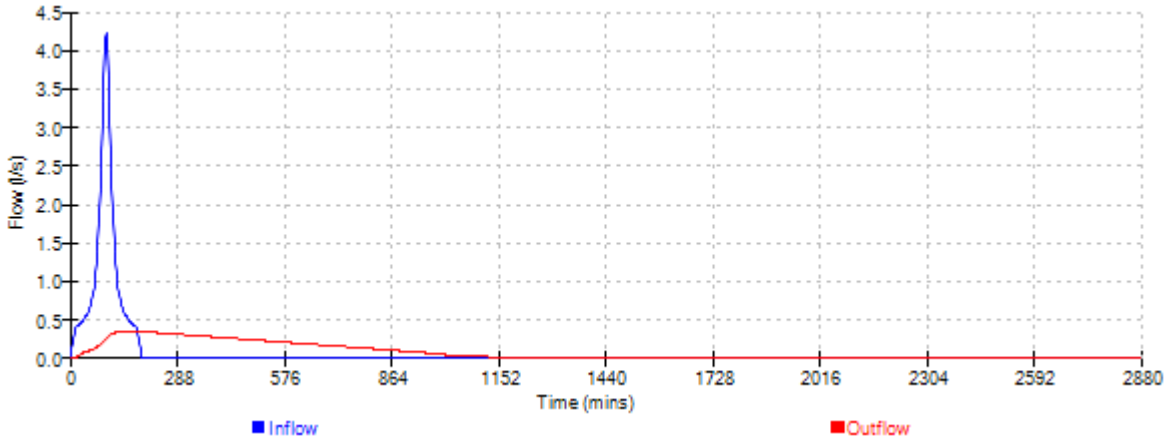


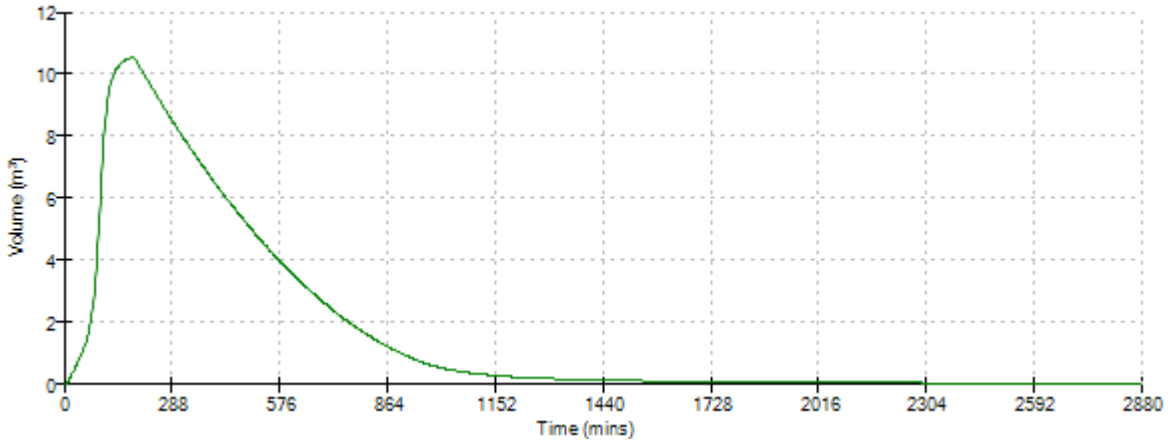


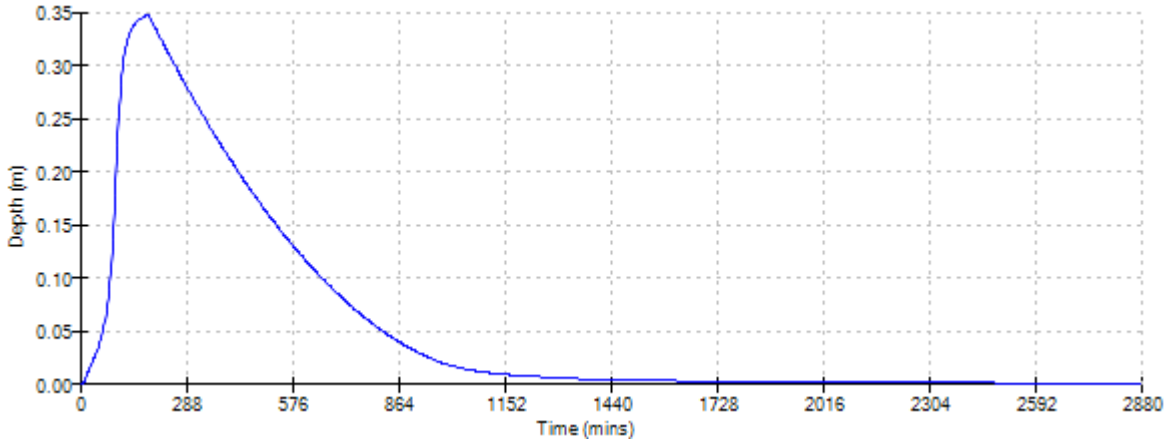


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Event: 180 min Summer

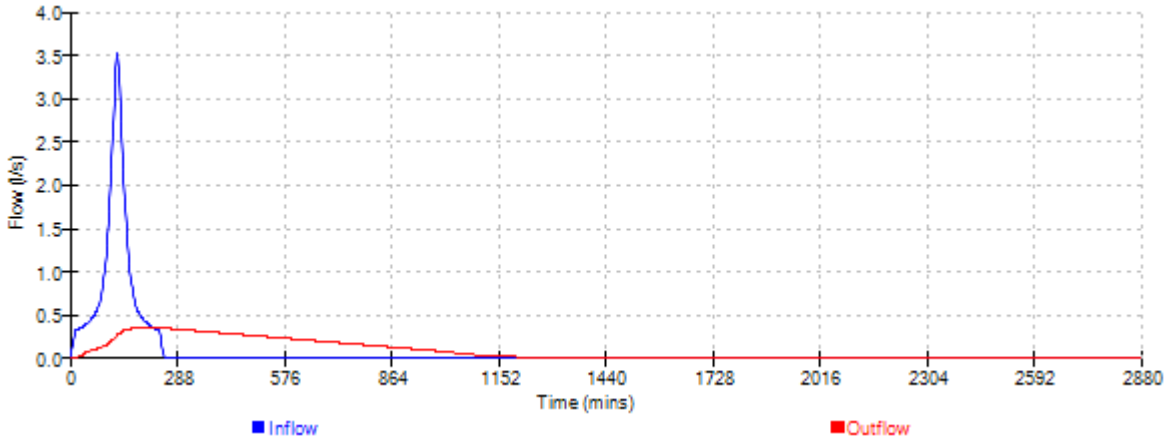


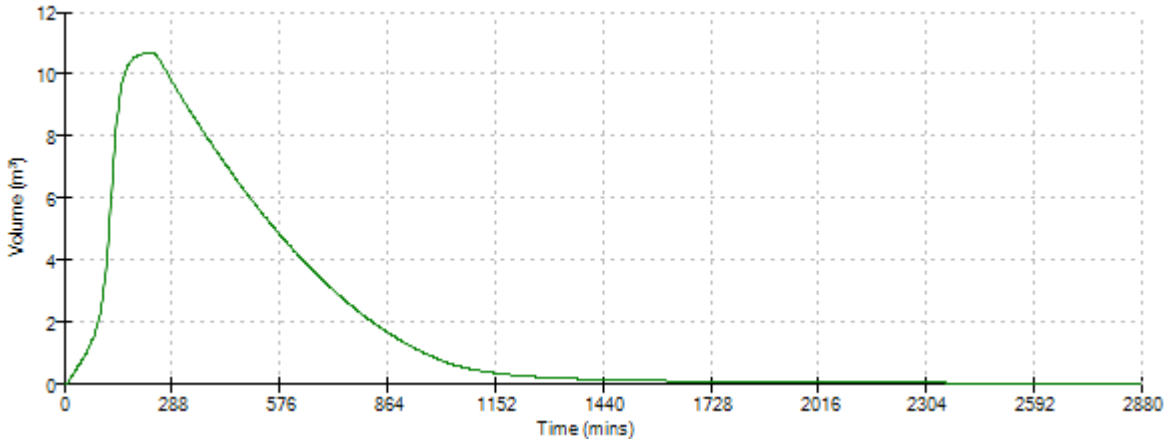


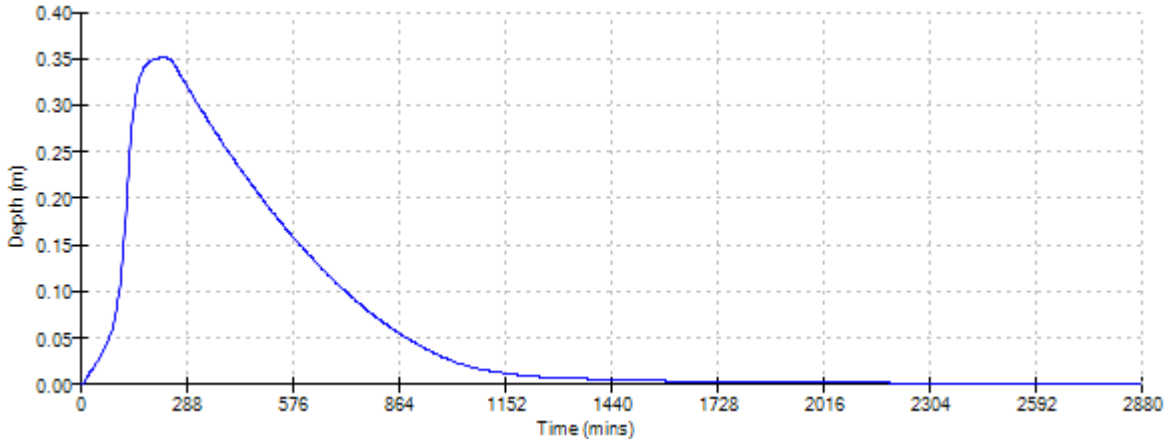


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Event: 240 min Summer

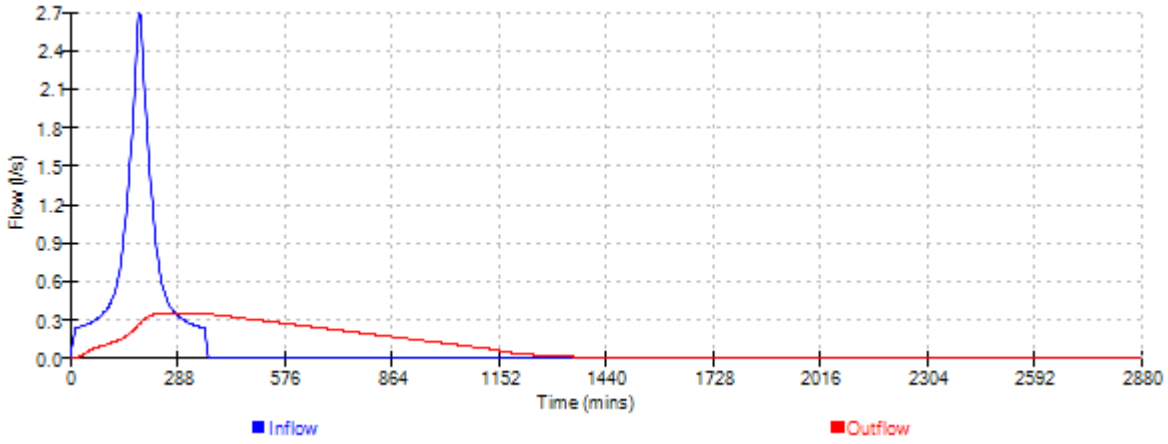


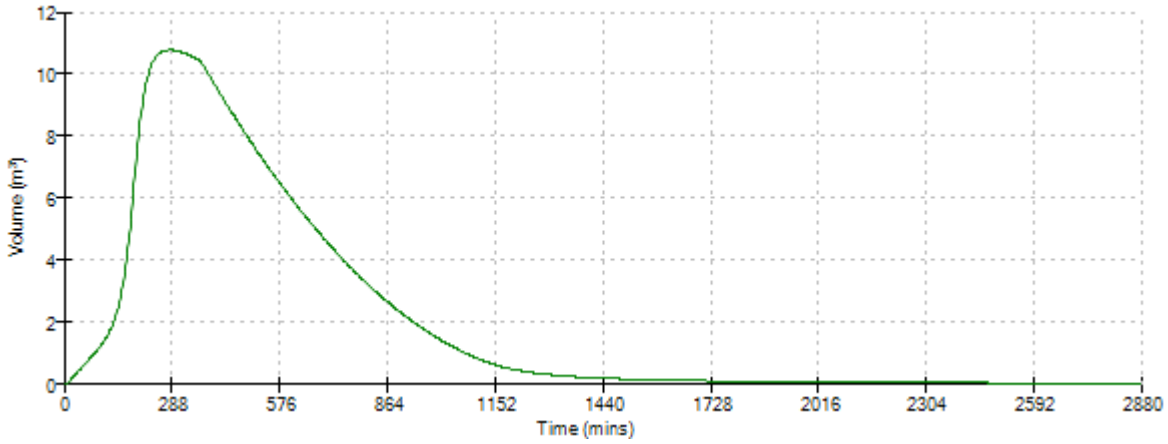


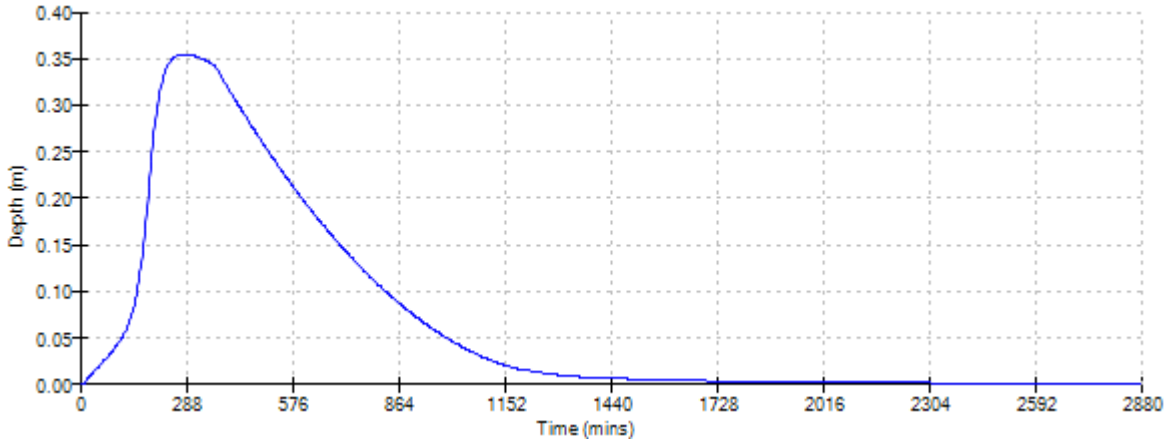


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Event: 360 min Summer

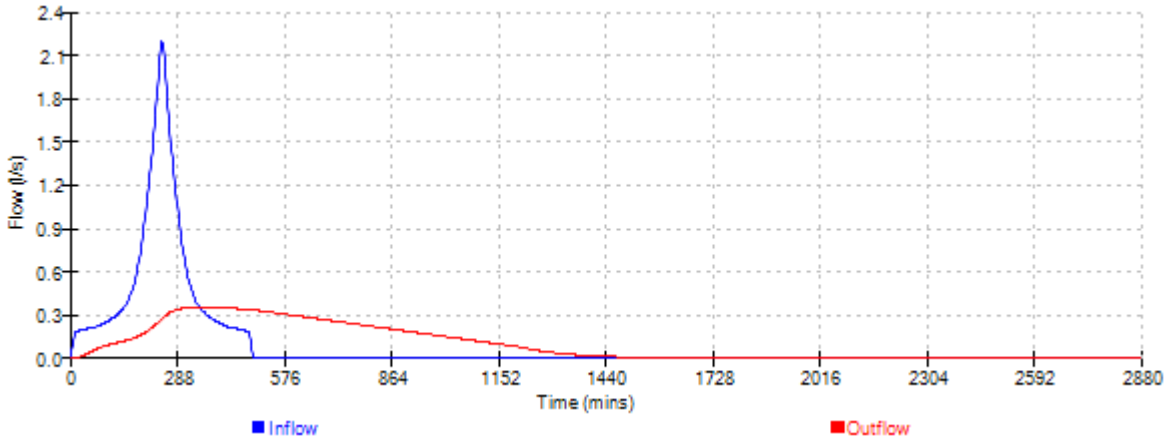


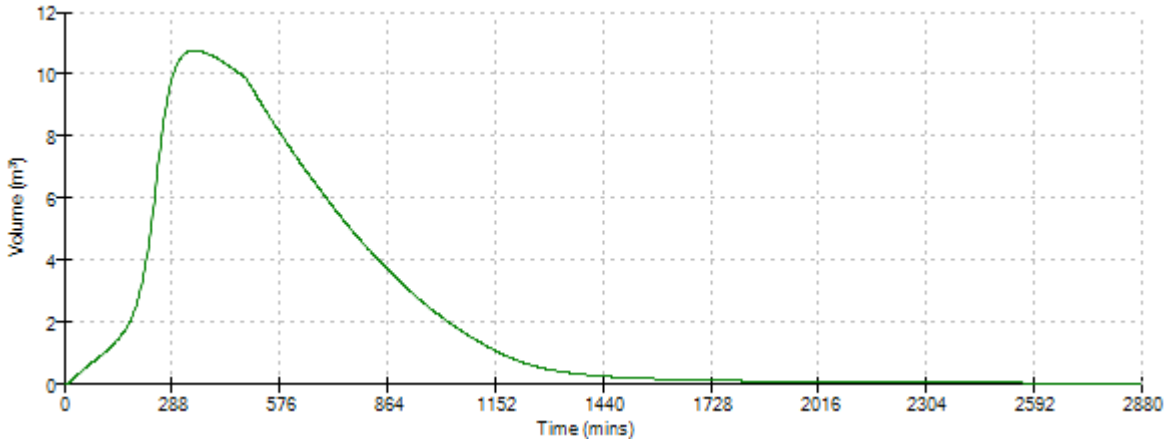


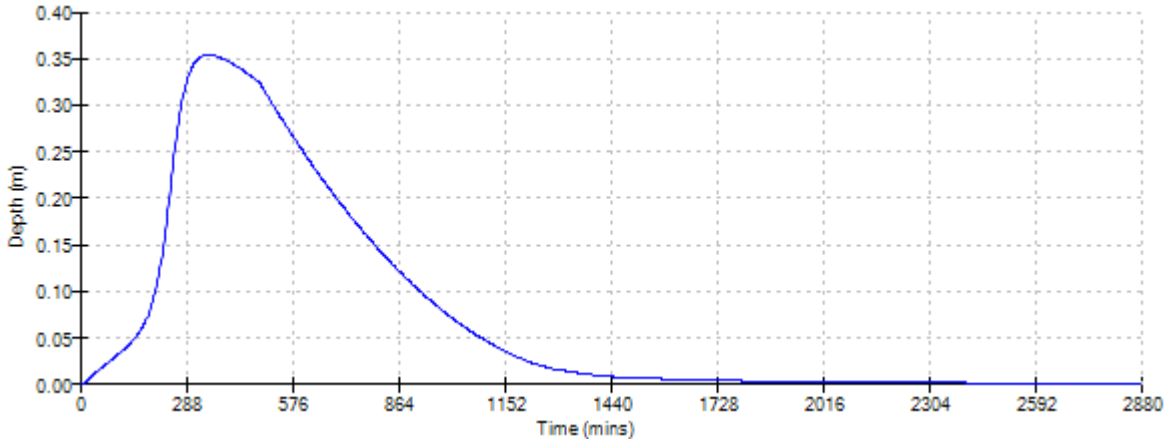


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Event: 480 min Summer

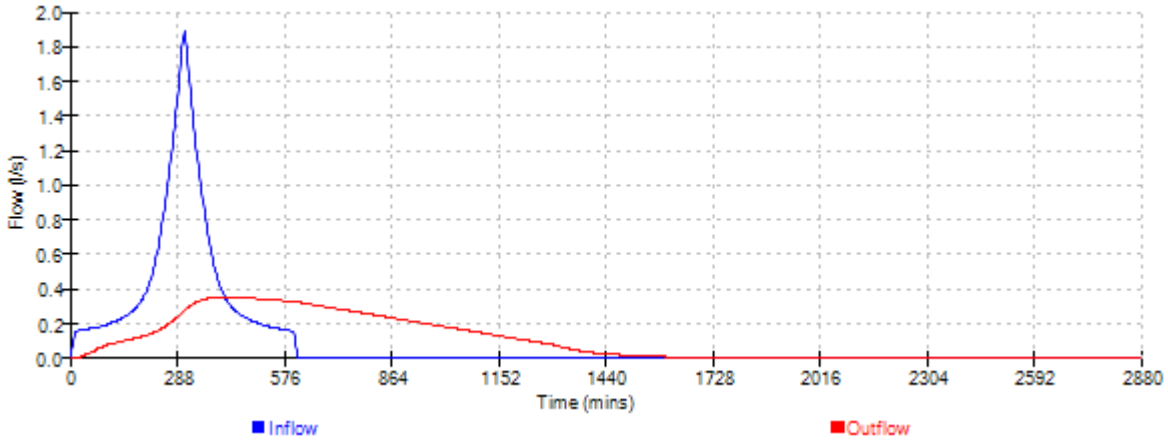


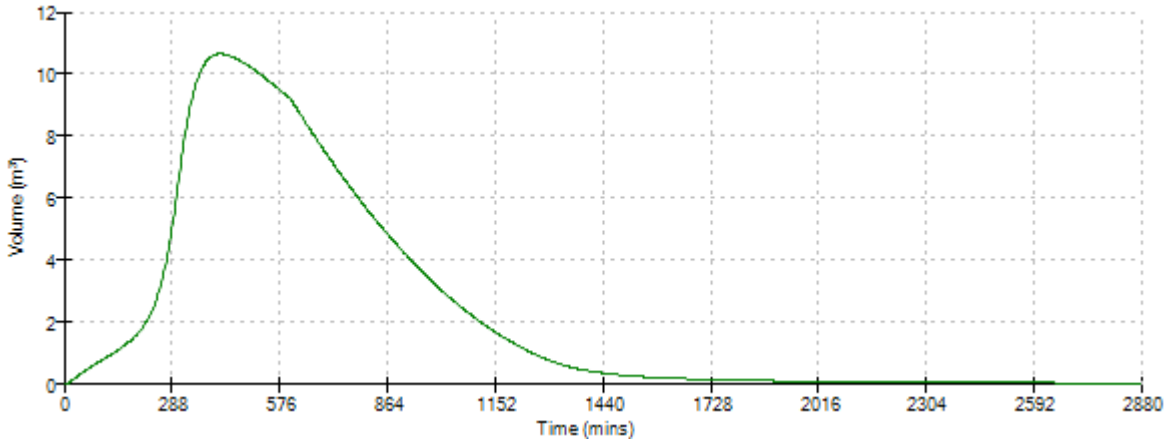


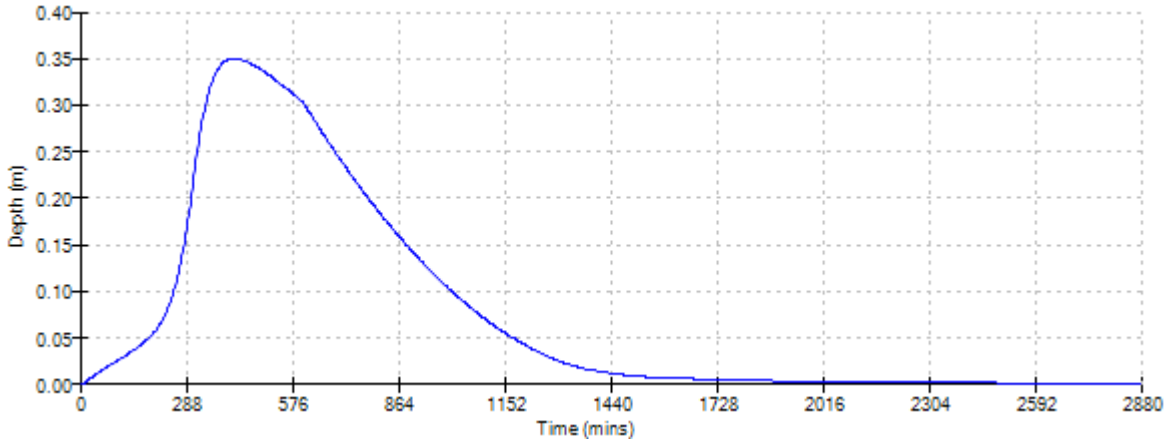


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Event: 600 min Summer

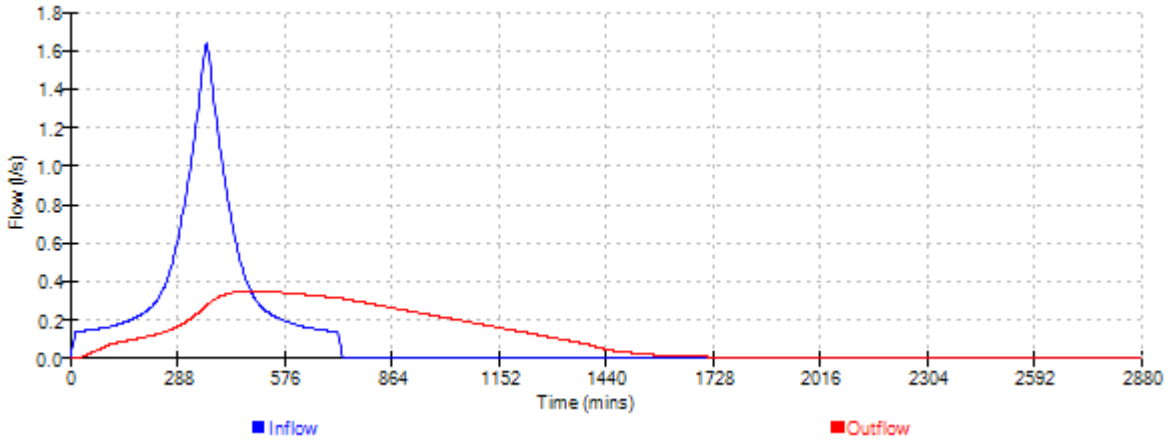


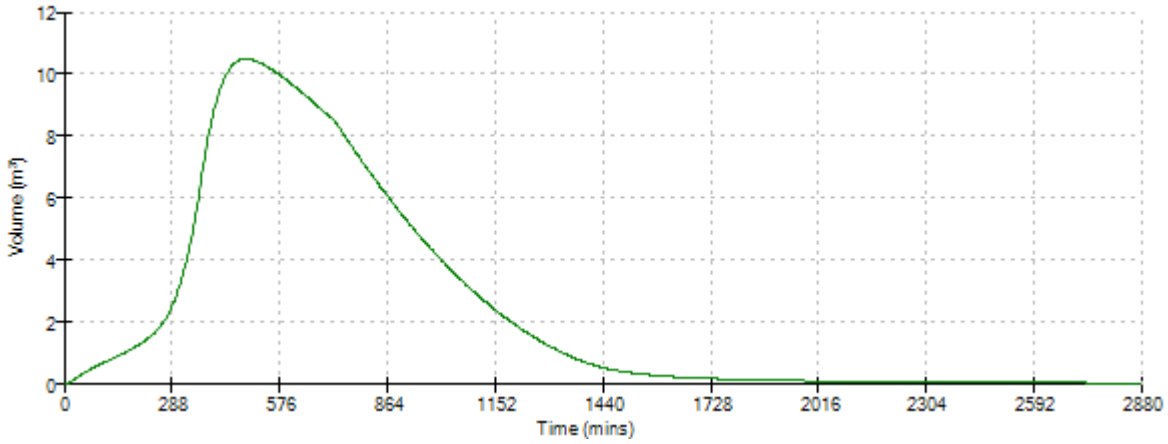


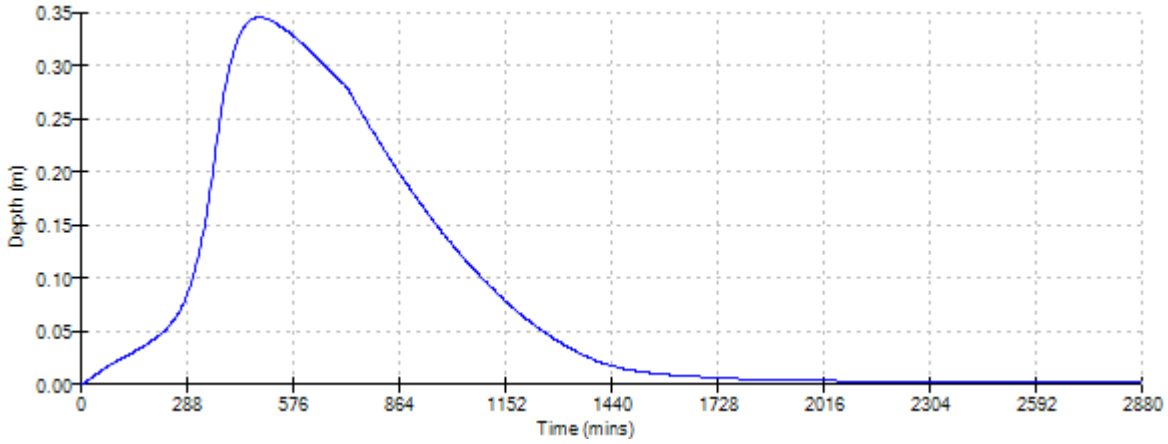


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Event: 720 min Summer

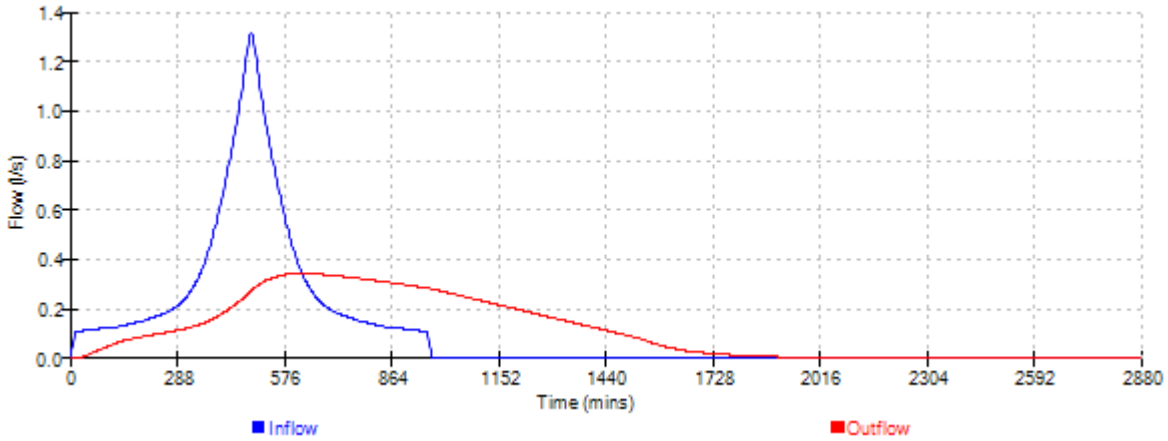


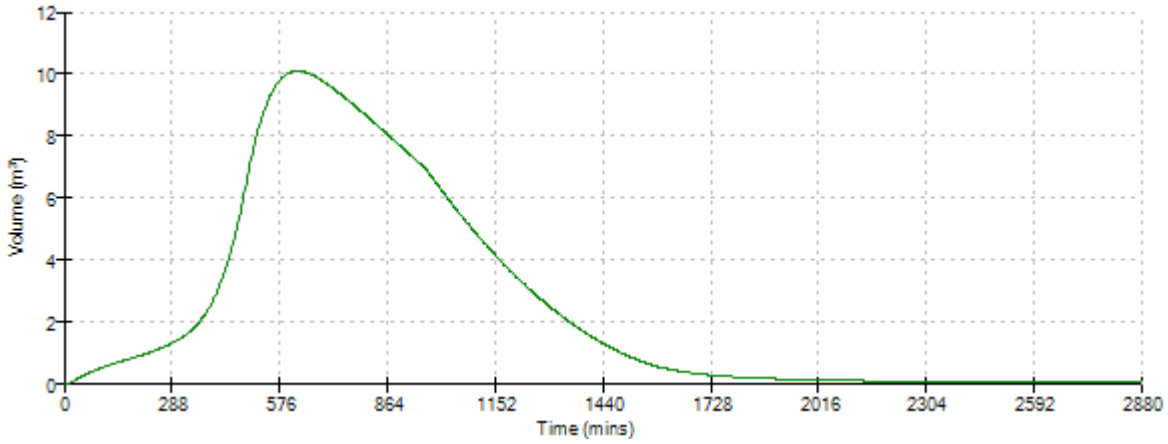


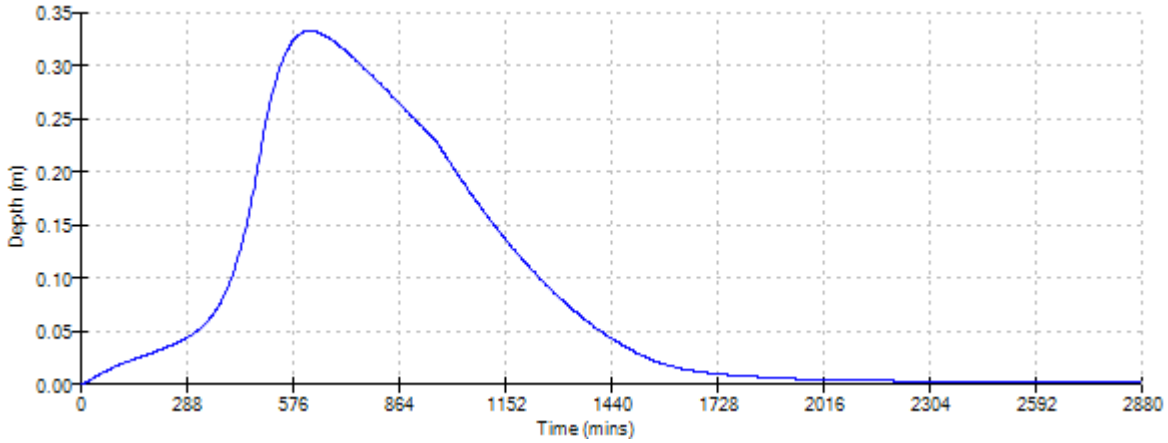


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Event: 960 min Summer

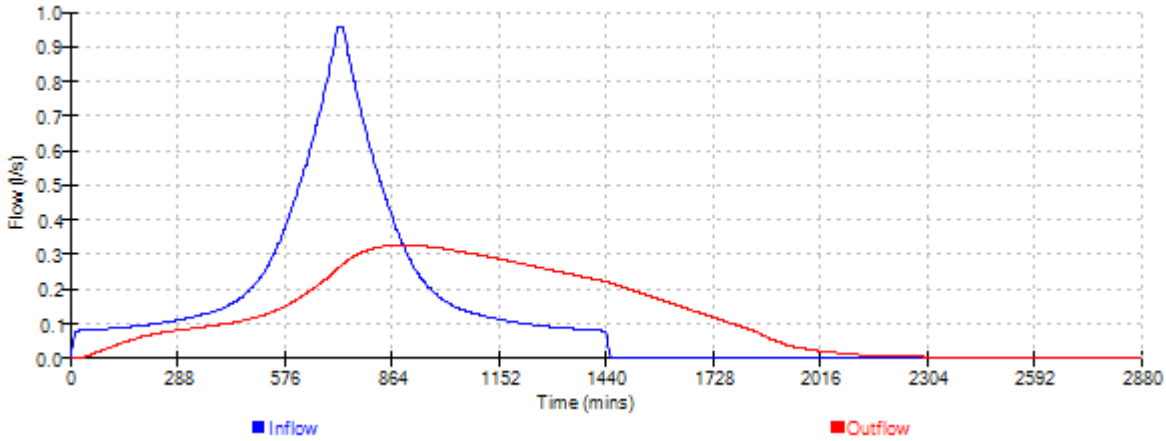


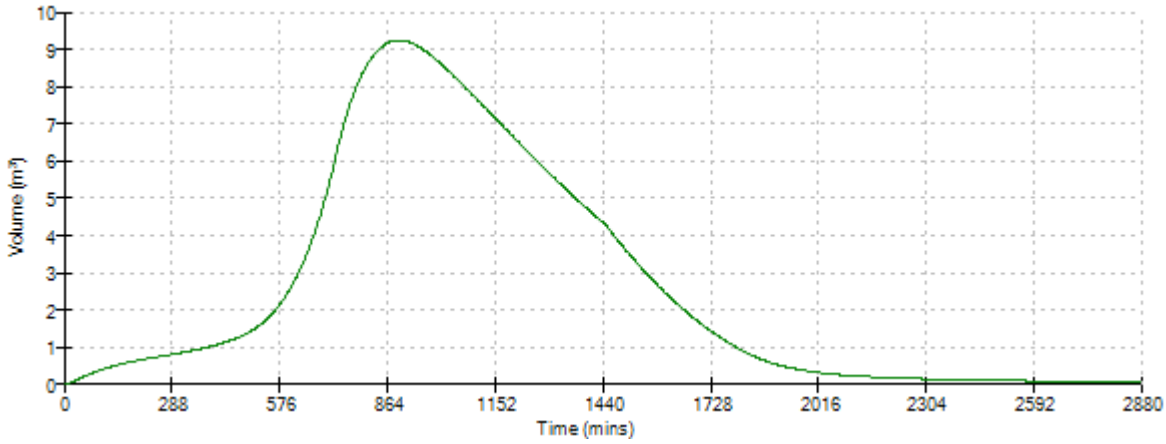


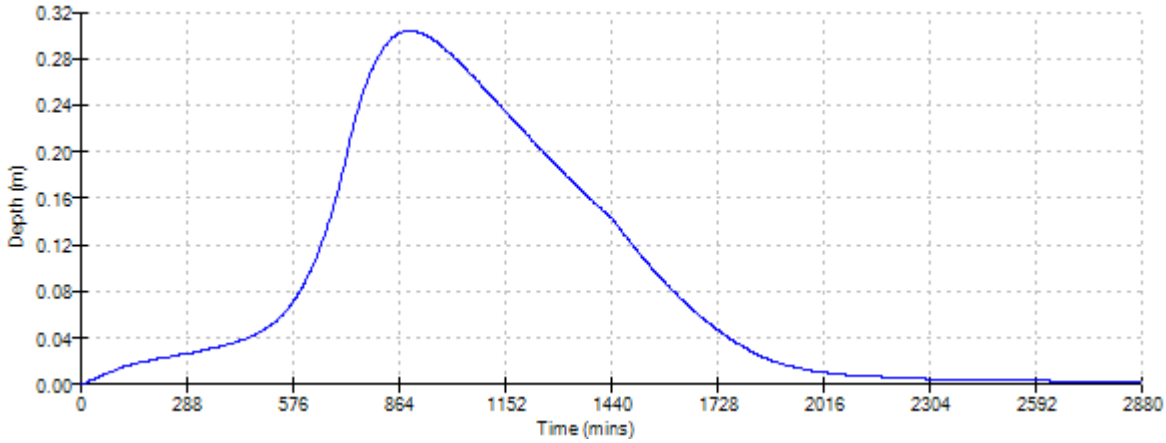


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Event: 1440 min Summer

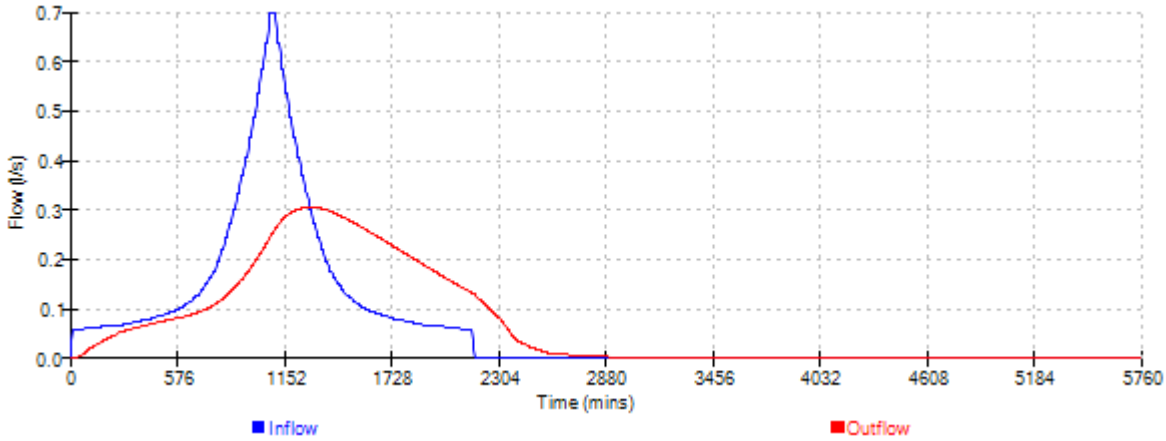


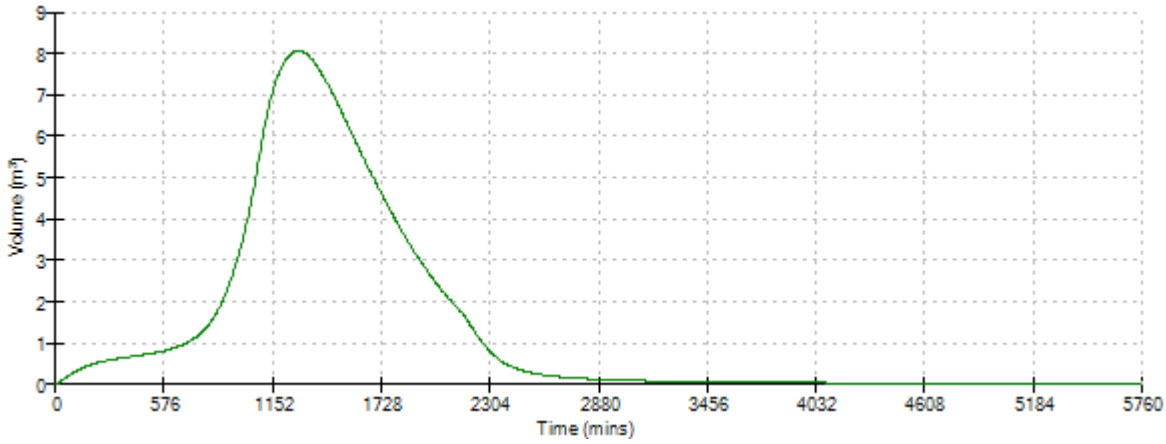


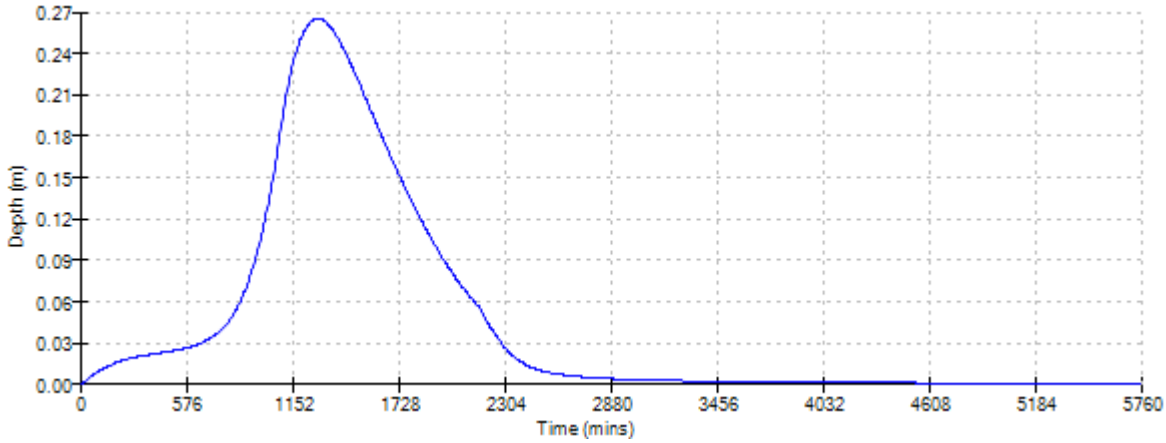


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Event: 2160 min Summer

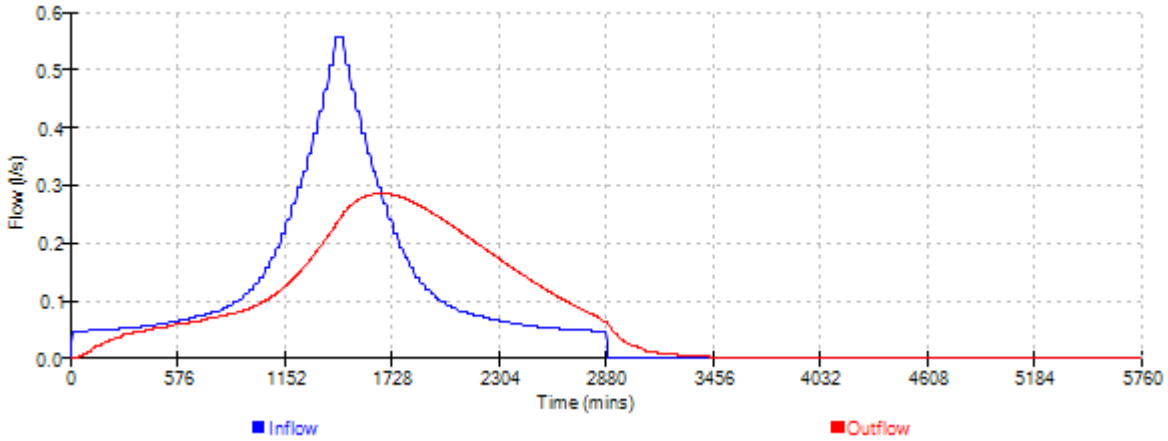


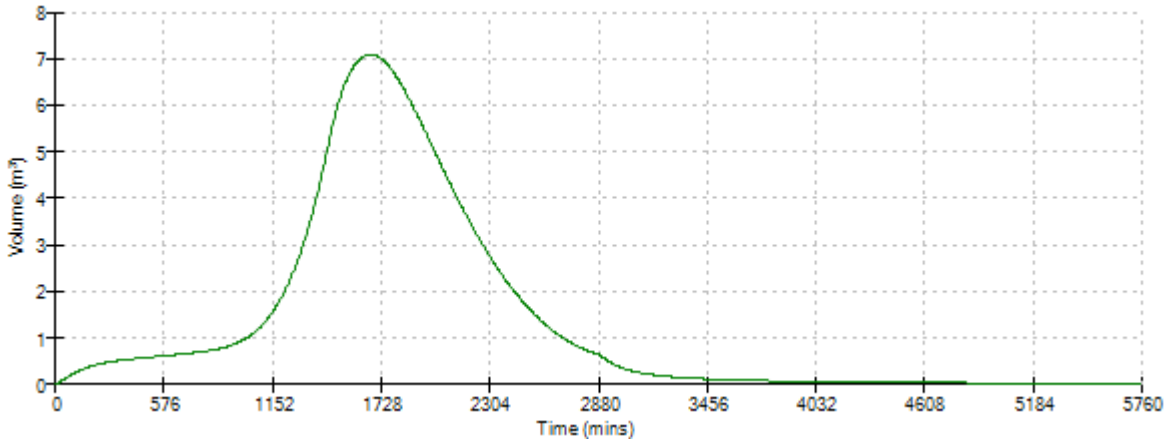


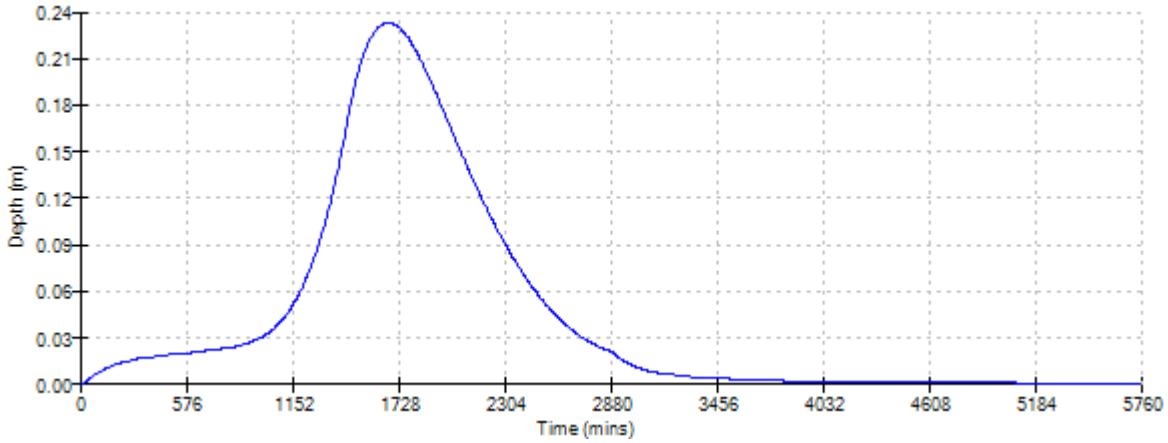


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Event: 2880 min Summer

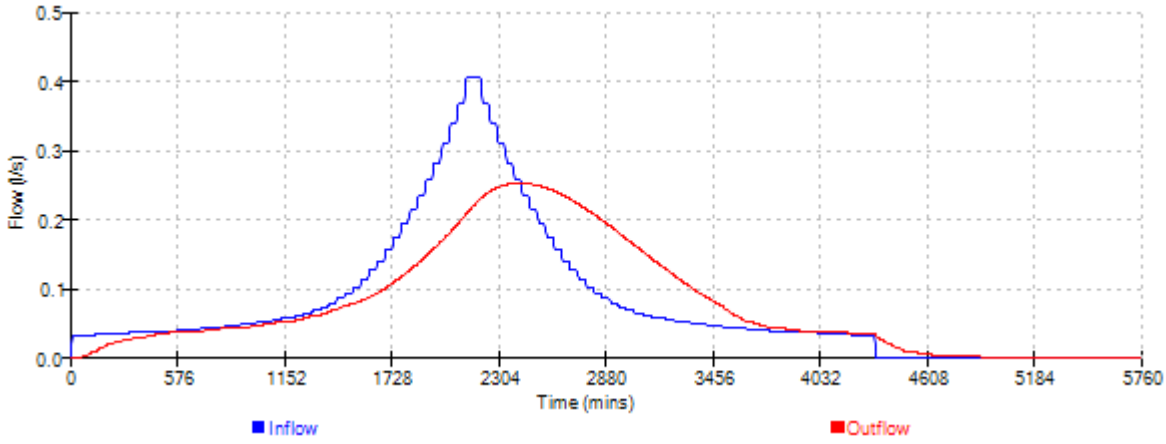


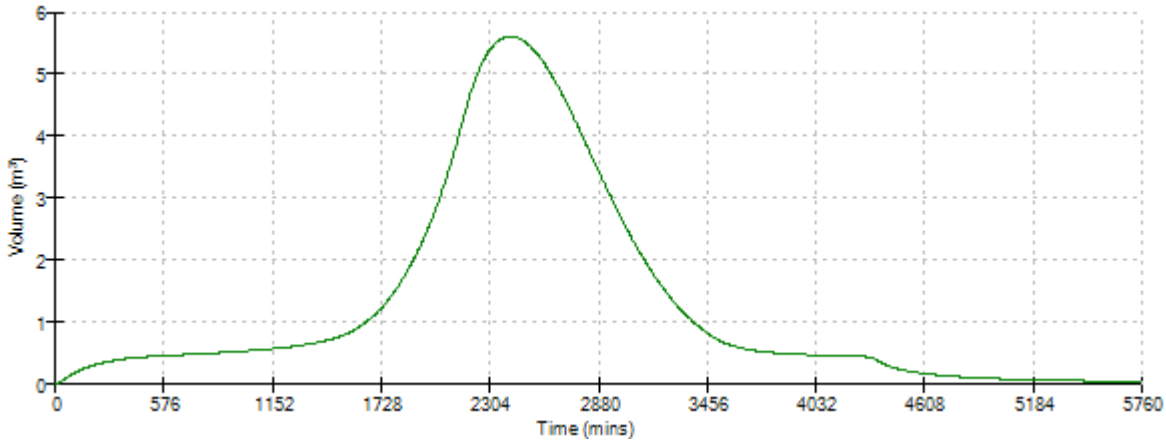


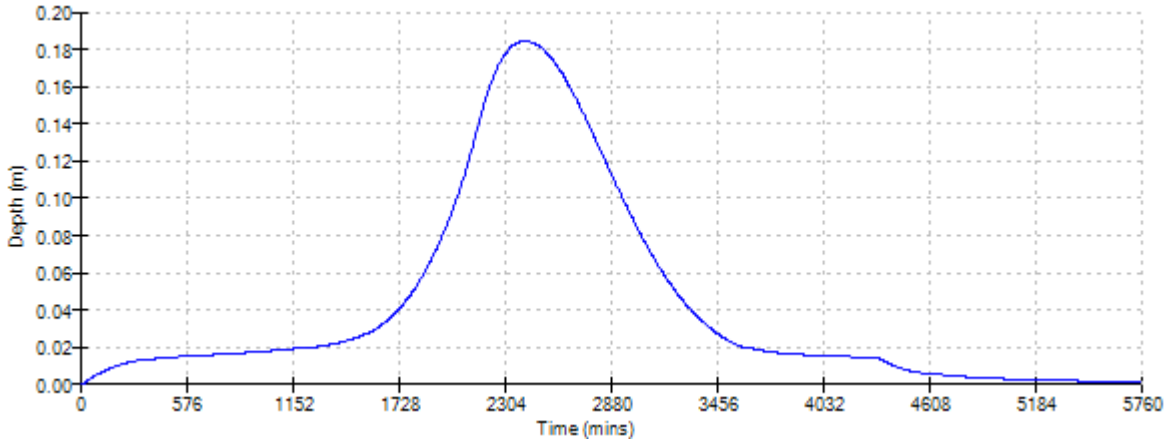


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Event: 4320 min Summer

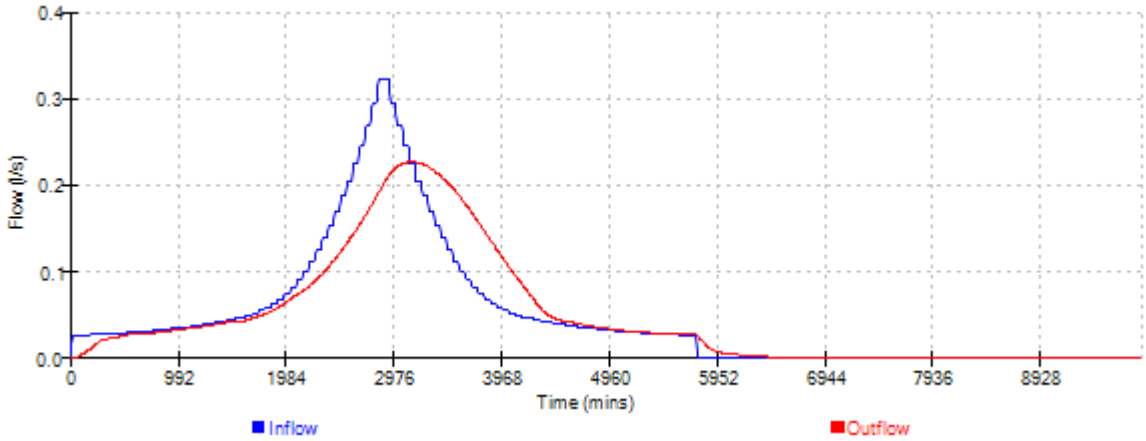


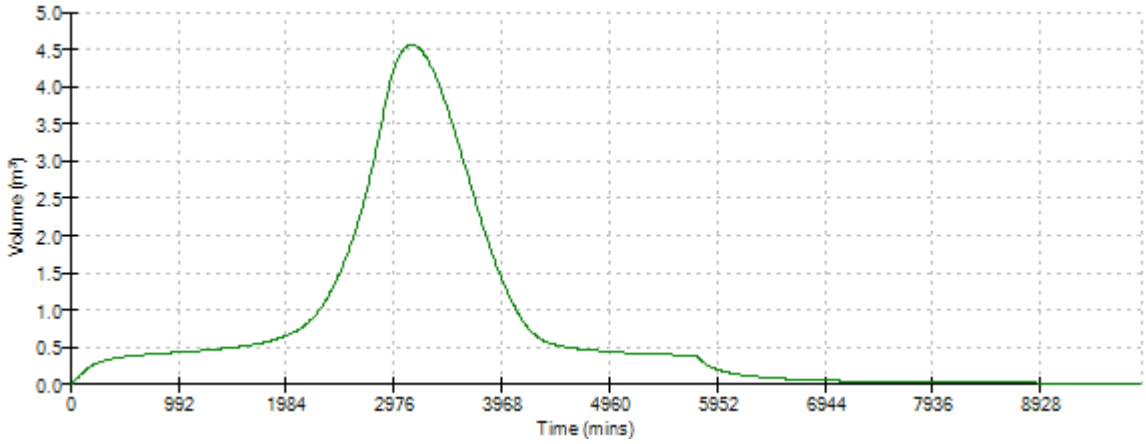


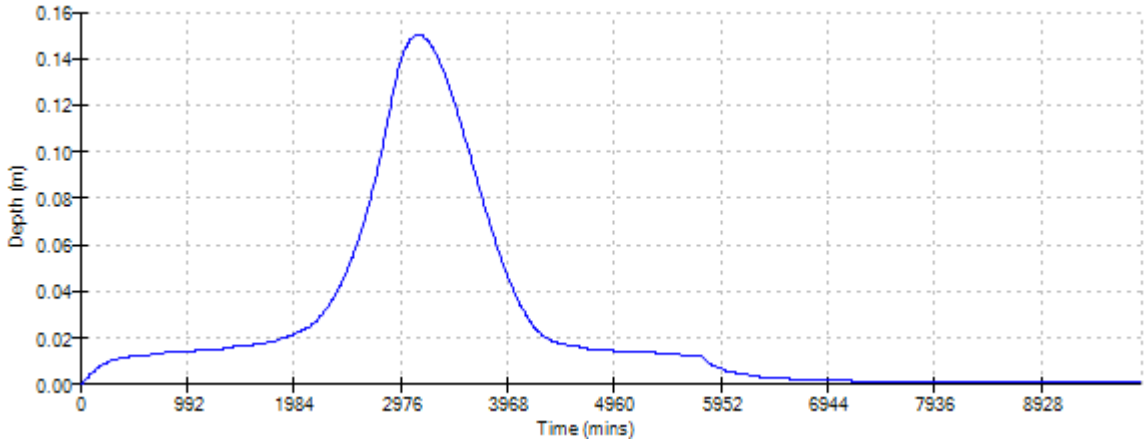


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Event: 5760 min Summer

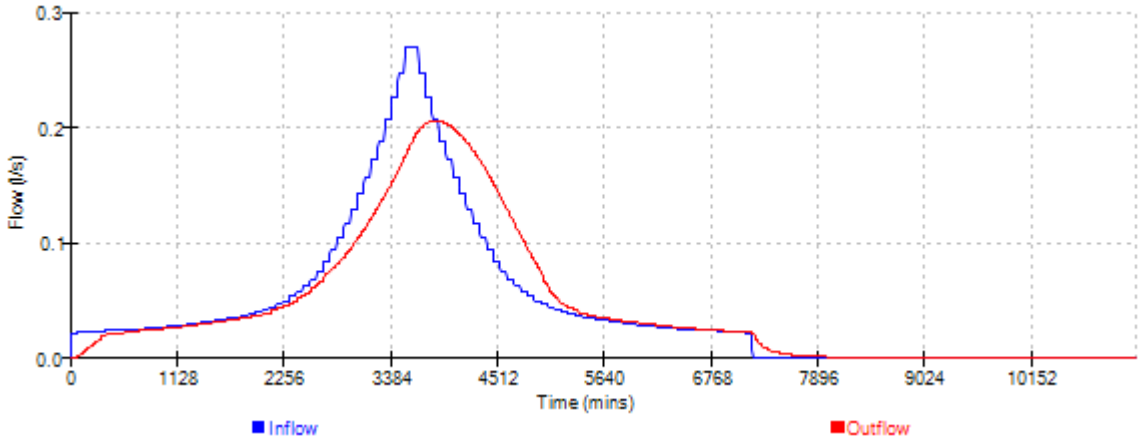


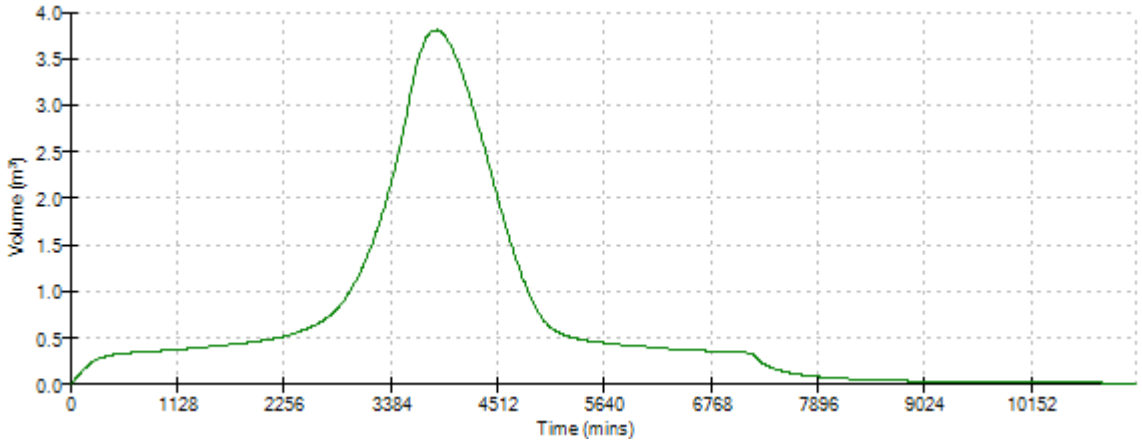


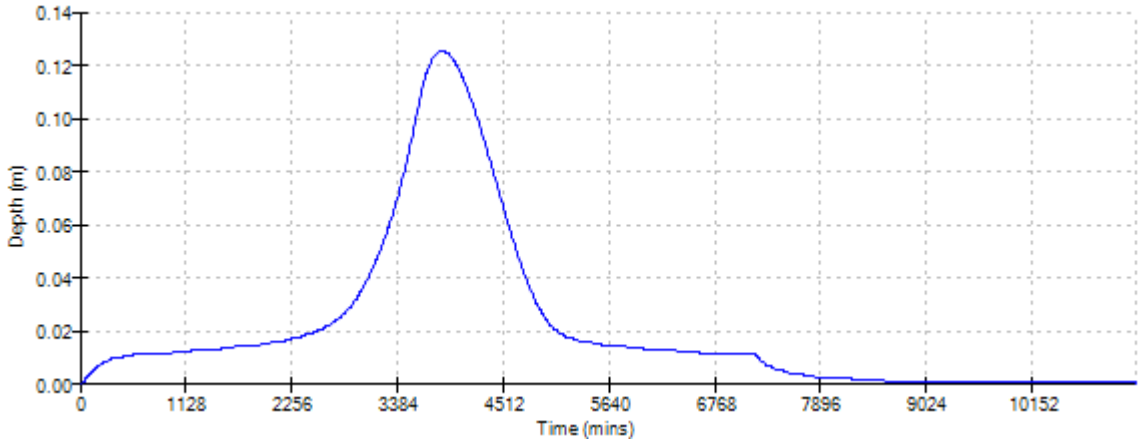


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Event: 7200 min Summer

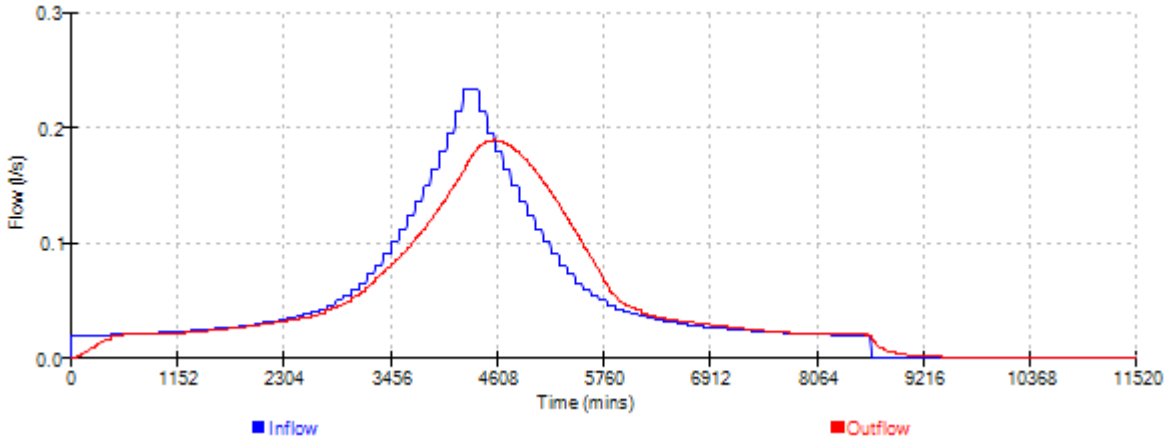


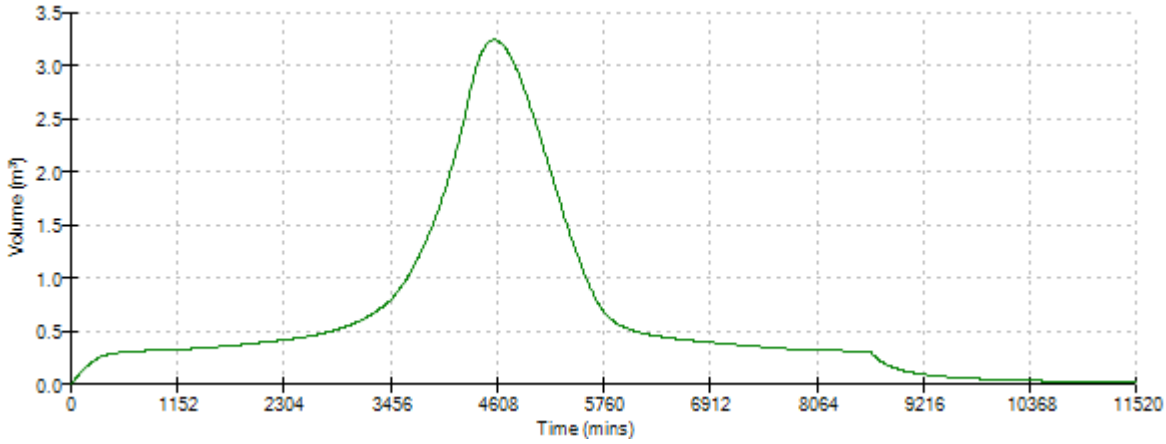


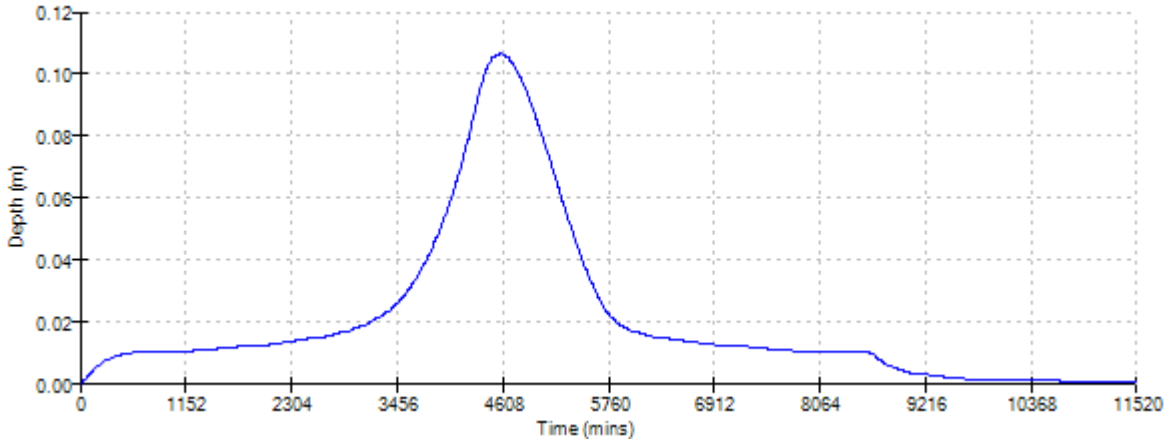


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Event: 8640 min Summer

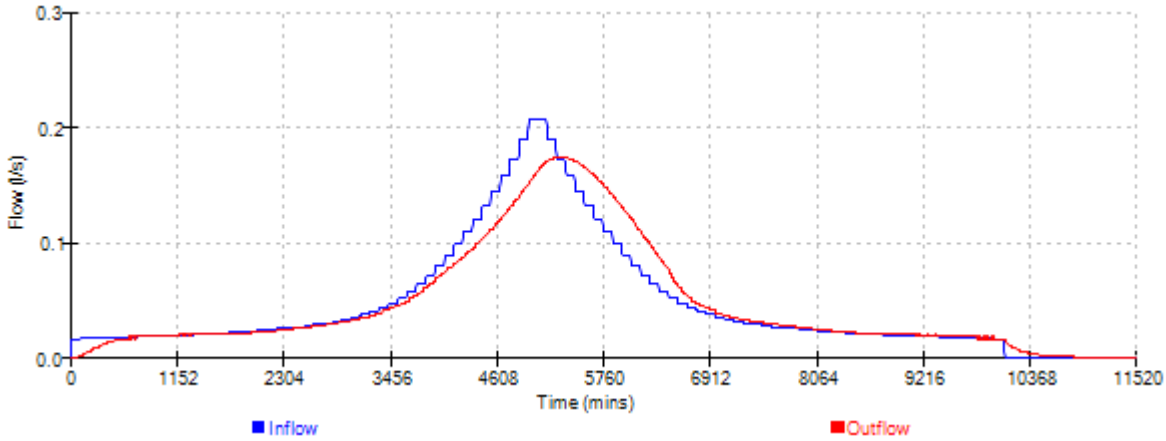


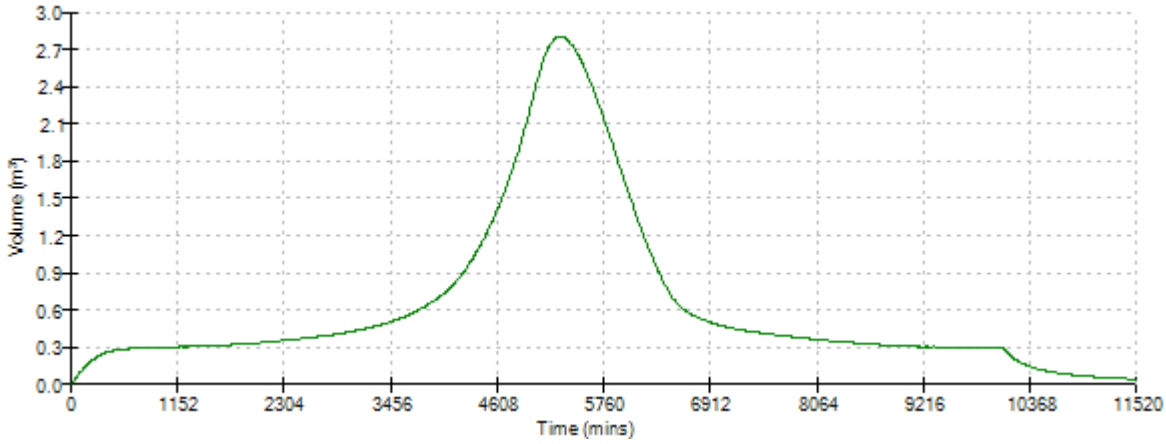


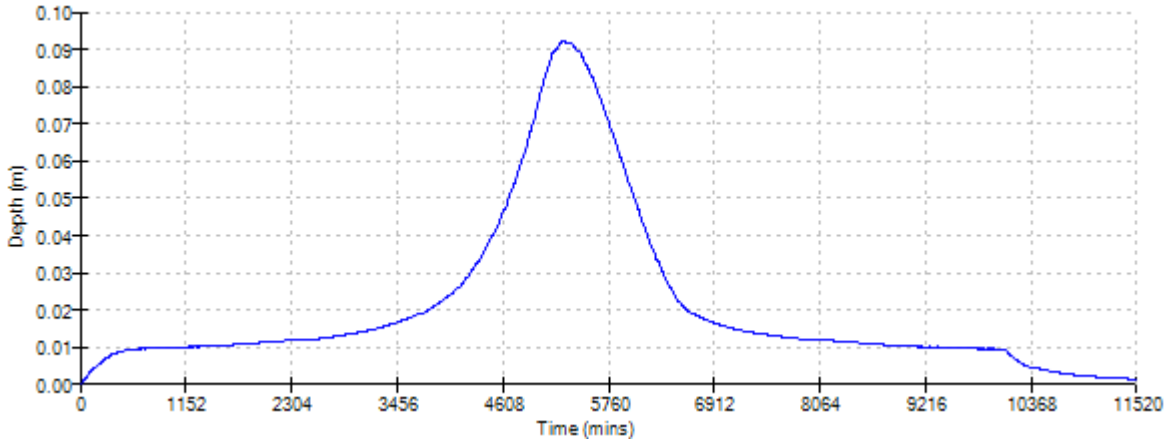


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Event: 10080 min Summer

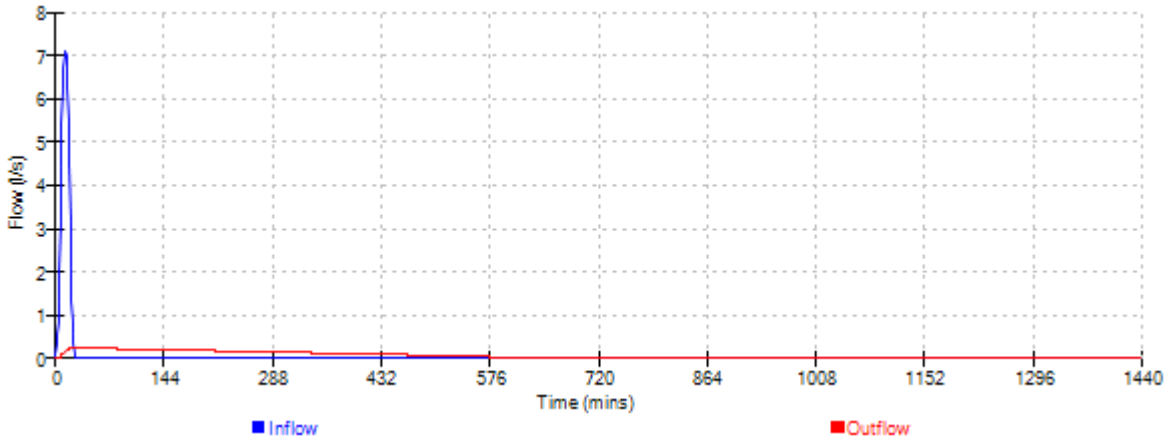


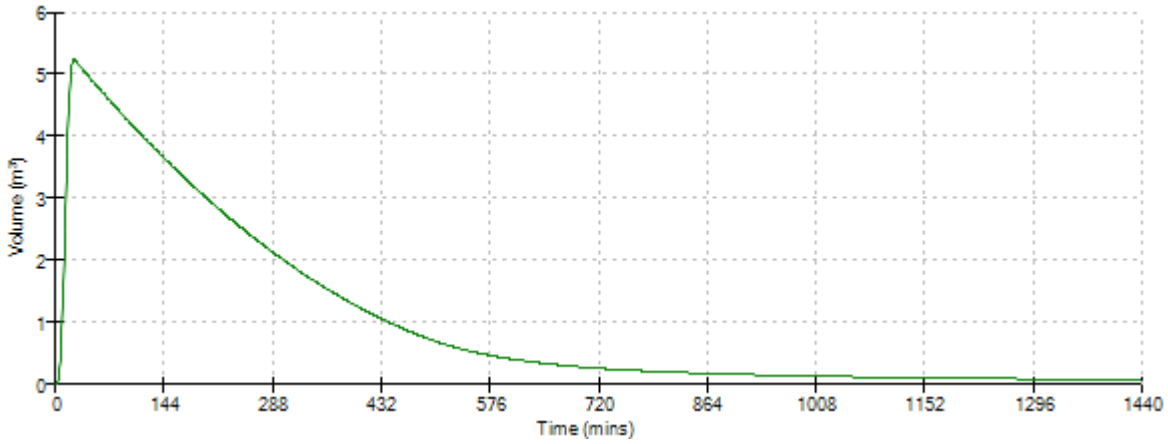


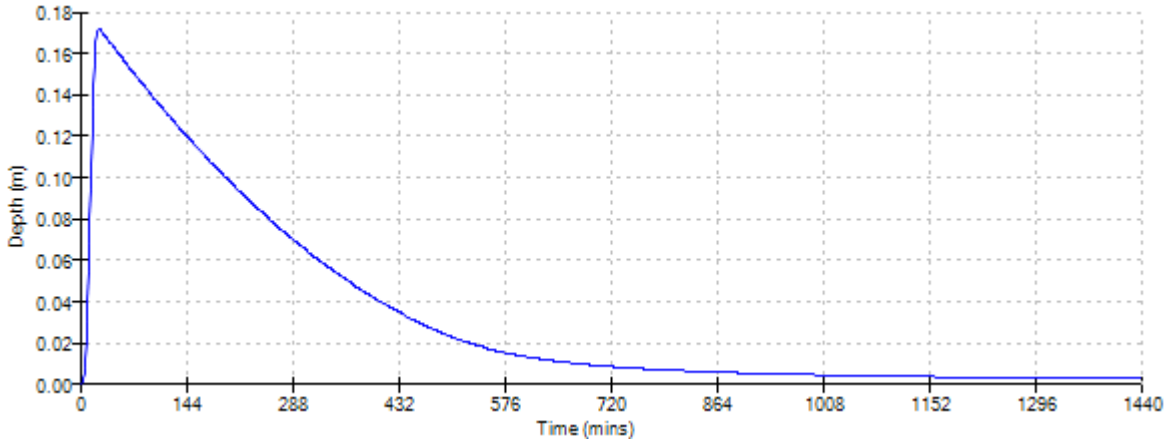


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Event: 15 min Winter

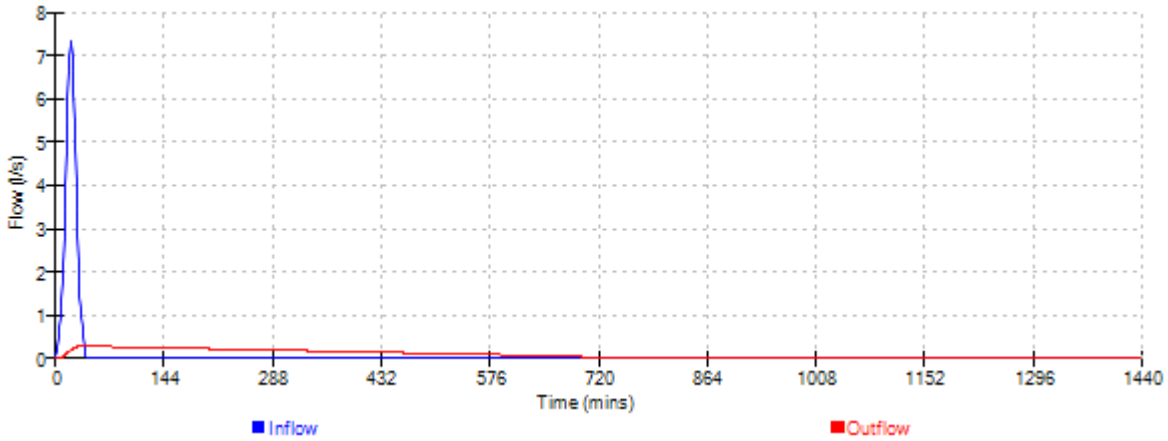


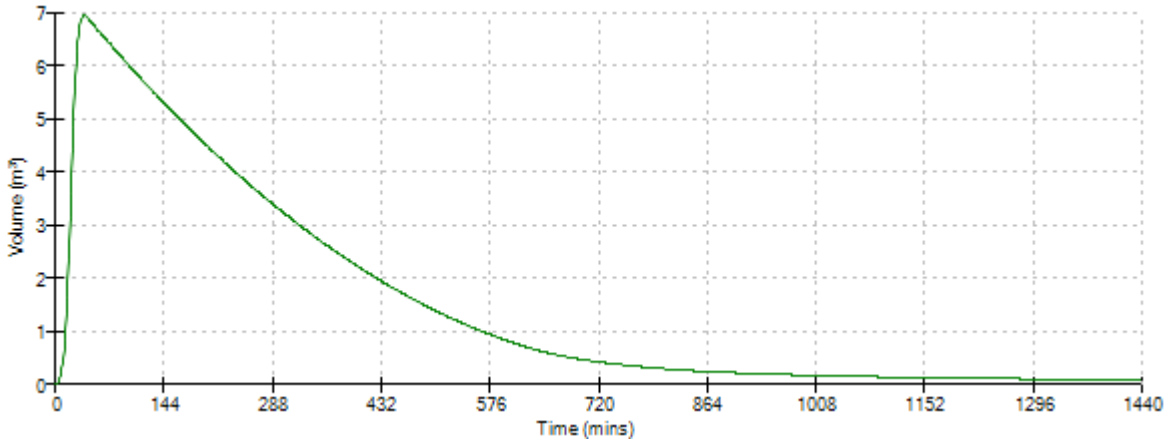


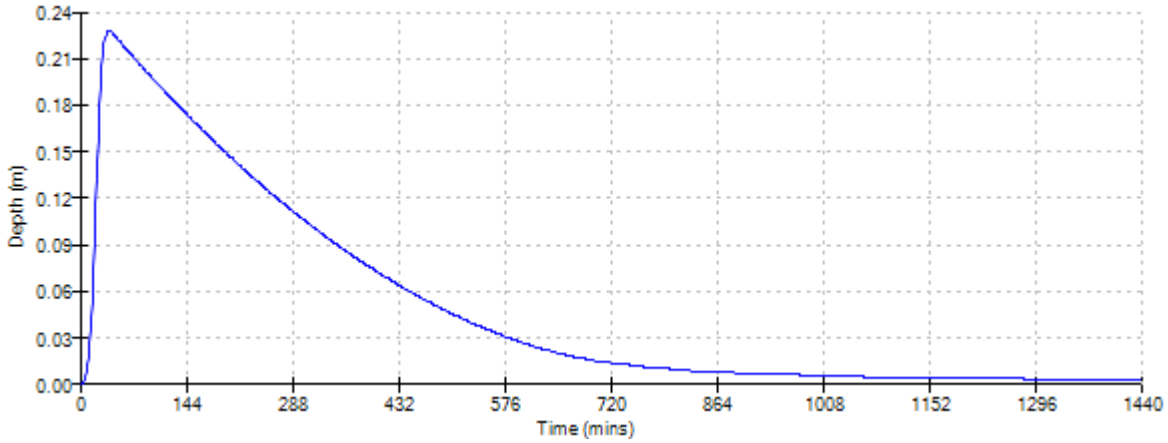


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Event: 30 min Winter

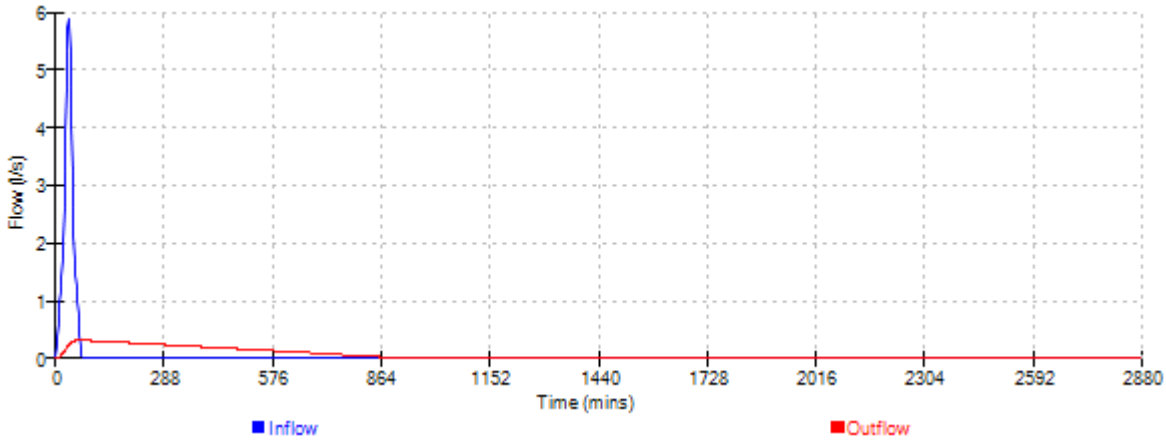


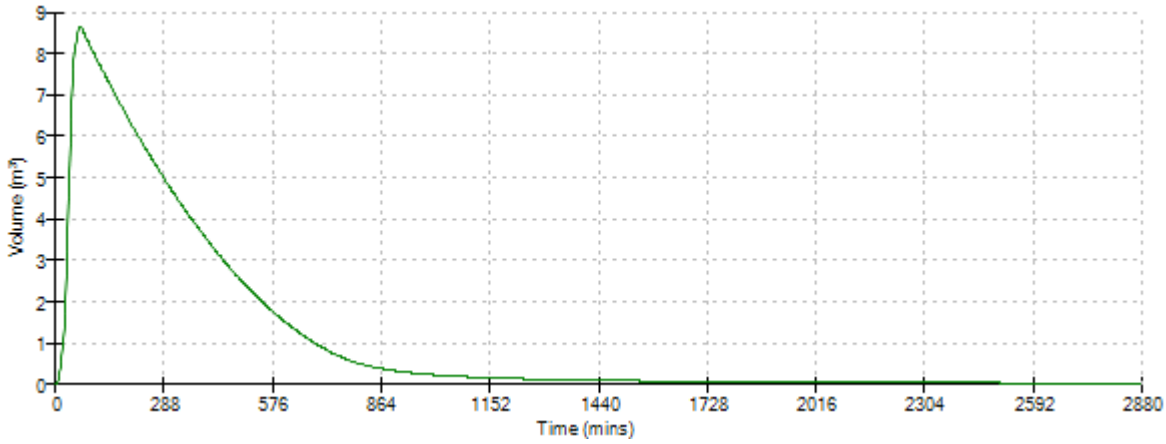


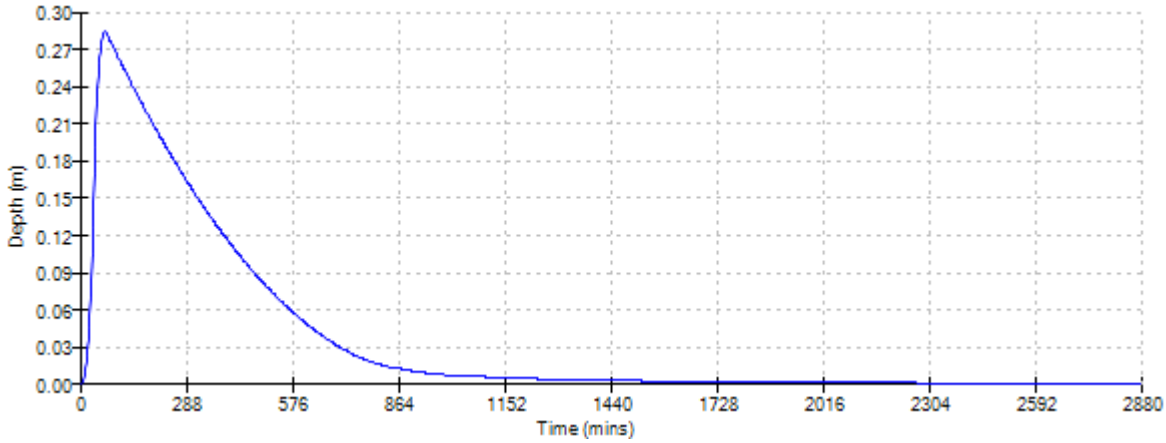


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Event: 60 min Winter

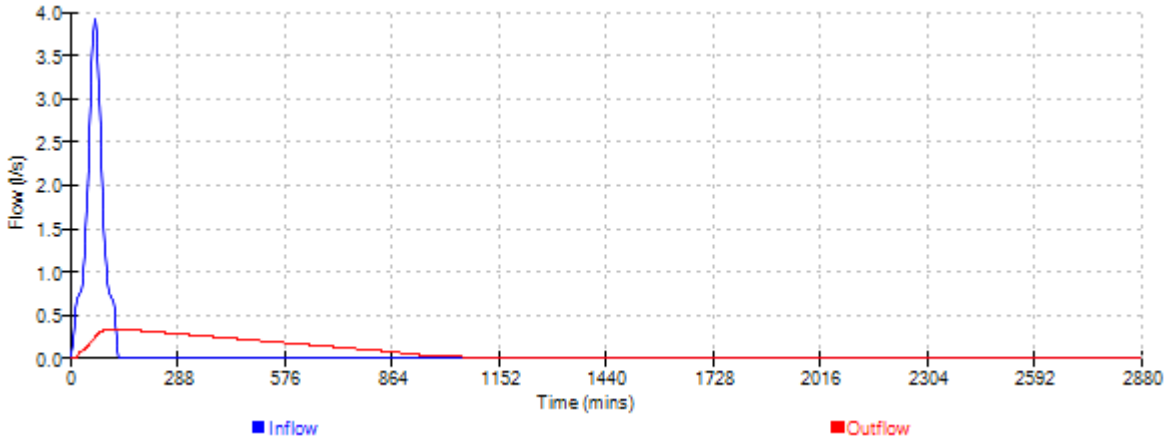


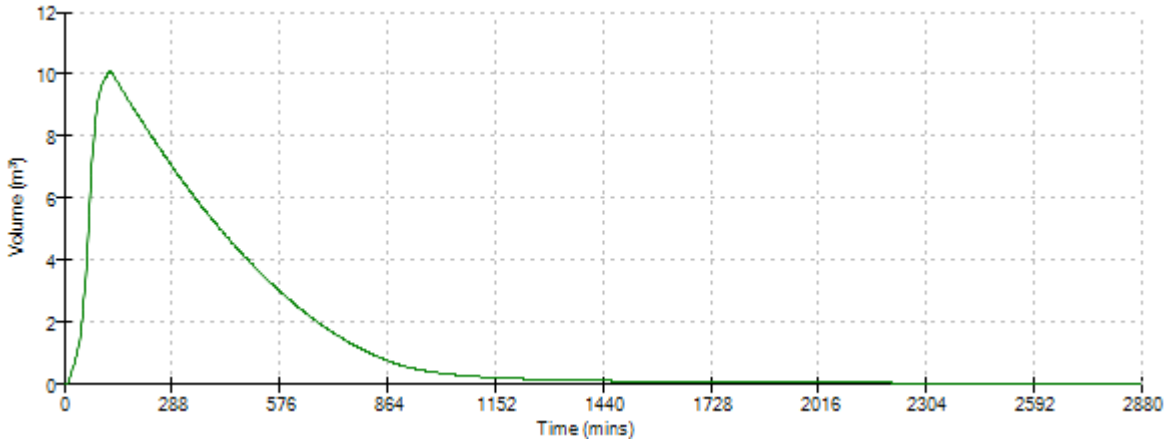


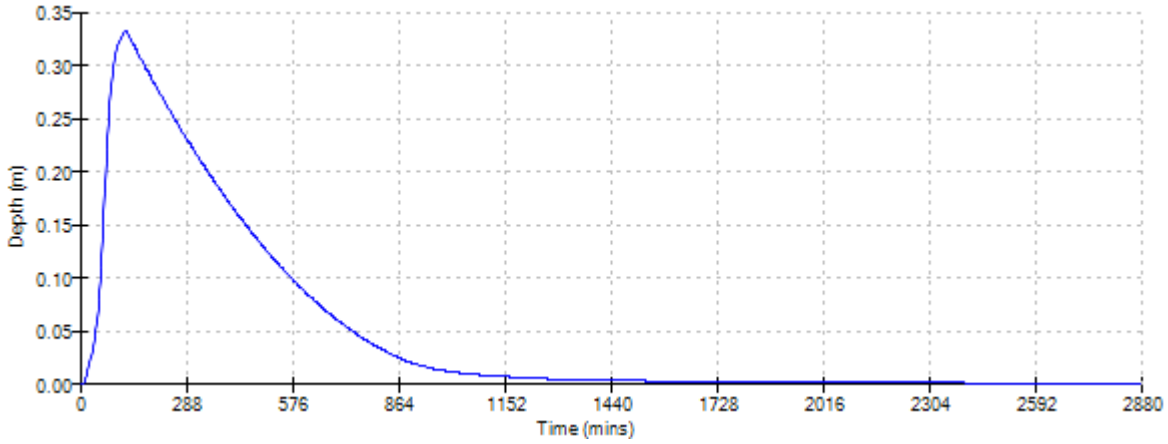


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Event: 120 min Winter

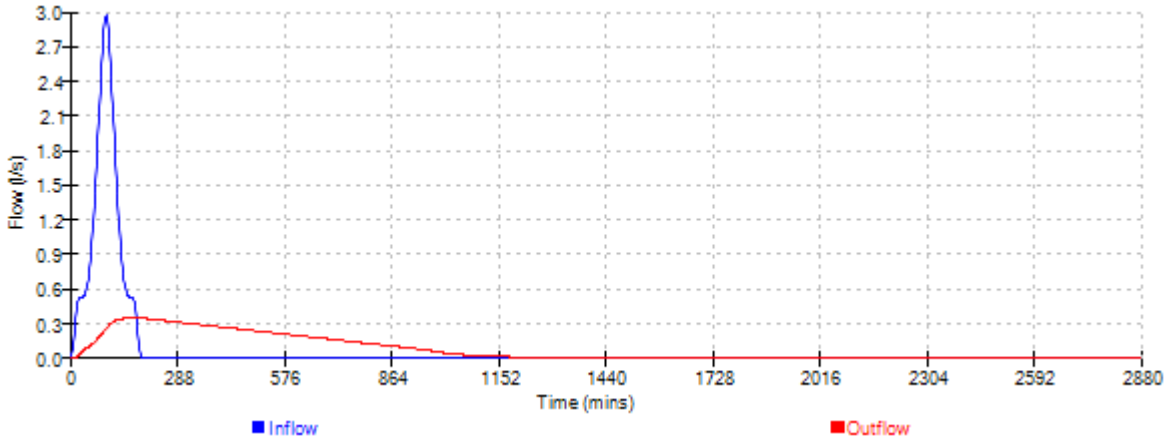


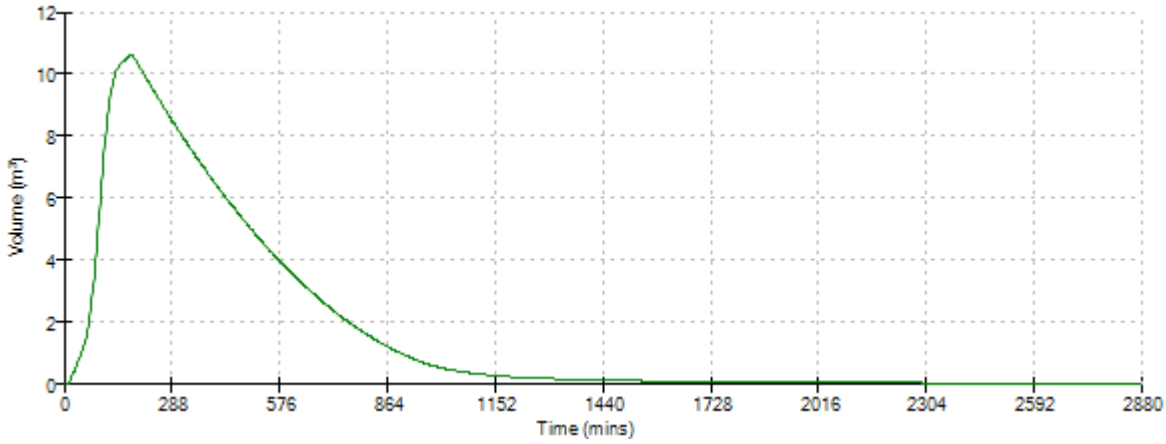


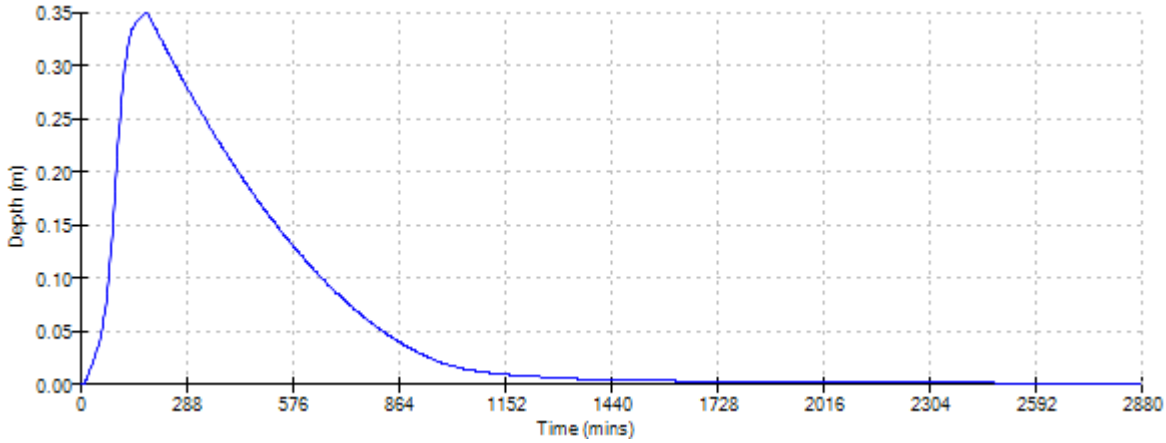


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Event: 180 min Winter

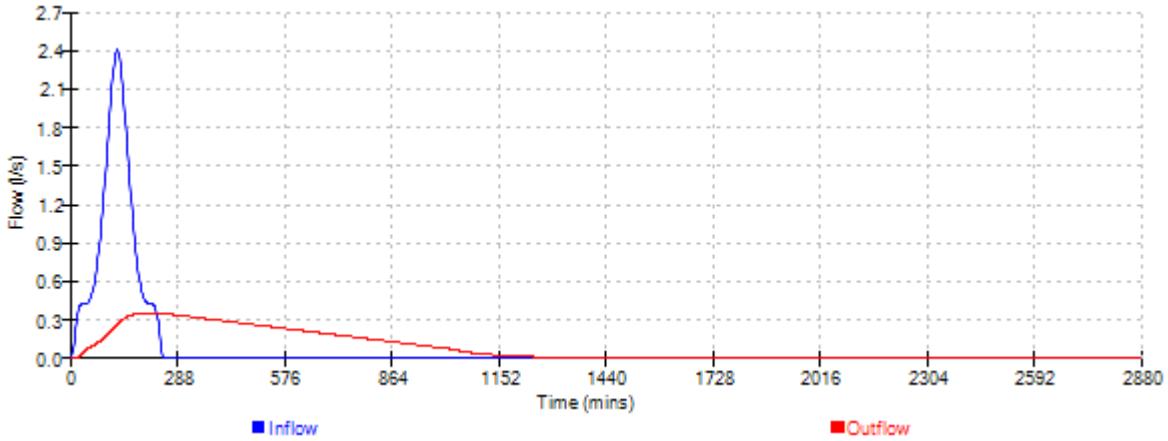


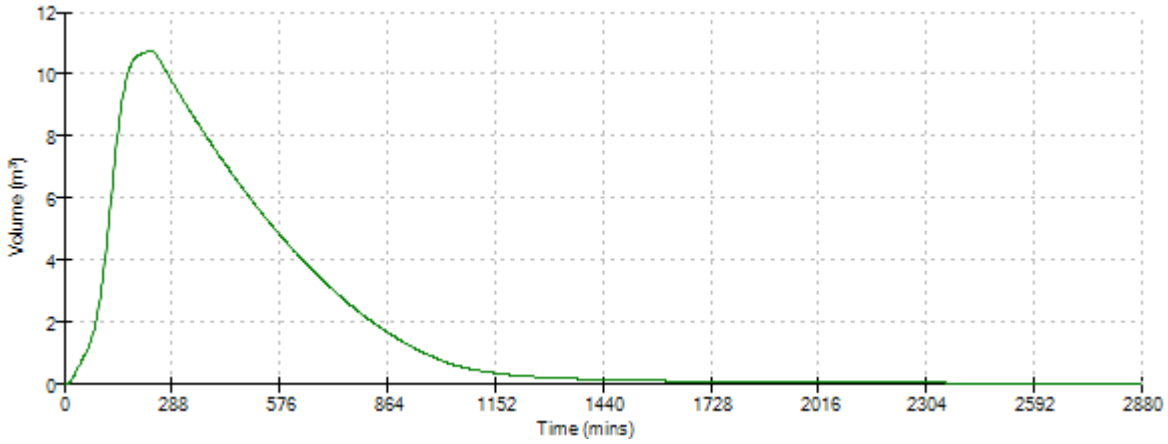


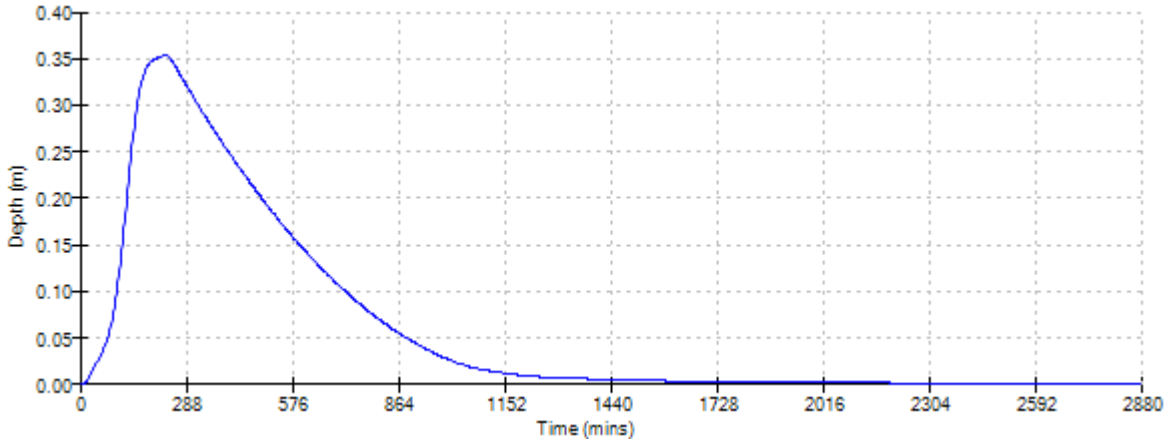


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Event: 240 min Winter

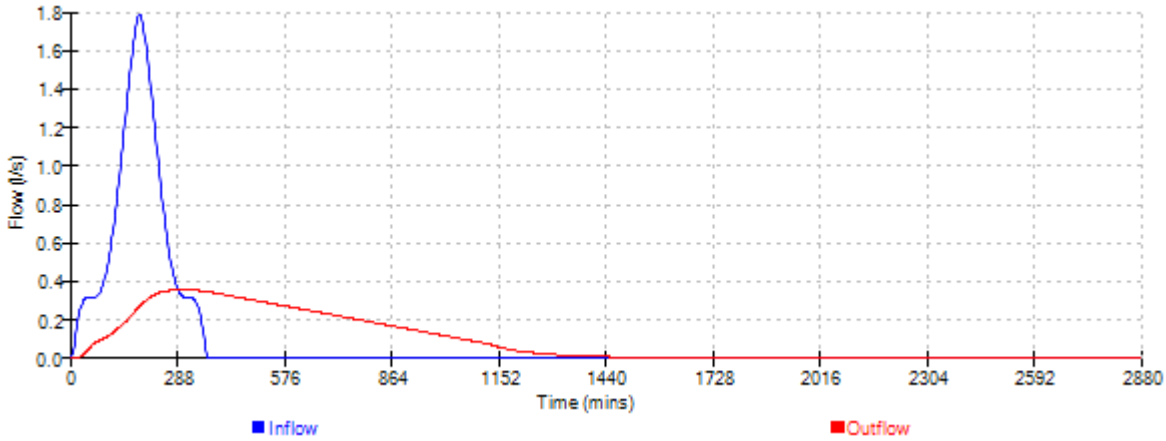


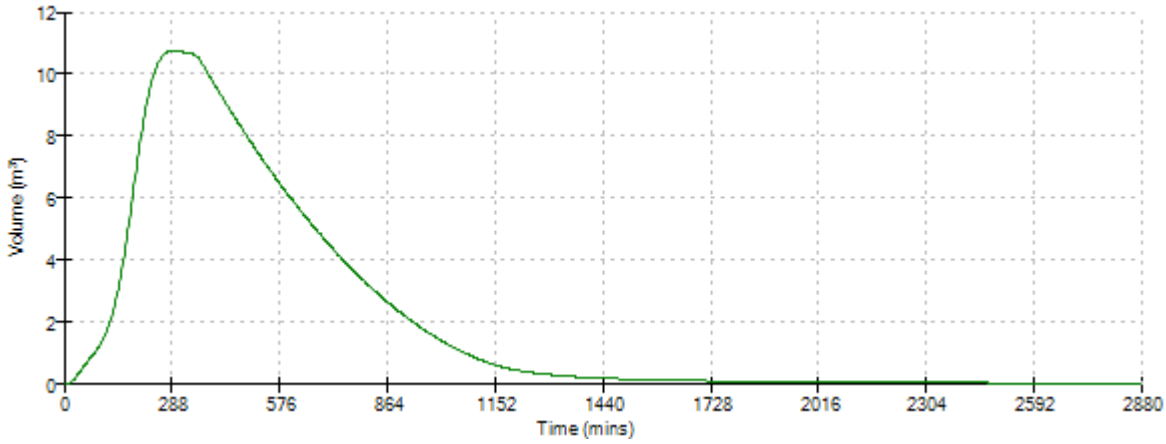


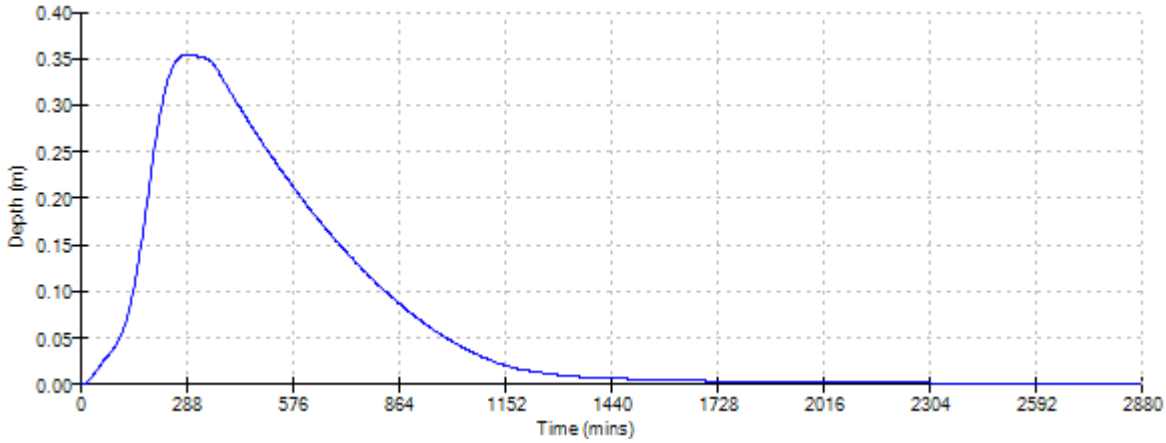


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Event: 360 min Winter

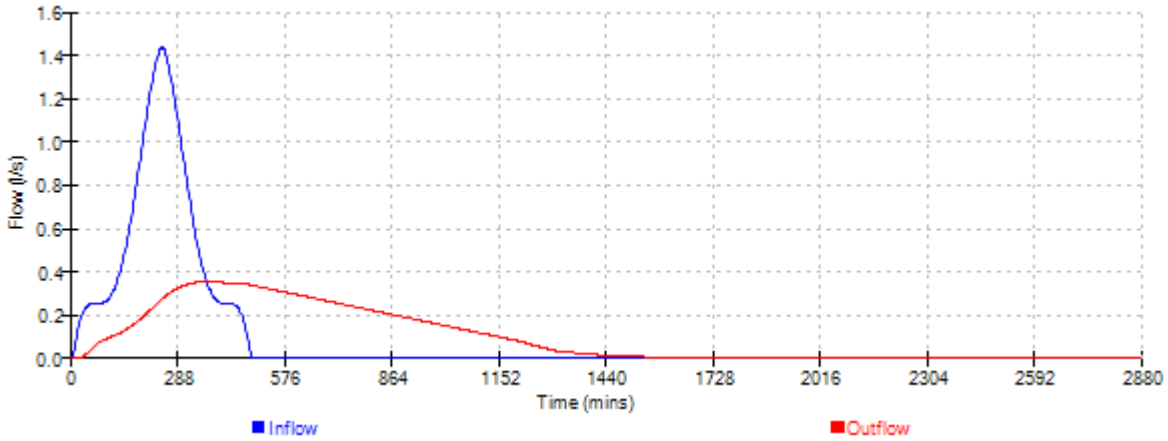


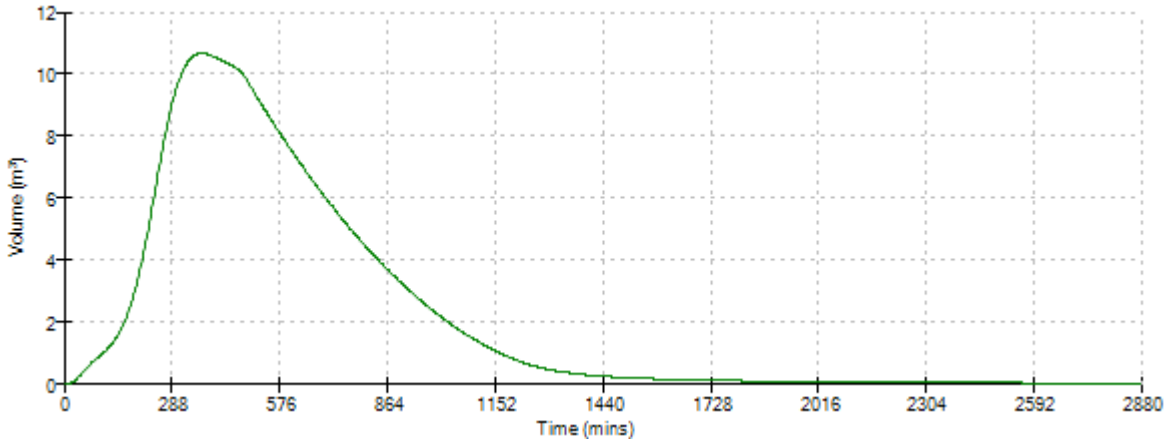


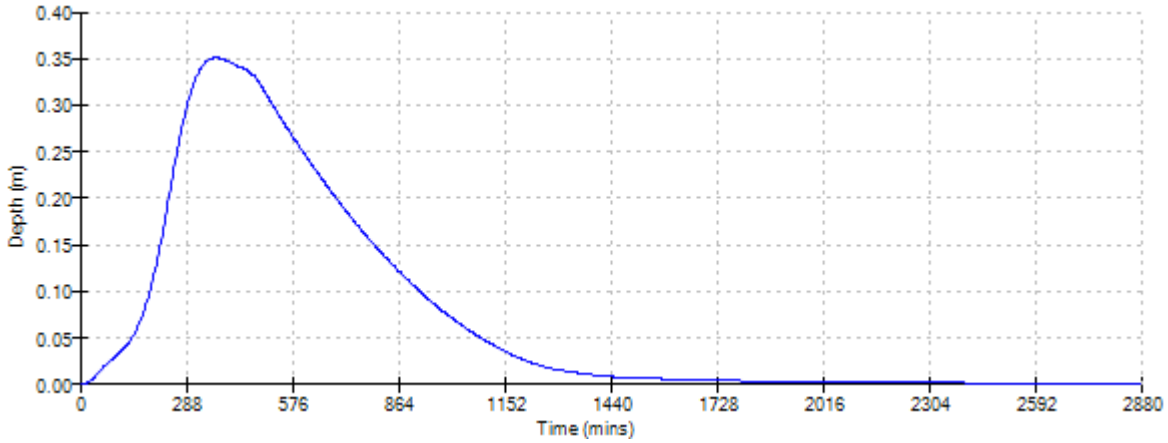


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Event: 480 min Winter

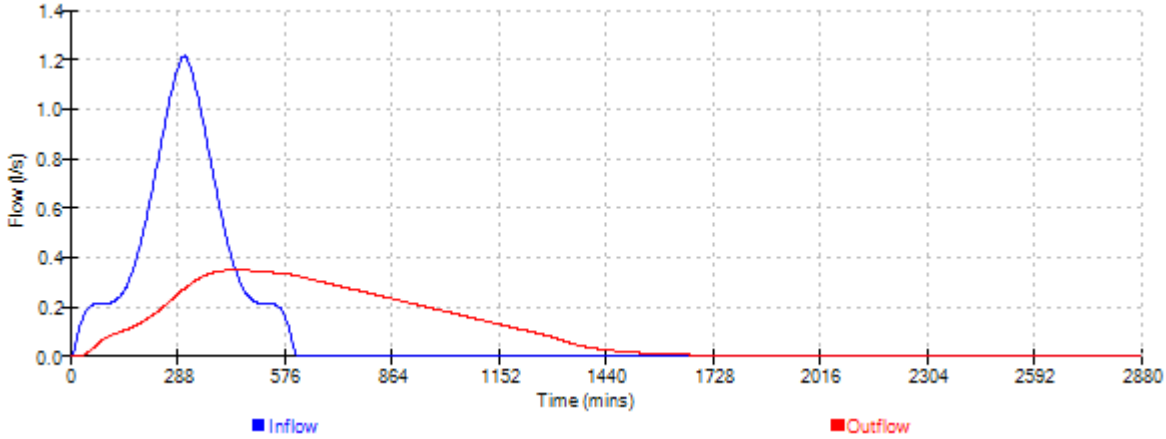


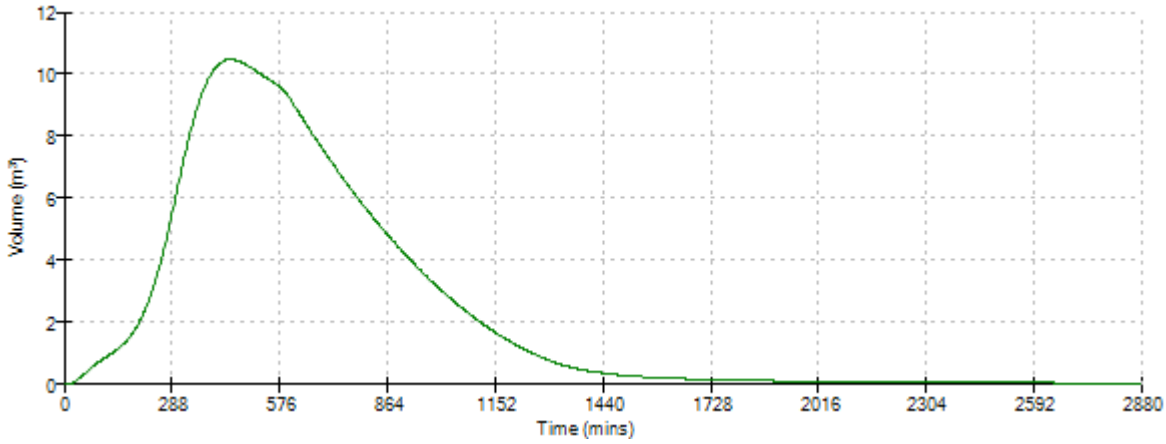


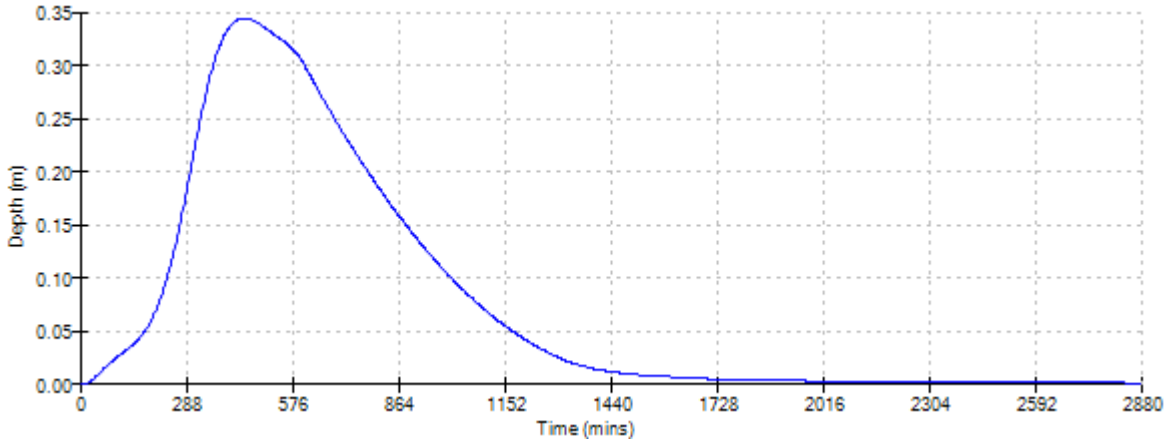


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Event: 600 min Winter

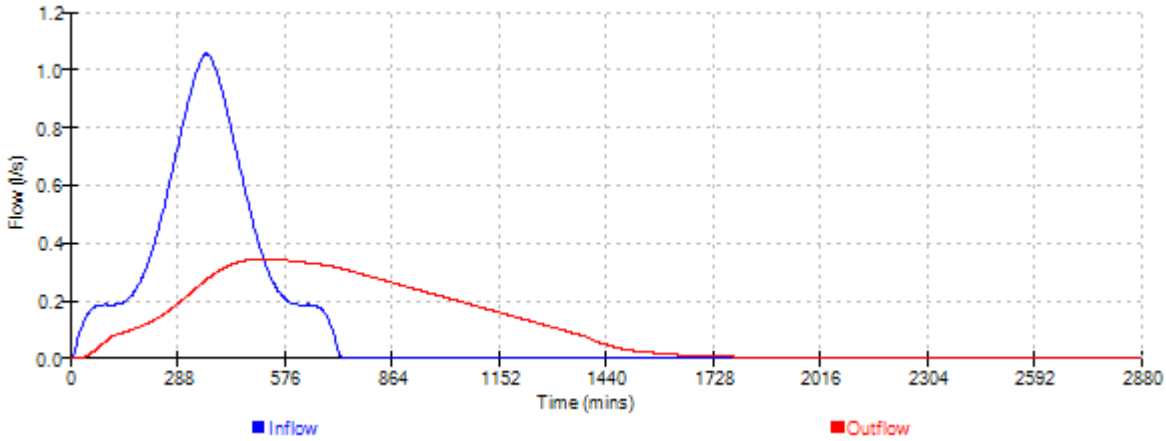


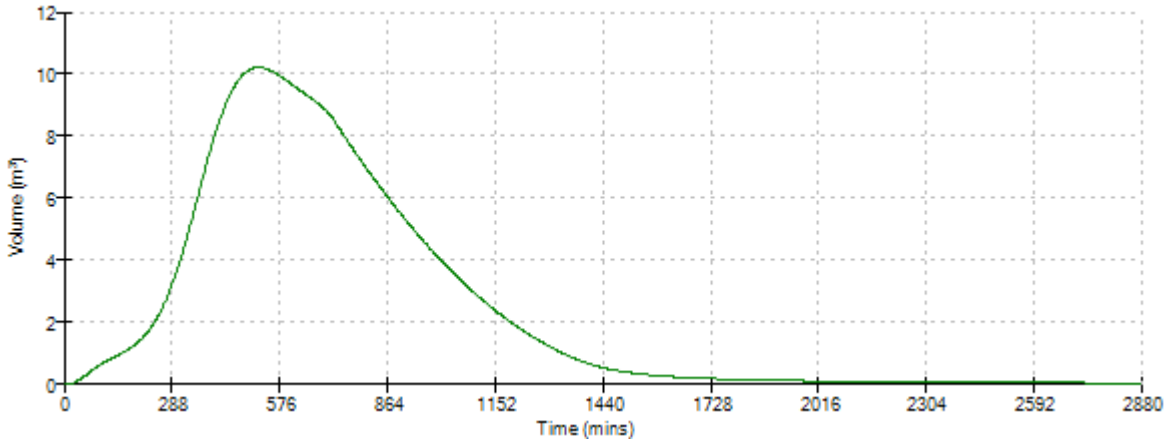


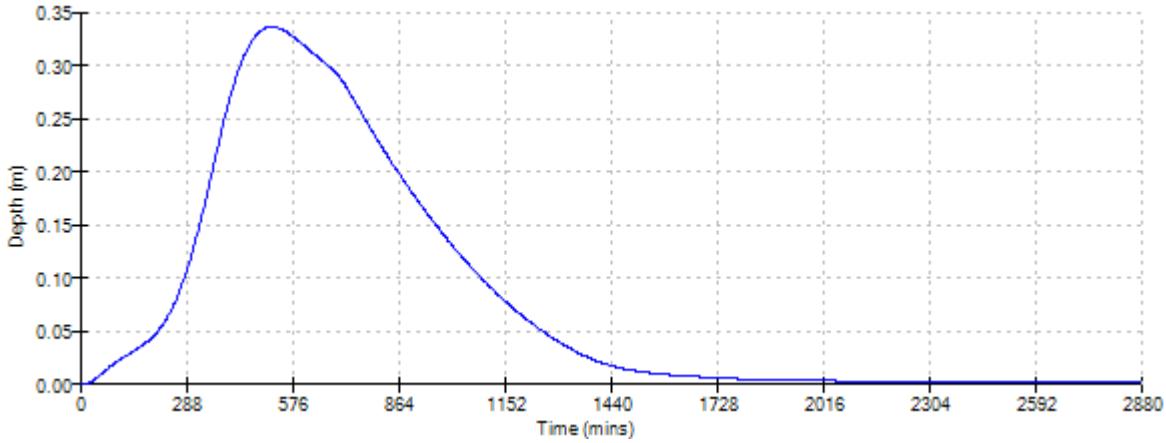


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Event: 720 min Winter

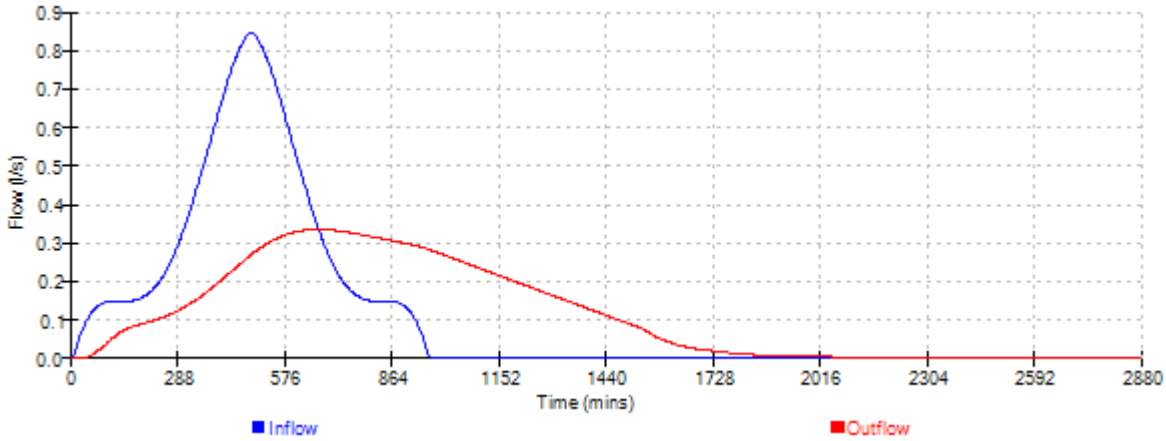


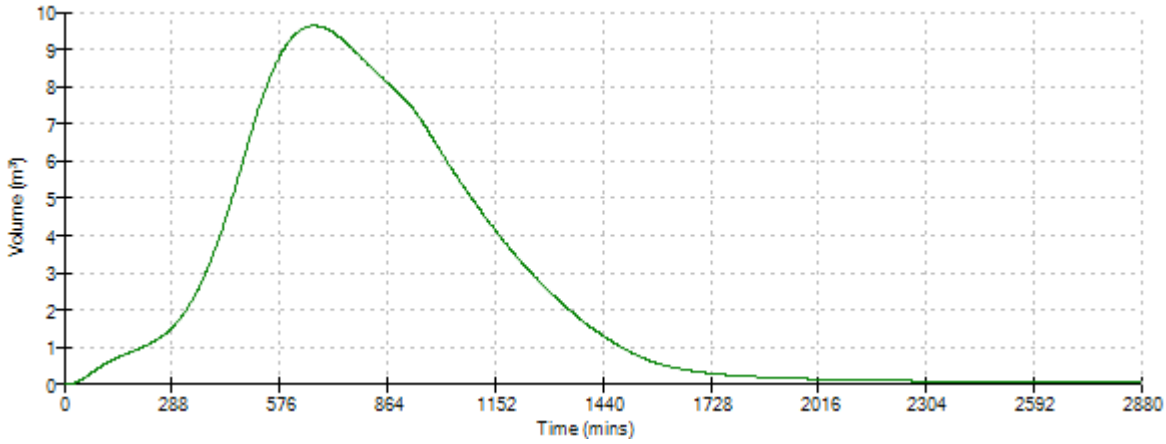


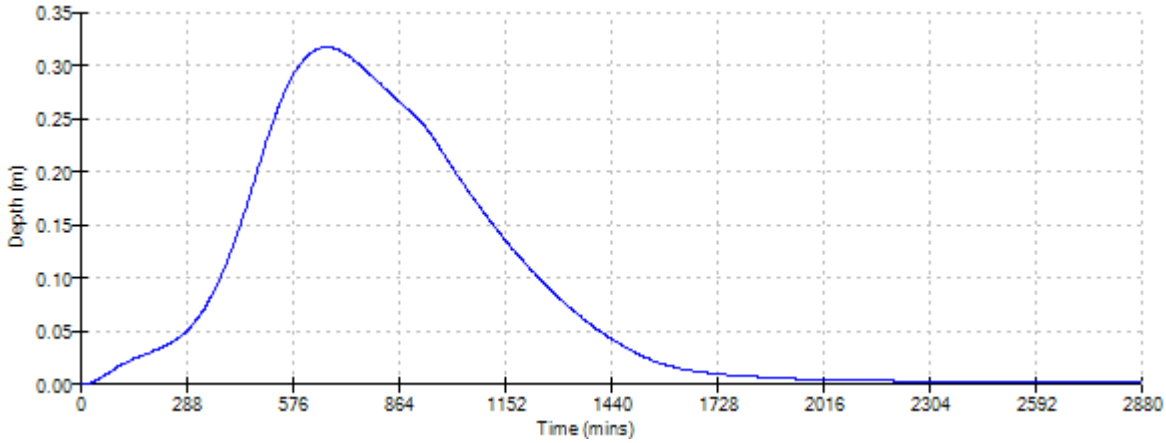


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Event: 960 min Winter

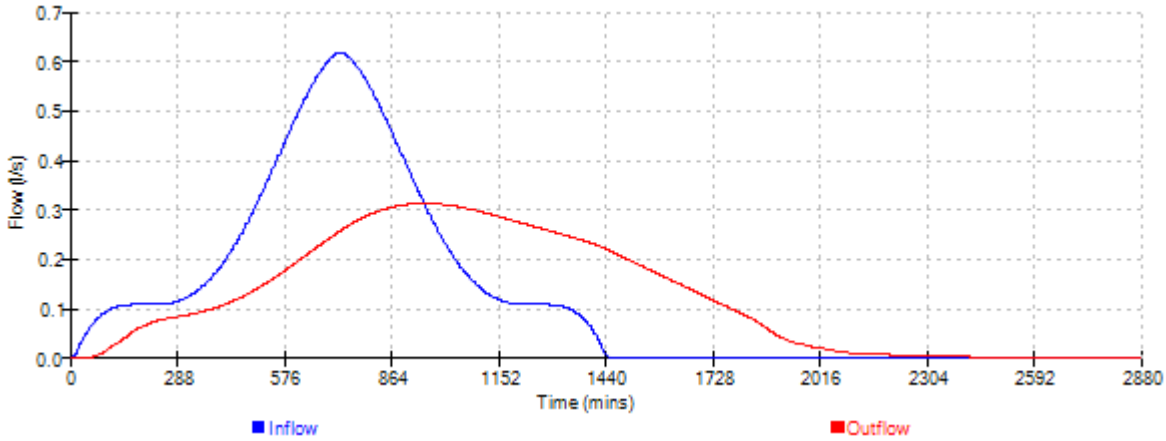


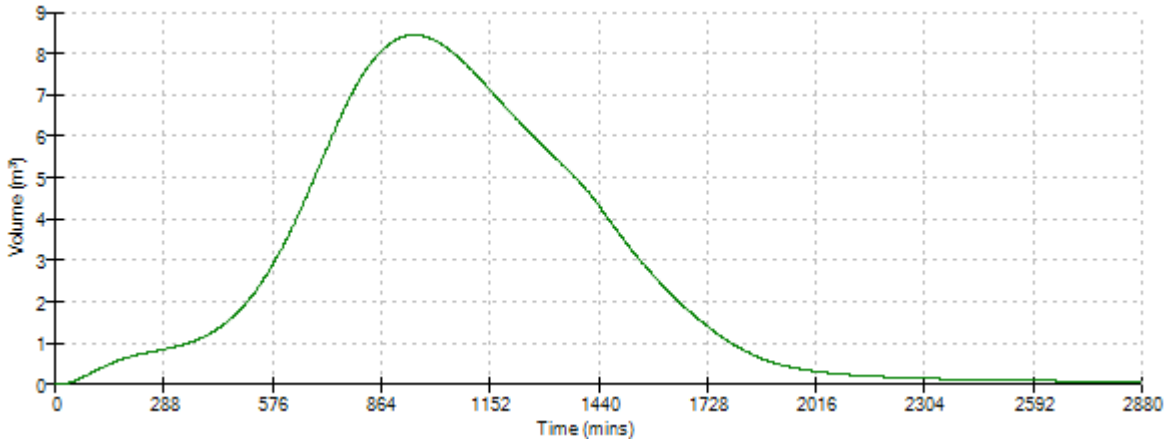


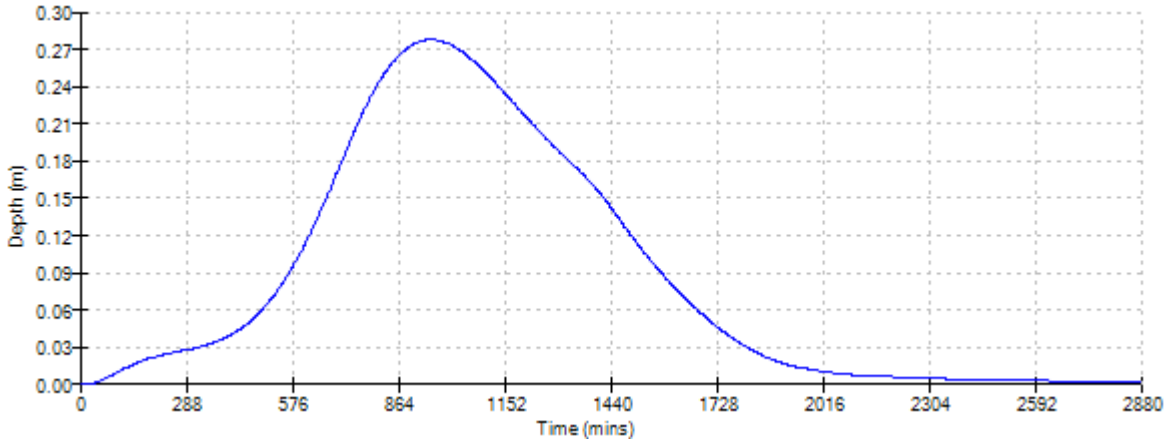


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Event: 1440 min Winter

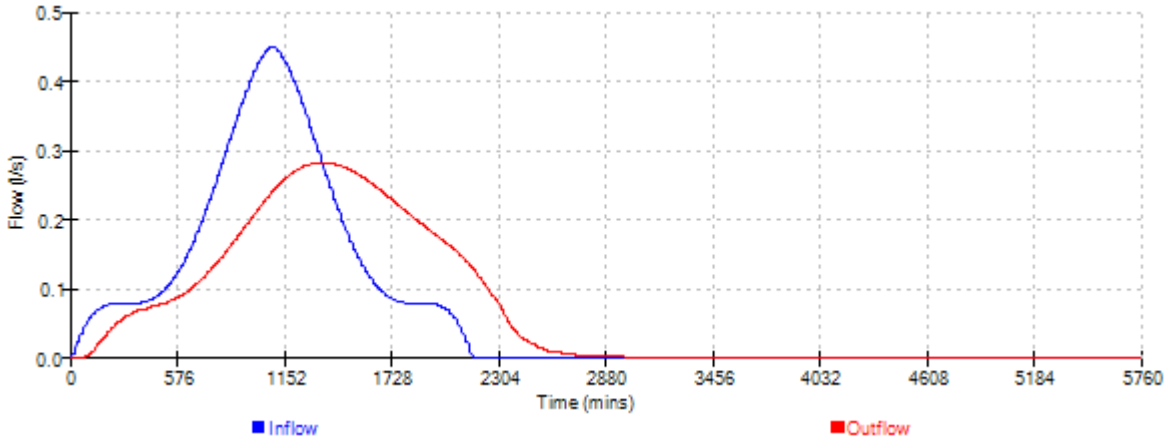


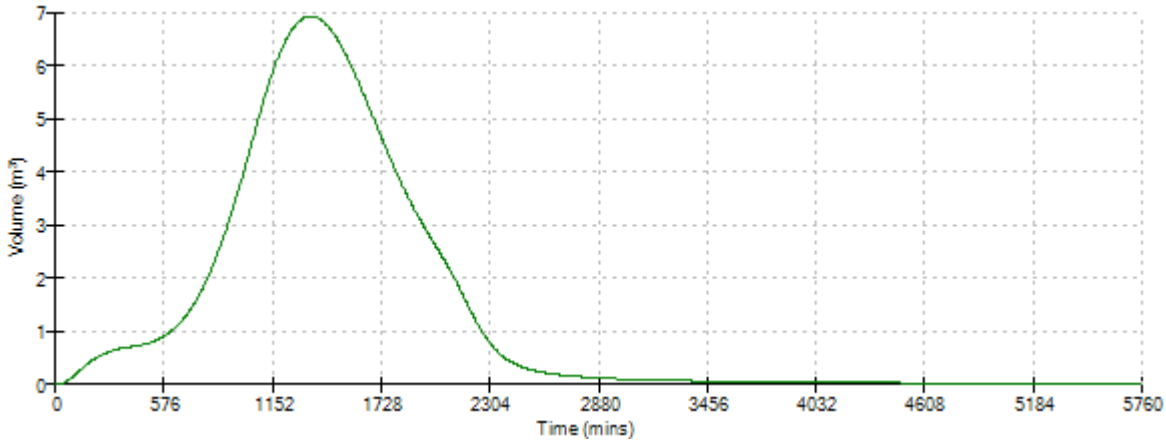


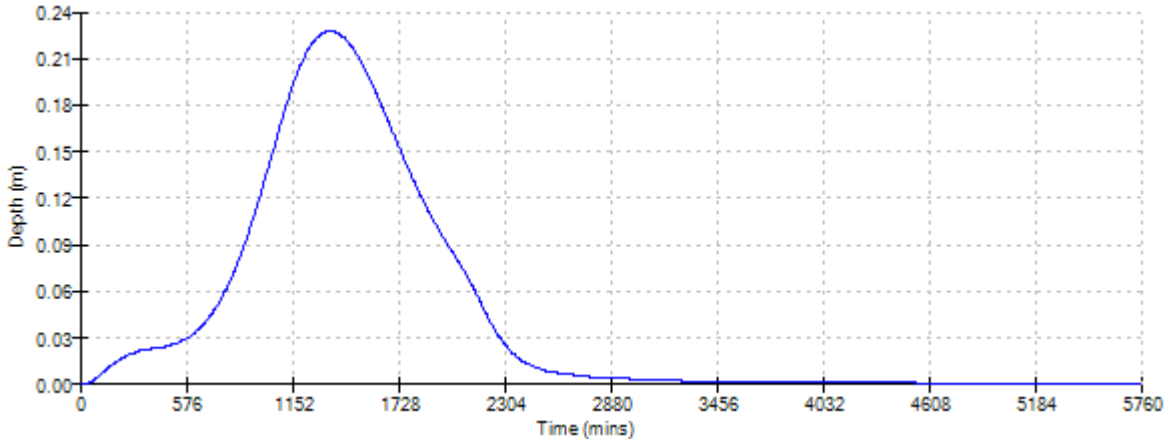


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Event: 2160 min Winter

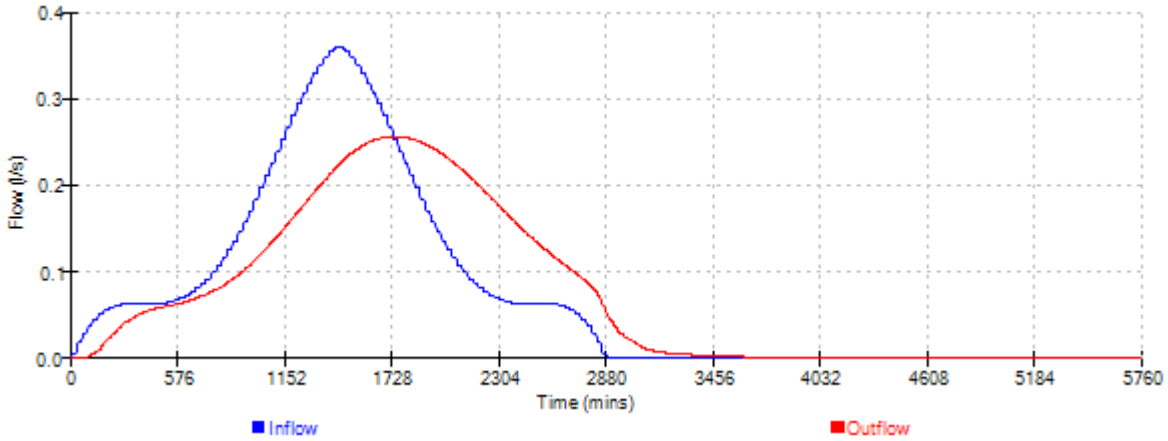


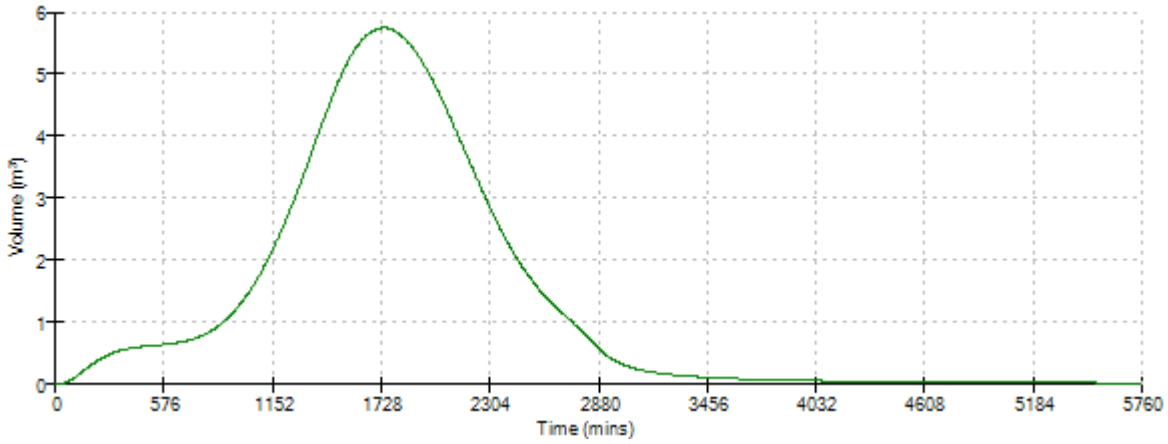


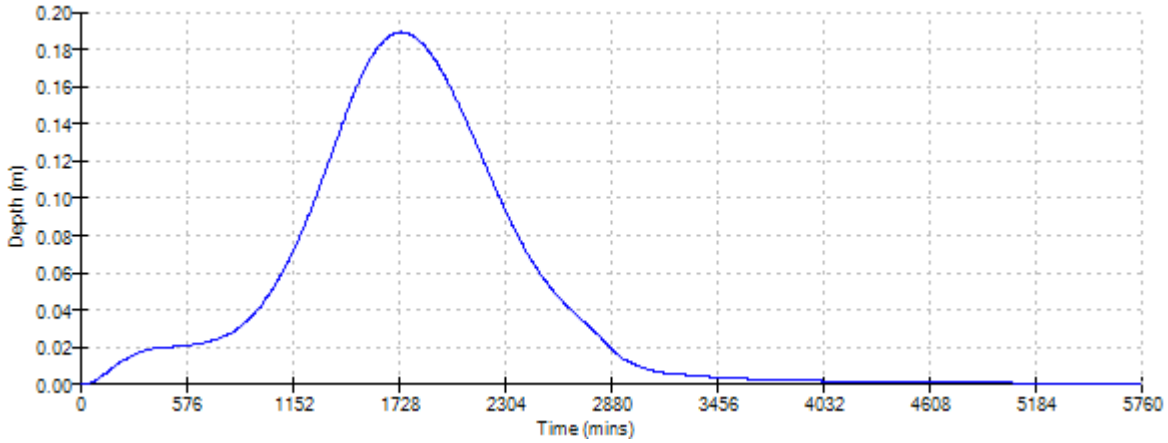


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Event: 2880 min Winter

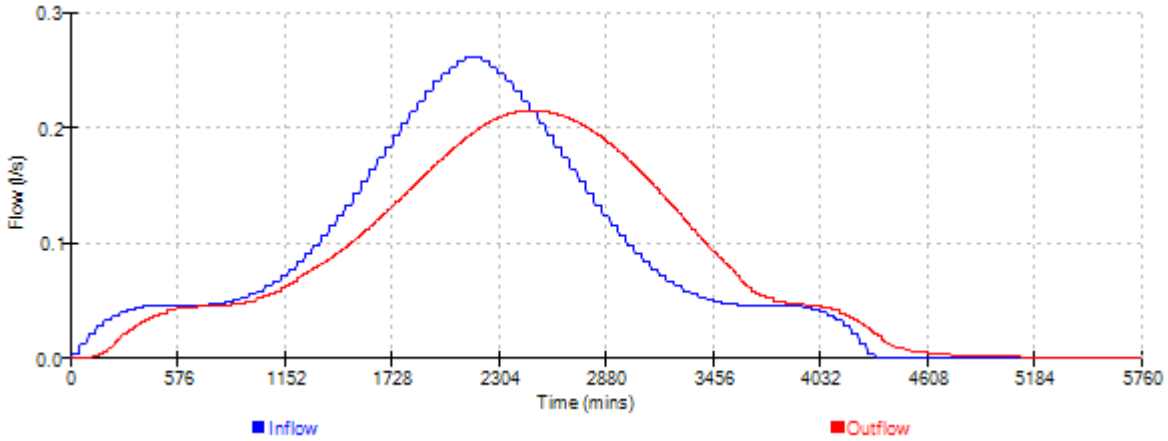


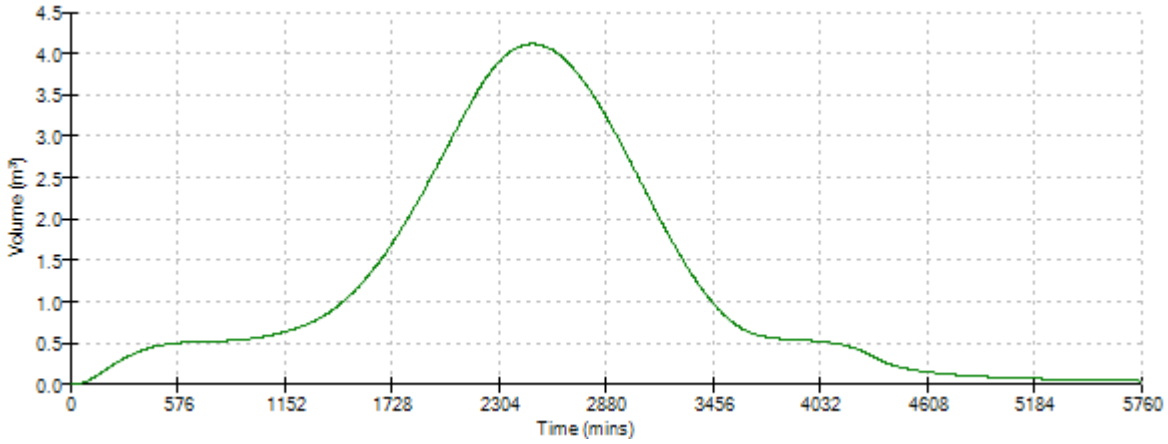


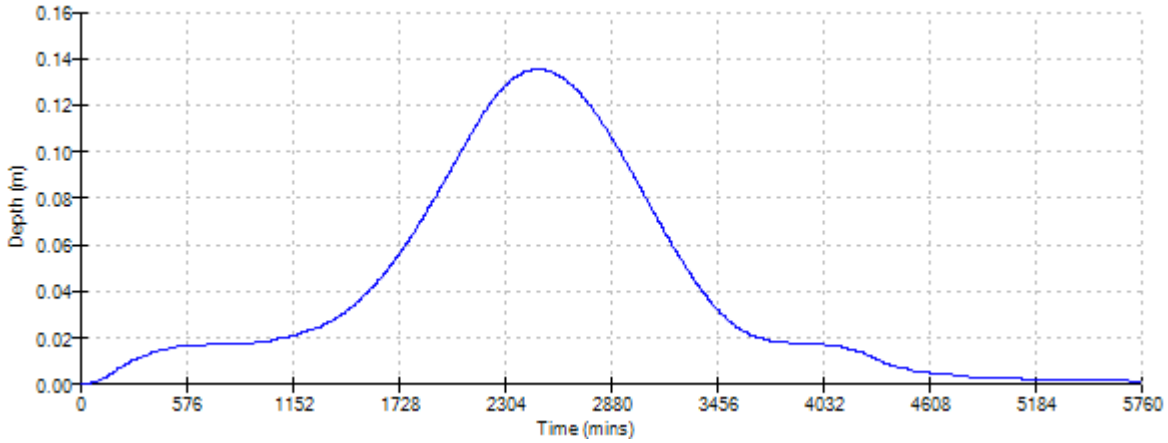


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Event: 4320 min Winter

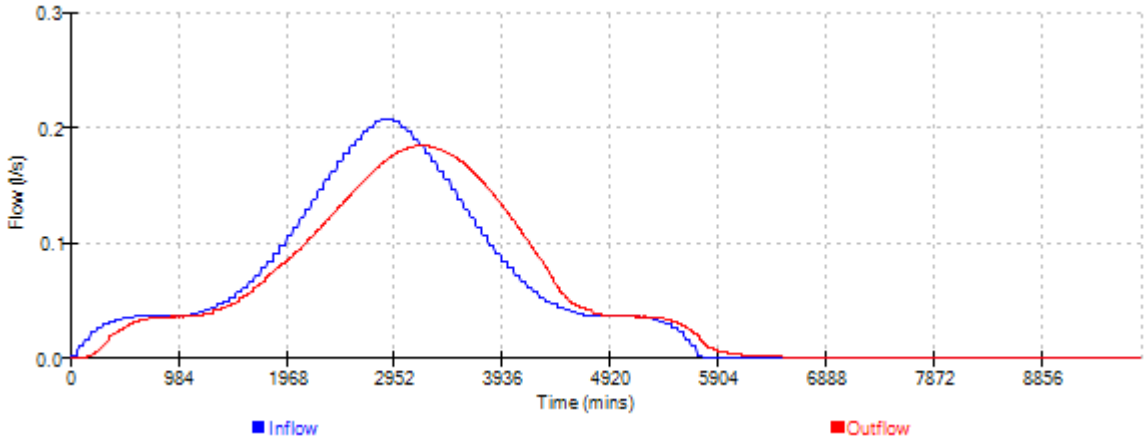


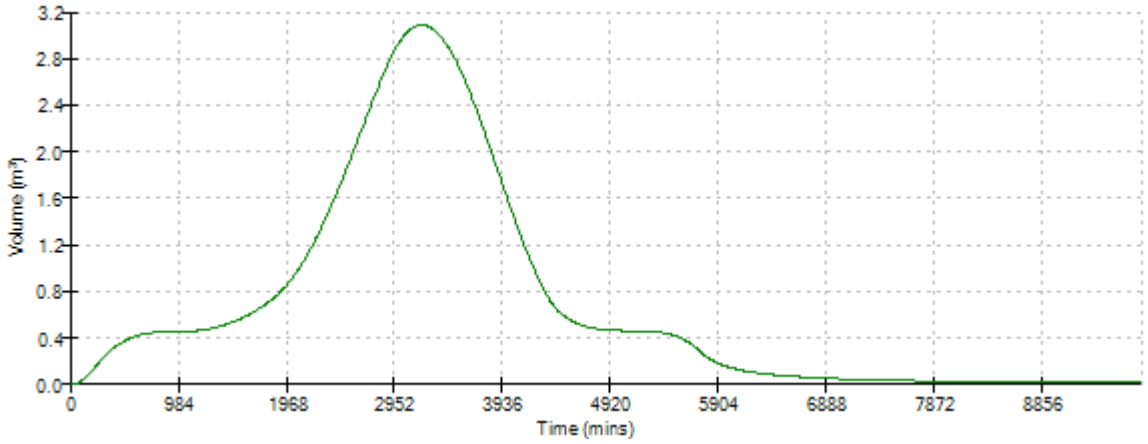


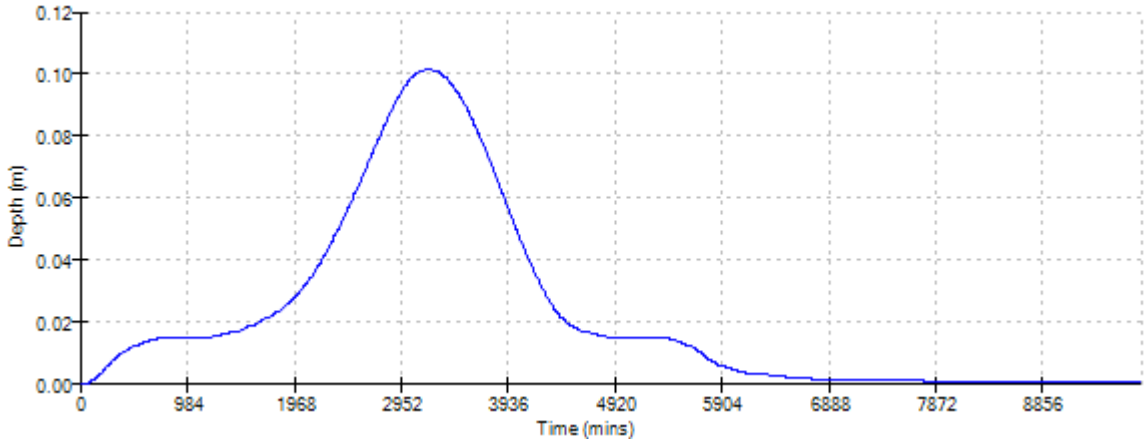


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Event: 5760 min Winter

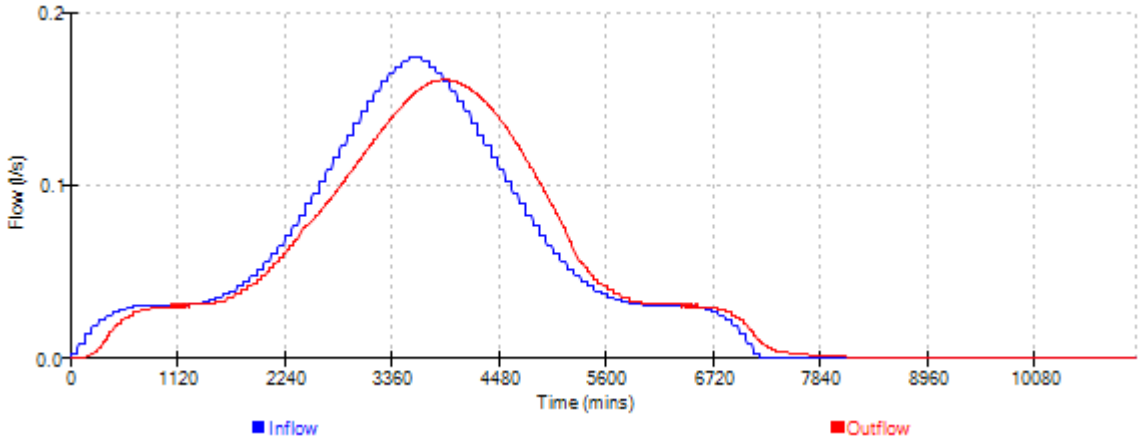


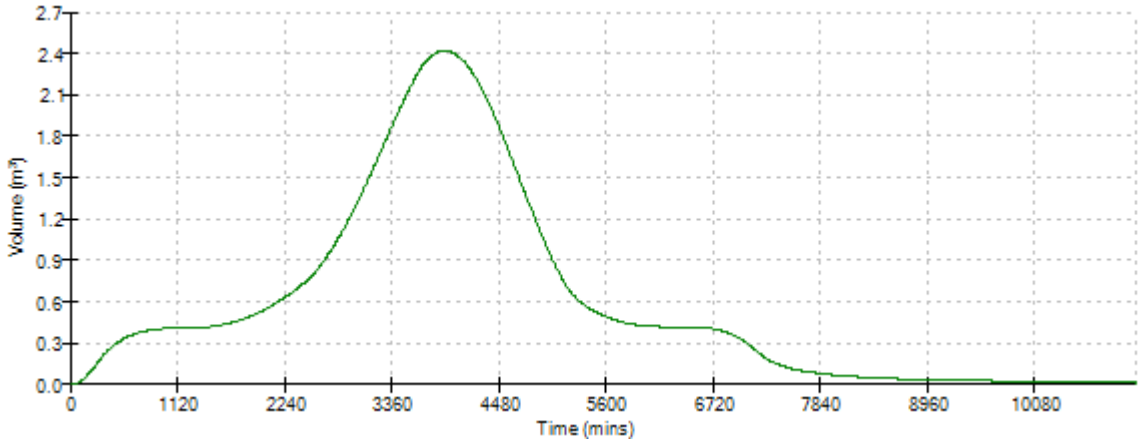


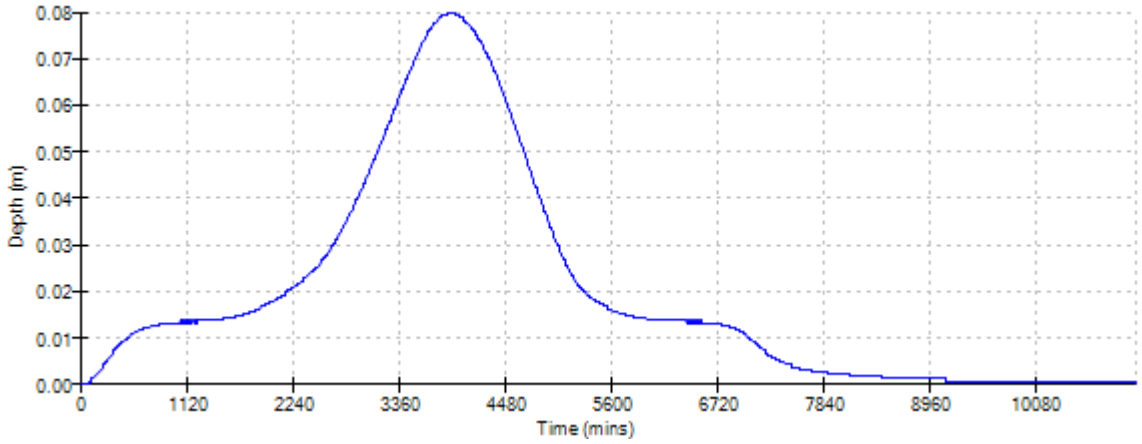


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Event: 7200 min Winter

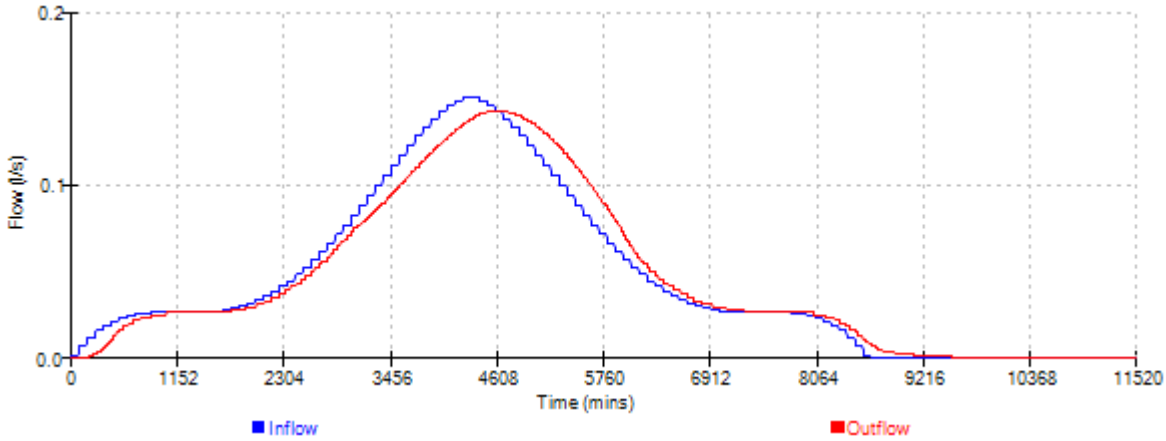


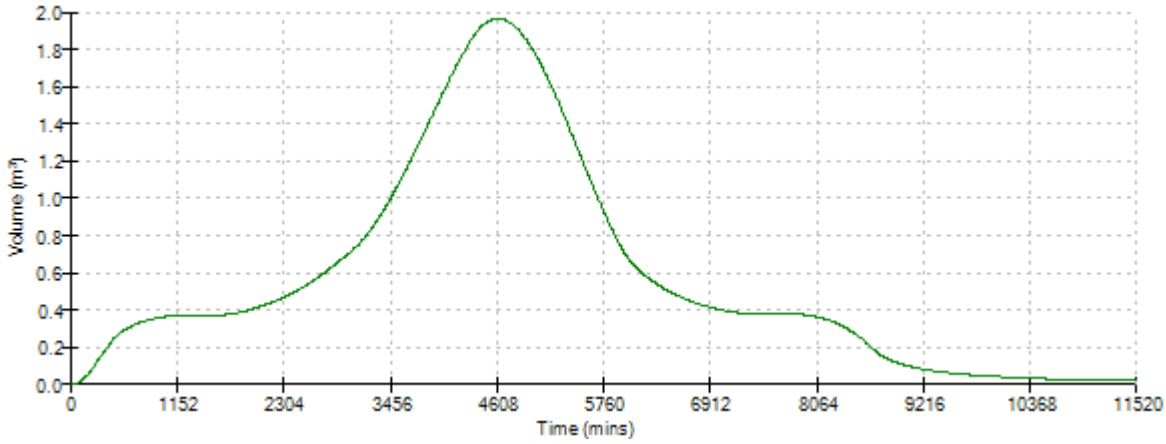


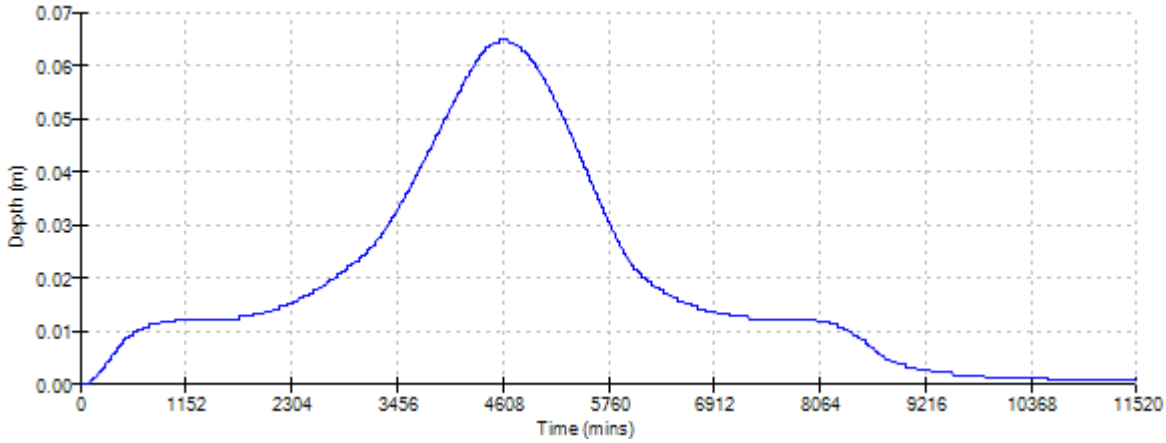


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Event: 8640 min Winter

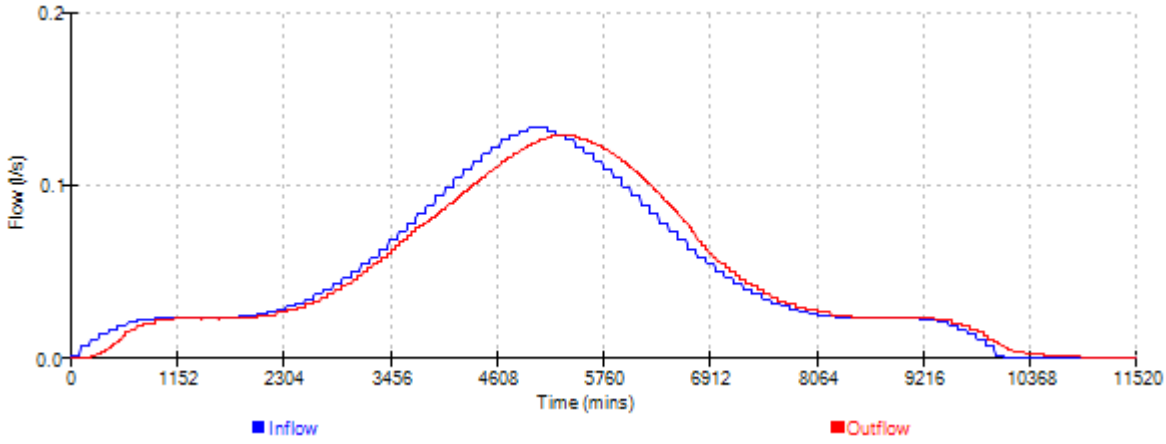


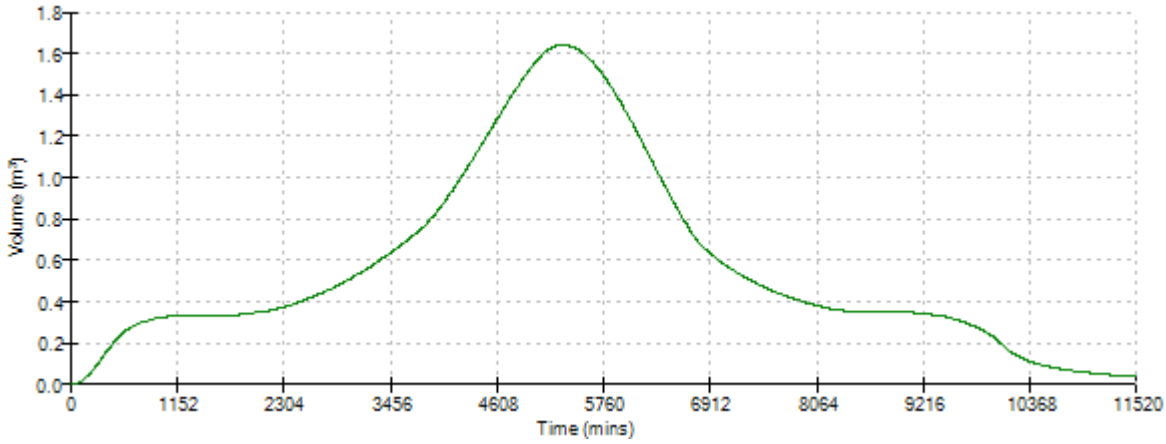


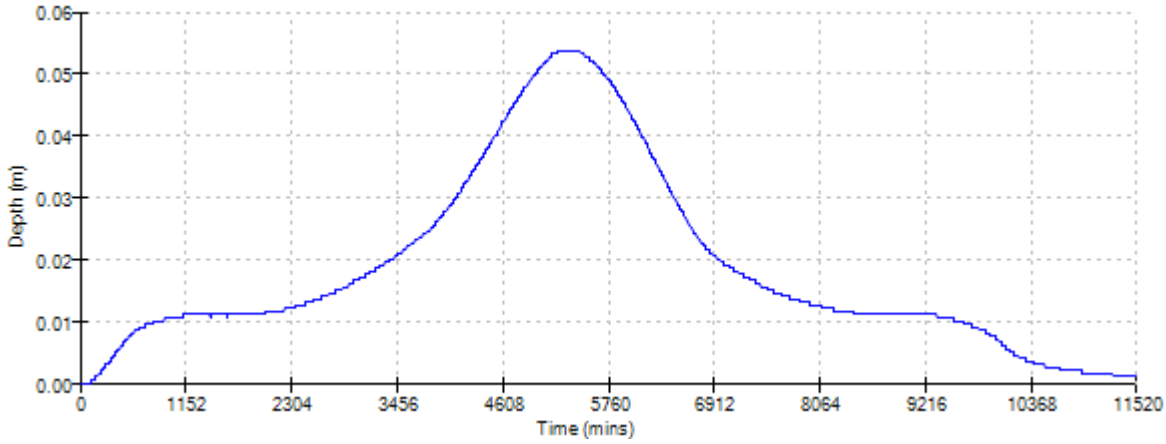


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Event: 10080 min Winter







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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

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Setting Out Information - True Coordinates (Storm)

PN	USMH Name	Dia/Len (mm)	Width (mm)	US Easting (m)	US Northing (m)	Layout (North)
1.000	RE1	110				
1.001	S1	600				
2.000	RE2	110				
2.001	S2	600				
1.002	S3	600				
1.003	S4	600				
1.004	RAIN GARDEN	600				

PN	DSMH Name	Dia/Len (mm)	Width (mm)	DS Easting (m)	DS Northing (m)	Layout (North)
1.004	Dummy	600				

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Setting Out Information - Site Coordinates (Storm)

PN	USMH Name	Dia/Len (mm)	Width (mm)	US Easting (m)	US Northing (m)	Layout (North)
1.000	RE1	110				
1.001	S1	600				
2.000	RE2	110				
2.001	S2	600				
1.002	S3	600				
1.003	S4	600				
1.004	RAIN GARDEN	600				

PN	DSMH Name	Dia/Len (mm)	Width (mm)	DS Easting (m)	DS Northing (m)	Layout (North)
1.004	Dummy	600				

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

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Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	30	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	15
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 15 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.422	-0.088	0.000	0.09	0.0	2.2	OK
1.001	S1	63.604	0.000	0.000	0.68	0.0	4.6	SURCHARGED
2.000	RE2	65.424	-0.086	0.000	0.11	0.0	2.2	OK
2.001	S2	65.029	-0.081	0.000	0.16	0.0	4.6	OK
1.002	S3	63.580	0.026	0.000	1.27	0.0	9.1	SURCHARGED
1.003	S4	63.382	0.022	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.237	0.027	0.000	0.00	0.0	0.0	SURCHARGED

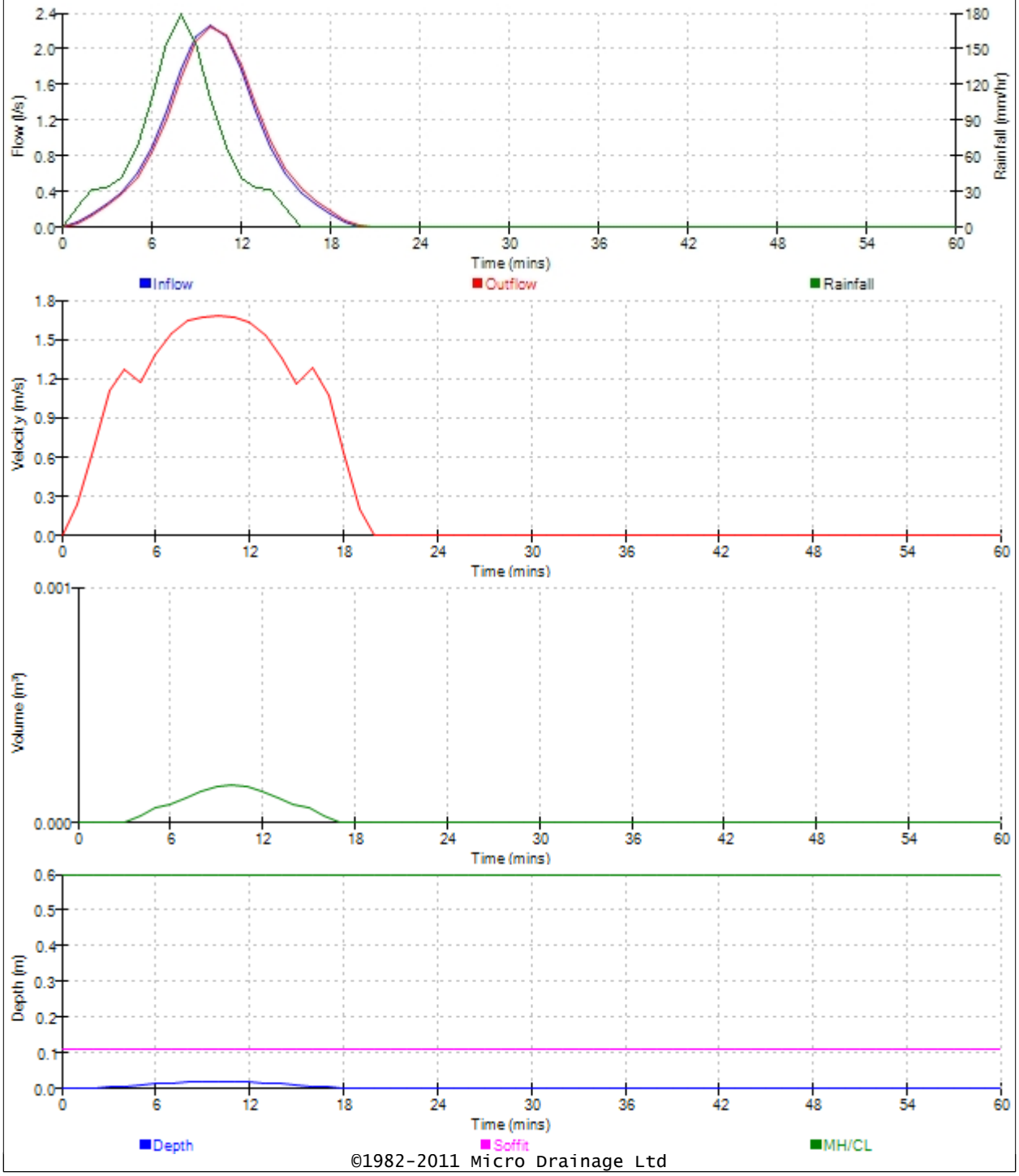
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Rainfall Hyetograph for 15 minute 30 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	17.186	4	41.348	7	154.121	10	108.286	13	32.664
2	31.361	5	66.928	8	179.023	11	66.928	14	31.361
3	32.664	6	108.286	9	154.121	12	41.348	15	17.186

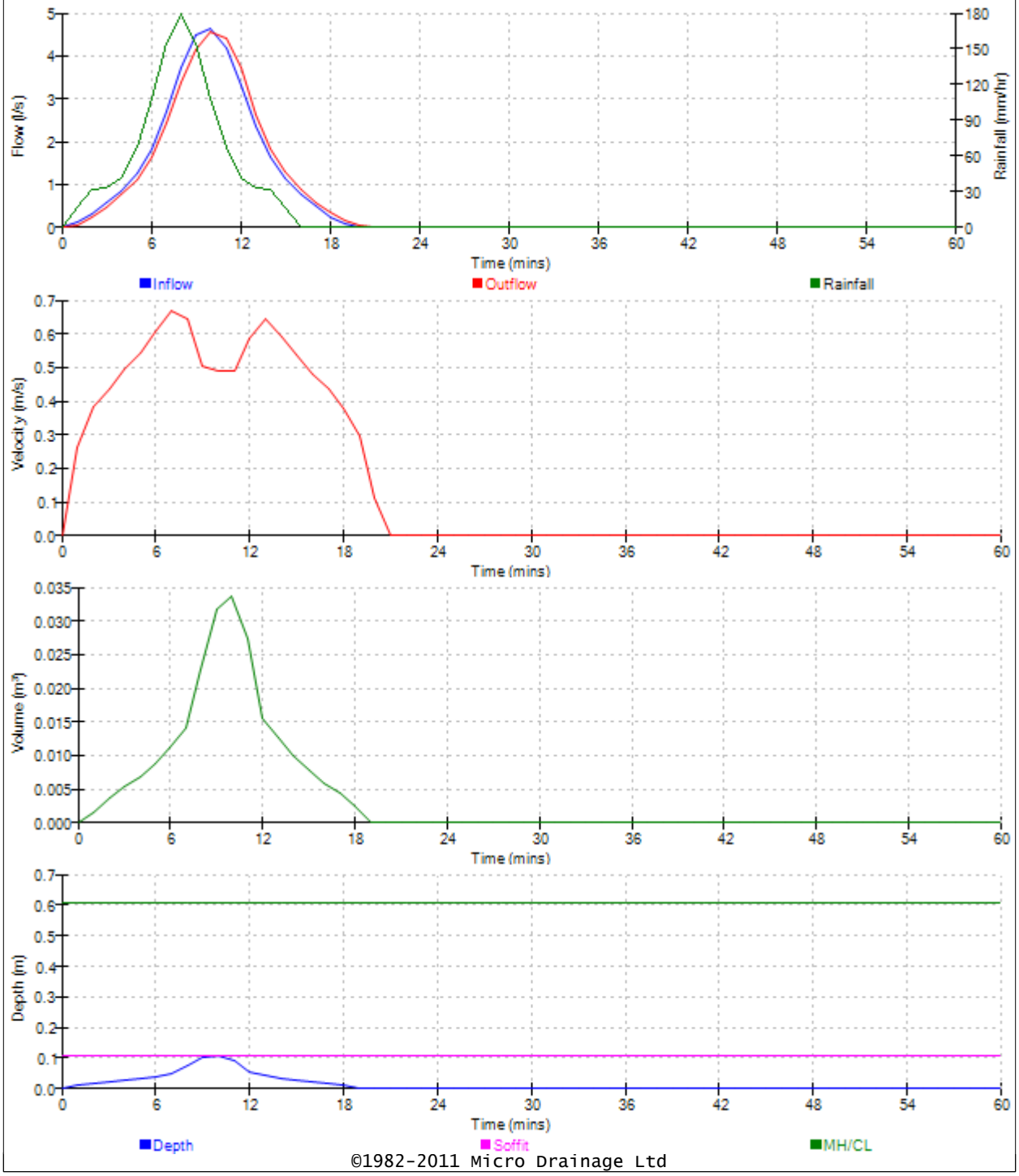
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
15 minute 30 year Winter
Status: OK



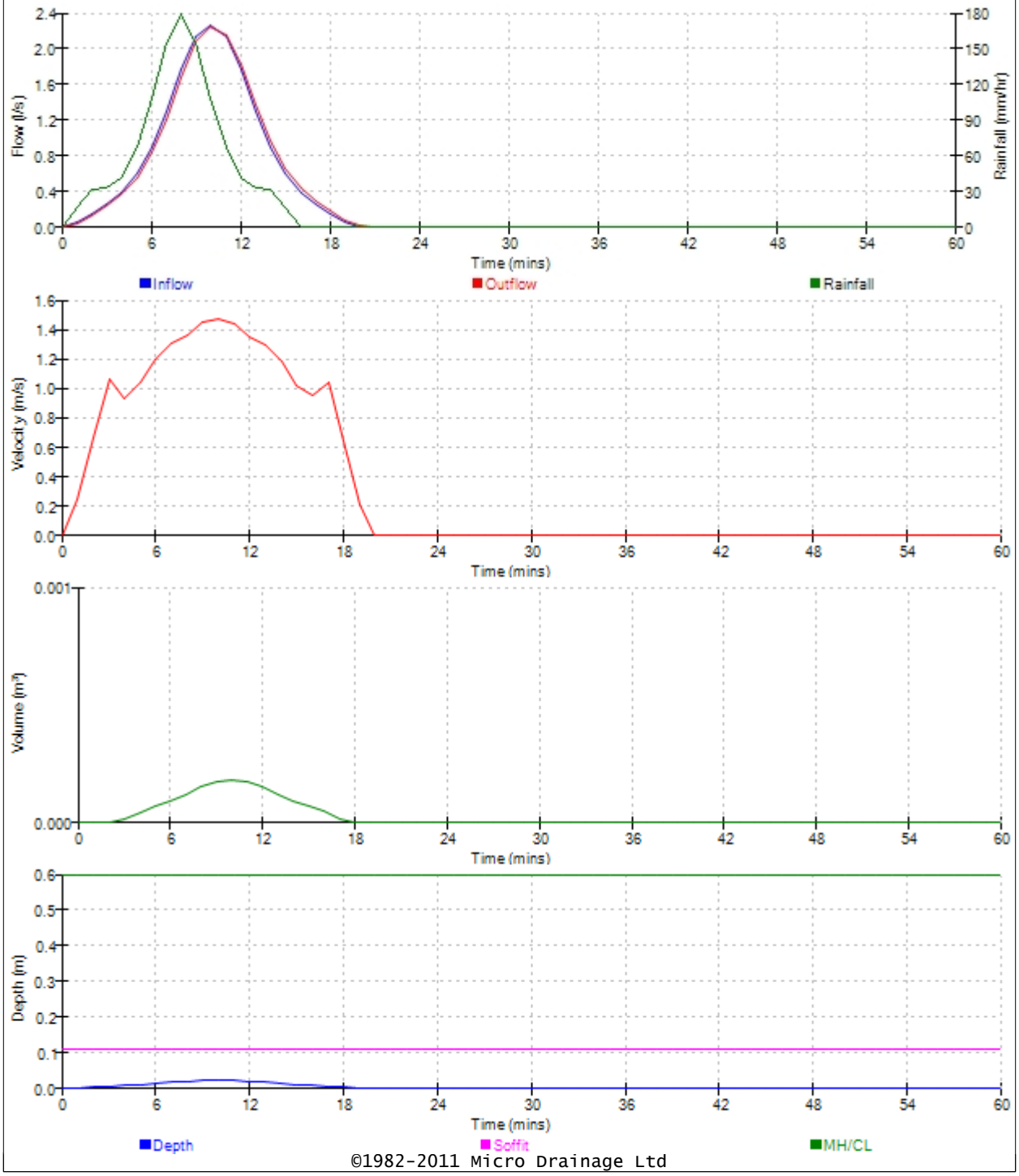
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Graphs for Pipe 1.001 US/MH S1 (Storm)
15 minute 30 year Winter
Status: SURCHARGED



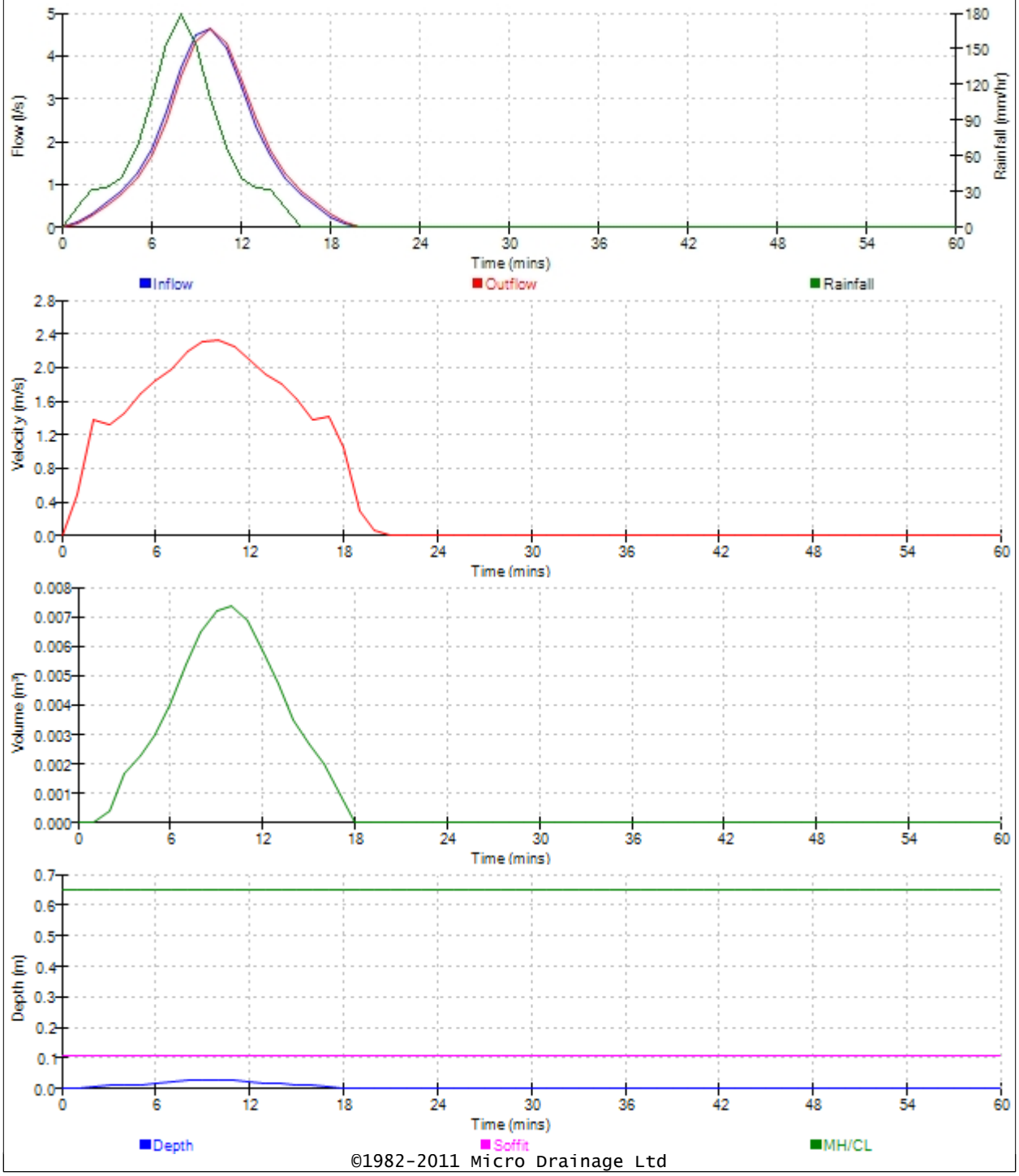
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
15 minute 30 year Winter
Status: OK



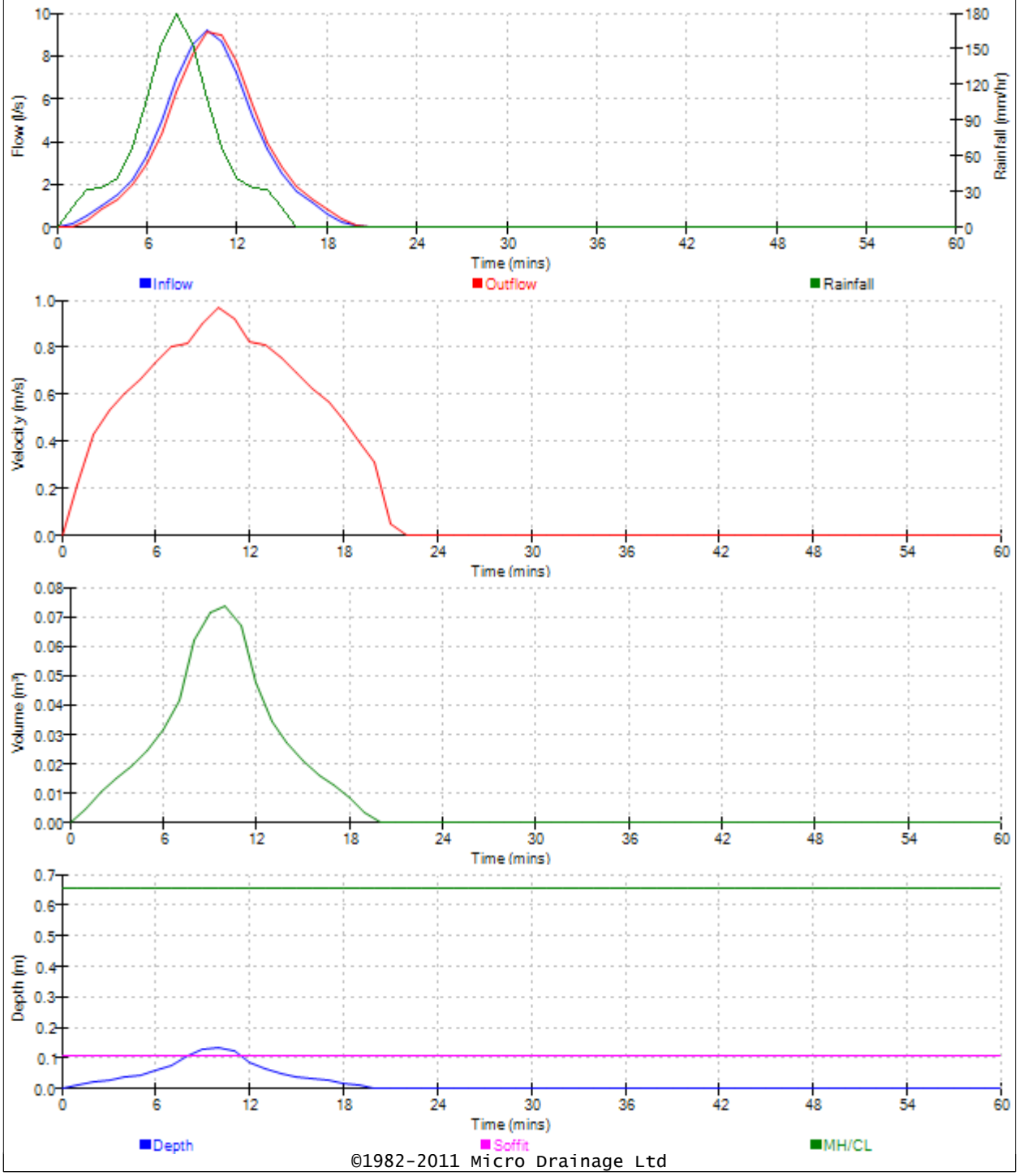
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Graphs for Pipe 2.001 US/MH S2 (Storm)
15 minute 30 year Winter
Status: OK



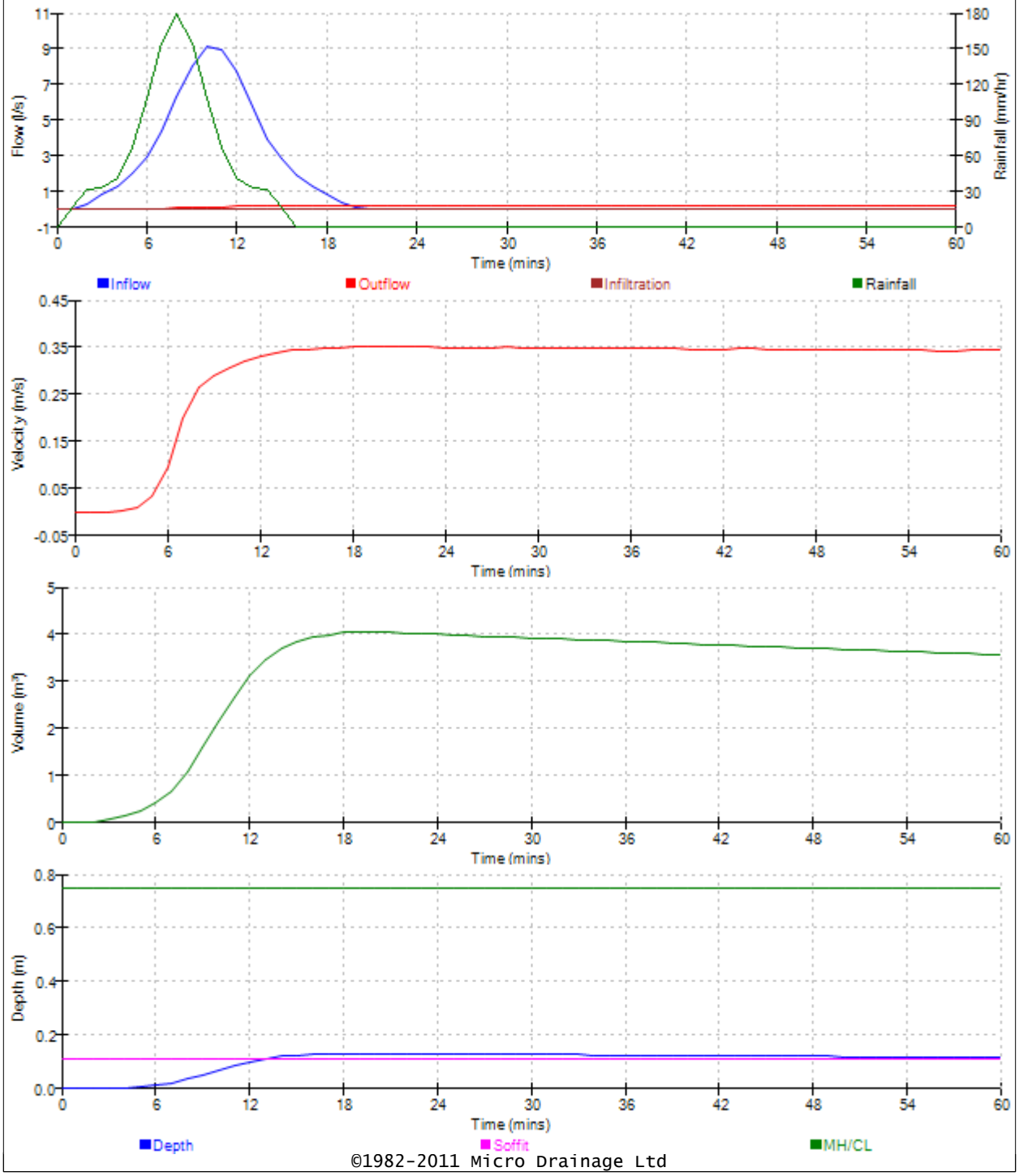
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Graphs for Pipe 1.002 US/MH S3 (Storm)
15 minute 30 year Winter
Status: SURCHARGED



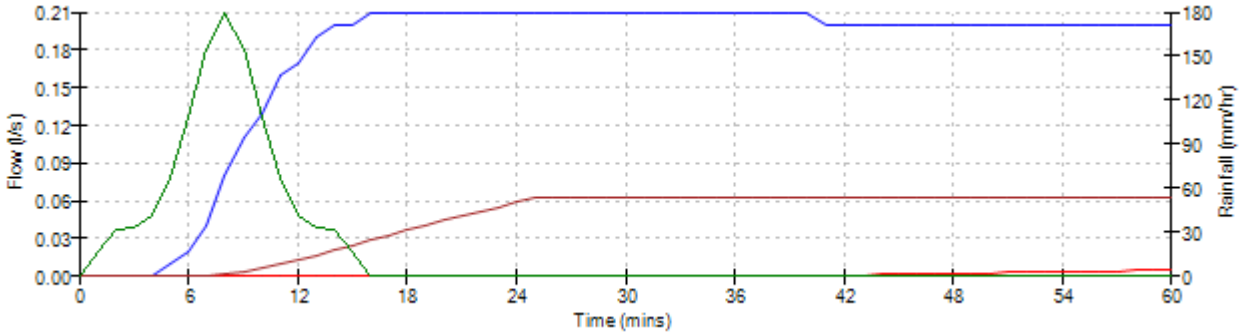
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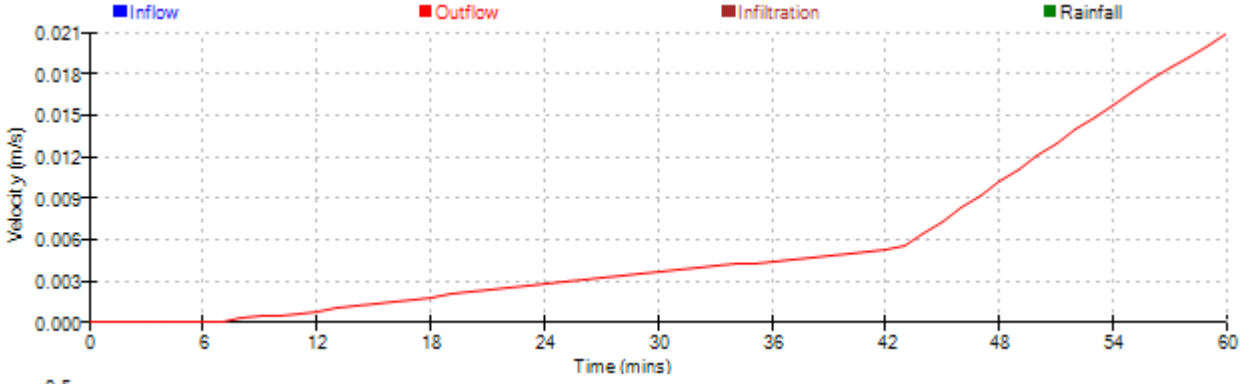
Graphs for Pipe 1.003 US/MH S4 (Storm)
15 minute 30 year Winter
Status: SURCHARGED

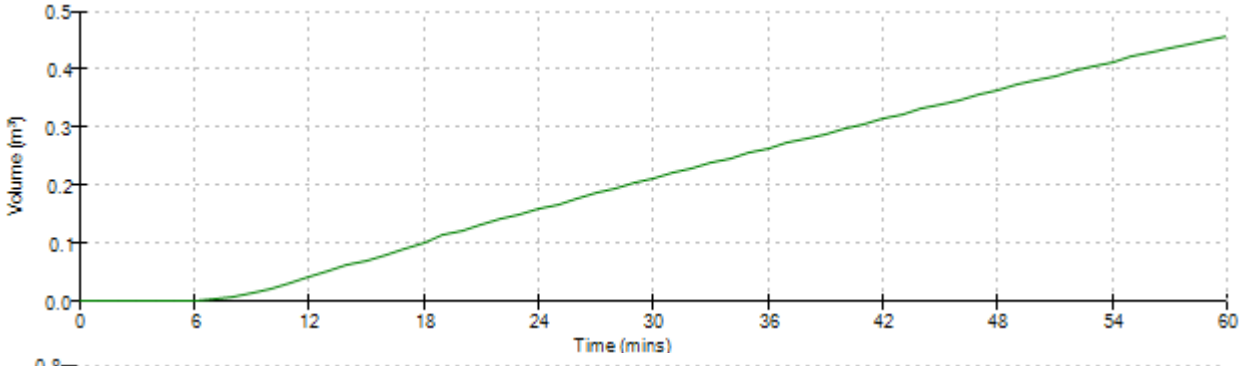


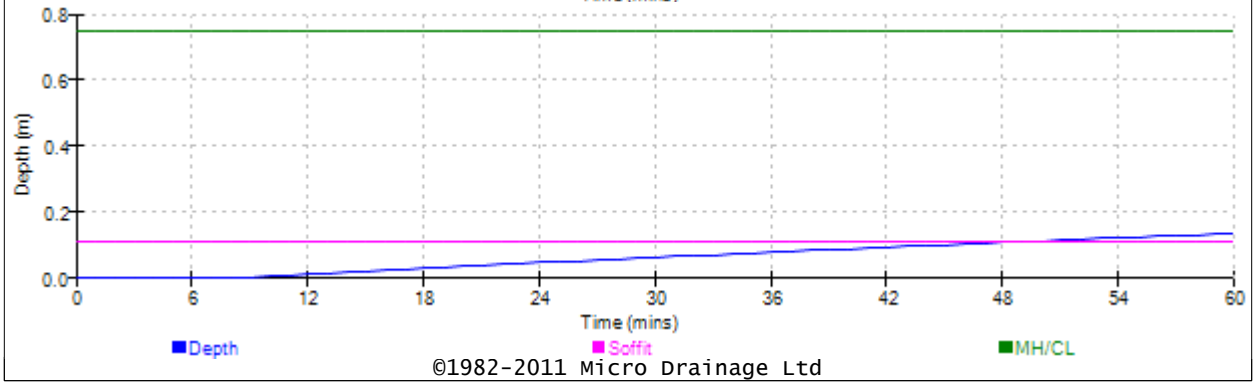
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 30 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	63.504	-0.109	0.0	0.2	0.0
2	65.403	63.511	-0.107	0.0	0.7	0.1
3	65.405	63.516	-0.105	0.0	1.1	0.2
4	65.408	63.521	-0.102	0.0	1.3	0.4
5	65.411	63.527	-0.099	0.0	1.2	0.6
6	65.413	63.534	-0.097	0.0	1.4	0.8
7	65.416	63.543	-0.094	0.0	1.5	1.2
8	65.419	63.570	-0.091	0.0	1.6	1.7
9	65.421	63.599	-0.089	0.0	1.7	2.1
10	65.422	63.604	-0.088	0.0	1.7	2.2
11	65.421	63.585	-0.089	0.0	1.7	2.2
12	65.419	63.548	-0.091	0.0	1.6	1.8
13	65.416	63.539	-0.094	0.0	1.5	1.4
14	65.413	63.530	-0.097	0.0	1.4	1.0
15	65.411	63.524	-0.099	0.0	1.2	0.7
16	65.408	63.518	-0.102	0.0	1.3	0.4
17	65.405	63.513	-0.105	0.0	1.1	0.3
18	65.403	63.507	-0.107	0.0	0.6	0.2
19	65.401	63.498	-0.109	0.0	0.2	0.1
20	65.400	63.494	-0.110	0.0	0.0	0.0
21	65.400	63.494	-0.110	0.0	0.0	0.0
22	65.400	63.494	-0.110	0.0	0.0	0.0
23	65.400	63.494	-0.110	0.0	0.0	0.0
24	65.400	63.494	-0.110	0.0	0.0	0.0
25	65.400	63.494	-0.110	0.0	0.0	0.0
26	65.400	63.494	-0.110	0.0	0.0	0.0
27	65.400	63.494	-0.110	0.0	0.0	0.0
28	65.400	63.494	-0.110	0.0	0.0	0.0
29	65.400	63.494	-0.110	0.0	0.0	0.0
30	65.400	63.494	-0.110	0.0	0.0	0.0
31	65.400	63.494	-0.110	0.0	0.0	0.0
32	65.400	63.494	-0.110	0.0	0.0	0.0
33	65.400	63.494	-0.110	0.0	0.0	0.0
34	65.400	63.494	-0.110	0.0	0.0	0.0
35	65.400	63.494	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.504	63.457	-0.100	0.0	0.3	0.1
2	63.511	63.467	-0.094	0.0	0.4	0.2
3	63.516	63.474	-0.088	0.0	0.4	0.5
4	63.521	63.482	-0.083	0.0	0.5	0.8
5	63.527	63.491	-0.077	0.0	0.5	1.1
6	63.534	63.502	-0.070	0.0	0.6	1.7
7	63.543	63.519	-0.061	0.0	0.7	2.4
8	63.570	63.554	-0.034	0.0	0.6	3.4
9	63.599	63.576	-0.006	0.0	0.5	4.1
10	63.604	63.580	0.000	0.0	0.5	4.6
11	63.585	63.566	-0.019	0.0	0.5	4.4
12	63.548	63.529	-0.056	0.0	0.6	3.7
13	63.539	63.507	-0.066	0.0	0.6	2.6
14	63.530	63.494	-0.074	0.0	0.6	1.8
15	63.524	63.485	-0.080	0.0	0.5	1.3
16	63.518	63.476	-0.086	0.0	0.5	0.9
17	63.513	63.470	-0.091	0.0	0.4	0.6
18	63.507	63.463	-0.097	0.0	0.4	0.3
19	63.498	63.455	-0.106	0.0	0.3	0.1
20	63.494	63.447	-0.110	0.0	0.1	0.0
21	63.494	63.444	-0.110	0.0	0.0	0.0
22	63.494	63.444	-0.110	0.0	0.0	0.0
23	63.494	63.444	-0.110	0.0	0.0	0.0
24	63.494	63.444	-0.110	0.0	0.0	0.0
25	63.494	63.444	-0.110	0.0	0.0	0.0
26	63.494	63.444	-0.110	0.0	0.0	0.0
27	63.494	63.444	-0.110	0.0	0.0	0.0
28	63.494	63.444	-0.110	0.0	0.0	0.0
29	63.494	63.444	-0.110	0.0	0.0	0.0
30	63.494	63.444	-0.110	0.0	0.0	0.0
31	63.494	63.444	-0.110	0.0	0.0	0.0
32	63.494	63.444	-0.110	0.0	0.0	0.0
33	63.494	63.444	-0.110	0.0	0.0	0.0
34	63.494	63.444	-0.110	0.0	0.0	0.0
35	63.494	63.444	-0.110	0.0	0.0	0.0
36	63.494	63.444	-0.110	0.0	0.0	0.0
37	63.494	63.444	-0.110	0.0	0.0	0.0
38	63.494	63.444	-0.110	0.0	0.0	0.0
39	63.494	63.444	-0.110	0.0	0.0	0.0
40	63.494	63.444	-0.110	0.0	0.0	0.0
41	63.494	63.444	-0.110	0.0	0.0	0.0
42	63.494	63.444	-0.110	0.0	0.0	0.0
43	63.494	63.444	-0.110	0.0	0.0	0.0
44	63.494	63.444	-0.110	0.0	0.0	0.0
45	63.494	63.444	-0.110	0.0	0.0	0.0
46	63.494	63.444	-0.110	0.0	0.0	0.0
47	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
49	63.494	63.444	-0.110	0.0	0.0	0.0
50	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.444	-0.110	0.0	0.0	0.0
52	63.494	63.444	-0.110	0.0	0.0	0.0
53	63.494	63.444	-0.110	0.0	0.0	0.0
54	63.494	63.444	-0.110	0.0	0.0	0.0
55	63.494	63.444	-0.110	0.0	0.0	0.0
56	63.494	63.444	-0.110	0.0	0.0	0.0
57	63.494	63.444	-0.110	0.0	0.0	0.0
58	63.494	63.444	-0.110	0.0	0.0	0.0
59	63.494	63.444	-0.110	0.0	0.0	0.0
60	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	65.002	-0.109	0.0	0.2	0.0
2	65.404	65.006	-0.106	0.0	0.7	0.1
3	65.407	65.010	-0.103	0.0	1.1	0.2
4	65.410	65.012	-0.100	0.0	0.9	0.4
5	65.412	65.015	-0.098	0.0	1.0	0.6
6	65.415	65.018	-0.095	0.0	1.2	0.8
7	65.418	65.023	-0.092	0.0	1.3	1.2
8	65.421	65.026	-0.089	0.0	1.4	1.7
9	65.423	65.029	-0.087	0.0	1.4	2.1
10	65.424	65.029	-0.086	0.0	1.5	2.2
11	65.423	65.027	-0.087	0.0	1.4	2.2
12	65.421	65.024	-0.089	0.0	1.4	1.8
13	65.418	65.020	-0.092	0.0	1.3	1.4
14	65.415	65.016	-0.095	0.0	1.2	1.0
15	65.412	65.014	-0.098	0.0	1.0	0.7
16	65.410	65.012	-0.100	0.0	1.0	0.4
17	65.407	65.008	-0.103	0.0	1.0	0.3
18	65.404	65.004	-0.106	0.0	0.6	0.2
19	65.401	65.001	-0.109	0.0	0.2	0.1
20	65.400	65.000	-0.110	0.0	0.0	0.0
21	65.400	65.000	-0.110	0.0	0.0	0.0
22	65.400	65.000	-0.110	0.0	0.0	0.0
23	65.400	65.000	-0.110	0.0	0.0	0.0
24	65.400	65.000	-0.110	0.0	0.0	0.0
25	65.400	65.000	-0.110	0.0	0.0	0.0
26	65.400	65.000	-0.110	0.0	0.0	0.0
27	65.400	65.000	-0.110	0.0	0.0	0.0
28	65.400	65.000	-0.110	0.0	0.0	0.0
29	65.400	65.000	-0.110	0.0	0.0	0.0
30	65.400	65.000	-0.110	0.0	0.0	0.0
31	65.400	65.000	-0.110	0.0	0.0	0.0
32	65.400	65.000	-0.110	0.0	0.0	0.0
33	65.400	65.000	-0.110	0.0	0.0	0.0
34	65.400	65.000	-0.110	0.0	0.0	0.0
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.002	63.457	-0.108	0.0	0.5	0.1
2	65.006	63.467	-0.104	0.0	1.4	0.3
3	65.010	63.474	-0.100	0.0	1.3	0.5
4	65.012	63.482	-0.098	0.0	1.5	0.8
5	65.015	63.491	-0.095	0.0	1.7	1.1
6	65.018	63.502	-0.092	0.0	1.8	1.7
7	65.023	63.519	-0.087	0.0	2.0	2.5
8	65.026	63.554	-0.084	0.0	2.2	3.5
9	65.029	63.576	-0.081	0.0	2.3	4.4
10	65.029	63.580	-0.081	0.0	2.3	4.6
11	65.027	63.566	-0.083	0.0	2.3	4.3
12	65.024	63.529	-0.086	0.0	2.1	3.5
13	65.020	63.507	-0.090	0.0	1.9	2.6
14	65.016	63.494	-0.094	0.0	1.8	1.8
15	65.014	63.485	-0.096	0.0	1.6	1.3
16	65.012	63.476	-0.098	0.0	1.4	0.8
17	65.008	63.470	-0.102	0.0	1.4	0.6
18	65.004	63.463	-0.106	0.0	1.1	0.3
19	65.001	63.455	-0.109	0.0	0.3	0.1
20	65.000	63.447	-0.110	0.0	0.1	0.0
21	65.000	63.444	-0.110	0.0	0.0	0.0
22	65.000	63.444	-0.110	0.0	0.0	0.0
23	65.000	63.444	-0.110	0.0	0.0	0.0
24	65.000	63.444	-0.110	0.0	0.0	0.0
25	65.000	63.444	-0.110	0.0	0.0	0.0
26	65.000	63.444	-0.110	0.0	0.0	0.0
27	65.000	63.444	-0.110	0.0	0.0	0.0
28	65.000	63.444	-0.110	0.0	0.0	0.0
29	65.000	63.444	-0.110	0.0	0.0	0.0
30	65.000	63.444	-0.110	0.0	0.0	0.0
31	65.000	63.444	-0.110	0.0	0.0	0.0
32	65.000	63.444	-0.110	0.0	0.0	0.0
33	65.000	63.444	-0.110	0.0	0.0	0.0
34	65.000	63.444	-0.110	0.0	0.0	0.0
35	65.000	63.444	-0.110	0.0	0.0	0.0
36	65.000	63.444	-0.110	0.0	0.0	0.0
37	65.000	63.444	-0.110	0.0	0.0	0.0
38	65.000	63.444	-0.110	0.0	0.0	0.0
39	65.000	63.444	-0.110	0.0	0.0	0.0
40	65.000	63.444	-0.110	0.0	0.0	0.0
41	65.000	63.444	-0.110	0.0	0.0	0.0
42	65.000	63.444	-0.110	0.0	0.0	0.0
43	65.000	63.444	-0.110	0.0	0.0	0.0
44	65.000	63.444	-0.110	0.0	0.0	0.0
45	65.000	63.444	-0.110	0.0	0.0	0.0
46	65.000	63.444	-0.110	0.0	0.0	0.0
47	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
49	65.000	63.444	-0.110	0.0	0.0	0.0
50	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.444	-0.110	0.0	0.0	0.0
52	65.000	63.444	-0.110	0.0	0.0	0.0
53	65.000	63.444	-0.110	0.0	0.0	0.0
54	65.000	63.444	-0.110	0.0	0.0	0.0
55	65.000	63.444	-0.110	0.0	0.0	0.0
56	65.000	63.444	-0.110	0.0	0.0	0.0
57	65.000	63.444	-0.110	0.0	0.0	0.0
58	65.000	63.444	-0.110	0.0	0.0	0.0
59	65.000	63.444	-0.110	0.0	0.0	0.0
60	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.457	63.250	-0.098	0.0	0.2	0.0
2	63.467	63.251	-0.087	0.0	0.4	0.3
3	63.474	63.252	-0.080	0.0	0.5	0.8
4	63.482	63.254	-0.073	0.0	0.6	1.3
5	63.491	63.258	-0.064	0.0	0.7	2.0
6	63.502	63.264	-0.052	0.0	0.7	3.0
7	63.519	63.272	-0.035	0.0	0.8	4.4
8	63.554	63.286	0.000	0.0	0.8	6.3
9	63.576	63.302	0.022	0.0	0.9	8.1
10	63.580	63.320	0.026	0.0	1.0	9.1
11	63.566	63.337	0.011	0.0	0.9	8.9
12	63.529	63.352	-0.025	0.0	0.8	7.8
13	63.507	63.363	-0.047	0.0	0.8	5.7
14	63.494	63.370	-0.060	0.0	0.8	4.0
15	63.485	63.375	-0.069	0.0	0.7	2.8
16	63.476	63.379	-0.078	0.0	0.6	1.9
17	63.470	63.380	-0.084	0.0	0.6	1.3
18	63.463	63.382	-0.091	0.0	0.5	0.8
19	63.455	63.382	-0.099	0.0	0.4	0.4
20	63.447	63.382	-0.107	0.0	0.3	0.1
21	63.444	63.382	-0.110	0.0	0.1	0.0
22	63.444	63.381	-0.110	0.0	0.0	0.0
23	63.444	63.381	-0.110	0.0	0.0	0.0
24	63.444	63.380	-0.110	0.0	0.0	0.0
25	63.444	63.380	-0.110	0.0	0.0	0.0
26	63.444	63.380	-0.110	0.0	0.0	0.0
27	63.444	63.379	-0.110	0.0	0.0	0.0
28	63.444	63.379	-0.110	0.0	0.0	0.0
29	63.444	63.378	-0.110	0.0	0.0	0.0
30	63.444	63.378	-0.110	0.0	0.0	0.0
31	63.444	63.378	-0.110	0.0	0.0	0.0
32	63.444	63.377	-0.110	0.0	0.0	0.0
33	63.444	63.377	-0.110	0.0	0.0	0.0
34	63.444	63.376	-0.110	0.0	0.0	0.0
35	63.444	63.376	-0.110	0.0	0.0	0.0
36	63.444	63.376	-0.110	0.0	0.0	0.0
37	63.444	63.375	-0.110	0.0	0.0	0.0
38	63.444	63.375	-0.110	0.0	0.0	0.0
39	63.444	63.374	-0.110	0.0	0.0	0.0
40	63.444	63.374	-0.110	0.0	0.0	0.0
41	63.444	63.374	-0.110	0.0	0.0	0.0
42	63.444	63.373	-0.110	0.0	0.0	0.0
43	63.444	63.373	-0.110	0.0	0.0	0.0
44	63.444	63.372	-0.110	0.0	0.0	0.0
45	63.444	63.372	-0.110	0.0	0.0	0.0
46	63.444	63.372	-0.110	0.0	0.0	0.0
47	63.444	63.371	-0.110	0.0	0.0	0.0
48	63.444	63.371	-0.110	0.0	0.0	0.0
49	63.444	63.370	-0.110	0.0	0.0	0.0
50	63.444	63.370	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.444	63.370	-0.110	0.0	0.0	0.0
52	63.444	63.369	-0.110	0.0	0.0	0.0
53	63.444	63.369	-0.110	0.0	0.0	0.0
54	63.444	63.368	-0.110	0.0	0.0	0.0
55	63.444	63.368	-0.110	0.0	0.0	0.0
56	63.444	63.368	-0.110	0.0	0.0	0.0
57	63.444	63.367	-0.110	0.0	0.0	0.0
58	63.444	63.367	-0.110	0.0	0.0	0.0
59	63.444	63.367	-0.110	0.0	0.0	0.0
60	63.444	63.366	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.251	63.100	-0.109	0.0	0.0	0.0
3	63.252	63.100	-0.108	0.0	0.0	0.0
4	63.254	63.100	-0.106	0.0	0.0	0.0
5	63.258	63.100	-0.102	0.0	0.0	0.0
6	63.264	63.100	-0.096	0.0	0.1	0.0
7	63.272	63.101	-0.088	0.0	0.2	0.0
8	63.286	63.103	-0.074	0.0	0.3	0.1
9	63.302	63.105	-0.058	0.0	0.3	0.1
10	63.320	63.107	-0.040	0.0	0.3	0.1
11	63.337	63.110	-0.023	0.0	0.3	0.2
12	63.352	63.113	-0.008	0.0	0.3	0.2
13	63.363	63.116	0.003	0.0	0.3	0.2
14	63.370	63.119	0.010	0.0	0.3	0.2
15	63.375	63.122	0.015	0.0	0.3	0.2
16	63.379	63.125	0.019	0.0	0.3	0.2
17	63.380	63.128	0.020	0.0	0.3	0.2
18	63.382	63.131	0.022	0.0	0.4	0.2
19	63.382	63.134	0.022	0.0	0.4	0.2
20	63.382	63.137	0.022	0.0	0.4	0.2
21	63.382	63.140	0.022	0.0	0.4	0.2
22	63.381	63.143	0.021	0.0	0.4	0.2
23	63.381	63.145	0.021	0.0	0.3	0.2
24	63.380	63.148	0.020	0.0	0.3	0.2
25	63.380	63.151	0.020	0.0	0.3	0.2
26	63.380	63.153	0.020	0.0	0.3	0.2
27	63.379	63.156	0.019	0.0	0.3	0.2
28	63.379	63.159	0.019	0.0	0.4	0.2
29	63.378	63.161	0.018	0.0	0.3	0.2
30	63.378	63.164	0.018	0.0	0.3	0.2
31	63.378	63.166	0.018	0.0	0.3	0.2
32	63.377	63.169	0.017	0.0	0.3	0.2
33	63.377	63.172	0.017	0.0	0.3	0.2
34	63.376	63.174	0.016	0.0	0.3	0.2
35	63.376	63.177	0.016	0.0	0.3	0.2
36	63.376	63.179	0.016	0.0	0.3	0.2
37	63.375	63.182	0.015	0.0	0.3	0.2
38	63.375	63.184	0.015	0.0	0.3	0.2
39	63.374	63.187	0.014	0.0	0.3	0.2
40	63.374	63.189	0.014	0.0	0.3	0.2
41	63.374	63.192	0.014	0.0	0.3	0.2
42	63.373	63.194	0.013	0.0	0.3	0.2
43	63.373	63.197	0.013	0.0	0.3	0.2
44	63.372	63.199	0.012	0.0	0.3	0.2
45	63.372	63.202	0.012	0.0	0.3	0.2
46	63.372	63.204	0.012	0.0	0.3	0.2
47	63.371	63.207	0.011	0.0	0.3	0.2
48	63.371	63.209	0.011	0.0	0.3	0.2
49	63.370	63.212	0.010	0.0	0.3	0.2
50	63.370	63.214	0.010	0.0	0.3	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.370	63.217	0.010	0.0	0.3	0.2
52	63.369	63.219	0.009	0.0	0.3	0.2
53	63.369	63.221	0.009	0.0	0.3	0.2
54	63.368	63.224	0.008	0.0	0.3	0.2
55	63.368	63.226	0.008	0.0	0.3	0.2
56	63.368	63.229	0.008	0.0	0.3	0.2
57	63.367	63.231	0.007	0.0	0.3	0.2
58	63.367	63.232	0.007	0.0	0.3	0.2
59	63.367	63.235	0.007	0.0	0.3	0.2
60	63.366	63.237	0.006	0.0	0.3	0.2

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
7	63.101	63.096	-0.109	0.0	0.0	0.0
8	63.103	63.096	-0.107	0.0	0.0	0.0
9	63.105	63.096	-0.105	0.0	0.0	0.0
10	63.107	63.096	-0.103	0.0	0.0	0.0
11	63.110	63.096	-0.100	0.0	0.0	0.0
12	63.113	63.096	-0.097	0.0	0.0	0.0
13	63.116	63.096	-0.094	0.0	0.0	0.0
14	63.119	63.096	-0.091	0.0	0.0	0.0
15	63.122	63.096	-0.088	0.0	0.0	0.0
16	63.125	63.096	-0.085	0.0	0.0	0.0
17	63.128	63.096	-0.082	0.0	0.0	0.0
18	63.131	63.096	-0.079	0.0	0.0	0.0
19	63.134	63.096	-0.076	0.0	0.0	0.0
20	63.137	63.096	-0.073	0.0	0.0	0.0
21	63.140	63.096	-0.070	0.0	0.0	0.0
22	63.143	63.096	-0.067	0.0	0.0	0.0
23	63.145	63.096	-0.065	0.0	0.0	0.0
24	63.148	63.096	-0.062	0.0	0.0	0.0
25	63.151	63.096	-0.059	0.0	0.0	0.0
26	63.153	63.096	-0.057	0.0	0.0	0.0
27	63.156	63.096	-0.054	0.0	0.0	0.0
28	63.159	63.096	-0.051	0.0	0.0	0.0
29	63.161	63.096	-0.049	0.0	0.0	0.0
30	63.164	63.096	-0.046	0.0	0.0	0.0
31	63.166	63.096	-0.044	0.0	0.0	0.0
32	63.169	63.096	-0.041	0.0	0.0	0.0
33	63.172	63.096	-0.038	0.0	0.0	0.0
34	63.174	63.096	-0.036	0.0	0.0	0.0
35	63.177	63.096	-0.033	0.0	0.0	0.0
36	63.179	63.096	-0.031	0.0	0.0	0.0
37	63.182	63.096	-0.028	0.0	0.0	0.0
38	63.184	63.096	-0.026	0.0	0.0	0.0
39	63.187	63.096	-0.023	0.0	0.0	0.0
40	63.189	63.096	-0.021	0.0	0.0	0.0
41	63.192	63.096	-0.018	0.0	0.0	0.0
42	63.194	63.096	-0.016	0.0	0.0	0.0
43	63.197	63.096	-0.013	0.0	0.0	0.0
44	63.199	63.096	-0.011	0.0	0.0	0.0
45	63.202	63.096	-0.008	0.0	0.0	0.0
46	63.204	63.096	-0.006	0.0	0.0	0.0
47	63.207	63.096	-0.003	0.0	0.0	0.0
48	63.209	63.096	-0.001	0.0	0.0	0.0
49	63.212	63.096	0.002	0.0	0.0	0.0
50	63.214	63.096	0.004	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 30 year Winter
Average Rainfall Intensity 72.187 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.217	63.096	0.007	0.0	0.0	0.0
52	63.219	63.096	0.009	0.0	0.0	0.0
53	63.221	63.096	0.011	0.0	0.0	0.0
54	63.224	63.096	0.014	0.0	0.0	0.0
55	63.226	63.096	0.016	0.0	0.0	0.0
56	63.229	63.096	0.019	0.0	0.0	0.0
57	63.231	63.096	0.021	0.0	0.0	0.0
58	63.232	63.096	0.022	0.0	0.0	0.0
59	63.235	63.096	0.025	0.0	0.0	0.0
60	63.237	63.096	0.027	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	30	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	360
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 360 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.407	-0.103	0.000	0.01	0.0	0.3	OK
1.001	S1	63.551	-0.053	0.000	0.10	0.0	0.7	OK
2.000	RE2	65.409	-0.101	0.000	0.02	0.0	0.3	OK
2.001	S2	65.011	-0.099	0.000	0.02	0.0	0.7	OK
1.002	S3	63.551	-0.003	0.000	0.19	0.0	1.4	OK
1.003	S4	63.551	0.191	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.490	0.280	0.000	0.00	0.0	0.0	SURCHARGED

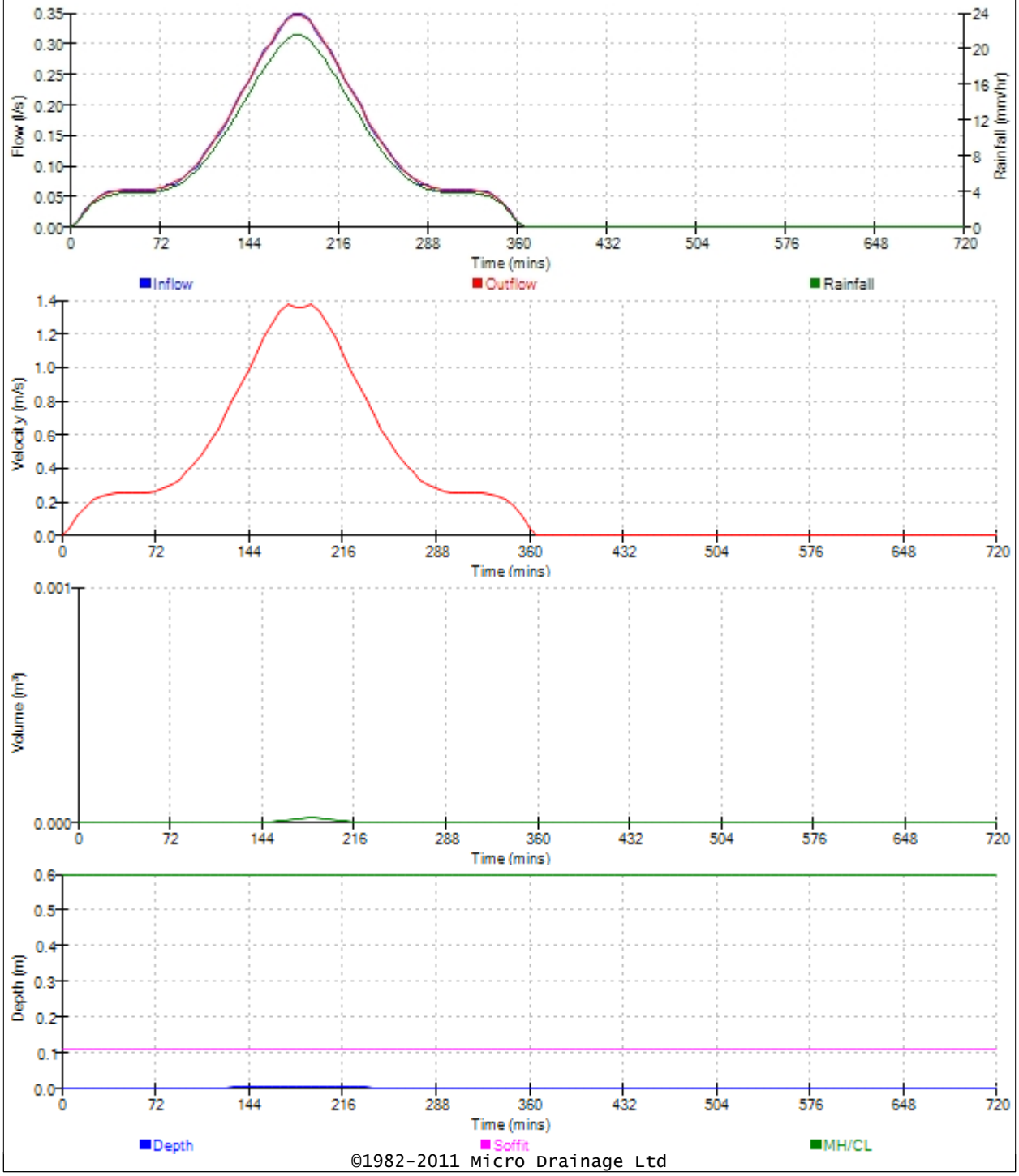
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Rainfall Hyetograph for 360 minute 30 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6	0.609	78	4.253	150	16.418	222	14.901	294	4.000
12	1.751	84	4.596	156	17.711	228	13.540	300	3.875
18	2.589	90	5.052	162	18.916	234	12.199	306	3.817
24	3.208	96	5.722	168	20.099	240	10.752	312	3.809
30	3.537	102	6.460	174	20.938	246	9.549	318	3.817
36	3.724	108	7.319	180	21.543	252	8.435	324	3.806
42	3.806	114	8.435	186	21.543	258	7.319	330	3.724
48	3.817	120	9.549	192	20.938	264	6.460	336	3.537
54	3.809	126	10.752	198	20.099	270	5.722	342	3.208
60	3.817	132	12.199	204	18.916	276	5.052	348	2.589
66	3.875	138	13.540	210	17.711	282	4.596	354	1.751
72	4.000	144	14.901	216	16.418	288	4.253	360	0.609

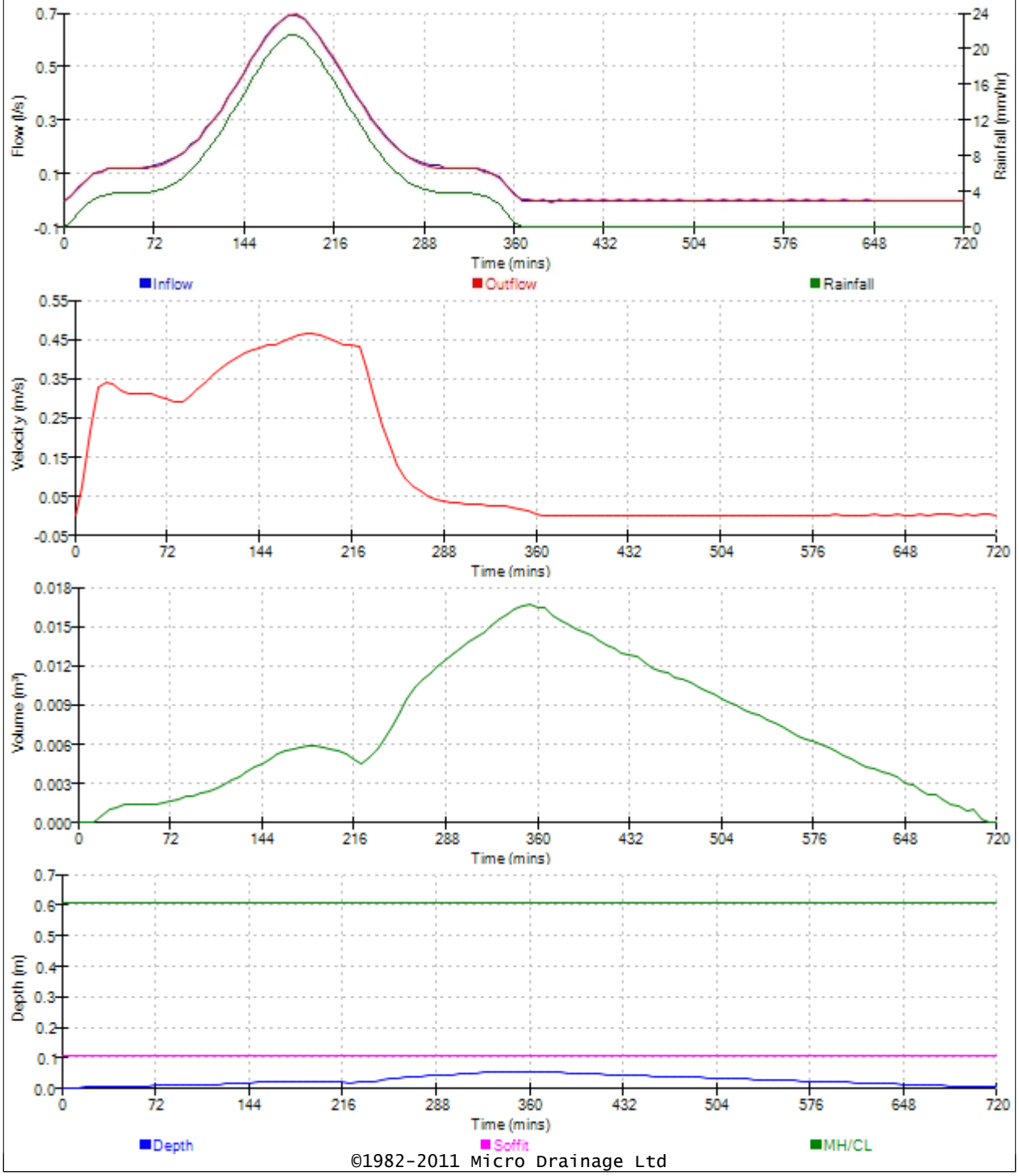
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
360 minute 30 year Winter
Status: OK



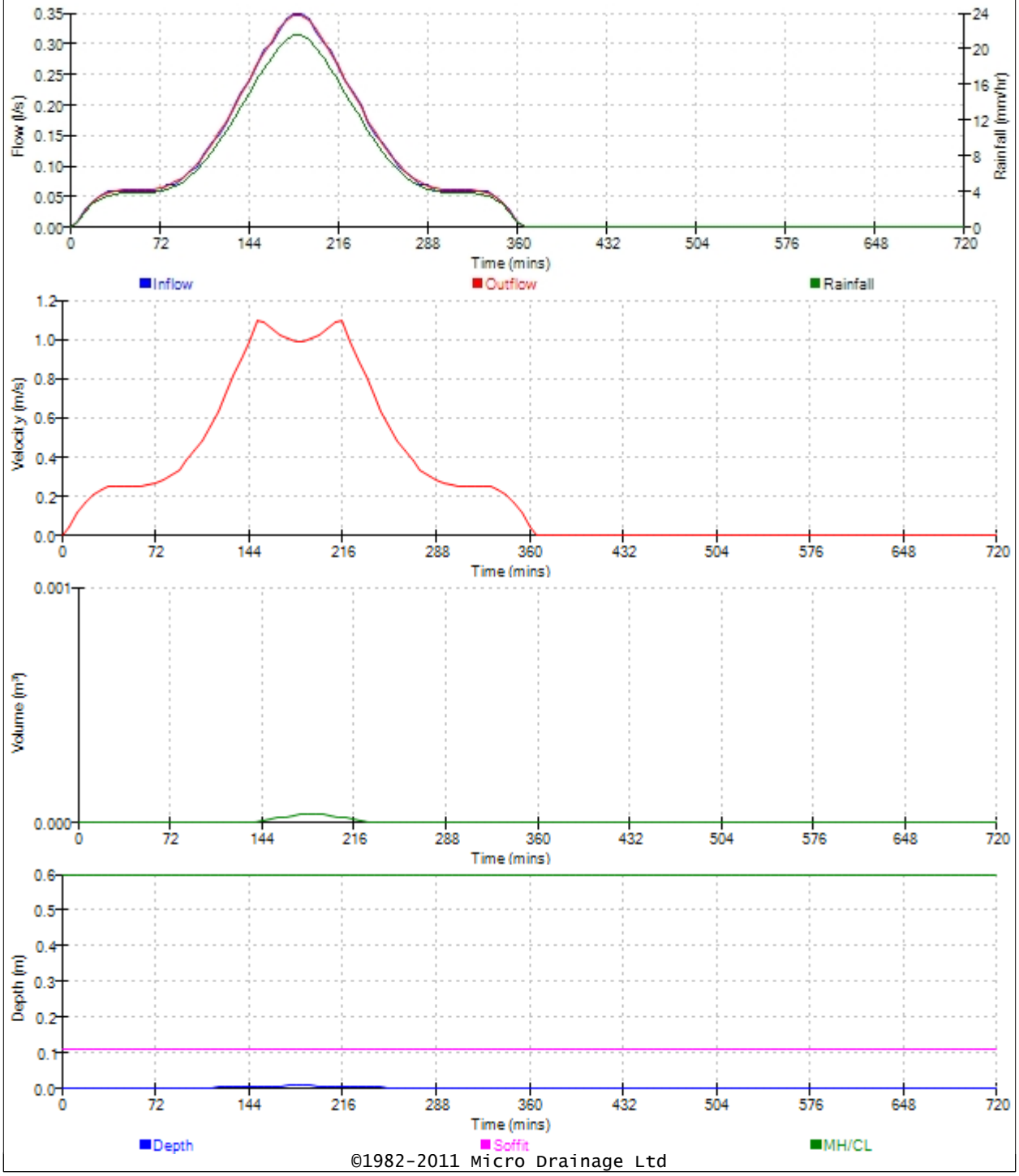
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Graphs for Pipe 1.001 US/MH S1 (Storm)
360 minute 30 year Winter
Status: OK



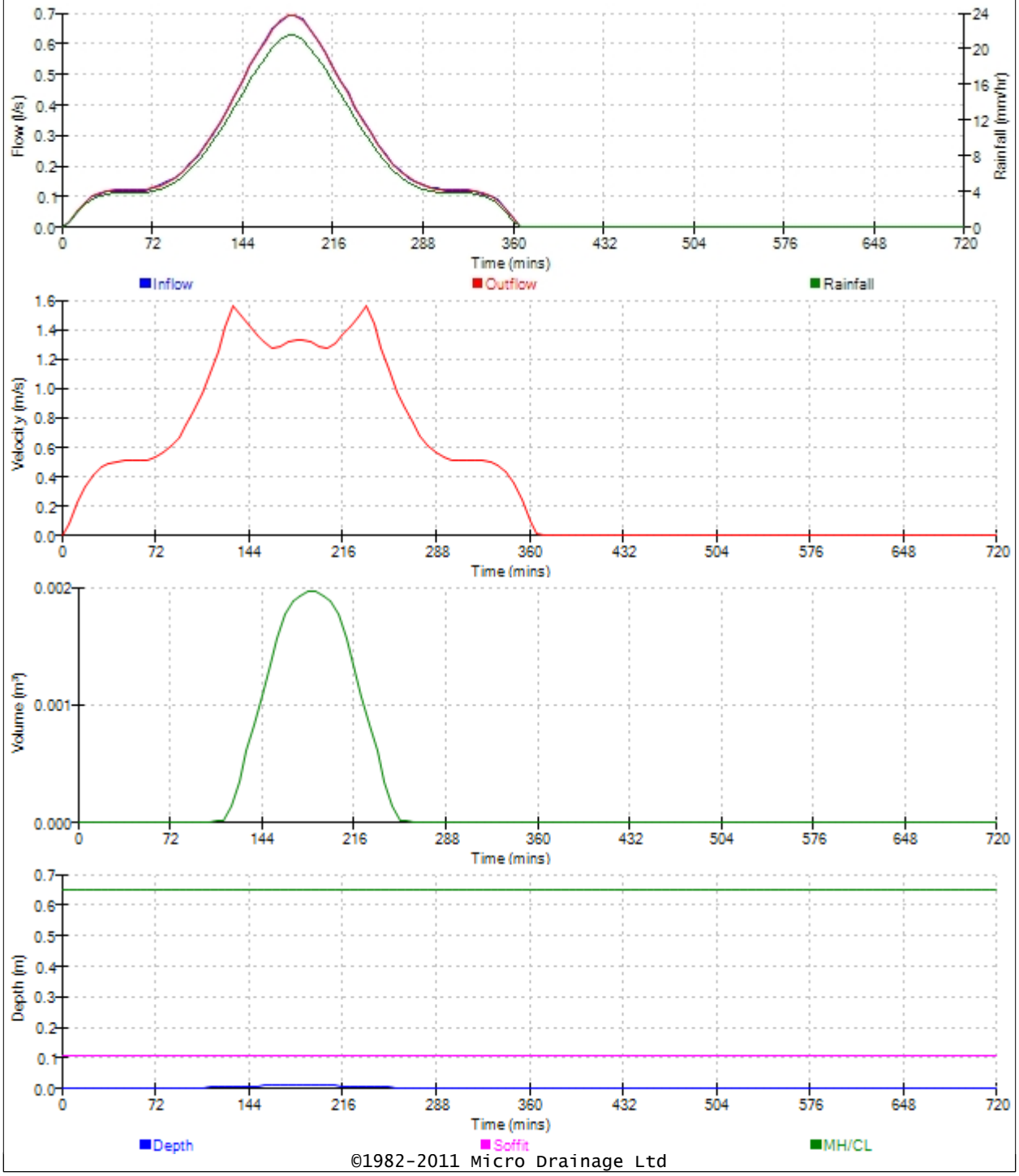
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
360 minute 30 year Winter
Status: OK



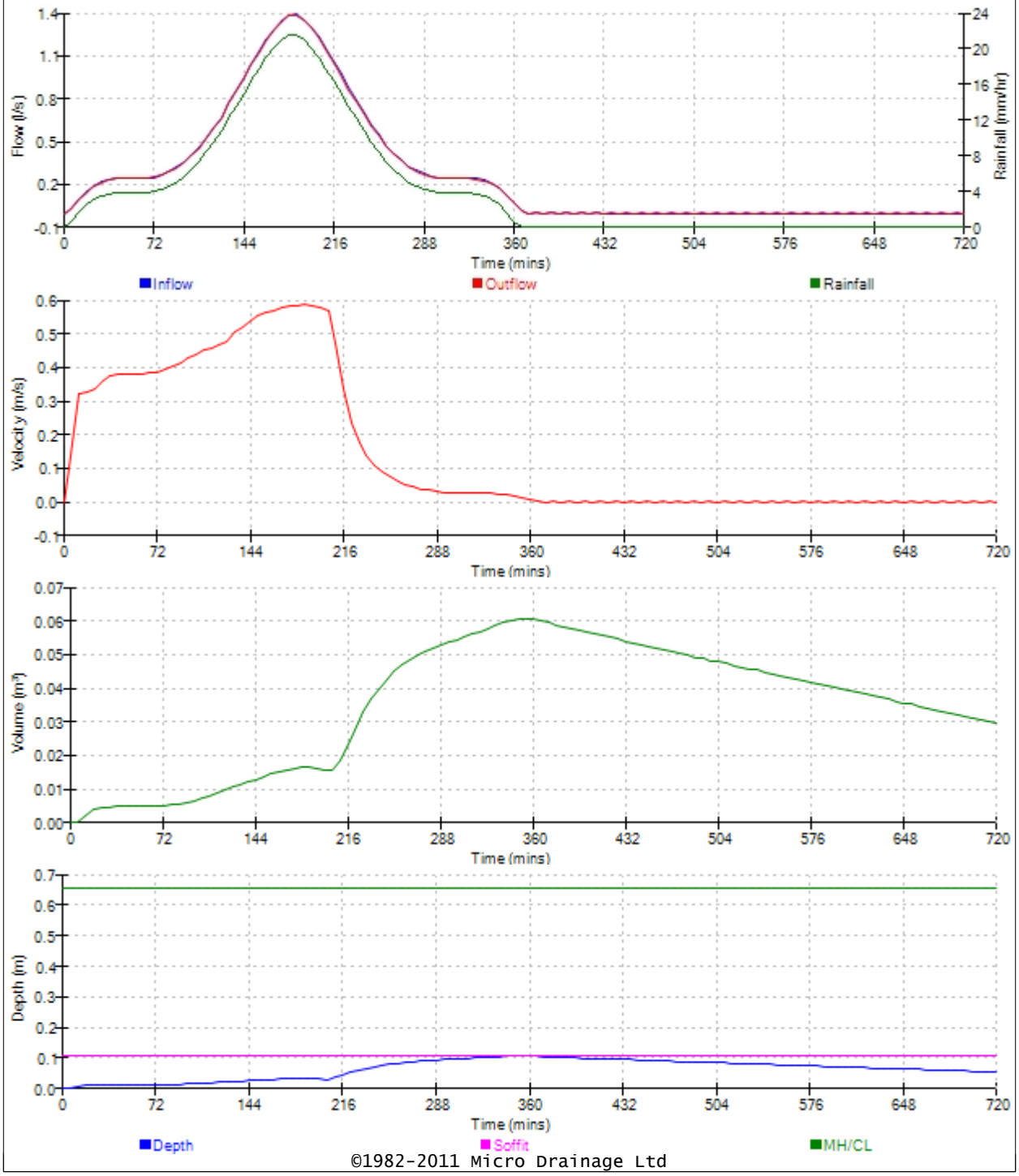
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Graphs for Pipe 2.001 US/MH S2 (Storm)
360 minute 30 year Winter
Status: OK



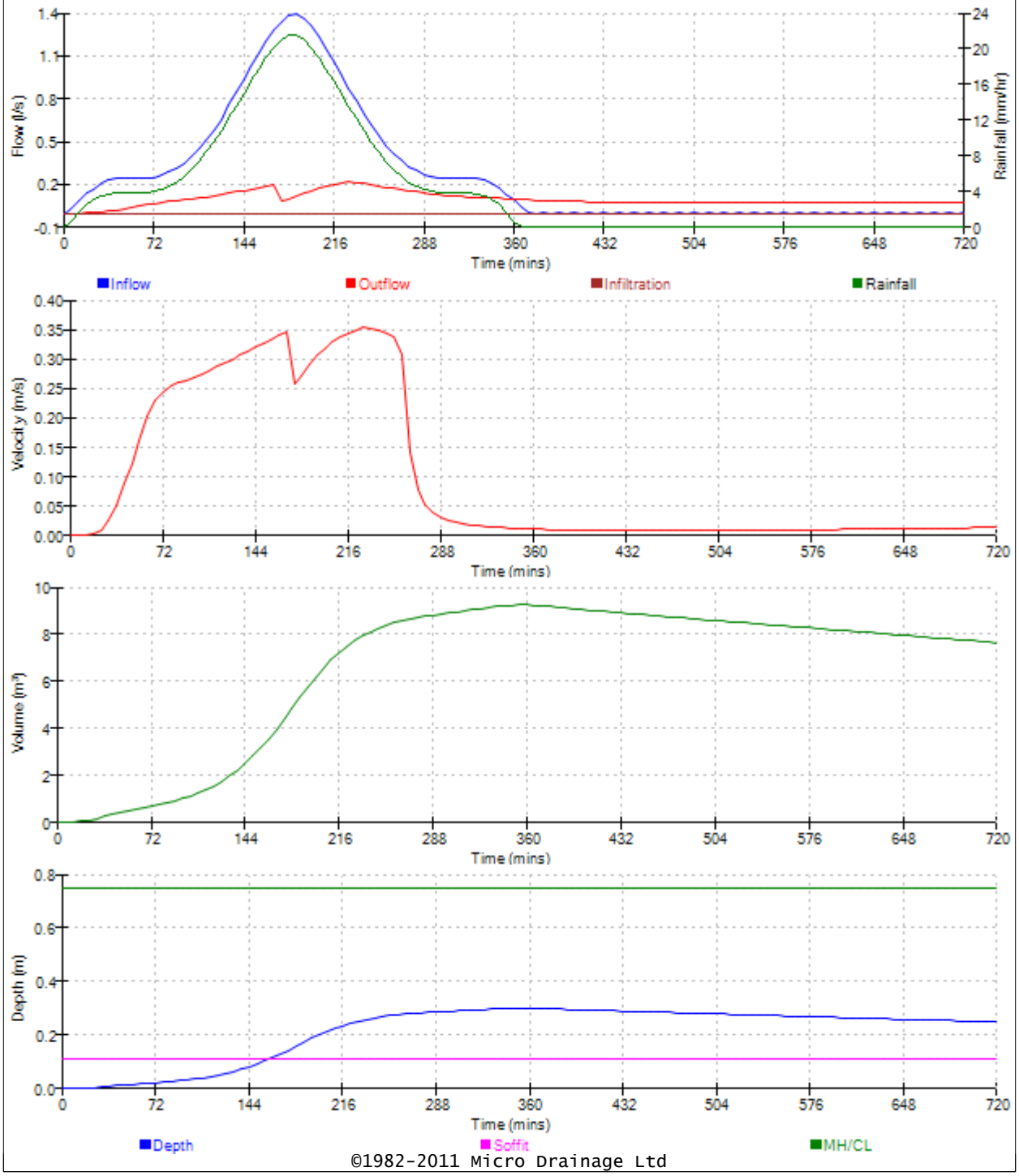
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Graphs for Pipe 1.002 US/MH S3 (Storm)
360 minute 30 year Winter
Status: OK



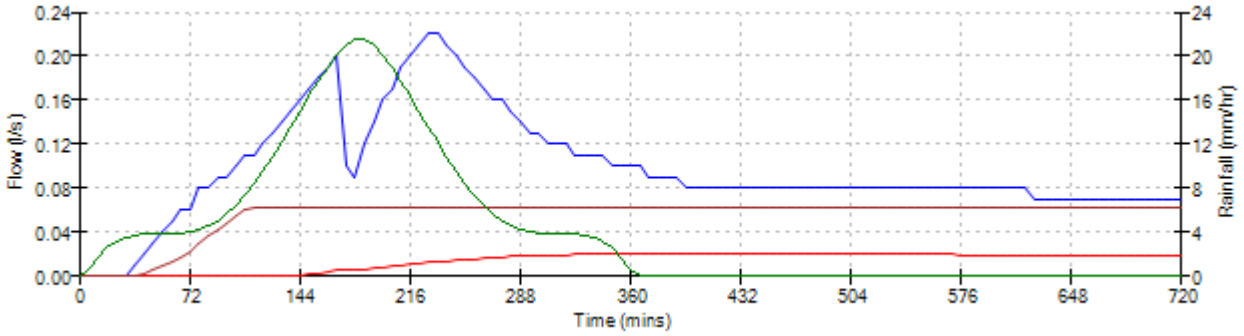
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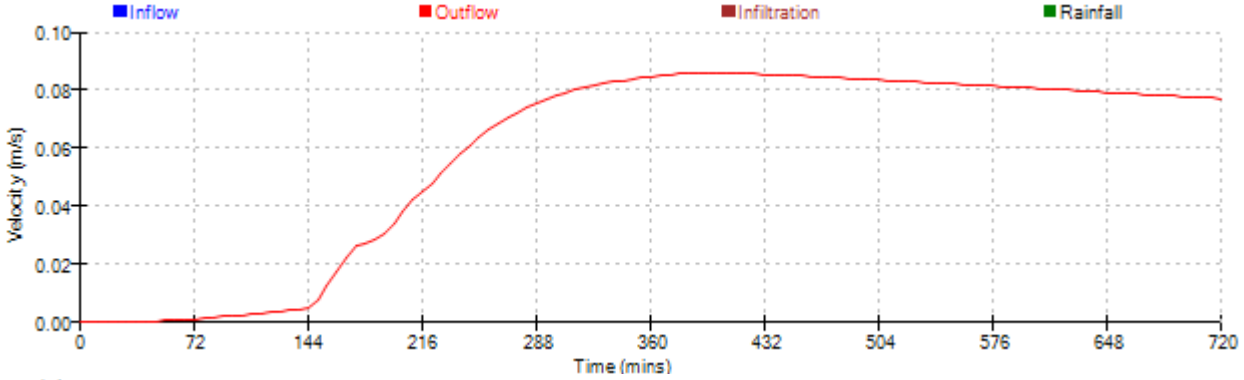
Graphs for Pipe 1.003 US/MH S4 (Storm)
360 minute 30 year Winter
Status: SURCHARGED

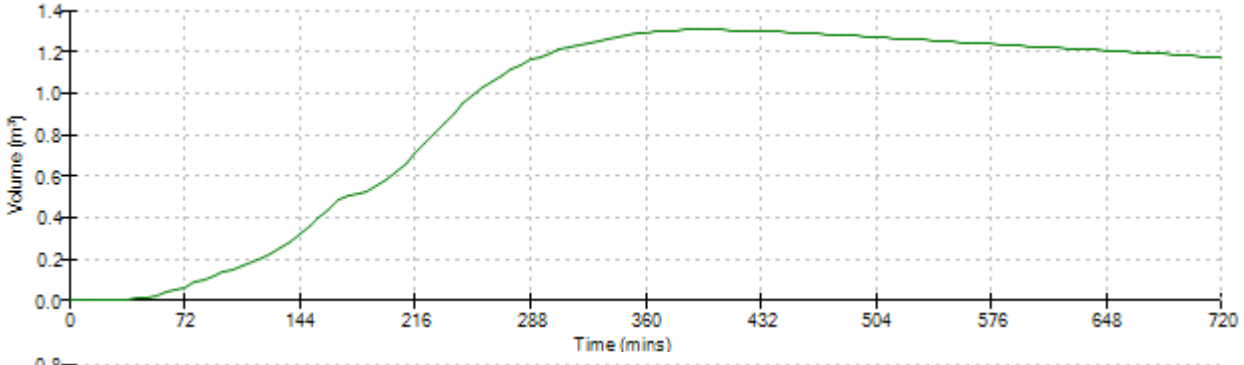


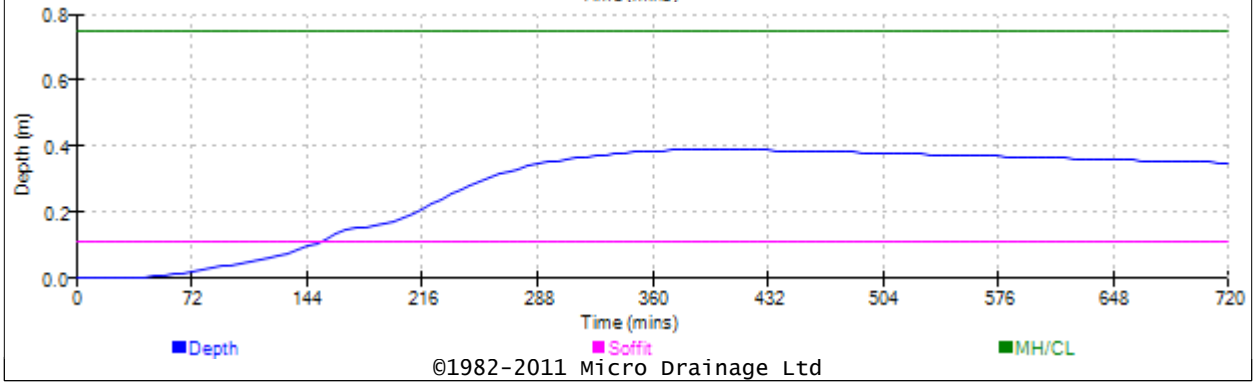
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 30 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.400	63.496	-0.110	0.0	0.0	0.0
12	65.401	63.498	-0.109	0.0	0.1	0.0
18	65.401	63.501	-0.109	0.0	0.2	0.0
24	65.401	63.502	-0.109	0.0	0.2	0.1
30	65.401	63.503	-0.109	0.0	0.2	0.1
36	65.401	63.503	-0.109	0.0	0.2	0.1
42	65.401	63.504	-0.109	0.0	0.3	0.1
48	65.401	63.504	-0.109	0.0	0.3	0.1
54	65.401	63.504	-0.109	0.0	0.3	0.1
60	65.401	63.504	-0.109	0.0	0.3	0.1
66	65.401	63.504	-0.109	0.0	0.3	0.1
72	65.401	63.504	-0.109	0.0	0.3	0.1
78	65.401	63.505	-0.109	0.0	0.3	0.1
84	65.402	63.505	-0.108	0.0	0.3	0.1
90	65.402	63.506	-0.108	0.0	0.3	0.1
96	65.402	63.506	-0.108	0.0	0.4	0.1
102	65.402	63.507	-0.108	0.0	0.4	0.1
108	65.402	63.507	-0.108	0.0	0.5	0.1
114	65.403	63.508	-0.107	0.0	0.6	0.1
120	65.403	63.509	-0.107	0.0	0.6	0.2
126	65.404	63.510	-0.106	0.0	0.7	0.2
132	65.404	63.511	-0.106	0.0	0.8	0.2
138	65.404	63.512	-0.106	0.0	0.9	0.2
144	65.405	63.513	-0.105	0.0	1.0	0.2
150	65.405	63.515	-0.105	0.0	1.1	0.3
156	65.406	63.516	-0.104	0.0	1.2	0.3
162	65.406	63.516	-0.104	0.0	1.3	0.3
168	65.407	63.517	-0.103	0.0	1.3	0.3
174	65.407	63.517	-0.103	0.0	1.4	0.3
180	65.407	63.518	-0.103	0.0	1.4	0.3
186	65.407	63.518	-0.103	0.0	1.4	0.3
192	65.407	63.517	-0.103	0.0	1.4	0.3
198	65.407	63.517	-0.103	0.0	1.3	0.3
204	65.406	63.516	-0.104	0.0	1.3	0.3
210	65.406	63.516	-0.104	0.0	1.2	0.3
216	65.405	63.515	-0.105	0.0	1.1	0.3
222	65.405	63.513	-0.105	0.0	1.0	0.2
228	65.404	63.515	-0.106	0.0	0.9	0.2
234	65.404	63.517	-0.106	0.0	0.8	0.2
240	65.404	63.519	-0.106	0.0	0.7	0.2
246	65.403	63.522	-0.107	0.0	0.6	0.2
252	65.403	63.526	-0.107	0.0	0.6	0.1
258	65.402	63.529	-0.108	0.0	0.5	0.1
264	65.402	63.531	-0.108	0.0	0.4	0.1
270	65.402	63.534	-0.108	0.0	0.4	0.1
276	65.402	63.535	-0.108	0.0	0.3	0.1
282	65.402	63.537	-0.108	0.0	0.3	0.1
288	65.401	63.538	-0.109	0.0	0.3	0.1
294	65.401	63.540	-0.109	0.0	0.3	0.1
300	65.401	63.541	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.401	63.542	-0.109	0.0	0.3	0.1
312	65.401	63.544	-0.109	0.0	0.3	0.1
318	65.401	63.545	-0.109	0.0	0.3	0.1
324	65.401	63.547	-0.109	0.0	0.3	0.1
330	65.401	63.548	-0.109	0.0	0.2	0.1
336	65.401	63.549	-0.109	0.0	0.2	0.1
342	65.401	63.550	-0.109	0.0	0.2	0.1
348	65.401	63.551	-0.109	0.0	0.2	0.0
354	65.401	63.551	-0.109	0.0	0.1	0.0
360	65.400	63.551	-0.110	0.0	0.0	0.0
366	65.400	63.551	-0.110	0.0	0.0	0.0
372	65.400	63.549	-0.110	0.0	0.0	0.0
378	65.400	63.548	-0.110	0.0	0.0	0.0
384	65.400	63.547	-0.110	0.0	0.0	0.0
390	65.400	63.546	-0.110	0.0	0.0	0.0
396	65.400	63.545	-0.110	0.0	0.0	0.0
402	65.400	63.544	-0.110	0.0	0.0	0.0
408	65.400	63.543	-0.110	0.0	0.0	0.0
414	65.400	63.542	-0.110	0.0	0.0	0.0
420	65.400	63.541	-0.110	0.0	0.0	0.0
426	65.400	63.540	-0.110	0.0	0.0	0.0
432	65.400	63.539	-0.110	0.0	0.0	0.0
438	65.400	63.539	-0.110	0.0	0.0	0.0
444	65.400	63.538	-0.110	0.0	0.0	0.0
450	65.400	63.536	-0.110	0.0	0.0	0.0
456	65.400	63.536	-0.110	0.0	0.0	0.0
462	65.400	63.535	-0.110	0.0	0.0	0.0
468	65.400	63.534	-0.110	0.0	0.0	0.0
474	65.400	63.534	-0.110	0.0	0.0	0.0
480	65.400	63.533	-0.110	0.0	0.0	0.0
486	65.400	63.531	-0.110	0.0	0.0	0.0
492	65.400	63.531	-0.110	0.0	0.0	0.0
498	65.400	63.530	-0.110	0.0	0.0	0.0
504	65.400	63.529	-0.110	0.0	0.0	0.0
510	65.400	63.528	-0.110	0.0	0.0	0.0
516	65.400	63.527	-0.110	0.0	0.0	0.0
522	65.400	63.526	-0.110	0.0	0.0	0.0
528	65.400	63.525	-0.110	0.0	0.0	0.0
534	65.400	63.525	-0.110	0.0	0.0	0.0
540	65.400	63.524	-0.110	0.0	0.0	0.0
546	65.400	63.523	-0.110	0.0	0.0	0.0
552	65.400	63.522	-0.110	0.0	0.0	0.0
558	65.400	63.521	-0.110	0.0	0.0	0.0
564	65.400	63.520	-0.110	0.0	0.0	0.0
570	65.400	63.519	-0.110	0.0	0.0	0.0
576	65.400	63.519	-0.110	0.0	0.0	0.0
582	65.400	63.518	-0.110	0.0	0.0	0.0
588	65.400	63.517	-0.110	0.0	0.0	0.0
594	65.400	63.516	-0.110	0.0	0.0	0.0
600	65.400	63.515	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	63.515	-0.110	0.0	0.0	0.0
612	65.400	63.513	-0.110	0.0	0.0	0.0
618	65.400	63.512	-0.110	0.0	0.0	0.0
624	65.400	63.512	-0.110	0.0	0.0	0.0
630	65.400	63.511	-0.110	0.0	0.0	0.0
636	65.400	63.511	-0.110	0.0	0.0	0.0
642	65.400	63.510	-0.110	0.0	0.0	0.0
648	65.400	63.509	-0.110	0.0	0.0	0.0
654	65.400	63.508	-0.110	0.0	0.0	0.0
660	65.400	63.507	-0.110	0.0	0.0	0.0
666	65.400	63.506	-0.110	0.0	0.0	0.0
672	65.400	63.506	-0.110	0.0	0.0	0.0
678	65.400	63.505	-0.110	0.0	0.0	0.0
684	65.400	63.503	-0.110	0.0	0.0	0.0
690	65.400	63.503	-0.110	0.0	0.0	0.0
696	65.400	63.502	-0.110	0.0	0.0	0.0
702	65.400	63.502	-0.110	0.0	0.0	0.0
708	65.400	63.500	-0.110	0.0	0.0	0.0
714	65.400	63.499	-0.110	0.0	0.0	0.0
720	65.400	63.499	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.496	63.447	-0.108	0.0	0.1	0.0
12	63.498	63.452	-0.106	0.0	0.2	0.1
18	63.501	63.455	-0.104	0.0	0.3	0.1
24	63.502	63.456	-0.102	0.0	0.3	0.1
30	63.503	63.457	-0.101	0.0	0.3	0.1
36	63.503	63.457	-0.101	0.0	0.3	0.1
42	63.504	63.457	-0.101	0.0	0.3	0.1
48	63.504	63.457	-0.101	0.0	0.3	0.1
54	63.504	63.457	-0.101	0.0	0.3	0.1
60	63.504	63.457	-0.101	0.0	0.3	0.1
66	63.504	63.457	-0.100	0.0	0.3	0.1
72	63.504	63.458	-0.100	0.0	0.3	0.1
78	63.505	63.458	-0.099	0.0	0.3	0.1
84	63.505	63.458	-0.099	0.0	0.3	0.1
90	63.506	63.459	-0.098	0.0	0.3	0.2
96	63.506	63.460	-0.098	0.0	0.3	0.2
102	63.507	63.461	-0.097	0.0	0.3	0.2
108	63.507	63.462	-0.097	0.0	0.4	0.2
114	63.508	63.464	-0.096	0.0	0.4	0.3
120	63.509	63.466	-0.095	0.0	0.4	0.3
126	63.510	63.467	-0.094	0.0	0.4	0.3
132	63.511	63.468	-0.093	0.0	0.4	0.4
138	63.512	63.470	-0.092	0.0	0.4	0.4
144	63.513	63.471	-0.091	0.0	0.4	0.5
150	63.515	63.472	-0.090	0.0	0.4	0.5
156	63.516	63.473	-0.089	0.0	0.4	0.6
162	63.516	63.474	-0.088	0.0	0.4	0.6
168	63.517	63.476	-0.087	0.0	0.5	0.6
174	63.517	63.476	-0.087	0.0	0.5	0.7
180	63.518	63.477	-0.086	0.0	0.5	0.7
186	63.518	63.477	-0.086	0.0	0.5	0.7
192	63.517	63.476	-0.087	0.0	0.5	0.7
198	63.517	63.476	-0.087	0.0	0.5	0.6
204	63.516	63.475	-0.088	0.0	0.4	0.6
210	63.516	63.480	-0.089	0.0	0.4	0.6
216	63.515	63.489	-0.090	0.0	0.4	0.5
222	63.513	63.497	-0.091	0.0	0.4	0.5
228	63.515	63.504	-0.089	0.0	0.4	0.4
234	63.517	63.511	-0.087	0.0	0.3	0.4
240	63.519	63.516	-0.085	0.0	0.2	0.3
246	63.522	63.521	-0.082	0.0	0.2	0.3
252	63.526	63.525	-0.078	0.0	0.1	0.3
258	63.529	63.528	-0.075	0.0	0.1	0.2
264	63.531	63.531	-0.073	0.0	0.1	0.2
270	63.534	63.533	-0.070	0.0	0.1	0.2
276	63.535	63.535	-0.069	0.0	0.1	0.2
282	63.537	63.536	-0.067	0.0	0.0	0.1
288	63.538	63.538	-0.066	0.0	0.0	0.1
294	63.540	63.539	-0.064	0.0	0.0	0.1
300	63.541	63.540	-0.063	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.542	63.542	-0.062	0.0	0.0	0.1
312	63.544	63.543	-0.060	0.0	0.0	0.1
318	63.545	63.544	-0.059	0.0	0.0	0.1
324	63.547	63.546	-0.058	0.0	0.0	0.1
330	63.548	63.547	-0.056	0.0	0.0	0.1
336	63.549	63.549	-0.055	0.0	0.0	0.1
342	63.550	63.550	-0.054	0.0	0.0	0.1
348	63.551	63.551	-0.053	0.0	0.0	0.1
354	63.551	63.551	-0.053	0.0	0.0	0.1
360	63.551	63.551	-0.053	0.0	0.0	0.0
366	63.551	63.550	-0.054	0.0	0.0	0.0
372	63.549	63.549	-0.056	0.0	0.0	0.0
378	63.548	63.548	-0.057	0.0	0.0	0.0
384	63.547	63.547	-0.057	0.0	0.0	0.0
390	63.546	63.546	-0.058	0.0	0.0	0.0
396	63.545	63.545	-0.059	0.0	0.0	0.0
402	63.544	63.544	-0.060	0.0	0.0	0.0
408	63.543	63.543	-0.061	0.0	0.0	0.0
414	63.542	63.543	-0.062	0.0	0.0	0.0
420	63.541	63.541	-0.063	0.0	0.0	0.0
426	63.540	63.541	-0.064	0.0	0.0	0.0
432	63.539	63.540	-0.065	0.0	0.0	0.0
438	63.539	63.539	-0.065	0.0	0.0	0.0
444	63.538	63.538	-0.067	0.0	0.0	0.0
450	63.536	63.537	-0.068	0.0	0.0	0.0
456	63.536	63.536	-0.068	0.0	0.0	0.0
462	63.535	63.535	-0.069	0.0	0.0	0.0
468	63.534	63.534	-0.070	0.0	0.0	0.0
474	63.534	63.533	-0.070	0.0	0.0	0.0
480	63.533	63.533	-0.072	0.0	0.0	0.0
486	63.531	63.531	-0.073	0.0	0.0	0.0
492	63.531	63.531	-0.073	0.0	0.0	0.0
498	63.530	63.530	-0.074	0.0	0.0	0.0
504	63.529	63.529	-0.075	0.0	0.0	0.0
510	63.528	63.529	-0.076	0.0	0.0	0.0
516	63.527	63.527	-0.077	0.0	0.0	0.0
522	63.526	63.527	-0.078	0.0	0.0	0.0
528	63.525	63.526	-0.079	0.0	0.0	0.0
534	63.525	63.525	-0.079	0.0	0.0	0.0
540	63.524	63.524	-0.080	0.0	0.0	0.0
546	63.523	63.523	-0.081	0.0	0.0	0.0
552	63.522	63.522	-0.082	0.0	0.0	0.0
558	63.521	63.521	-0.083	0.0	0.0	0.0
564	63.520	63.521	-0.084	0.0	0.0	0.0
570	63.519	63.520	-0.085	0.0	0.0	0.0
576	63.519	63.519	-0.085	0.0	0.0	0.0
582	63.518	63.518	-0.086	0.0	0.0	0.0
588	63.517	63.517	-0.087	0.0	0.0	0.0
594	63.516	63.516	-0.088	0.0	0.0	0.0
600	63.515	63.516	-0.089	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.515	63.515	-0.090	0.0	0.0	0.0
612	63.513	63.514	-0.091	0.0	0.0	0.0
618	63.512	63.513	-0.092	0.0	0.0	0.0
624	63.512	63.512	-0.092	0.0	0.0	0.0
630	63.511	63.511	-0.093	0.0	0.0	0.0
636	63.511	63.511	-0.093	0.0	0.0	0.0
642	63.510	63.510	-0.094	0.0	0.0	0.0
648	63.509	63.509	-0.095	0.0	0.0	0.0
654	63.508	63.508	-0.096	0.0	0.0	0.0
660	63.507	63.507	-0.097	0.0	0.0	0.0
666	63.506	63.506	-0.098	0.0	0.0	0.0
672	63.506	63.506	-0.098	0.0	0.0	0.0
678	63.505	63.505	-0.099	0.0	0.0	0.0
684	63.503	63.503	-0.101	0.0	0.0	0.0
690	63.503	63.503	-0.101	0.0	0.0	0.0
696	63.502	63.502	-0.102	0.0	0.0	0.0
702	63.502	63.501	-0.102	0.0	0.0	0.0
708	63.500	63.500	-0.104	0.0	0.0	0.0
714	63.499	63.499	-0.106	0.0	0.0	0.0
720	63.499	63.499	-0.105	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.400	65.000	-0.110	0.0	0.0	0.0
12	65.401	65.001	-0.109	0.0	0.1	0.0
18	65.401	65.001	-0.109	0.0	0.2	0.0
24	65.401	65.002	-0.109	0.0	0.2	0.1
30	65.401	65.002	-0.109	0.0	0.2	0.1
36	65.402	65.002	-0.108	0.0	0.2	0.1
42	65.402	65.002	-0.108	0.0	0.3	0.1
48	65.402	65.002	-0.108	0.0	0.3	0.1
54	65.402	65.002	-0.108	0.0	0.3	0.1
60	65.402	65.002	-0.108	0.0	0.3	0.1
66	65.402	65.002	-0.108	0.0	0.3	0.1
72	65.402	65.002	-0.108	0.0	0.3	0.1
78	65.402	65.002	-0.108	0.0	0.3	0.1
84	65.402	65.003	-0.108	0.0	0.3	0.1
90	65.402	65.003	-0.108	0.0	0.3	0.1
96	65.402	65.003	-0.108	0.0	0.4	0.1
102	65.403	65.004	-0.107	0.0	0.4	0.1
108	65.403	65.004	-0.107	0.0	0.5	0.1
114	65.403	65.005	-0.107	0.0	0.6	0.1
120	65.404	65.005	-0.106	0.0	0.6	0.2
126	65.404	65.006	-0.106	0.0	0.7	0.2
132	65.405	65.007	-0.105	0.0	0.8	0.2
138	65.405	65.008	-0.105	0.0	0.9	0.2
144	65.406	65.008	-0.104	0.0	1.0	0.2
150	65.407	65.009	-0.103	0.0	1.1	0.3
156	65.407	65.010	-0.103	0.0	1.1	0.3
162	65.408	65.011	-0.102	0.0	1.1	0.3
168	65.408	65.011	-0.102	0.0	1.0	0.3
174	65.408	65.011	-0.102	0.0	1.0	0.3
180	65.409	65.011	-0.101	0.0	1.0	0.3
186	65.409	65.011	-0.101	0.0	1.0	0.3
192	65.408	65.011	-0.102	0.0	1.0	0.3
198	65.408	65.011	-0.102	0.0	1.0	0.3
204	65.408	65.011	-0.102	0.0	1.1	0.3
210	65.407	65.010	-0.103	0.0	1.1	0.3
216	65.407	65.009	-0.103	0.0	1.1	0.3
222	65.406	65.008	-0.104	0.0	1.0	0.2
228	65.405	65.008	-0.105	0.0	0.9	0.2
234	65.405	65.007	-0.105	0.0	0.8	0.2
240	65.404	65.006	-0.106	0.0	0.7	0.2
246	65.404	65.005	-0.106	0.0	0.6	0.2
252	65.403	65.005	-0.107	0.0	0.6	0.1
258	65.403	65.004	-0.107	0.0	0.5	0.1
264	65.403	65.004	-0.107	0.0	0.4	0.1
270	65.402	65.003	-0.108	0.0	0.4	0.1
276	65.402	65.003	-0.108	0.0	0.3	0.1
282	65.402	65.003	-0.108	0.0	0.3	0.1
288	65.402	65.002	-0.108	0.0	0.3	0.1
294	65.402	65.002	-0.108	0.0	0.3	0.1
300	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.402	65.002	-0.108	0.0	0.3	0.1
312	65.402	65.002	-0.108	0.0	0.3	0.1
318	65.402	65.002	-0.108	0.0	0.3	0.1
324	65.402	65.002	-0.108	0.0	0.3	0.1
330	65.402	65.002	-0.108	0.0	0.2	0.1
336	65.401	65.002	-0.109	0.0	0.2	0.1
342	65.401	65.002	-0.109	0.0	0.2	0.1
348	65.401	65.001	-0.109	0.0	0.2	0.0
354	65.401	65.001	-0.109	0.0	0.1	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
366	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
378	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
390	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
402	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
414	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
426	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
438	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
450	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
462	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
474	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
486	65.400	65.000	-0.110	0.0	0.0	0.0
492	65.400	65.000	-0.110	0.0	0.0	0.0
498	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
510	65.400	65.000	-0.110	0.0	0.0	0.0
516	65.400	65.000	-0.110	0.0	0.0	0.0
522	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
534	65.400	65.000	-0.110	0.0	0.0	0.0
540	65.400	65.000	-0.110	0.0	0.0	0.0
546	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
558	65.400	65.000	-0.110	0.0	0.0	0.0
564	65.400	65.000	-0.110	0.0	0.0	0.0
570	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
582	65.400	65.000	-0.110	0.0	0.0	0.0
588	65.400	65.000	-0.110	0.0	0.0	0.0
594	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	65.000	-0.110	0.0	0.0	0.0
612	65.400	65.000	-0.110	0.0	0.0	0.0
618	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
636	65.400	65.000	-0.110	0.0	0.0	0.0
642	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
654	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
666	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
678	65.400	65.000	-0.110	0.0	0.0	0.0
684	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
702	65.400	65.000	-0.110	0.0	0.0	0.0
708	65.400	65.000	-0.110	0.0	0.0	0.0
714	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.000	63.447	-0.110	0.0	0.1	0.0
12	65.001	63.452	-0.109	0.0	0.2	0.1
18	65.001	63.455	-0.109	0.0	0.3	0.1
24	65.002	63.456	-0.108	0.0	0.4	0.1
30	65.002	63.457	-0.108	0.0	0.5	0.1
36	65.002	63.457	-0.108	0.0	0.5	0.1
42	65.002	63.457	-0.108	0.0	0.5	0.1
48	65.002	63.457	-0.108	0.0	0.5	0.1
54	65.002	63.457	-0.108	0.0	0.5	0.1
60	65.002	63.457	-0.108	0.0	0.5	0.1
66	65.002	63.457	-0.108	0.0	0.5	0.1
72	65.002	63.458	-0.108	0.0	0.5	0.1
78	65.002	63.458	-0.108	0.0	0.6	0.1
84	65.003	63.458	-0.107	0.0	0.6	0.1
90	65.003	63.459	-0.107	0.0	0.7	0.2
96	65.003	63.460	-0.107	0.0	0.8	0.2
102	65.004	63.461	-0.106	0.0	0.9	0.2
108	65.004	63.462	-0.106	0.0	1.0	0.2
114	65.005	63.464	-0.105	0.0	1.1	0.3
120	65.005	63.466	-0.105	0.0	1.3	0.3
126	65.006	63.467	-0.104	0.0	1.4	0.3
132	65.007	63.468	-0.103	0.0	1.6	0.4
138	65.008	63.470	-0.102	0.0	1.5	0.4
144	65.008	63.471	-0.102	0.0	1.4	0.5
150	65.009	63.472	-0.101	0.0	1.4	0.5
156	65.010	63.473	-0.100	0.0	1.3	0.6
162	65.011	63.474	-0.099	0.0	1.3	0.6
168	65.011	63.476	-0.099	0.0	1.3	0.6
174	65.011	63.476	-0.099	0.0	1.3	0.7
180	65.011	63.477	-0.099	0.0	1.3	0.7
186	65.011	63.477	-0.099	0.0	1.3	0.7
192	65.011	63.476	-0.099	0.0	1.3	0.7
198	65.011	63.476	-0.099	0.0	1.3	0.6
204	65.011	63.475	-0.099	0.0	1.3	0.6
210	65.010	63.480	-0.100	0.0	1.3	0.6
216	65.009	63.489	-0.101	0.0	1.4	0.5
222	65.008	63.497	-0.102	0.0	1.4	0.5
228	65.008	63.504	-0.102	0.0	1.5	0.4
234	65.007	63.511	-0.103	0.0	1.6	0.4
240	65.006	63.516	-0.104	0.0	1.4	0.3
246	65.005	63.521	-0.105	0.0	1.3	0.3
252	65.005	63.525	-0.105	0.0	1.1	0.3
258	65.004	63.528	-0.106	0.0	1.0	0.2
264	65.004	63.531	-0.106	0.0	0.9	0.2
270	65.003	63.533	-0.107	0.0	0.8	0.2
276	65.003	63.535	-0.107	0.0	0.7	0.2
282	65.003	63.536	-0.107	0.0	0.6	0.1
288	65.002	63.538	-0.108	0.0	0.6	0.1
294	65.002	63.539	-0.108	0.0	0.5	0.1
300	65.002	63.540	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.002	63.542	-0.108	0.0	0.5	0.1
312	65.002	63.543	-0.108	0.0	0.5	0.1
318	65.002	63.544	-0.108	0.0	0.5	0.1
324	65.002	63.546	-0.108	0.0	0.5	0.1
330	65.002	63.547	-0.108	0.0	0.5	0.1
336	65.002	63.549	-0.108	0.0	0.5	0.1
342	65.002	63.550	-0.108	0.0	0.4	0.1
348	65.001	63.551	-0.109	0.0	0.4	0.1
354	65.001	63.551	-0.109	0.0	0.2	0.1
360	65.000	63.551	-0.110	0.0	0.1	0.0
366	65.000	63.550	-0.110	0.0	0.0	0.0
372	65.000	63.549	-0.110	0.0	0.0	0.0
378	65.000	63.548	-0.110	0.0	0.0	0.0
384	65.000	63.547	-0.110	0.0	0.0	0.0
390	65.000	63.546	-0.110	0.0	0.0	0.0
396	65.000	63.545	-0.110	0.0	0.0	0.0
402	65.000	63.544	-0.110	0.0	0.0	0.0
408	65.000	63.543	-0.110	0.0	0.0	0.0
414	65.000	63.543	-0.110	0.0	0.0	0.0
420	65.000	63.541	-0.110	0.0	0.0	0.0
426	65.000	63.541	-0.110	0.0	0.0	0.0
432	65.000	63.540	-0.110	0.0	0.0	0.0
438	65.000	63.539	-0.110	0.0	0.0	0.0
444	65.000	63.538	-0.110	0.0	0.0	0.0
450	65.000	63.537	-0.110	0.0	0.0	0.0
456	65.000	63.536	-0.110	0.0	0.0	0.0
462	65.000	63.535	-0.110	0.0	0.0	0.0
468	65.000	63.534	-0.110	0.0	0.0	0.0
474	65.000	63.533	-0.110	0.0	0.0	0.0
480	65.000	63.533	-0.110	0.0	0.0	0.0
486	65.000	63.531	-0.110	0.0	0.0	0.0
492	65.000	63.531	-0.110	0.0	0.0	0.0
498	65.000	63.530	-0.110	0.0	0.0	0.0
504	65.000	63.529	-0.110	0.0	0.0	0.0
510	65.000	63.529	-0.110	0.0	0.0	0.0
516	65.000	63.527	-0.110	0.0	0.0	0.0
522	65.000	63.527	-0.110	0.0	0.0	0.0
528	65.000	63.526	-0.110	0.0	0.0	0.0
534	65.000	63.525	-0.110	0.0	0.0	0.0
540	65.000	63.524	-0.110	0.0	0.0	0.0
546	65.000	63.523	-0.110	0.0	0.0	0.0
552	65.000	63.522	-0.110	0.0	0.0	0.0
558	65.000	63.521	-0.110	0.0	0.0	0.0
564	65.000	63.521	-0.110	0.0	0.0	0.0
570	65.000	63.520	-0.110	0.0	0.0	0.0
576	65.000	63.519	-0.110	0.0	0.0	0.0
582	65.000	63.518	-0.110	0.0	0.0	0.0
588	65.000	63.517	-0.110	0.0	0.0	0.0
594	65.000	63.516	-0.110	0.0	0.0	0.0
600	65.000	63.516	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.000	63.515	-0.110	0.0	0.0	0.0
612	65.000	63.514	-0.110	0.0	0.0	0.0
618	65.000	63.513	-0.110	0.0	0.0	0.0
624	65.000	63.512	-0.110	0.0	0.0	0.0
630	65.000	63.511	-0.110	0.0	0.0	0.0
636	65.000	63.511	-0.110	0.0	0.0	0.0
642	65.000	63.510	-0.110	0.0	0.0	0.0
648	65.000	63.509	-0.110	0.0	0.0	0.0
654	65.000	63.508	-0.110	0.0	0.0	0.0
660	65.000	63.507	-0.110	0.0	0.0	0.0
666	65.000	63.506	-0.110	0.0	0.0	0.0
672	65.000	63.506	-0.110	0.0	0.0	0.0
678	65.000	63.505	-0.110	0.0	0.0	0.0
684	65.000	63.503	-0.110	0.0	0.0	0.0
690	65.000	63.503	-0.110	0.0	0.0	0.0
696	65.000	63.502	-0.110	0.0	0.0	0.0
702	65.000	63.501	-0.110	0.0	0.0	0.0
708	65.000	63.500	-0.110	0.0	0.0	0.0
714	65.000	63.499	-0.110	0.0	0.0	0.0
720	65.000	63.499	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.447	63.250	-0.107	0.0	0.1	0.0
12	63.452	63.251	-0.102	0.0	0.3	0.1
18	63.455	63.253	-0.099	0.0	0.3	0.1
24	63.456	63.254	-0.098	0.0	0.3	0.2
30	63.457	63.256	-0.097	0.0	0.4	0.2
36	63.457	63.259	-0.097	0.0	0.4	0.2
42	63.457	63.261	-0.097	0.0	0.4	0.2
48	63.457	63.264	-0.097	0.0	0.4	0.2
54	63.457	63.266	-0.097	0.0	0.4	0.2
60	63.457	63.269	-0.097	0.0	0.4	0.2
66	63.457	63.271	-0.097	0.0	0.4	0.2
72	63.458	63.273	-0.097	0.0	0.4	0.3
78	63.458	63.276	-0.096	0.0	0.4	0.3
84	63.458	63.278	-0.096	0.0	0.4	0.3
90	63.459	63.281	-0.095	0.0	0.4	0.3
96	63.460	63.284	-0.094	0.0	0.4	0.4
102	63.461	63.287	-0.093	0.0	0.4	0.4
108	63.462	63.291	-0.092	0.0	0.5	0.5
114	63.464	63.296	-0.090	0.0	0.5	0.5
120	63.466	63.301	-0.088	0.0	0.5	0.6
126	63.467	63.307	-0.087	0.0	0.5	0.7
132	63.468	63.316	-0.086	0.0	0.5	0.8
138	63.470	63.324	-0.085	0.0	0.5	0.9
144	63.471	63.333	-0.083	0.0	0.5	0.9
150	63.472	63.343	-0.082	0.0	0.6	1.0
156	63.473	63.354	-0.081	0.0	0.6	1.1
162	63.474	63.366	-0.080	0.0	0.6	1.2
168	63.476	63.378	-0.079	0.0	0.6	1.3
174	63.476	63.394	-0.078	0.0	0.6	1.3
180	63.477	63.409	-0.077	0.0	0.6	1.4
186	63.477	63.424	-0.077	0.0	0.6	1.4
192	63.476	63.438	-0.078	0.0	0.6	1.4
198	63.476	63.452	-0.079	0.0	0.6	1.3
204	63.475	63.464	-0.079	0.0	0.6	1.2
210	63.480	63.475	-0.074	0.0	0.5	1.1
216	63.489	63.485	-0.066	0.0	0.3	1.1
222	63.497	63.494	-0.057	0.0	0.2	1.0
228	63.504	63.502	-0.050	0.0	0.2	0.9
234	63.511	63.508	-0.043	0.0	0.1	0.8
240	63.516	63.514	-0.038	0.0	0.1	0.7
246	63.521	63.519	-0.033	0.0	0.1	0.6
252	63.525	63.523	-0.029	0.0	0.1	0.5
258	63.528	63.526	-0.026	0.0	0.1	0.5
264	63.531	63.529	-0.024	0.0	0.1	0.4
270	63.533	63.532	-0.021	0.0	0.0	0.4
276	63.535	63.534	-0.020	0.0	0.0	0.3
282	63.536	63.535	-0.018	0.0	0.0	0.3
288	63.538	63.537	-0.016	0.0	0.0	0.3
294	63.539	63.538	-0.015	0.0	0.0	0.3
300	63.540	63.540	-0.014	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.542	63.541	-0.012	0.0	0.0	0.2
312	63.543	63.542	-0.011	0.0	0.0	0.2
318	63.544	63.544	-0.010	0.0	0.0	0.2
324	63.546	63.545	-0.008	0.0	0.0	0.2
330	63.547	63.547	-0.007	0.0	0.0	0.2
336	63.549	63.548	-0.005	0.0	0.0	0.2
342	63.550	63.549	-0.004	0.0	0.0	0.2
348	63.551	63.550	-0.003	0.0	0.0	0.2
354	63.551	63.551	-0.003	0.0	0.0	0.1
360	63.551	63.551	-0.003	0.0	0.0	0.1
366	63.550	63.550	-0.004	0.0	0.0	0.0
372	63.549	63.549	-0.005	0.0	0.0	0.0
378	63.548	63.548	-0.006	0.0	0.0	0.0
384	63.547	63.547	-0.007	0.0	0.0	0.0
390	63.546	63.546	-0.008	0.0	0.0	0.0
396	63.545	63.545	-0.009	0.0	0.0	0.0
402	63.544	63.544	-0.010	0.0	0.0	0.0
408	63.543	63.543	-0.011	0.0	0.0	0.0
414	63.543	63.542	-0.012	0.0	0.0	0.0
420	63.541	63.541	-0.013	0.0	0.0	0.0
426	63.541	63.541	-0.013	0.0	0.0	0.0
432	63.540	63.540	-0.015	0.0	0.0	0.0
438	63.539	63.539	-0.015	0.0	0.0	0.0
444	63.538	63.538	-0.016	0.0	0.0	0.0
450	63.537	63.537	-0.017	0.0	0.0	0.0
456	63.536	63.536	-0.018	0.0	0.0	0.0
462	63.535	63.535	-0.019	0.0	0.0	0.0
468	63.534	63.534	-0.020	0.0	0.0	0.0
474	63.533	63.534	-0.021	0.0	0.0	0.0
480	63.533	63.533	-0.021	0.0	0.0	0.0
486	63.531	63.532	-0.023	0.0	0.0	0.0
492	63.531	63.531	-0.023	0.0	0.0	0.0
498	63.530	63.530	-0.024	0.0	0.0	0.0
504	63.529	63.529	-0.025	0.0	0.0	0.0
510	63.529	63.528	-0.026	0.0	0.0	0.0
516	63.527	63.528	-0.027	0.0	0.0	0.0
522	63.527	63.527	-0.028	0.0	0.0	0.0
528	63.526	63.526	-0.028	0.0	0.0	0.0
534	63.525	63.525	-0.029	0.0	0.0	0.0
540	63.524	63.524	-0.030	0.0	0.0	0.0
546	63.523	63.523	-0.031	0.0	0.0	0.0
552	63.522	63.523	-0.032	0.0	0.0	0.0
558	63.521	63.522	-0.033	0.0	0.0	0.0
564	63.521	63.521	-0.033	0.0	0.0	0.0
570	63.520	63.520	-0.034	0.0	0.0	0.0
576	63.519	63.519	-0.035	0.0	0.0	0.0
582	63.518	63.518	-0.036	0.0	0.0	0.0
588	63.517	63.517	-0.037	0.0	0.0	0.0
594	63.516	63.517	-0.038	0.0	0.0	0.0
600	63.516	63.516	-0.039	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.515	63.515	-0.039	0.0	0.0	0.0
612	63.514	63.514	-0.040	0.0	0.0	0.0
618	63.513	63.513	-0.041	0.0	0.0	0.0
624	63.512	63.512	-0.042	0.0	0.0	0.0
630	63.511	63.512	-0.043	0.0	0.0	0.0
636	63.511	63.511	-0.044	0.0	0.0	0.0
642	63.510	63.510	-0.044	0.0	0.0	0.0
648	63.509	63.509	-0.046	0.0	0.0	0.0
654	63.508	63.508	-0.046	0.0	0.0	0.0
660	63.507	63.507	-0.047	0.0	0.0	0.0
666	63.506	63.506	-0.048	0.0	0.0	0.0
672	63.506	63.506	-0.049	0.0	0.0	0.0
678	63.505	63.505	-0.049	0.0	0.0	0.0
684	63.503	63.504	-0.051	0.0	0.0	0.0
690	63.503	63.503	-0.051	0.0	0.0	0.0
696	63.502	63.502	-0.052	0.0	0.0	0.0
702	63.501	63.501	-0.053	0.0	0.0	0.0
708	63.500	63.501	-0.054	0.0	0.0	0.0
714	63.499	63.500	-0.055	0.0	0.0	0.0
720	63.499	63.499	-0.056	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.250	63.100	-0.110	0.0	0.0	0.0
12	63.251	63.100	-0.109	0.0	0.0	0.0
18	63.253	63.100	-0.107	0.0	0.0	0.0
24	63.254	63.100	-0.106	0.0	0.0	0.0
30	63.256	63.101	-0.104	0.0	0.0	0.0
36	63.259	63.101	-0.101	0.0	0.1	0.0
42	63.261	63.103	-0.099	0.0	0.1	0.0
48	63.264	63.105	-0.096	0.0	0.1	0.0
54	63.266	63.108	-0.094	0.0	0.2	0.0
60	63.269	63.112	-0.091	0.0	0.2	0.0
66	63.271	63.115	-0.089	0.0	0.2	0.1
72	63.273	63.120	-0.087	0.0	0.2	0.1
78	63.276	63.126	-0.084	0.0	0.3	0.1
84	63.278	63.131	-0.082	0.0	0.3	0.1
90	63.281	63.136	-0.079	0.0	0.3	0.1
96	63.284	63.140	-0.076	0.0	0.3	0.1
102	63.287	63.145	-0.073	0.0	0.3	0.1
108	63.291	63.150	-0.069	0.0	0.3	0.1
114	63.296	63.155	-0.064	0.0	0.3	0.1
120	63.301	63.161	-0.059	0.0	0.3	0.1
126	63.307	63.168	-0.053	0.0	0.3	0.1
132	63.316	63.177	-0.044	0.0	0.3	0.1
138	63.324	63.186	-0.036	0.0	0.3	0.1
144	63.333	63.196	-0.027	0.0	0.3	0.2
150	63.343	63.207	-0.017	0.0	0.3	0.2
156	63.354	63.220	-0.006	0.0	0.3	0.2
162	63.366	63.233	0.006	0.0	0.3	0.2
168	63.378	63.247	0.018	0.0	0.3	0.2
174	63.394	63.251	0.034	0.0	0.3	0.1
180	63.409	63.254	0.049	0.0	0.3	0.1
186	63.424	63.259	0.064	0.0	0.3	0.1
192	63.438	63.266	0.078	0.0	0.3	0.1
198	63.452	63.275	0.092	0.0	0.3	0.2
204	63.464	63.286	0.104	0.0	0.3	0.2
210	63.475	63.298	0.115	0.0	0.3	0.2
216	63.485	63.311	0.125	0.0	0.3	0.2
222	63.494	63.325	0.134	0.0	0.3	0.2
228	63.502	63.341	0.142	0.0	0.4	0.2
234	63.508	63.356	0.148	0.0	0.4	0.2
240	63.514	63.370	0.154	0.0	0.3	0.2
246	63.519	63.383	0.159	0.0	0.3	0.2
252	63.523	63.395	0.163	0.0	0.3	0.2
258	63.526	63.406	0.166	0.0	0.3	0.2
264	63.529	63.415	0.169	0.0	0.1	0.2
270	63.532	63.424	0.172	0.0	0.1	0.2
276	63.534	63.432	0.174	0.0	0.1	0.2
282	63.535	63.439	0.175	0.0	0.0	0.1
288	63.537	63.446	0.177	0.0	0.0	0.1
294	63.538	63.452	0.178	0.0	0.0	0.1
300	63.540	63.457	0.180	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.541	63.461	0.181	0.0	0.0	0.1
312	63.542	63.465	0.182	0.0	0.0	0.1
318	63.544	63.468	0.184	0.0	0.0	0.1
324	63.545	63.471	0.185	0.0	0.0	0.1
330	63.547	63.474	0.187	0.0	0.0	0.1
336	63.548	63.477	0.188	0.0	0.0	0.1
342	63.549	63.479	0.189	0.0	0.0	0.1
348	63.550	63.482	0.190	0.0	0.0	0.1
354	63.551	63.484	0.191	0.0	0.0	0.1
360	63.551	63.485	0.191	0.0	0.0	0.1
366	63.550	63.487	0.190	0.0	0.0	0.1
372	63.549	63.488	0.189	0.0	0.0	0.1
378	63.548	63.489	0.188	0.0	0.0	0.1
384	63.547	63.489	0.187	0.0	0.0	0.1
390	63.546	63.490	0.186	0.0	0.0	0.1
396	63.545	63.490	0.185	0.0	0.0	0.1
402	63.544	63.490	0.184	0.0	0.0	0.1
408	63.543	63.489	0.183	0.0	0.0	0.1
414	63.542	63.489	0.182	0.0	0.0	0.1
420	63.541	63.489	0.181	0.0	0.0	0.1
426	63.541	63.488	0.181	0.0	0.0	0.1
432	63.540	63.488	0.180	0.0	0.0	0.1
438	63.539	63.487	0.179	0.0	0.0	0.1
444	63.538	63.487	0.178	0.0	0.0	0.1
450	63.537	63.486	0.177	0.0	0.0	0.1
456	63.536	63.485	0.176	0.0	0.0	0.1
462	63.535	63.484	0.175	0.0	0.0	0.1
468	63.534	63.484	0.174	0.0	0.0	0.1
474	63.534	63.483	0.174	0.0	0.0	0.1
480	63.533	63.482	0.173	0.0	0.0	0.1
486	63.532	63.481	0.172	0.0	0.0	0.1
492	63.531	63.481	0.171	0.0	0.0	0.1
498	63.530	63.480	0.170	0.0	0.0	0.1
504	63.529	63.479	0.169	0.0	0.0	0.1
510	63.528	63.478	0.168	0.0	0.0	0.1
516	63.528	63.477	0.168	0.0	0.0	0.1
522	63.527	63.477	0.167	0.0	0.0	0.1
528	63.526	63.476	0.166	0.0	0.0	0.1
534	63.525	63.475	0.165	0.0	0.0	0.1
540	63.524	63.474	0.164	0.0	0.0	0.1
546	63.523	63.473	0.163	0.0	0.0	0.1
552	63.523	63.473	0.163	0.0	0.0	0.1
558	63.522	63.472	0.162	0.0	0.0	0.1
564	63.521	63.471	0.161	0.0	0.0	0.1
570	63.520	63.470	0.160	0.0	0.0	0.1
576	63.519	63.469	0.159	0.0	0.0	0.1
582	63.518	63.468	0.158	0.0	0.0	0.1
588	63.517	63.468	0.157	0.0	0.0	0.1
594	63.517	63.467	0.157	0.0	0.0	0.1
600	63.516	63.466	0.156	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.515	63.465	0.155	0.0	0.0	0.1
612	63.514	63.464	0.154	0.0	0.0	0.1
618	63.513	63.464	0.153	0.0	0.0	0.1
624	63.512	63.463	0.152	0.0	0.0	0.1
630	63.512	63.462	0.152	0.0	0.0	0.1
636	63.511	63.461	0.151	0.0	0.0	0.1
642	63.510	63.460	0.150	0.0	0.0	0.1
648	63.509	63.459	0.149	0.0	0.0	0.1
654	63.508	63.459	0.148	0.0	0.0	0.1
660	63.507	63.458	0.147	0.0	0.0	0.1
666	63.506	63.457	0.146	0.0	0.0	0.1
672	63.506	63.456	0.146	0.0	0.0	0.1
678	63.505	63.455	0.145	0.0	0.0	0.1
684	63.504	63.455	0.144	0.0	0.0	0.1
690	63.503	63.454	0.143	0.0	0.0	0.1
696	63.502	63.453	0.142	0.0	0.0	0.1
702	63.501	63.452	0.141	0.0	0.0	0.1
708	63.501	63.451	0.141	0.0	0.0	0.1
714	63.500	63.451	0.140	0.0	0.0	0.1
720	63.499	63.450	0.139	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.100	63.096	-0.110	0.0	0.0	0.0
30	63.101	63.096	-0.109	0.0	0.0	0.0
36	63.101	63.096	-0.109	0.0	0.0	0.0
42	63.103	63.096	-0.107	0.0	0.0	0.0
48	63.105	63.096	-0.105	0.0	0.0	0.0
54	63.108	63.096	-0.102	0.0	0.0	0.0
60	63.112	63.096	-0.098	0.0	0.0	0.0
66	63.115	63.096	-0.095	0.0	0.0	0.0
72	63.120	63.096	-0.090	0.0	0.0	0.0
78	63.126	63.096	-0.084	0.0	0.0	0.0
84	63.131	63.096	-0.079	0.0	0.0	0.0
90	63.136	63.096	-0.074	0.0	0.0	0.0
96	63.140	63.096	-0.070	0.0	0.0	0.0
102	63.145	63.096	-0.065	0.0	0.0	0.0
108	63.150	63.096	-0.060	0.0	0.0	0.0
114	63.155	63.096	-0.055	0.0	0.0	0.0
120	63.161	63.096	-0.049	0.0	0.0	0.0
126	63.168	63.096	-0.042	0.0	0.0	0.0
132	63.177	63.096	-0.033	0.0	0.0	0.0
138	63.186	63.096	-0.024	0.0	0.0	0.0
144	63.196	63.096	-0.014	0.0	0.0	0.0
150	63.207	63.096	-0.003	0.0	0.0	0.0
156	63.220	63.096	0.010	0.0	0.0	0.0
162	63.233	63.096	0.023	0.0	0.0	0.0
168	63.247	63.096	0.037	0.0	0.0	0.0
174	63.251	63.096	0.041	0.0	0.0	0.0
180	63.254	63.096	0.044	0.0	0.0	0.0
186	63.259	63.096	0.049	0.0	0.0	0.0
192	63.266	63.096	0.056	0.0	0.0	0.0
198	63.275	63.096	0.065	0.0	0.0	0.0
204	63.286	63.096	0.076	0.0	0.0	0.0
210	63.298	63.096	0.088	0.0	0.0	0.0
216	63.311	63.096	0.101	0.0	0.0	0.0
222	63.325	63.096	0.115	0.0	0.0	0.0
228	63.341	63.096	0.131	0.0	0.1	0.0
234	63.356	63.096	0.146	0.0	0.1	0.0
240	63.370	63.096	0.160	0.0	0.1	0.0
246	63.383	63.096	0.173	0.0	0.1	0.0
252	63.395	63.096	0.185	0.0	0.1	0.0
258	63.406	63.096	0.196	0.0	0.1	0.0
264	63.415	63.096	0.205	0.0	0.1	0.0
270	63.424	63.096	0.214	0.0	0.1	0.0
276	63.432	63.096	0.222	0.0	0.1	0.0
282	63.439	63.096	0.229	0.0	0.1	0.0
288	63.446	63.096	0.236	0.0	0.1	0.0
294	63.452	63.096	0.242	0.0	0.1	0.0
300	63.457	63.096	0.247	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.461	63.096	0.251	0.0	0.1	0.0
312	63.465	63.096	0.255	0.0	0.1	0.0
318	63.468	63.096	0.258	0.0	0.1	0.0
324	63.471	63.096	0.261	0.0	0.1	0.0
330	63.474	63.096	0.264	0.0	0.1	0.0
336	63.477	63.096	0.267	0.0	0.1	0.0
342	63.479	63.096	0.269	0.0	0.1	0.0
348	63.482	63.096	0.272	0.0	0.1	0.0
354	63.484	63.096	0.274	0.0	0.1	0.0
360	63.485	63.096	0.275	0.0	0.1	0.0
366	63.487	63.096	0.277	0.0	0.1	0.0
372	63.488	63.096	0.278	0.0	0.1	0.0
378	63.489	63.096	0.279	0.0	0.1	0.0
384	63.489	63.096	0.279	0.0	0.1	0.0
390	63.490	63.096	0.280	0.0	0.1	0.0
396	63.490	63.096	0.280	0.0	0.1	0.0
402	63.490	63.096	0.280	0.0	0.1	0.0
408	63.489	63.096	0.279	0.0	0.1	0.0
414	63.489	63.096	0.279	0.0	0.1	0.0
420	63.489	63.096	0.279	0.0	0.1	0.0
426	63.488	63.096	0.278	0.0	0.1	0.0
432	63.488	63.096	0.278	0.0	0.1	0.0
438	63.487	63.096	0.277	0.0	0.1	0.0
444	63.487	63.096	0.277	0.0	0.1	0.0
450	63.486	63.096	0.276	0.0	0.1	0.0
456	63.485	63.096	0.275	0.0	0.1	0.0
462	63.484	63.096	0.274	0.0	0.1	0.0
468	63.484	63.096	0.274	0.0	0.1	0.0
474	63.483	63.096	0.273	0.0	0.1	0.0
480	63.482	63.096	0.272	0.0	0.1	0.0
486	63.481	63.096	0.271	0.0	0.1	0.0
492	63.481	63.096	0.271	0.0	0.1	0.0
498	63.480	63.096	0.270	0.0	0.1	0.0
504	63.479	63.096	0.269	0.0	0.1	0.0
510	63.478	63.096	0.268	0.0	0.1	0.0
516	63.477	63.096	0.267	0.0	0.1	0.0
522	63.477	63.096	0.267	0.0	0.1	0.0
528	63.476	63.096	0.266	0.0	0.1	0.0
534	63.475	63.096	0.265	0.0	0.1	0.0
540	63.474	63.096	0.264	0.0	0.1	0.0
546	63.473	63.096	0.263	0.0	0.1	0.0
552	63.473	63.096	0.263	0.0	0.1	0.0
558	63.472	63.096	0.262	0.0	0.1	0.0
564	63.471	63.096	0.261	0.0	0.1	0.0
570	63.470	63.096	0.260	0.0	0.1	0.0
576	63.469	63.096	0.259	0.0	0.1	0.0
582	63.468	63.096	0.258	0.0	0.1	0.0
588	63.468	63.096	0.258	0.0	0.1	0.0
594	63.467	63.096	0.257	0.0	0.1	0.0
600	63.466	63.096	0.256	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 30 year Winter
Average Rainfall Intensity 8.565 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.465	63.096	0.255	0.0	0.1	0.0
612	63.464	63.096	0.254	0.0	0.1	0.0
618	63.464	63.096	0.254	0.0	0.1	0.0
624	63.463	63.096	0.253	0.0	0.1	0.0
630	63.462	63.096	0.252	0.0	0.1	0.0
636	63.461	63.096	0.251	0.0	0.1	0.0
642	63.460	63.096	0.250	0.0	0.1	0.0
648	63.459	63.096	0.249	0.0	0.1	0.0
654	63.459	63.096	0.249	0.0	0.1	0.0
660	63.458	63.096	0.248	0.0	0.1	0.0
666	63.457	63.096	0.247	0.0	0.1	0.0
672	63.456	63.096	0.246	0.0	0.1	0.0
678	63.455	63.096	0.245	0.0	0.1	0.0
684	63.455	63.096	0.245	0.0	0.1	0.0
690	63.454	63.096	0.244	0.0	0.1	0.0
696	63.453	63.096	0.243	0.0	0.1	0.0
702	63.452	63.096	0.242	0.0	0.1	0.0
708	63.451	63.096	0.241	0.0	0.1	0.0
714	63.451	63.096	0.241	0.0	0.1	0.0
720	63.450	63.096	0.240	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	15
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 15 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.425	-0.085	0.000	0.12	0.0	3.1	OK
1.001	S1	63.705	0.101	0.000	0.96	0.0	6.4	SURCHARGED
2.000	RE2	65.428	-0.082	0.000	0.15	0.0	3.1	OK
2.001	S2	65.035	-0.075	0.000	0.22	0.0	6.6	OK
1.002	S3	63.656	0.102	0.000	1.79	0.0	12.8	SURCHARGED
1.003	S4	63.422	0.062	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.253	0.043	0.000	0.00	0.0	0.0	SURCHARGED

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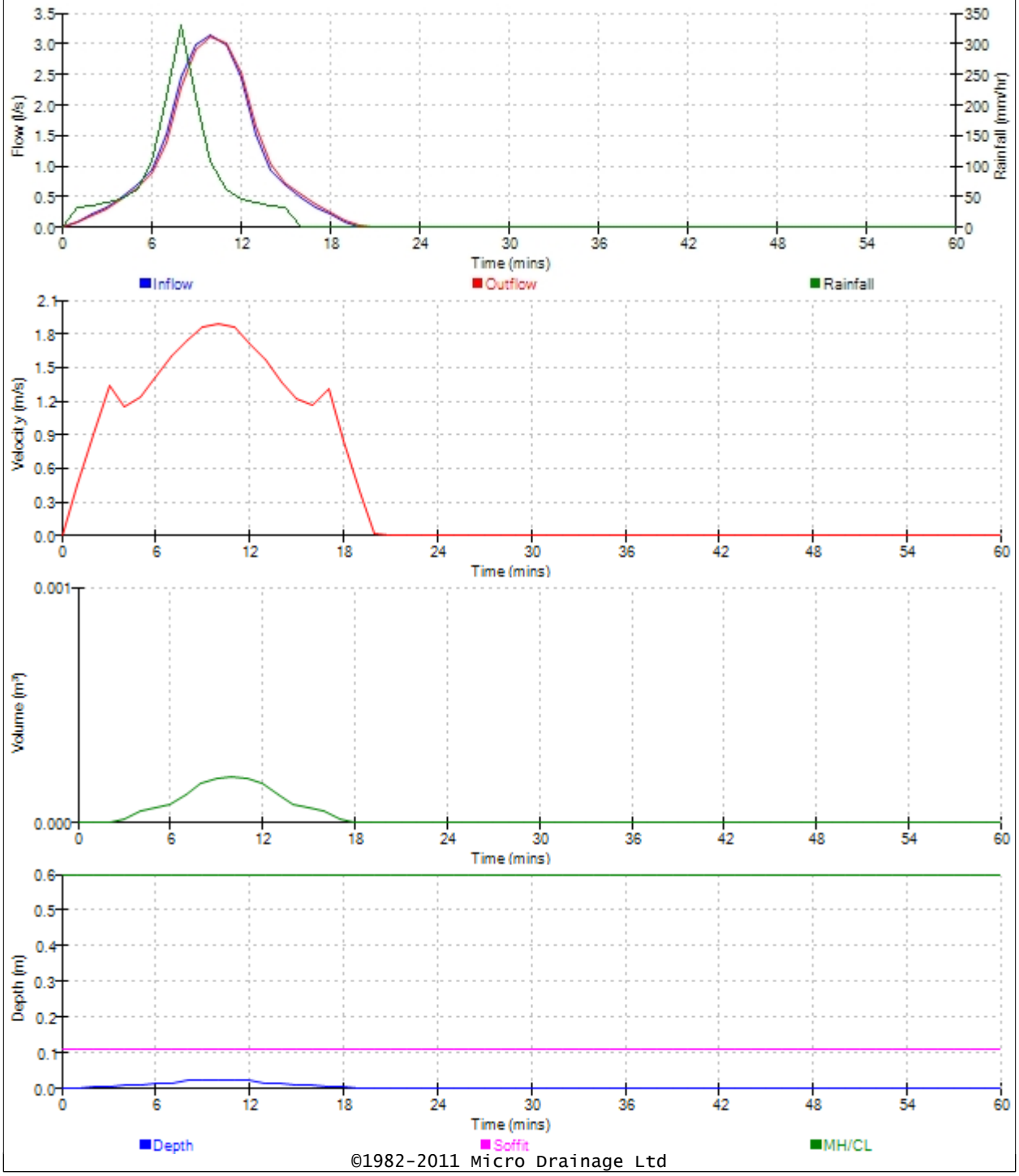
Rainfall Hyetograph for 15 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	31.468	4	47.319	7	212.935	10	107.590	13	39.417
2	34.601	5	62.796	8	330.485	11	62.796	14	34.601
3	39.417	6	107.590	9	212.936	12	47.319	15	31.468

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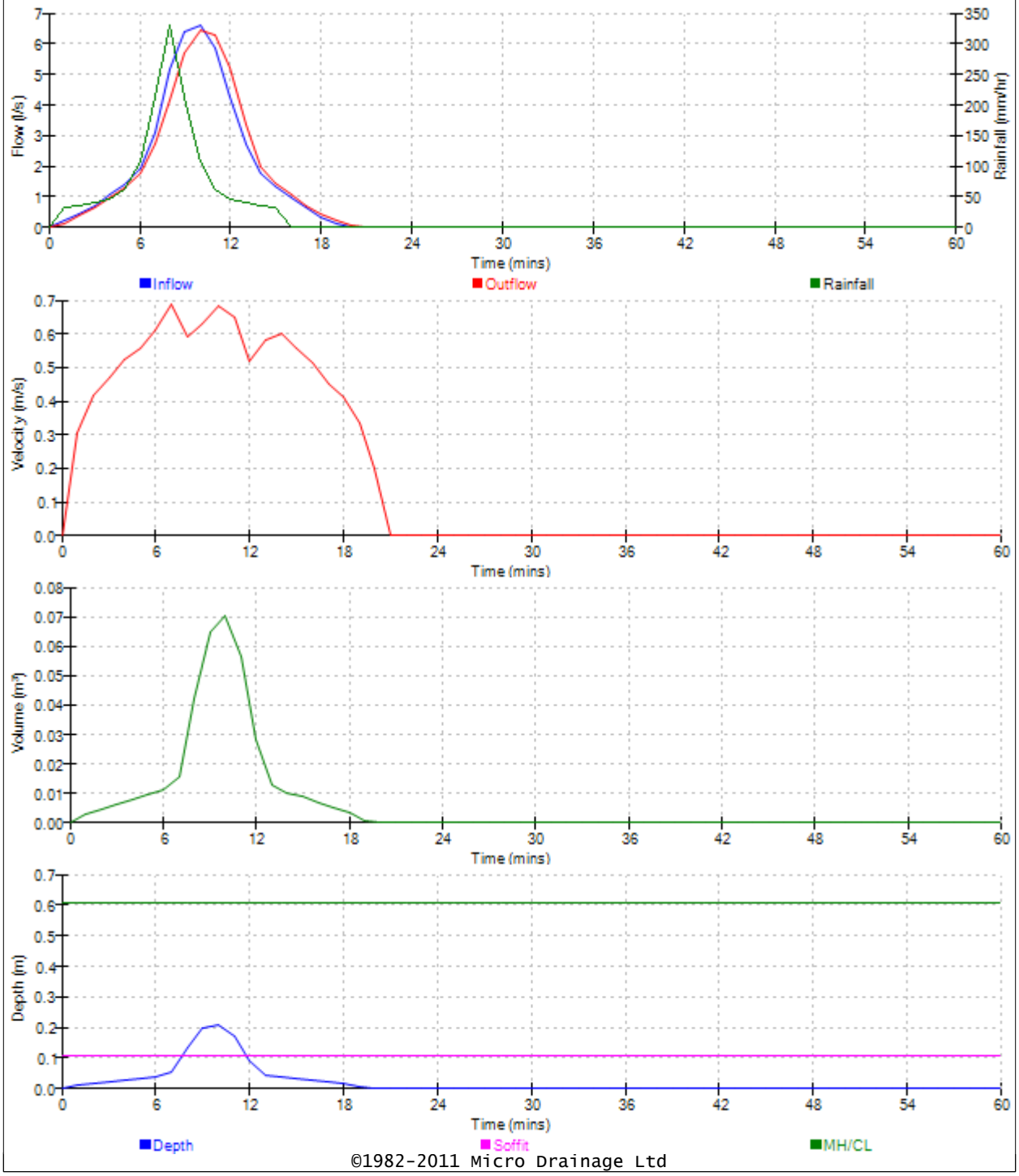
Dixon Hurst Kemp		Page 8
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road. Hassocks Surface Water Drainage Design Simulation Rev03	Micro Drainage
Date Nov 25 File COMBINED ATTENUATION ...	Designed by JS Checked by	
Elstree Computing Ltd	Network W.12.6	

Graphs for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Summer
Status: OK



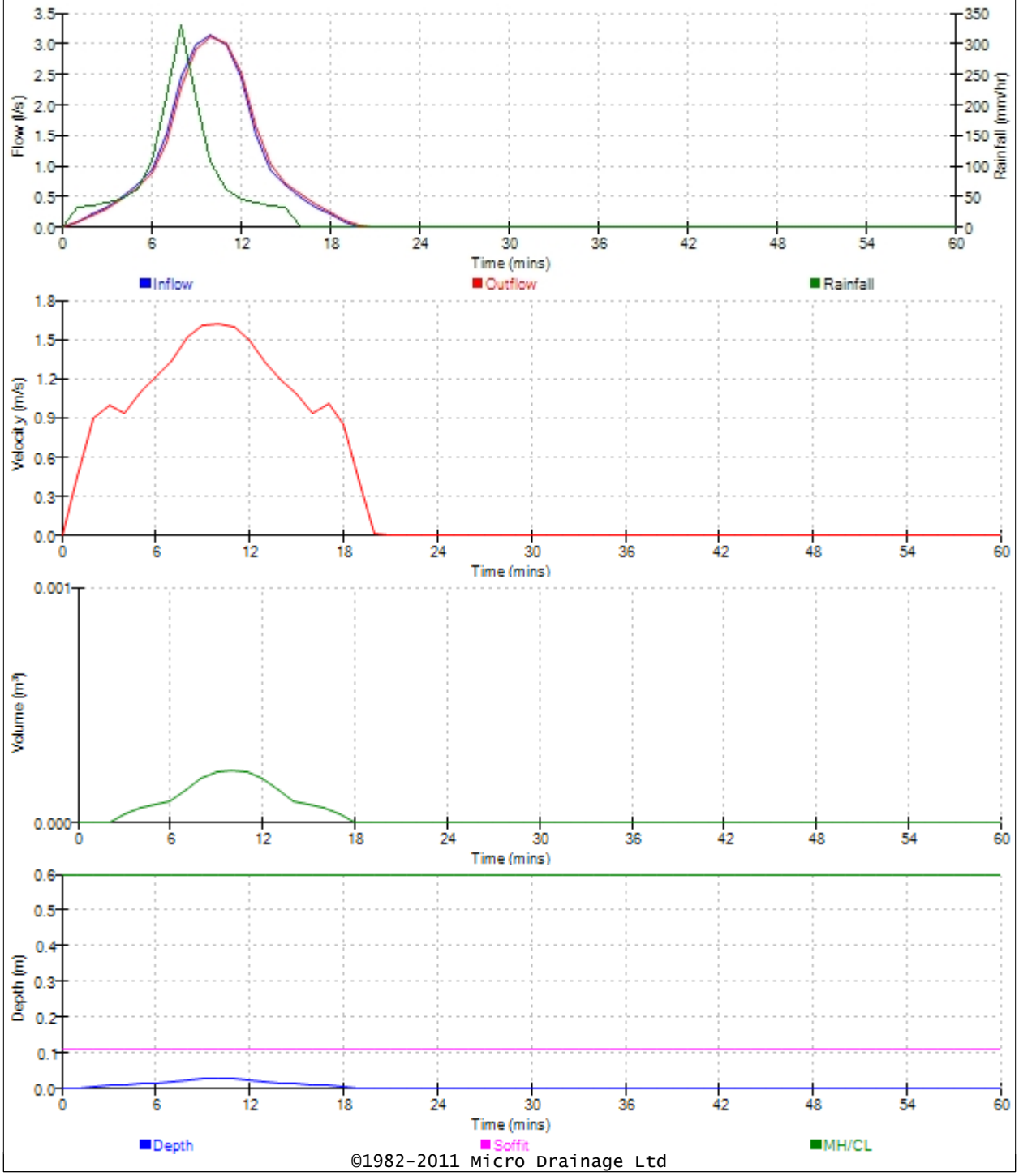
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Graphs for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Summer
Status: SURCHARGED



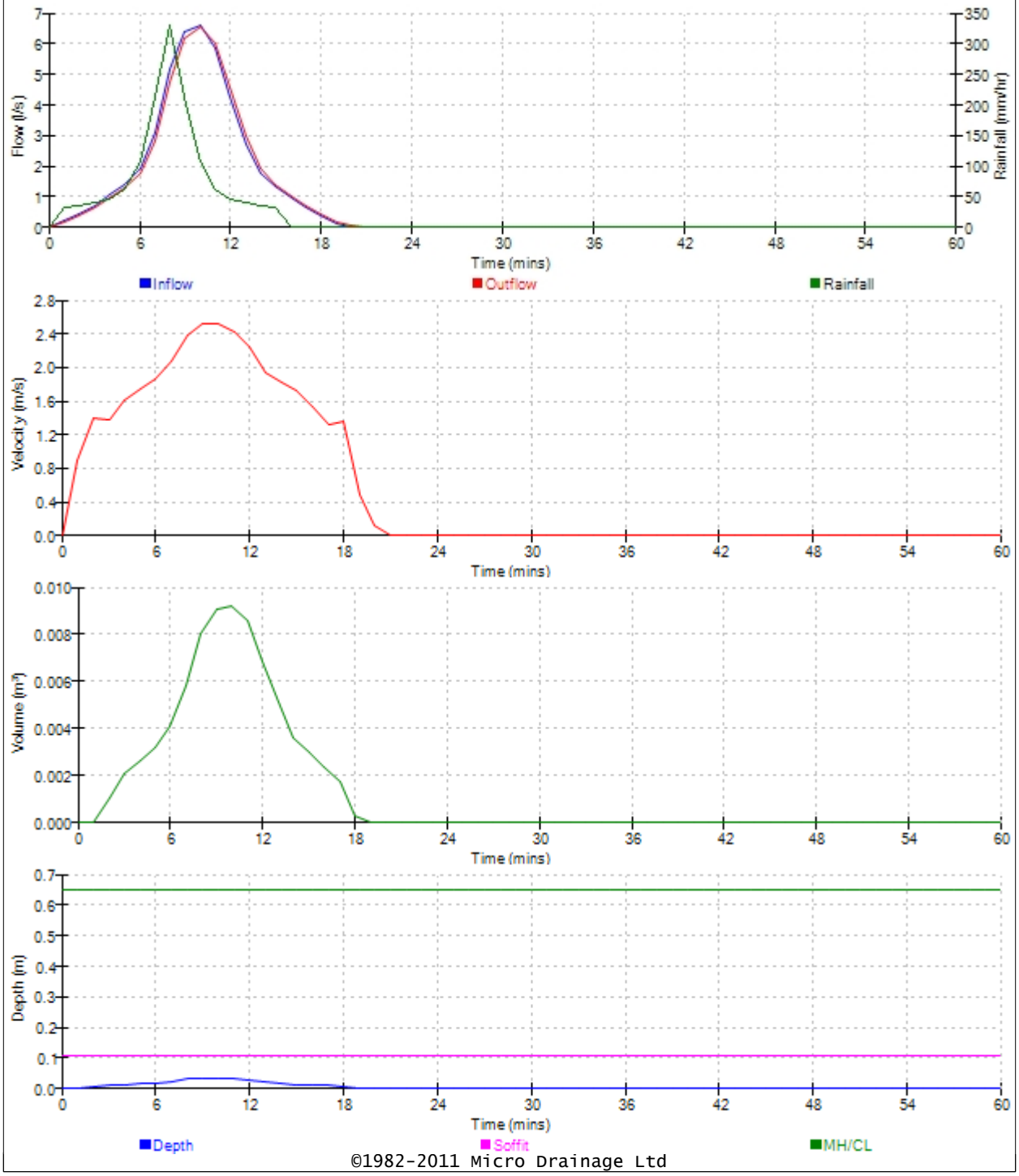
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Summer
Status: OK



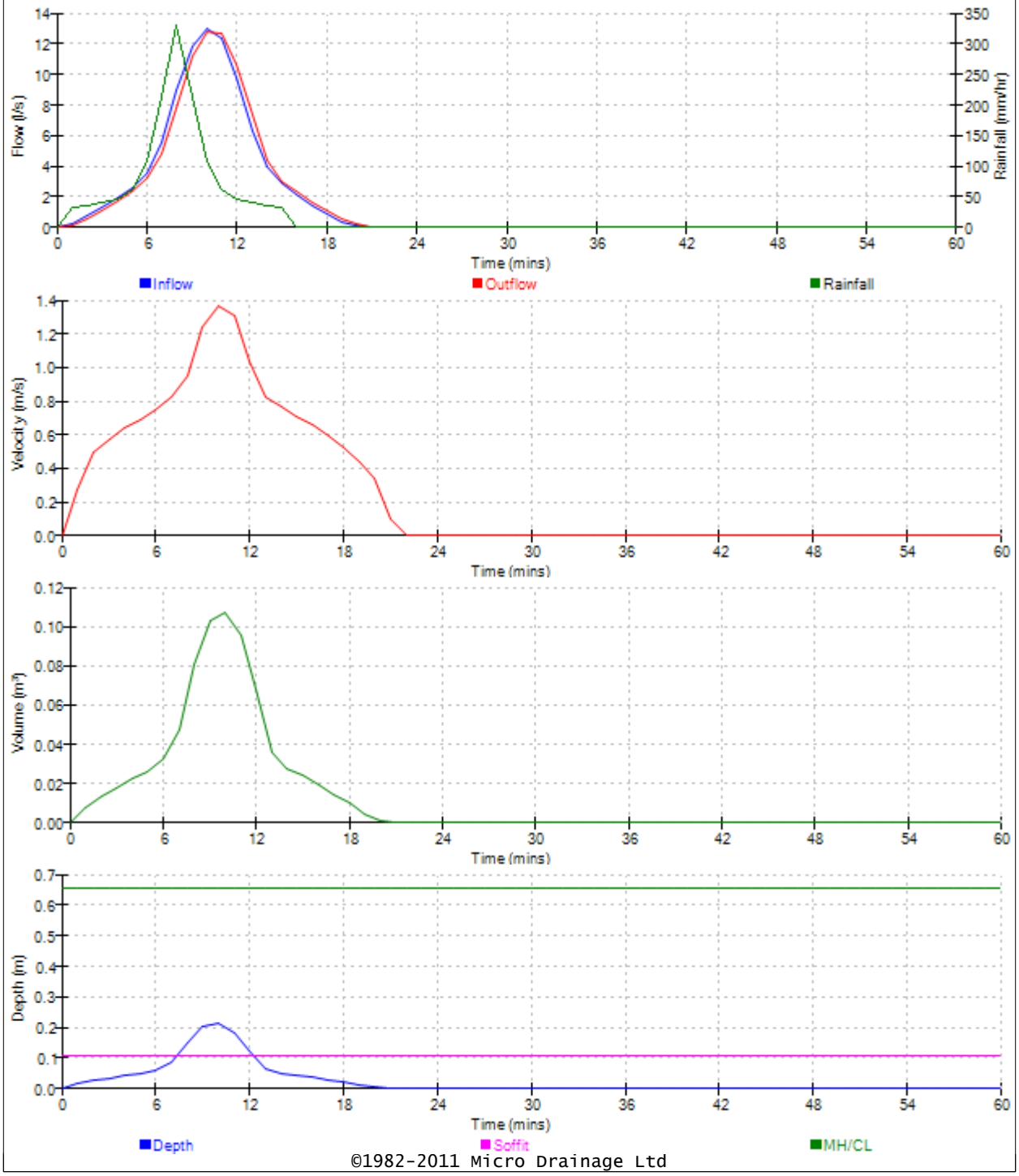
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Graphs for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Summer
Status: OK



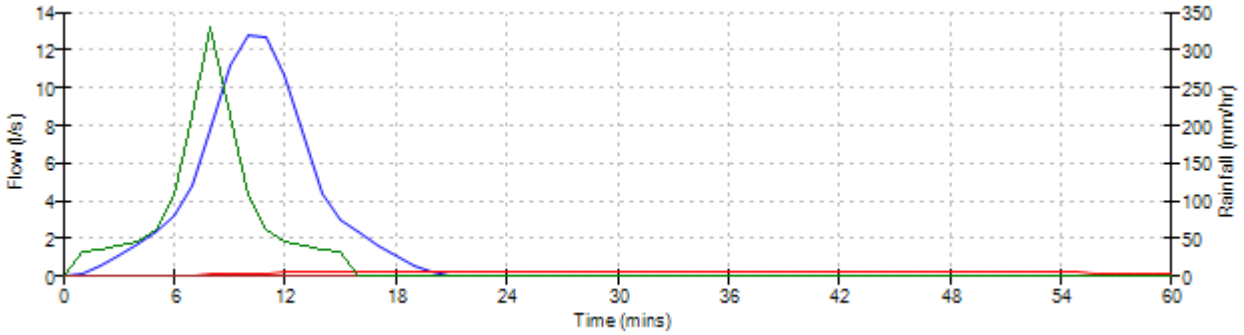
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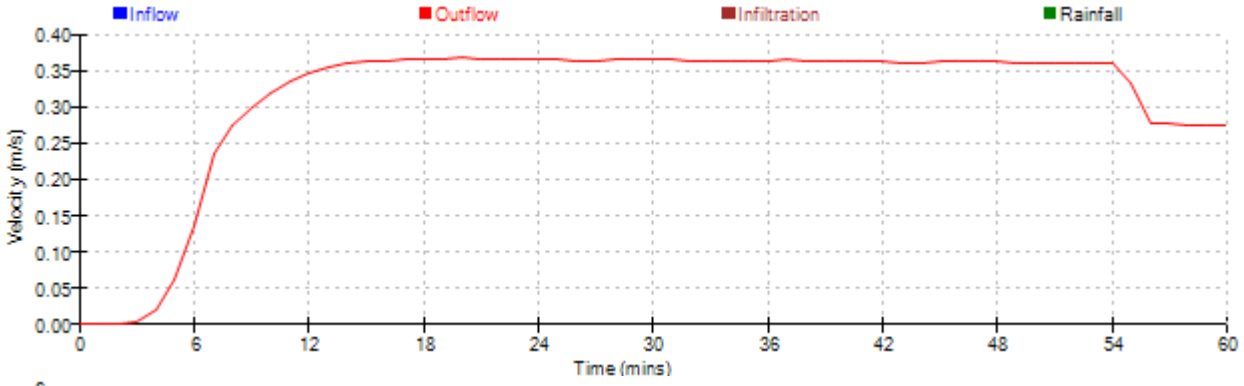
Graphs for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Summer
Status: SURCHARGED

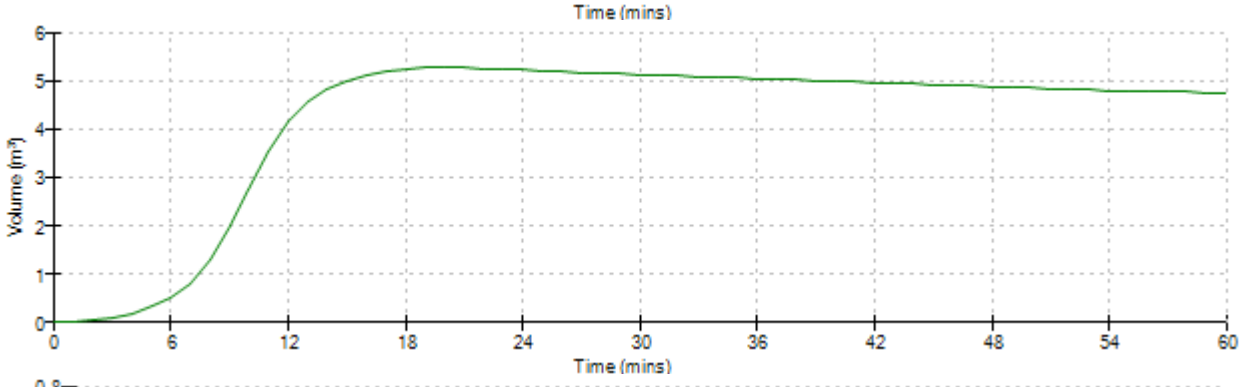


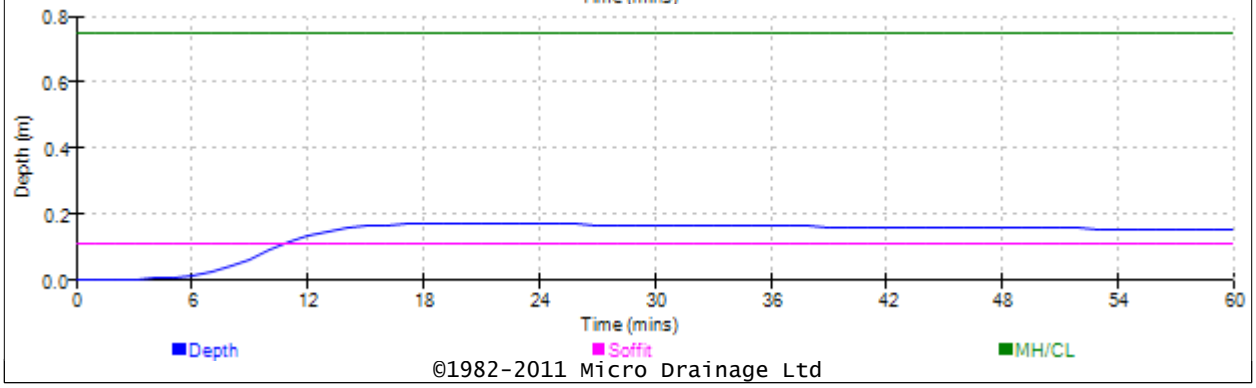
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Graphs for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Summer
Status: SURCHARGED



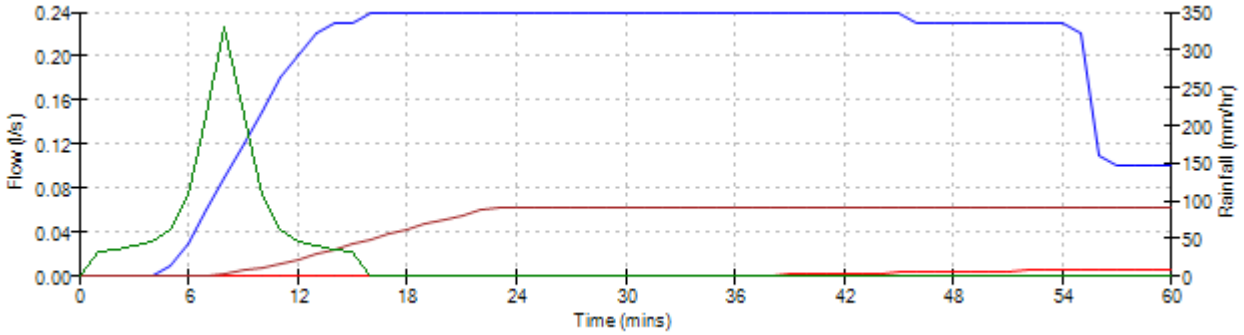


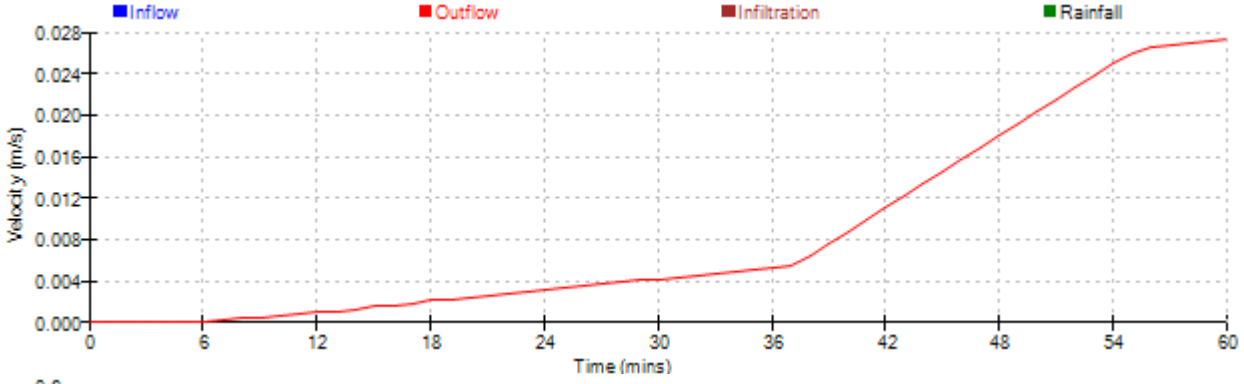


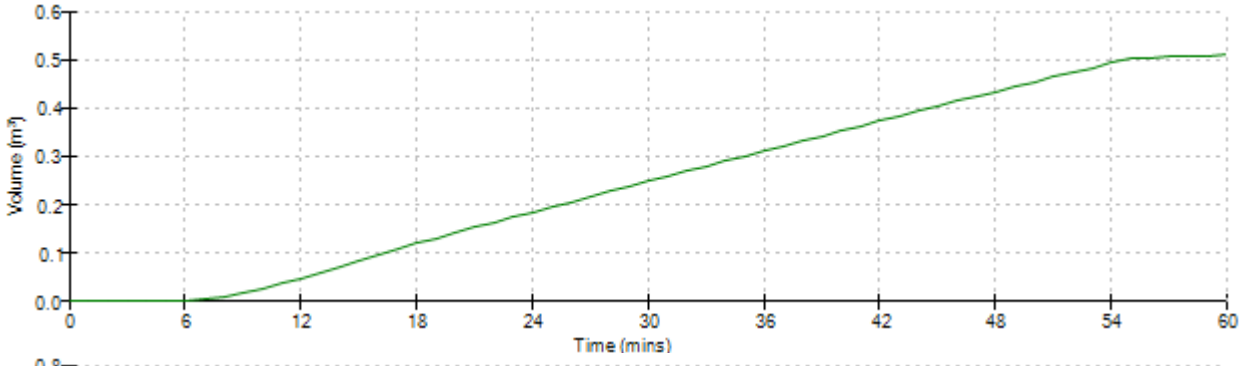


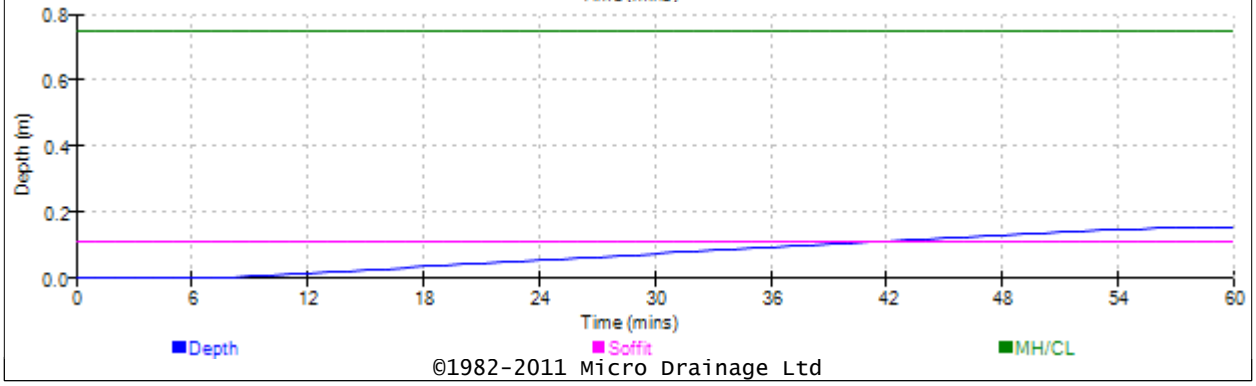
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.402	63.508	-0.108	0.0	0.5	0.1
2	65.404	63.514	-0.106	0.0	0.9	0.2
3	65.407	63.519	-0.103	0.0	1.3	0.3
4	65.410	63.524	-0.100	0.0	1.1	0.5
5	65.412	63.529	-0.098	0.0	1.2	0.6
6	65.414	63.535	-0.096	0.0	1.4	0.9
7	65.417	63.548	-0.093	0.0	1.6	1.4
8	65.423	63.627	-0.087	0.0	1.7	2.3
9	65.425	63.691	-0.085	0.0	1.9	2.9
10	65.425	63.705	-0.085	0.0	1.9	3.1
11	65.425	63.667	-0.085	0.0	1.9	3.0
12	65.423	63.587	-0.087	0.0	1.7	2.5
13	65.417	63.540	-0.093	0.0	1.6	1.7
14	65.414	63.531	-0.096	0.0	1.4	1.0
15	65.412	63.527	-0.098	0.0	1.2	0.7
16	65.410	63.521	-0.100	0.0	1.2	0.5
17	65.407	63.516	-0.103	0.0	1.3	0.4
18	65.404	63.510	-0.106	0.0	0.9	0.2
19	65.402	63.502	-0.108	0.0	0.4	0.1
20	65.400	63.495	-0.110	0.0	0.0	0.0
21	65.400	63.494	-0.110	0.0	0.0	0.0
22	65.400	63.494	-0.110	0.0	0.0	0.0
23	65.400	63.494	-0.110	0.0	0.0	0.0
24	65.400	63.494	-0.110	0.0	0.0	0.0
25	65.400	63.494	-0.110	0.0	0.0	0.0
26	65.400	63.494	-0.110	0.0	0.0	0.0
27	65.400	63.494	-0.110	0.0	0.0	0.0
28	65.400	63.494	-0.110	0.0	0.0	0.0
29	65.400	63.494	-0.110	0.0	0.0	0.0
30	65.400	63.494	-0.110	0.0	0.0	0.0
31	65.400	63.494	-0.110	0.0	0.0	0.0
32	65.400	63.494	-0.110	0.0	0.0	0.0
33	65.400	63.494	-0.110	0.0	0.0	0.0
34	65.400	63.494	-0.110	0.0	0.0	0.0
35	65.400	63.494	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.508	63.462	-0.097	0.0	0.3	0.1
2	63.514	63.471	-0.090	0.0	0.4	0.4
3	63.519	63.479	-0.085	0.0	0.5	0.6
4	63.524	63.486	-0.080	0.0	0.5	1.0
5	63.529	63.493	-0.076	0.0	0.6	1.3
6	63.535	63.503	-0.069	0.0	0.6	1.8
7	63.548	63.528	-0.056	0.0	0.7	2.7
8	63.627	63.596	0.023	0.0	0.6	4.2
9	63.691	63.645	0.086	0.0	0.6	5.7
10	63.705	63.656	0.101	0.0	0.7	6.4
11	63.667	63.628	0.063	0.0	0.6	6.3
12	63.587	63.568	-0.017	0.0	0.5	5.2
13	63.540	63.510	-0.064	0.0	0.6	3.4
14	63.531	63.496	-0.073	0.0	0.6	2.0
15	63.527	63.489	-0.077	0.0	0.6	1.4
16	63.521	63.481	-0.083	0.0	0.5	1.1
17	63.516	63.474	-0.088	0.0	0.5	0.7
18	63.510	63.466	-0.094	0.0	0.4	0.5
19	63.502	63.457	-0.102	0.0	0.3	0.2
20	63.495	63.450	-0.109	0.0	0.2	0.1
21	63.494	63.444	-0.110	0.0	0.0	0.0
22	63.494	63.444	-0.110	0.0	0.0	0.0
23	63.494	63.444	-0.110	0.0	0.0	0.0
24	63.494	63.444	-0.110	0.0	0.0	0.0
25	63.494	63.444	-0.110	0.0	0.0	0.0
26	63.494	63.444	-0.110	0.0	0.0	0.0
27	63.494	63.444	-0.110	0.0	0.0	0.0
28	63.494	63.444	-0.110	0.0	0.0	0.0
29	63.494	63.444	-0.110	0.0	0.0	0.0
30	63.494	63.444	-0.110	0.0	0.0	0.0
31	63.494	63.444	-0.110	0.0	0.0	0.0
32	63.494	63.444	-0.110	0.0	0.0	0.0
33	63.494	63.444	-0.110	0.0	0.0	0.0
34	63.494	63.444	-0.110	0.0	0.0	0.0
35	63.494	63.444	-0.110	0.0	0.0	0.0
36	63.494	63.444	-0.110	0.0	0.0	0.0
37	63.494	63.444	-0.110	0.0	0.0	0.0
38	63.494	63.444	-0.110	0.0	0.0	0.0
39	63.494	63.444	-0.110	0.0	0.0	0.0
40	63.494	63.444	-0.110	0.0	0.0	0.0
41	63.494	63.444	-0.110	0.0	0.0	0.0
42	63.494	63.444	-0.110	0.0	0.0	0.0
43	63.494	63.444	-0.110	0.0	0.0	0.0
44	63.494	63.444	-0.110	0.0	0.0	0.0
45	63.494	63.444	-0.110	0.0	0.0	0.0
46	63.494	63.444	-0.110	0.0	0.0	0.0
47	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
49	63.494	63.444	-0.110	0.0	0.0	0.0
50	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.444	-0.110	0.0	0.0	0.0
52	63.494	63.444	-0.110	0.0	0.0	0.0
53	63.494	63.444	-0.110	0.0	0.0	0.0
54	63.494	63.444	-0.110	0.0	0.0	0.0
55	63.494	63.444	-0.110	0.0	0.0	0.0
56	63.494	63.444	-0.110	0.0	0.0	0.0
57	63.494	63.444	-0.110	0.0	0.0	0.0
58	63.494	63.444	-0.110	0.0	0.0	0.0
59	63.494	63.444	-0.110	0.0	0.0	0.0
60	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.403	65.004	-0.107	0.0	0.4	0.1
2	65.405	65.008	-0.105	0.0	0.9	0.2
3	65.409	65.012	-0.101	0.0	1.0	0.3
4	65.411	65.014	-0.099	0.0	0.9	0.5
5	65.413	65.015	-0.097	0.0	1.1	0.6
6	65.415	65.018	-0.095	0.0	1.2	0.9
7	65.419	65.024	-0.091	0.0	1.3	1.4
8	65.425	65.031	-0.085	0.0	1.5	2.3
9	65.428	65.035	-0.082	0.0	1.6	2.9
10	65.428	65.035	-0.082	0.0	1.6	3.1
11	65.428	65.033	-0.082	0.0	1.6	3.0
12	65.425	65.027	-0.085	0.0	1.5	2.5
13	65.419	65.022	-0.091	0.0	1.3	1.7
14	65.415	65.017	-0.095	0.0	1.2	1.0
15	65.413	65.015	-0.097	0.0	1.1	0.7
16	65.411	65.013	-0.099	0.0	0.9	0.5
17	65.409	65.011	-0.101	0.0	1.0	0.4
18	65.405	65.006	-0.105	0.0	0.9	0.2
19	65.403	65.002	-0.107	0.0	0.4	0.1
20	65.400	65.000	-0.110	0.0	0.0	0.0
21	65.400	65.000	-0.110	0.0	0.0	0.0
22	65.400	65.000	-0.110	0.0	0.0	0.0
23	65.400	65.000	-0.110	0.0	0.0	0.0
24	65.400	65.000	-0.110	0.0	0.0	0.0
25	65.400	65.000	-0.110	0.0	0.0	0.0
26	65.400	65.000	-0.110	0.0	0.0	0.0
27	65.400	65.000	-0.110	0.0	0.0	0.0
28	65.400	65.000	-0.110	0.0	0.0	0.0
29	65.400	65.000	-0.110	0.0	0.0	0.0
30	65.400	65.000	-0.110	0.0	0.0	0.0
31	65.400	65.000	-0.110	0.0	0.0	0.0
32	65.400	65.000	-0.110	0.0	0.0	0.0
33	65.400	65.000	-0.110	0.0	0.0	0.0
34	65.400	65.000	-0.110	0.0	0.0	0.0
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.004	63.462	-0.106	0.0	0.9	0.2
2	65.008	63.471	-0.102	0.0	1.4	0.4
3	65.012	63.479	-0.098	0.0	1.4	0.7
4	65.014	63.486	-0.096	0.0	1.6	1.0
5	65.015	63.493	-0.095	0.0	1.7	1.3
6	65.018	63.503	-0.092	0.0	1.9	1.8
7	65.024	63.528	-0.086	0.0	2.1	2.8
8	65.031	63.596	-0.079	0.0	2.4	4.8
9	65.035	63.645	-0.075	0.0	2.5	6.2
10	65.035	63.656	-0.075	0.0	2.5	6.6
11	65.033	63.628	-0.077	0.0	2.4	6.0
12	65.027	63.568	-0.083	0.0	2.3	4.6
13	65.022	63.510	-0.088	0.0	1.9	3.0
14	65.017	63.496	-0.093	0.0	1.8	1.9
15	65.015	63.489	-0.095	0.0	1.7	1.4
16	65.013	63.481	-0.097	0.0	1.5	1.0
17	65.011	63.474	-0.099	0.0	1.3	0.7
18	65.006	63.466	-0.104	0.0	1.4	0.4
19	65.002	63.457	-0.108	0.0	0.5	0.2
20	65.000	63.450	-0.110	0.0	0.1	0.1
21	65.000	63.444	-0.110	0.0	0.0	0.0
22	65.000	63.444	-0.110	0.0	0.0	0.0
23	65.000	63.444	-0.110	0.0	0.0	0.0
24	65.000	63.444	-0.110	0.0	0.0	0.0
25	65.000	63.444	-0.110	0.0	0.0	0.0
26	65.000	63.444	-0.110	0.0	0.0	0.0
27	65.000	63.444	-0.110	0.0	0.0	0.0
28	65.000	63.444	-0.110	0.0	0.0	0.0
29	65.000	63.444	-0.110	0.0	0.0	0.0
30	65.000	63.444	-0.110	0.0	0.0	0.0
31	65.000	63.444	-0.110	0.0	0.0	0.0
32	65.000	63.444	-0.110	0.0	0.0	0.0
33	65.000	63.444	-0.110	0.0	0.0	0.0
34	65.000	63.444	-0.110	0.0	0.0	0.0
35	65.000	63.444	-0.110	0.0	0.0	0.0
36	65.000	63.444	-0.110	0.0	0.0	0.0
37	65.000	63.444	-0.110	0.0	0.0	0.0
38	65.000	63.444	-0.110	0.0	0.0	0.0
39	65.000	63.444	-0.110	0.0	0.0	0.0
40	65.000	63.444	-0.110	0.0	0.0	0.0
41	65.000	63.444	-0.110	0.0	0.0	0.0
42	65.000	63.444	-0.110	0.0	0.0	0.0
43	65.000	63.444	-0.110	0.0	0.0	0.0
44	65.000	63.444	-0.110	0.0	0.0	0.0
45	65.000	63.444	-0.110	0.0	0.0	0.0
46	65.000	63.444	-0.110	0.0	0.0	0.0
47	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
49	65.000	63.444	-0.110	0.0	0.0	0.0
50	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.444	-0.110	0.0	0.0	0.0
52	65.000	63.444	-0.110	0.0	0.0	0.0
53	65.000	63.444	-0.110	0.0	0.0	0.0
54	65.000	63.444	-0.110	0.0	0.0	0.0
55	65.000	63.444	-0.110	0.0	0.0	0.0
56	65.000	63.444	-0.110	0.0	0.0	0.0
57	65.000	63.444	-0.110	0.0	0.0	0.0
58	65.000	63.444	-0.110	0.0	0.0	0.0
59	65.000	63.444	-0.110	0.0	0.0	0.0
60	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.462	63.250	-0.092	0.0	0.3	0.1
2	63.471	63.251	-0.083	0.0	0.5	0.6
3	63.479	63.253	-0.075	0.0	0.6	1.1
4	63.486	63.256	-0.068	0.0	0.6	1.7
5	63.493	63.261	-0.061	0.0	0.7	2.4
6	63.503	63.267	-0.051	0.0	0.7	3.2
7	63.528	63.276	-0.026	0.0	0.8	4.8
8	63.596	63.292	0.042	0.0	1.0	7.8
9	63.645	63.315	0.091	0.0	1.2	11.2
10	63.656	63.340	0.102	0.0	1.4	12.8
11	63.628	63.365	0.074	0.0	1.3	12.7
12	63.568	63.385	0.014	0.0	1.0	10.7
13	63.510	63.399	-0.044	0.0	0.8	7.4
14	63.496	63.407	-0.059	0.0	0.8	4.3
15	63.489	63.413	-0.065	0.0	0.7	3.0
16	63.481	63.417	-0.073	0.0	0.7	2.3
17	63.474	63.419	-0.081	0.0	0.6	1.6
18	63.466	63.421	-0.088	0.0	0.5	1.0
19	63.457	63.422	-0.097	0.0	0.4	0.6
20	63.450	63.422	-0.104	0.0	0.3	0.2
21	63.444	63.421	-0.110	0.0	0.1	0.1
22	63.444	63.421	-0.110	0.0	0.0	0.0
23	63.444	63.420	-0.110	0.0	0.0	0.0
24	63.444	63.420	-0.110	0.0	0.0	0.0
25	63.444	63.419	-0.110	0.0	0.0	0.0
26	63.444	63.419	-0.110	0.0	0.0	0.0
27	63.444	63.418	-0.110	0.0	0.0	0.0
28	63.444	63.418	-0.110	0.0	0.0	0.0
29	63.444	63.417	-0.110	0.0	0.0	0.0
30	63.444	63.417	-0.110	0.0	0.0	0.0
31	63.444	63.417	-0.110	0.0	0.0	0.0
32	63.444	63.416	-0.110	0.0	0.0	0.0
33	63.444	63.416	-0.110	0.0	0.0	0.0
34	63.444	63.415	-0.110	0.0	0.0	0.0
35	63.444	63.415	-0.110	0.0	0.0	0.0
36	63.444	63.414	-0.110	0.0	0.0	0.0
37	63.444	63.414	-0.110	0.0	0.0	0.0
38	63.444	63.413	-0.110	0.0	0.0	0.0
39	63.444	63.413	-0.110	0.0	0.0	0.0
40	63.444	63.412	-0.110	0.0	0.0	0.0
41	63.444	63.412	-0.110	0.0	0.0	0.0
42	63.444	63.411	-0.110	0.0	0.0	0.0
43	63.444	63.411	-0.110	0.0	0.0	0.0
44	63.444	63.411	-0.110	0.0	0.0	0.0
45	63.444	63.410	-0.110	0.0	0.0	0.0
46	63.444	63.410	-0.110	0.0	0.0	0.0
47	63.444	63.409	-0.110	0.0	0.0	0.0
48	63.444	63.409	-0.110	0.0	0.0	0.0
49	63.444	63.408	-0.110	0.0	0.0	0.0
50	63.444	63.408	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.444	63.407	-0.110	0.0	0.0	0.0
52	63.444	63.407	-0.110	0.0	0.0	0.0
53	63.444	63.406	-0.110	0.0	0.0	0.0
54	63.444	63.406	-0.110	0.0	0.0	0.0
55	63.444	63.406	-0.110	0.0	0.0	0.0
56	63.444	63.405	-0.110	0.0	0.0	0.0
57	63.444	63.405	-0.110	0.0	0.0	0.0
58	63.444	63.405	-0.110	0.0	0.0	0.0
59	63.444	63.405	-0.110	0.0	0.0	0.0
60	63.444	63.405	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.251	63.100	-0.109	0.0	0.0	0.0
3	63.253	63.100	-0.107	0.0	0.0	0.0
4	63.256	63.100	-0.104	0.0	0.0	0.0
5	63.261	63.100	-0.099	0.0	0.1	0.0
6	63.267	63.101	-0.093	0.0	0.1	0.0
7	63.276	63.102	-0.084	0.0	0.2	0.1
8	63.292	63.104	-0.068	0.0	0.3	0.1
9	63.315	63.106	-0.045	0.0	0.3	0.1
10	63.340	63.109	-0.020	0.0	0.3	0.2
11	63.365	63.112	0.005	0.0	0.3	0.2
12	63.385	63.115	0.025	0.0	0.3	0.2
13	63.399	63.118	0.039	0.0	0.4	0.2
14	63.407	63.122	0.047	0.0	0.4	0.2
15	63.413	63.126	0.053	0.0	0.4	0.2
16	63.417	63.129	0.057	0.0	0.4	0.2
17	63.419	63.133	0.059	0.0	0.4	0.2
18	63.421	63.136	0.061	0.0	0.4	0.2
19	63.422	63.140	0.062	0.0	0.4	0.2
20	63.422	63.143	0.062	0.0	0.4	0.2
21	63.421	63.147	0.061	0.0	0.4	0.2
22	63.421	63.149	0.061	0.0	0.4	0.2
23	63.420	63.152	0.060	0.0	0.4	0.2
24	63.420	63.156	0.060	0.0	0.4	0.2
25	63.419	63.159	0.059	0.0	0.4	0.2
26	63.419	63.162	0.059	0.0	0.4	0.2
27	63.418	63.165	0.058	0.0	0.4	0.2
28	63.418	63.168	0.058	0.0	0.4	0.2
29	63.417	63.172	0.057	0.0	0.4	0.2
30	63.417	63.175	0.057	0.0	0.4	0.2
31	63.417	63.178	0.057	0.0	0.4	0.2
32	63.416	63.181	0.056	0.0	0.4	0.2
33	63.416	63.184	0.056	0.0	0.4	0.2
34	63.415	63.187	0.055	0.0	0.4	0.2
35	63.415	63.190	0.055	0.0	0.4	0.2
36	63.414	63.194	0.054	0.0	0.4	0.2
37	63.414	63.197	0.054	0.0	0.4	0.2
38	63.413	63.200	0.053	0.0	0.4	0.2
39	63.413	63.203	0.053	0.0	0.4	0.2
40	63.412	63.206	0.052	0.0	0.4	0.2
41	63.412	63.209	0.052	0.0	0.4	0.2
42	63.411	63.212	0.051	0.0	0.4	0.2
43	63.411	63.215	0.051	0.0	0.4	0.2
44	63.411	63.218	0.051	0.0	0.4	0.2
45	63.410	63.221	0.050	0.0	0.4	0.2
46	63.410	63.224	0.050	0.0	0.4	0.2
47	63.409	63.227	0.049	0.0	0.4	0.2
48	63.409	63.230	0.049	0.0	0.4	0.2
49	63.408	63.233	0.048	0.0	0.4	0.2
50	63.408	63.236	0.048	0.0	0.4	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.407	63.239	0.047	0.0	0.4	0.2
52	63.407	63.242	0.047	0.0	0.4	0.2
53	63.406	63.245	0.046	0.0	0.4	0.2
54	63.406	63.248	0.046	0.0	0.4	0.2
55	63.406	63.250	0.046	0.0	0.3	0.2
56	63.405	63.251	0.045	0.0	0.3	0.1
57	63.405	63.251	0.045	0.0	0.3	0.1
58	63.405	63.252	0.045	0.0	0.3	0.1
59	63.405	63.252	0.045	0.0	0.3	0.1
60	63.405	63.253	0.045	0.0	0.3	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.101	63.096	-0.109	0.0	0.0	0.0
7	63.102	63.096	-0.108	0.0	0.0	0.0
8	63.104	63.096	-0.106	0.0	0.0	0.0
9	63.106	63.096	-0.104	0.0	0.0	0.0
10	63.109	63.096	-0.101	0.0	0.0	0.0
11	63.112	63.096	-0.098	0.0	0.0	0.0
12	63.115	63.096	-0.095	0.0	0.0	0.0
13	63.118	63.096	-0.092	0.0	0.0	0.0
14	63.122	63.096	-0.088	0.0	0.0	0.0
15	63.126	63.096	-0.084	0.0	0.0	0.0
16	63.129	63.096	-0.081	0.0	0.0	0.0
17	63.133	63.096	-0.077	0.0	0.0	0.0
18	63.136	63.096	-0.074	0.0	0.0	0.0
19	63.140	63.096	-0.070	0.0	0.0	0.0
20	63.143	63.096	-0.067	0.0	0.0	0.0
21	63.147	63.096	-0.063	0.0	0.0	0.0
22	63.149	63.096	-0.061	0.0	0.0	0.0
23	63.152	63.096	-0.058	0.0	0.0	0.0
24	63.156	63.096	-0.054	0.0	0.0	0.0
25	63.159	63.096	-0.051	0.0	0.0	0.0
26	63.162	63.096	-0.048	0.0	0.0	0.0
27	63.165	63.096	-0.045	0.0	0.0	0.0
28	63.168	63.096	-0.042	0.0	0.0	0.0
29	63.172	63.096	-0.038	0.0	0.0	0.0
30	63.175	63.096	-0.035	0.0	0.0	0.0
31	63.178	63.096	-0.032	0.0	0.0	0.0
32	63.181	63.096	-0.029	0.0	0.0	0.0
33	63.184	63.096	-0.026	0.0	0.0	0.0
34	63.187	63.096	-0.023	0.0	0.0	0.0
35	63.190	63.096	-0.020	0.0	0.0	0.0
36	63.194	63.096	-0.016	0.0	0.0	0.0
37	63.197	63.096	-0.013	0.0	0.0	0.0
38	63.200	63.096	-0.010	0.0	0.0	0.0
39	63.203	63.096	-0.007	0.0	0.0	0.0
40	63.206	63.096	-0.004	0.0	0.0	0.0
41	63.209	63.096	-0.001	0.0	0.0	0.0
42	63.212	63.096	0.002	0.0	0.0	0.0
43	63.215	63.096	0.005	0.0	0.0	0.0
44	63.218	63.096	0.008	0.0	0.0	0.0
45	63.221	63.096	0.011	0.0	0.0	0.0
46	63.224	63.096	0.014	0.0	0.0	0.0
47	63.227	63.096	0.017	0.0	0.0	0.0
48	63.230	63.096	0.020	0.0	0.0	0.0
49	63.233	63.096	0.023	0.0	0.0	0.0
50	63.236	63.096	0.026	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Summer
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.239	63.096	0.029	0.0	0.0	0.0
52	63.242	63.096	0.032	0.0	0.0	0.0
53	63.245	63.096	0.035	0.0	0.0	0.0
54	63.248	63.096	0.038	0.0	0.0	0.0
55	63.250	63.096	0.040	0.0	0.0	0.0
56	63.251	63.096	0.041	0.0	0.0	0.0
57	63.251	63.096	0.041	0.0	0.0	0.0
58	63.252	63.096	0.042	0.0	0.0	0.0
59	63.252	63.096	0.042	0.0	0.0	0.0
60	63.253	63.096	0.043	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	15
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 15 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.425	-0.085	0.000	0.11	0.0	2.9	OK
1.001	S1	63.672	0.068	0.000	0.88	0.0	5.9	SURCHARGED
2.000	RE2	65.427	-0.083	0.000	0.14	0.0	2.9	OK
2.001	S2	65.034	-0.076	0.000	0.20	0.0	6.0	OK
1.002	S3	63.631	0.077	0.000	1.64	0.0	11.7	SURCHARGED
1.003	S4	63.422	0.062	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.253	0.043	0.000	0.00	0.0	0.0	SURCHARGED

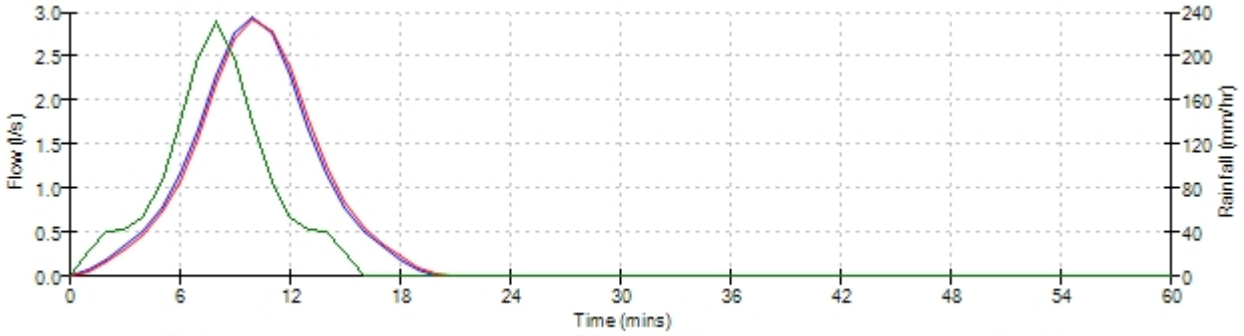
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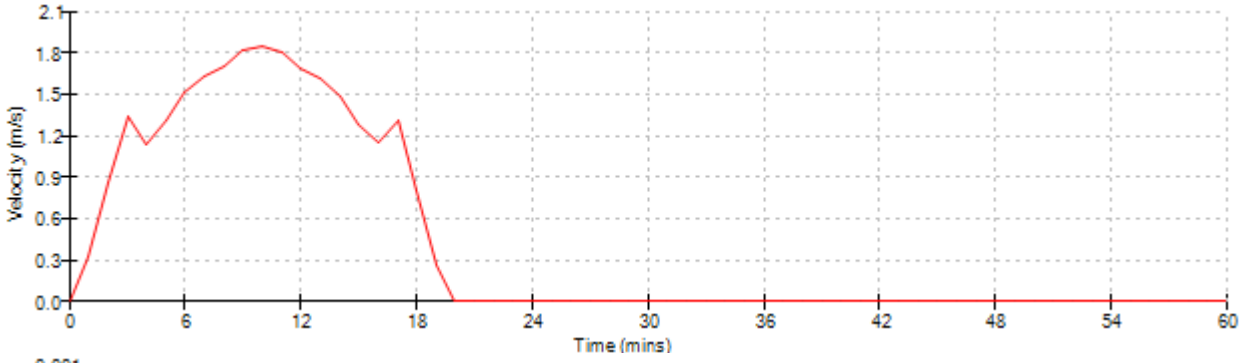
Rainfall Hyetograph for 15 minute 100 year Winter (Storm)

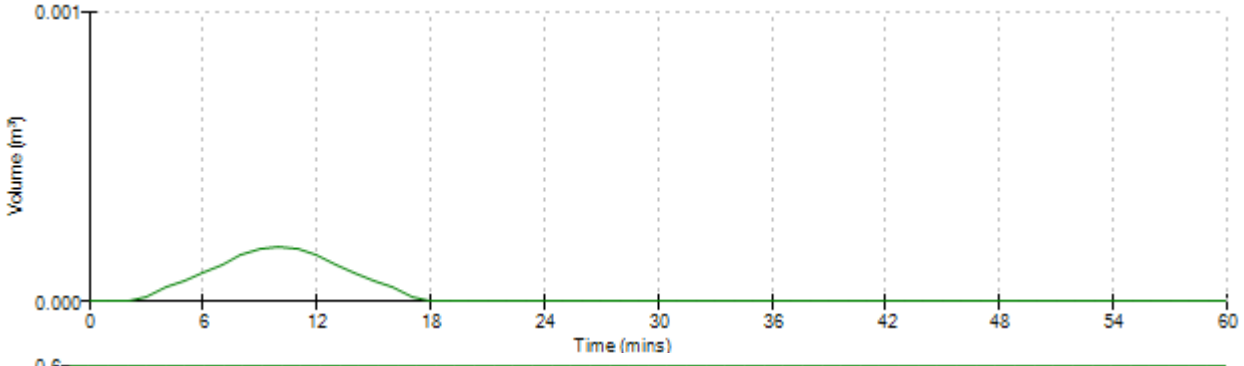
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	22.264	4	53.565	7	199.657	10	140.280	13	42.314
2	40.627	5	86.703	8	231.917	11	86.703	14	40.627
3	42.314	6	140.280	9	199.657	12	53.565	15	22.263

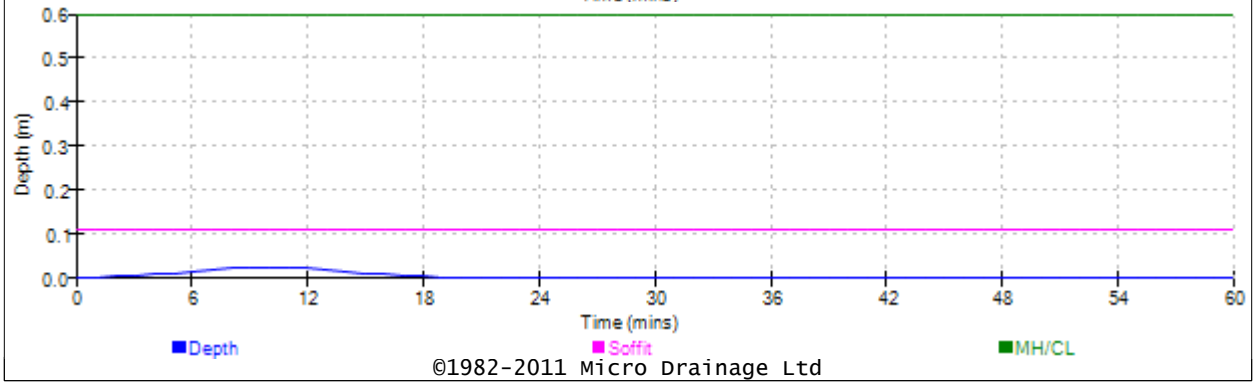
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Winter
Status: OK



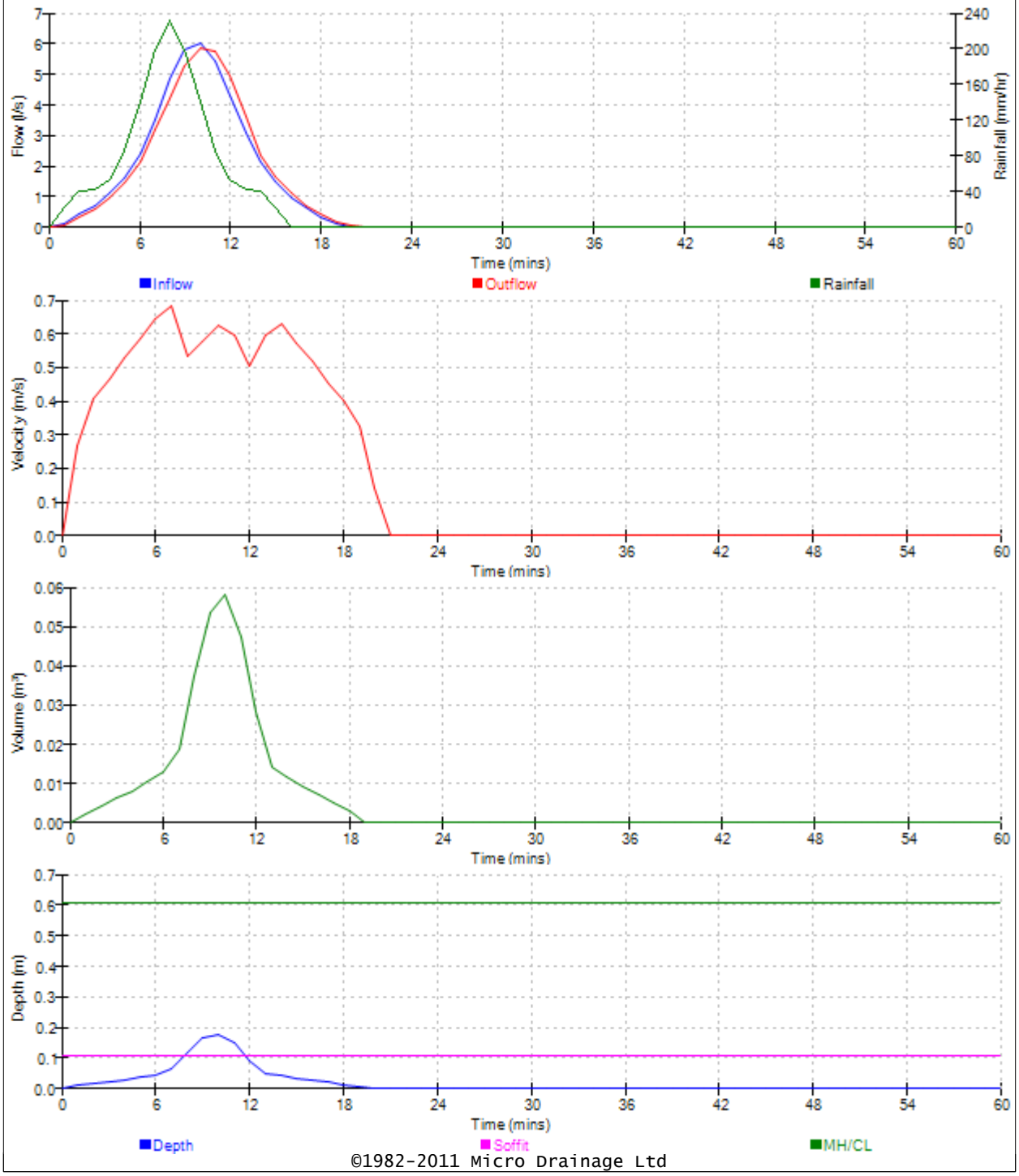






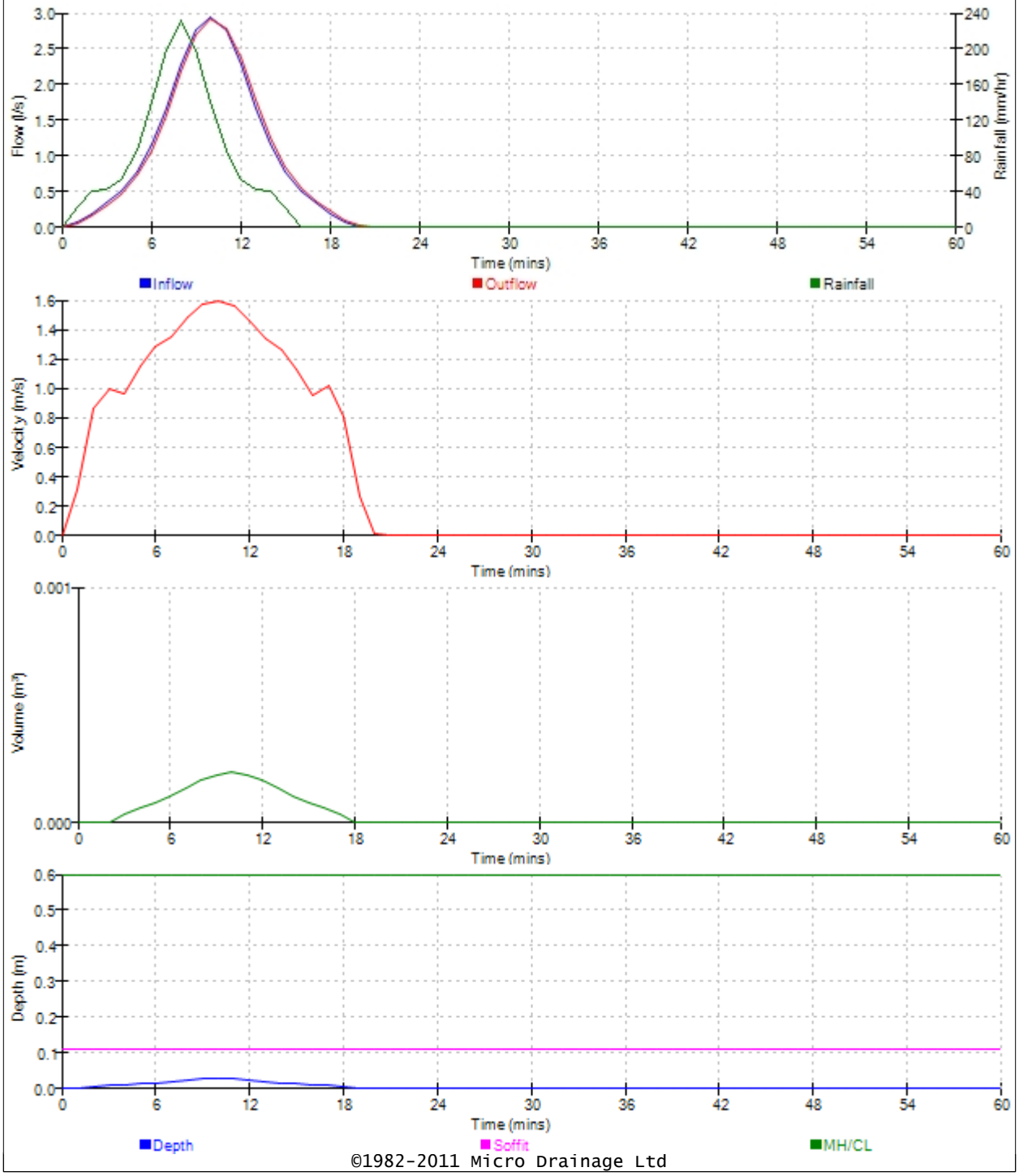
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Graphs for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Winter
Status: SURCHARGED



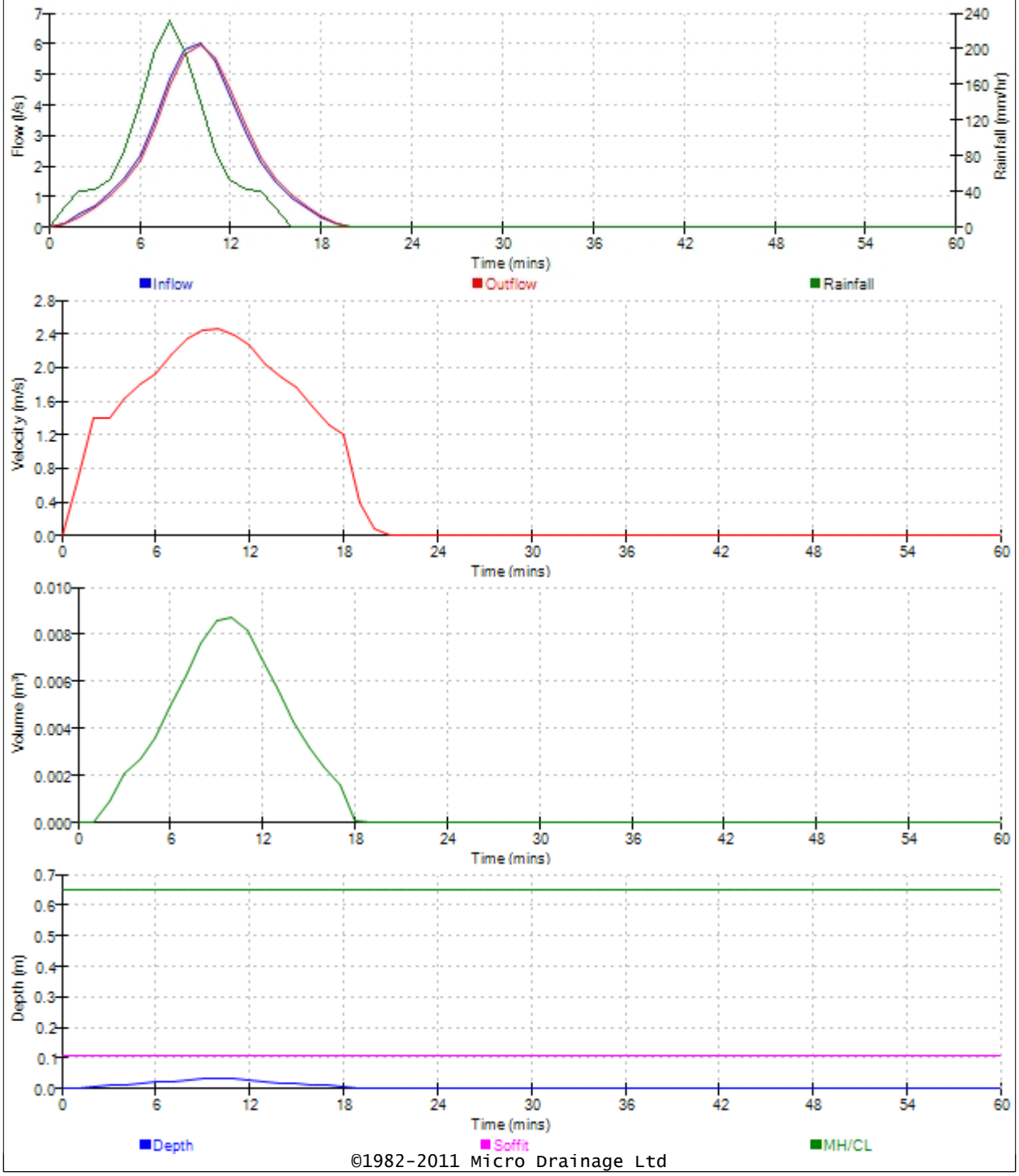
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Winter
Status: OK



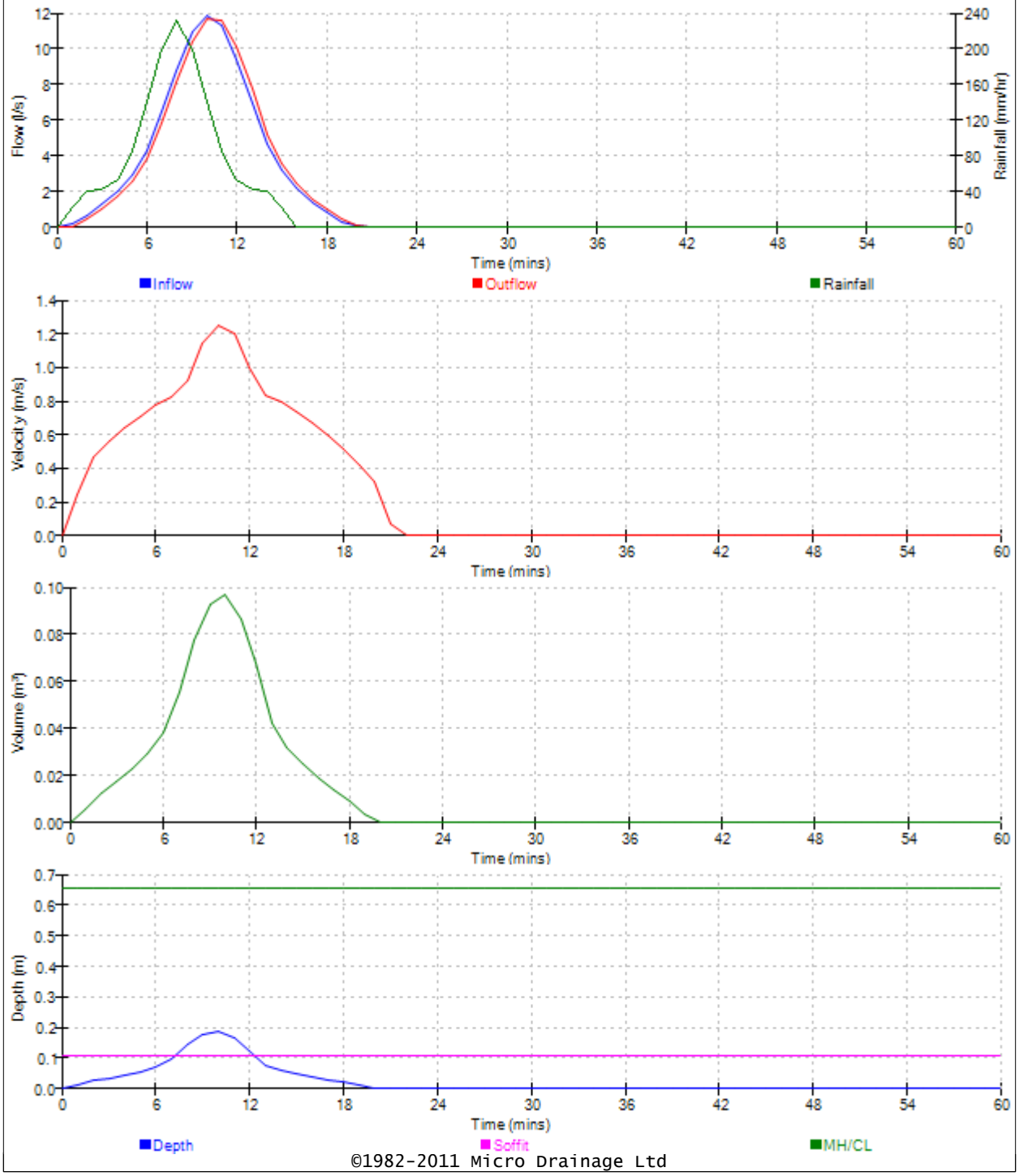
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Graphs for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Winter
Status: OK



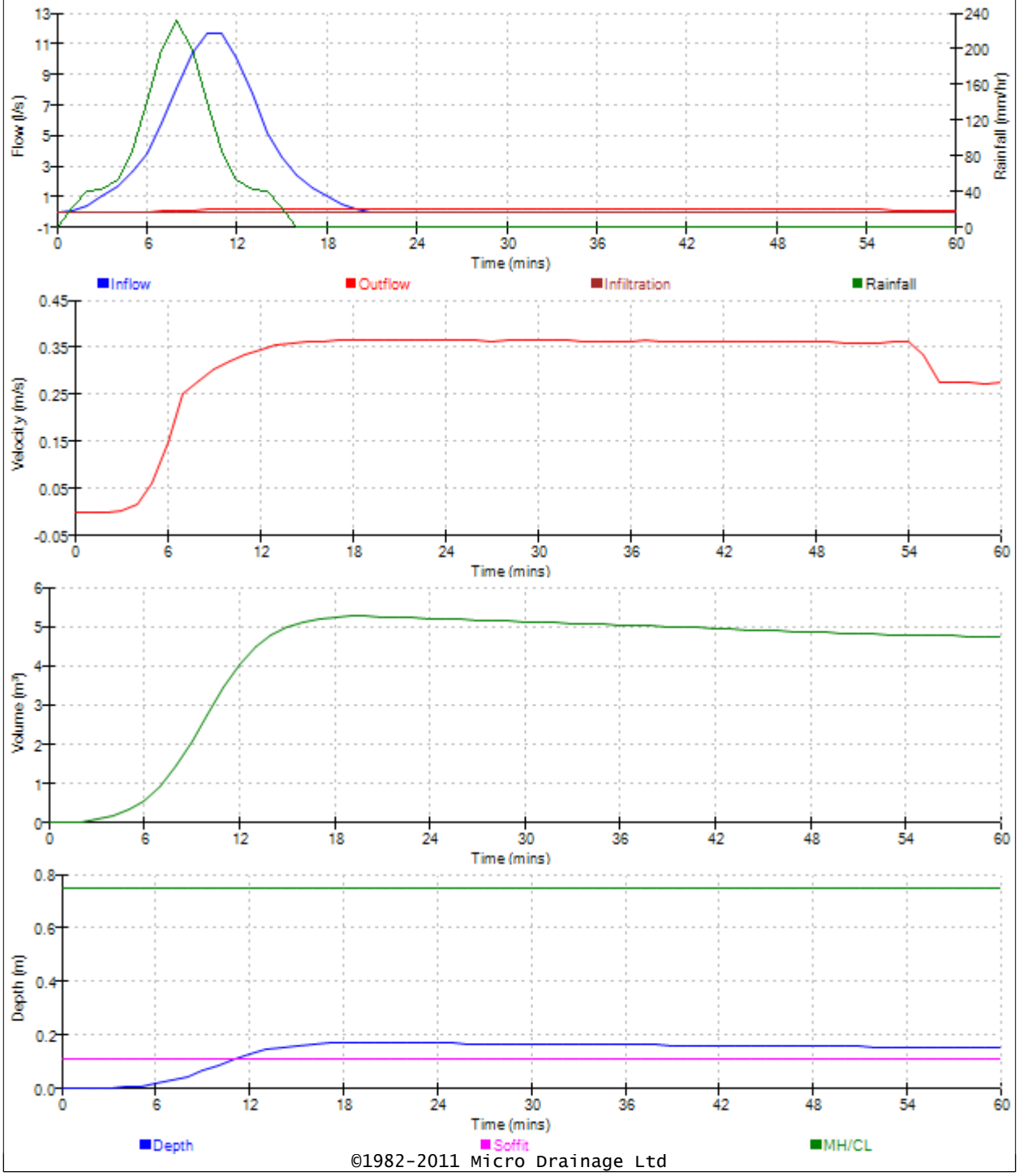
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Graphs for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Winter
Status: SURCHARGED



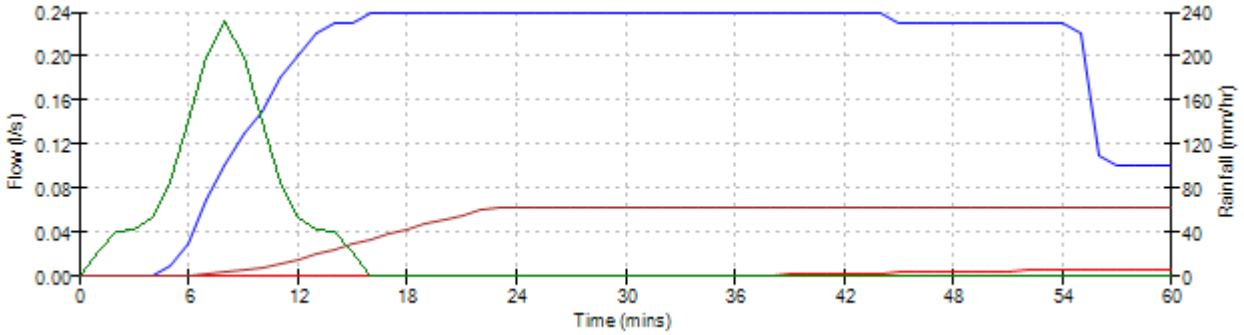
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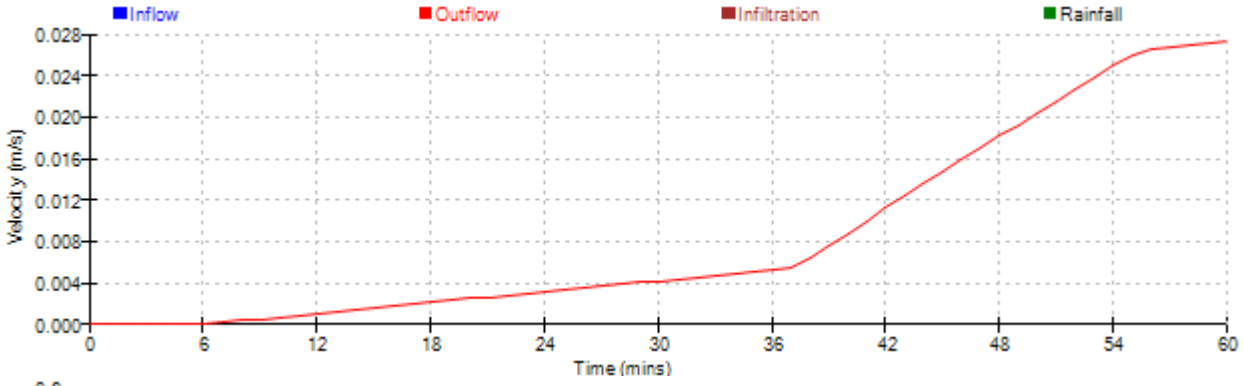
Graphs for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Winter
Status: SURCHARGED

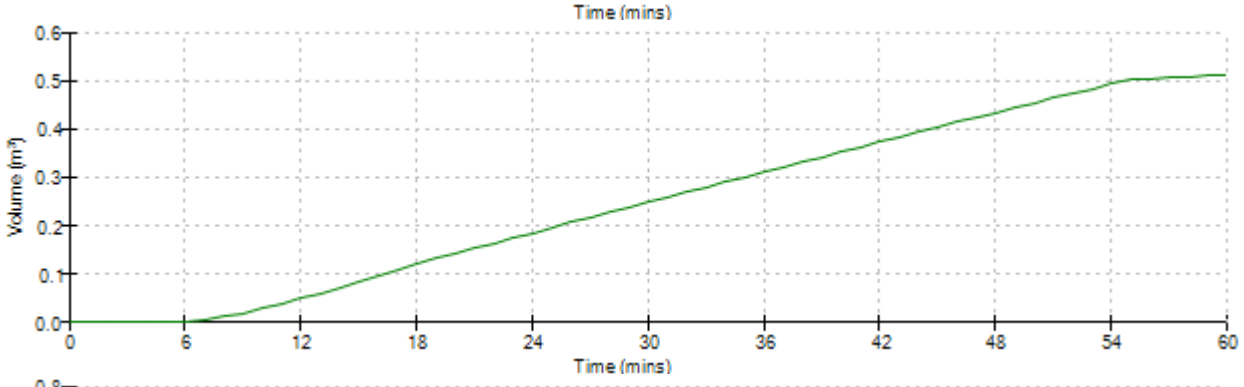


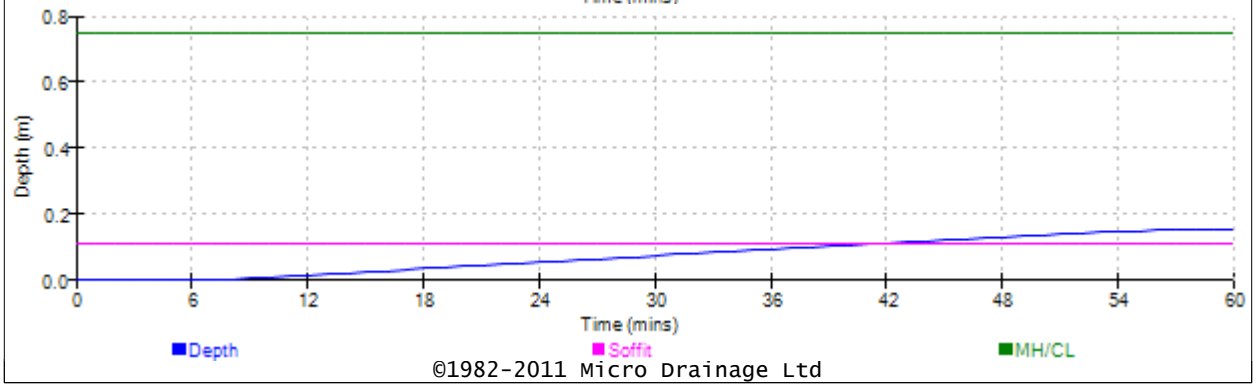
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	63.506	-0.109	0.0	0.3	0.1
2	65.404	63.513	-0.106	0.0	0.9	0.2
3	65.407	63.519	-0.103	0.0	1.3	0.3
4	65.410	63.525	-0.100	0.0	1.1	0.5
5	65.413	63.531	-0.097	0.0	1.3	0.7
6	65.415	63.540	-0.095	0.0	1.5	1.1
7	65.418	63.558	-0.092	0.0	1.6	1.6
8	65.422	63.615	-0.088	0.0	1.7	2.2
9	65.424	63.659	-0.086	0.0	1.8	2.7
10	65.425	63.672	-0.085	0.0	1.8	2.9
11	65.424	63.642	-0.086	0.0	1.8	2.8
12	65.422	63.588	-0.088	0.0	1.7	2.4
13	65.418	63.544	-0.092	0.0	1.6	1.8
14	65.415	63.536	-0.095	0.0	1.5	1.3
15	65.413	63.528	-0.097	0.0	1.3	0.9
16	65.410	63.521	-0.100	0.0	1.2	0.6
17	65.407	63.516	-0.103	0.0	1.3	0.4
18	65.404	63.508	-0.106	0.0	0.8	0.2
19	65.401	63.500	-0.109	0.0	0.3	0.1
20	65.400	63.494	-0.110	0.0	0.0	0.0
21	65.400	63.494	-0.110	0.0	0.0	0.0
22	65.400	63.494	-0.110	0.0	0.0	0.0
23	65.400	63.494	-0.110	0.0	0.0	0.0
24	65.400	63.494	-0.110	0.0	0.0	0.0
25	65.400	63.494	-0.110	0.0	0.0	0.0
26	65.400	63.494	-0.110	0.0	0.0	0.0
27	65.400	63.494	-0.110	0.0	0.0	0.0
28	65.400	63.494	-0.110	0.0	0.0	0.0
29	65.400	63.494	-0.110	0.0	0.0	0.0
30	65.400	63.494	-0.110	0.0	0.0	0.0
31	65.400	63.494	-0.110	0.0	0.0	0.0
32	65.400	63.494	-0.110	0.0	0.0	0.0
33	65.400	63.494	-0.110	0.0	0.0	0.0
34	65.400	63.494	-0.110	0.0	0.0	0.0
35	65.400	63.494	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.506	63.458	-0.098	0.0	0.3	0.1
2	63.513	63.471	-0.091	0.0	0.4	0.3
3	63.519	63.479	-0.085	0.0	0.5	0.6
4	63.525	63.487	-0.079	0.0	0.5	1.0
5	63.531	63.498	-0.073	0.0	0.6	1.5
6	63.540	63.513	-0.064	0.0	0.6	2.2
7	63.558	63.542	-0.046	0.0	0.7	3.2
8	63.615	63.588	0.011	0.0	0.5	4.2
9	63.659	63.622	0.055	0.0	0.6	5.3
10	63.672	63.631	0.068	0.0	0.6	5.9
11	63.642	63.609	0.038	0.0	0.6	5.8
12	63.588	63.568	-0.016	0.0	0.5	4.9
13	63.544	63.520	-0.060	0.0	0.6	3.6
14	63.536	63.503	-0.068	0.0	0.6	2.4
15	63.528	63.491	-0.076	0.0	0.6	1.6
16	63.521	63.481	-0.083	0.0	0.5	1.1
17	63.516	63.473	-0.088	0.0	0.5	0.7
18	63.508	63.465	-0.096	0.0	0.4	0.4
19	63.500	63.456	-0.105	0.0	0.3	0.2
20	63.494	63.448	-0.110	0.0	0.1	0.1
21	63.494	63.444	-0.110	0.0	0.0	0.0
22	63.494	63.444	-0.110	0.0	0.0	0.0
23	63.494	63.444	-0.110	0.0	0.0	0.0
24	63.494	63.444	-0.110	0.0	0.0	0.0
25	63.494	63.444	-0.110	0.0	0.0	0.0
26	63.494	63.444	-0.110	0.0	0.0	0.0
27	63.494	63.444	-0.110	0.0	0.0	0.0
28	63.494	63.444	-0.110	0.0	0.0	0.0
29	63.494	63.444	-0.110	0.0	0.0	0.0
30	63.494	63.444	-0.110	0.0	0.0	0.0
31	63.494	63.444	-0.110	0.0	0.0	0.0
32	63.494	63.444	-0.110	0.0	0.0	0.0
33	63.494	63.444	-0.110	0.0	0.0	0.0
34	63.494	63.444	-0.110	0.0	0.0	0.0
35	63.494	63.444	-0.110	0.0	0.0	0.0
36	63.494	63.444	-0.110	0.0	0.0	0.0
37	63.494	63.444	-0.110	0.0	0.0	0.0
38	63.494	63.444	-0.110	0.0	0.0	0.0
39	63.494	63.444	-0.110	0.0	0.0	0.0
40	63.494	63.444	-0.110	0.0	0.0	0.0
41	63.494	63.444	-0.110	0.0	0.0	0.0
42	63.494	63.444	-0.110	0.0	0.0	0.0
43	63.494	63.444	-0.110	0.0	0.0	0.0
44	63.494	63.444	-0.110	0.0	0.0	0.0
45	63.494	63.444	-0.110	0.0	0.0	0.0
46	63.494	63.444	-0.110	0.0	0.0	0.0
47	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
49	63.494	63.444	-0.110	0.0	0.0	0.0
50	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.444	-0.110	0.0	0.0	0.0
52	63.494	63.444	-0.110	0.0	0.0	0.0
53	63.494	63.444	-0.110	0.0	0.0	0.0
54	63.494	63.444	-0.110	0.0	0.0	0.0
55	63.494	63.444	-0.110	0.0	0.0	0.0
56	63.494	63.444	-0.110	0.0	0.0	0.0
57	63.494	63.444	-0.110	0.0	0.0	0.0
58	63.494	63.444	-0.110	0.0	0.0	0.0
59	63.494	63.444	-0.110	0.0	0.0	0.0
60	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.402	65.003	-0.108	0.0	0.3	0.1
2	65.405	65.008	-0.105	0.0	0.9	0.2
3	65.409	65.012	-0.101	0.0	1.0	0.3
4	65.412	65.014	-0.098	0.0	1.0	0.5
5	65.414	65.017	-0.096	0.0	1.2	0.7
6	65.417	65.021	-0.093	0.0	1.3	1.1
7	65.421	65.025	-0.089	0.0	1.4	1.6
8	65.424	65.030	-0.086	0.0	1.5	2.2
9	65.427	65.033	-0.083	0.0	1.6	2.7
10	65.427	65.034	-0.083	0.0	1.6	2.9
11	65.427	65.032	-0.083	0.0	1.6	2.8
12	65.424	65.028	-0.086	0.0	1.5	2.4
13	65.421	65.023	-0.089	0.0	1.3	1.8
14	65.417	65.019	-0.093	0.0	1.3	1.3
15	65.414	65.015	-0.096	0.0	1.1	0.9
16	65.412	65.013	-0.098	0.0	0.9	0.6
17	65.409	65.010	-0.101	0.0	1.0	0.4
18	65.405	65.005	-0.105	0.0	0.8	0.2
19	65.402	65.001	-0.108	0.0	0.3	0.1
20	65.400	65.000	-0.110	0.0	0.0	0.0
21	65.400	65.000	-0.110	0.0	0.0	0.0
22	65.400	65.000	-0.110	0.0	0.0	0.0
23	65.400	65.000	-0.110	0.0	0.0	0.0
24	65.400	65.000	-0.110	0.0	0.0	0.0
25	65.400	65.000	-0.110	0.0	0.0	0.0
26	65.400	65.000	-0.110	0.0	0.0	0.0
27	65.400	65.000	-0.110	0.0	0.0	0.0
28	65.400	65.000	-0.110	0.0	0.0	0.0
29	65.400	65.000	-0.110	0.0	0.0	0.0
30	65.400	65.000	-0.110	0.0	0.0	0.0
31	65.400	65.000	-0.110	0.0	0.0	0.0
32	65.400	65.000	-0.110	0.0	0.0	0.0
33	65.400	65.000	-0.110	0.0	0.0	0.0
34	65.400	65.000	-0.110	0.0	0.0	0.0
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.003	63.458	-0.107	0.0	0.6	0.1
2	65.008	63.471	-0.102	0.0	1.4	0.4
3	65.012	63.479	-0.098	0.0	1.4	0.6
4	65.014	63.487	-0.096	0.0	1.6	1.0
5	65.017	63.498	-0.093	0.0	1.8	1.5
6	65.021	63.513	-0.089	0.0	1.9	2.2
7	65.025	63.542	-0.085	0.0	2.2	3.3
8	65.030	63.588	-0.080	0.0	2.3	4.6
9	65.033	63.622	-0.077	0.0	2.4	5.6
10	65.034	63.631	-0.076	0.0	2.5	6.0
11	65.032	63.609	-0.078	0.0	2.4	5.6
12	65.028	63.568	-0.082	0.0	2.3	4.5
13	65.023	63.520	-0.087	0.0	2.0	3.3
14	65.019	63.503	-0.091	0.0	1.9	2.3
15	65.015	63.491	-0.095	0.0	1.8	1.6
16	65.013	63.481	-0.097	0.0	1.5	1.1
17	65.010	63.473	-0.100	0.0	1.3	0.7
18	65.005	63.465	-0.105	0.0	1.2	0.4
19	65.001	63.456	-0.109	0.0	0.4	0.2
20	65.000	63.448	-0.110	0.0	0.1	0.0
21	65.000	63.444	-0.110	0.0	0.0	0.0
22	65.000	63.444	-0.110	0.0	0.0	0.0
23	65.000	63.444	-0.110	0.0	0.0	0.0
24	65.000	63.444	-0.110	0.0	0.0	0.0
25	65.000	63.444	-0.110	0.0	0.0	0.0
26	65.000	63.444	-0.110	0.0	0.0	0.0
27	65.000	63.444	-0.110	0.0	0.0	0.0
28	65.000	63.444	-0.110	0.0	0.0	0.0
29	65.000	63.444	-0.110	0.0	0.0	0.0
30	65.000	63.444	-0.110	0.0	0.0	0.0
31	65.000	63.444	-0.110	0.0	0.0	0.0
32	65.000	63.444	-0.110	0.0	0.0	0.0
33	65.000	63.444	-0.110	0.0	0.0	0.0
34	65.000	63.444	-0.110	0.0	0.0	0.0
35	65.000	63.444	-0.110	0.0	0.0	0.0
36	65.000	63.444	-0.110	0.0	0.0	0.0
37	65.000	63.444	-0.110	0.0	0.0	0.0
38	65.000	63.444	-0.110	0.0	0.0	0.0
39	65.000	63.444	-0.110	0.0	0.0	0.0
40	65.000	63.444	-0.110	0.0	0.0	0.0
41	65.000	63.444	-0.110	0.0	0.0	0.0
42	65.000	63.444	-0.110	0.0	0.0	0.0
43	65.000	63.444	-0.110	0.0	0.0	0.0
44	65.000	63.444	-0.110	0.0	0.0	0.0
45	65.000	63.444	-0.110	0.0	0.0	0.0
46	65.000	63.444	-0.110	0.0	0.0	0.0
47	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
49	65.000	63.444	-0.110	0.0	0.0	0.0
50	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.444	-0.110	0.0	0.0	0.0
52	65.000	63.444	-0.110	0.0	0.0	0.0
53	65.000	63.444	-0.110	0.0	0.0	0.0
54	65.000	63.444	-0.110	0.0	0.0	0.0
55	65.000	63.444	-0.110	0.0	0.0	0.0
56	65.000	63.444	-0.110	0.0	0.0	0.0
57	65.000	63.444	-0.110	0.0	0.0	0.0
58	65.000	63.444	-0.110	0.0	0.0	0.0
59	65.000	63.444	-0.110	0.0	0.0	0.0
60	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.458	63.250	-0.096	0.0	0.2	0.1
2	63.471	63.251	-0.083	0.0	0.5	0.4
3	63.479	63.253	-0.075	0.0	0.6	1.0
4	63.487	63.256	-0.067	0.0	0.6	1.7
5	63.498	63.261	-0.056	0.0	0.7	2.6
6	63.513	63.268	-0.041	0.0	0.8	3.9
7	63.542	63.281	-0.012	0.0	0.8	5.9
8	63.588	63.297	0.034	0.0	0.9	8.1
9	63.622	63.317	0.068	0.0	1.1	10.4
10	63.631	63.340	0.077	0.0	1.2	11.7
11	63.609	63.362	0.055	0.0	1.2	11.6
12	63.568	63.382	0.014	0.0	1.0	10.1
13	63.520	63.396	-0.034	0.0	0.8	7.7
14	63.503	63.406	-0.051	0.0	0.8	5.2
15	63.491	63.413	-0.063	0.0	0.7	3.6
16	63.481	63.417	-0.073	0.0	0.7	2.5
17	63.473	63.420	-0.081	0.0	0.6	1.6
18	63.465	63.421	-0.089	0.0	0.5	1.0
19	63.456	63.422	-0.098	0.0	0.4	0.5
20	63.448	63.421	-0.106	0.0	0.3	0.2
21	63.444	63.421	-0.110	0.0	0.1	0.0
22	63.444	63.421	-0.110	0.0	0.0	0.0
23	63.444	63.420	-0.110	0.0	0.0	0.0
24	63.444	63.420	-0.110	0.0	0.0	0.0
25	63.444	63.419	-0.110	0.0	0.0	0.0
26	63.444	63.419	-0.110	0.0	0.0	0.0
27	63.444	63.418	-0.110	0.0	0.0	0.0
28	63.444	63.418	-0.110	0.0	0.0	0.0
29	63.444	63.417	-0.110	0.0	0.0	0.0
30	63.444	63.417	-0.110	0.0	0.0	0.0
31	63.444	63.416	-0.110	0.0	0.0	0.0
32	63.444	63.416	-0.110	0.0	0.0	0.0
33	63.444	63.415	-0.110	0.0	0.0	0.0
34	63.444	63.415	-0.110	0.0	0.0	0.0
35	63.444	63.415	-0.110	0.0	0.0	0.0
36	63.444	63.414	-0.110	0.0	0.0	0.0
37	63.444	63.414	-0.110	0.0	0.0	0.0
38	63.444	63.413	-0.110	0.0	0.0	0.0
39	63.444	63.413	-0.110	0.0	0.0	0.0
40	63.444	63.412	-0.110	0.0	0.0	0.0
41	63.444	63.412	-0.110	0.0	0.0	0.0
42	63.444	63.411	-0.110	0.0	0.0	0.0
43	63.444	63.411	-0.110	0.0	0.0	0.0
44	63.444	63.410	-0.110	0.0	0.0	0.0
45	63.444	63.410	-0.110	0.0	0.0	0.0
46	63.444	63.409	-0.110	0.0	0.0	0.0
47	63.444	63.409	-0.110	0.0	0.0	0.0
48	63.444	63.409	-0.110	0.0	0.0	0.0
49	63.444	63.408	-0.110	0.0	0.0	0.0
50	63.444	63.408	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.444	63.407	-0.110	0.0	0.0	0.0
52	63.444	63.407	-0.110	0.0	0.0	0.0
53	63.444	63.406	-0.110	0.0	0.0	0.0
54	63.444	63.406	-0.110	0.0	0.0	0.0
55	63.444	63.405	-0.110	0.0	0.0	0.0
56	63.444	63.405	-0.110	0.0	0.0	0.0
57	63.444	63.405	-0.110	0.0	0.0	0.0
58	63.444	63.405	-0.110	0.0	0.0	0.0
59	63.444	63.405	-0.110	0.0	0.0	0.0
60	63.444	63.405	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.251	63.100	-0.109	0.0	0.0	0.0
3	63.253	63.100	-0.107	0.0	0.0	0.0
4	63.256	63.100	-0.104	0.0	0.0	0.0
5	63.261	63.100	-0.099	0.0	0.1	0.0
6	63.268	63.101	-0.092	0.0	0.1	0.0
7	63.281	63.102	-0.079	0.0	0.3	0.1
8	63.297	63.104	-0.063	0.0	0.3	0.1
9	63.317	63.106	-0.043	0.0	0.3	0.1
10	63.340	63.109	-0.020	0.0	0.3	0.2
11	63.362	63.112	0.002	0.0	0.3	0.2
12	63.382	63.115	0.022	0.0	0.3	0.2
13	63.396	63.119	0.036	0.0	0.4	0.2
14	63.406	63.122	0.046	0.0	0.4	0.2
15	63.413	63.126	0.053	0.0	0.4	0.2
16	63.417	63.129	0.057	0.0	0.4	0.2
17	63.420	63.133	0.060	0.0	0.4	0.2
18	63.421	63.136	0.061	0.0	0.4	0.2
19	63.422	63.140	0.062	0.0	0.4	0.2
20	63.421	63.143	0.061	0.0	0.4	0.2
21	63.421	63.147	0.061	0.0	0.4	0.2
22	63.421	63.149	0.061	0.0	0.4	0.2
23	63.420	63.153	0.060	0.0	0.4	0.2
24	63.420	63.156	0.060	0.0	0.4	0.2
25	63.419	63.159	0.059	0.0	0.4	0.2
26	63.419	63.162	0.059	0.0	0.4	0.2
27	63.418	63.165	0.058	0.0	0.4	0.2
28	63.418	63.169	0.058	0.0	0.4	0.2
29	63.417	63.172	0.057	0.0	0.4	0.2
30	63.417	63.175	0.057	0.0	0.4	0.2
31	63.416	63.178	0.056	0.0	0.4	0.2
32	63.416	63.181	0.056	0.0	0.4	0.2
33	63.415	63.184	0.055	0.0	0.4	0.2
34	63.415	63.187	0.055	0.0	0.4	0.2
35	63.415	63.191	0.055	0.0	0.4	0.2
36	63.414	63.194	0.054	0.0	0.4	0.2
37	63.414	63.197	0.054	0.0	0.4	0.2
38	63.413	63.200	0.053	0.0	0.4	0.2
39	63.413	63.203	0.053	0.0	0.4	0.2
40	63.412	63.206	0.052	0.0	0.4	0.2
41	63.412	63.209	0.052	0.0	0.4	0.2
42	63.411	63.212	0.051	0.0	0.4	0.2
43	63.411	63.215	0.051	0.0	0.4	0.2
44	63.410	63.218	0.050	0.0	0.4	0.2
45	63.410	63.221	0.050	0.0	0.4	0.2
46	63.409	63.224	0.049	0.0	0.4	0.2
47	63.409	63.227	0.049	0.0	0.4	0.2
48	63.409	63.230	0.049	0.0	0.4	0.2
49	63.408	63.233	0.048	0.0	0.4	0.2
50	63.408	63.236	0.048	0.0	0.4	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.407	63.239	0.047	0.0	0.4	0.2
52	63.407	63.242	0.047	0.0	0.4	0.2
53	63.406	63.245	0.046	0.0	0.4	0.2
54	63.406	63.248	0.046	0.0	0.4	0.2
55	63.405	63.251	0.045	0.0	0.3	0.2
56	63.405	63.251	0.045	0.0	0.3	0.1
57	63.405	63.251	0.045	0.0	0.3	0.1
58	63.405	63.252	0.045	0.0	0.3	0.1
59	63.405	63.252	0.045	0.0	0.3	0.1
60	63.405	63.253	0.045	0.0	0.3	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.101	63.096	-0.109	0.0	0.0	0.0
7	63.102	63.096	-0.108	0.0	0.0	0.0
8	63.104	63.096	-0.106	0.0	0.0	0.0
9	63.106	63.096	-0.104	0.0	0.0	0.0
10	63.109	63.096	-0.101	0.0	0.0	0.0
11	63.112	63.096	-0.098	0.0	0.0	0.0
12	63.115	63.096	-0.095	0.0	0.0	0.0
13	63.119	63.096	-0.091	0.0	0.0	0.0
14	63.122	63.096	-0.088	0.0	0.0	0.0
15	63.126	63.096	-0.084	0.0	0.0	0.0
16	63.129	63.096	-0.081	0.0	0.0	0.0
17	63.133	63.096	-0.077	0.0	0.0	0.0
18	63.136	63.096	-0.074	0.0	0.0	0.0
19	63.140	63.096	-0.070	0.0	0.0	0.0
20	63.143	63.096	-0.067	0.0	0.0	0.0
21	63.147	63.096	-0.063	0.0	0.0	0.0
22	63.149	63.096	-0.061	0.0	0.0	0.0
23	63.153	63.096	-0.057	0.0	0.0	0.0
24	63.156	63.096	-0.054	0.0	0.0	0.0
25	63.159	63.096	-0.051	0.0	0.0	0.0
26	63.162	63.096	-0.048	0.0	0.0	0.0
27	63.165	63.096	-0.045	0.0	0.0	0.0
28	63.169	63.096	-0.041	0.0	0.0	0.0
29	63.172	63.096	-0.038	0.0	0.0	0.0
30	63.175	63.096	-0.035	0.0	0.0	0.0
31	63.178	63.096	-0.032	0.0	0.0	0.0
32	63.181	63.096	-0.029	0.0	0.0	0.0
33	63.184	63.096	-0.026	0.0	0.0	0.0
34	63.187	63.096	-0.023	0.0	0.0	0.0
35	63.191	63.096	-0.019	0.0	0.0	0.0
36	63.194	63.096	-0.016	0.0	0.0	0.0
37	63.197	63.096	-0.013	0.0	0.0	0.0
38	63.200	63.096	-0.010	0.0	0.0	0.0
39	63.203	63.096	-0.007	0.0	0.0	0.0
40	63.206	63.096	-0.004	0.0	0.0	0.0
41	63.209	63.096	-0.001	0.0	0.0	0.0
42	63.212	63.096	0.002	0.0	0.0	0.0
43	63.215	63.096	0.005	0.0	0.0	0.0
44	63.218	63.096	0.008	0.0	0.0	0.0
45	63.221	63.096	0.011	0.0	0.0	0.0
46	63.224	63.096	0.014	0.0	0.0	0.0
47	63.227	63.096	0.017	0.0	0.0	0.0
48	63.230	63.096	0.020	0.0	0.0	0.0
49	63.233	63.096	0.023	0.0	0.0	0.0
50	63.236	63.096	0.026	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year Winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.239	63.096	0.029	0.0	0.0	0.0
52	63.242	63.096	0.032	0.0	0.0	0.0
53	63.245	63.096	0.035	0.0	0.0	0.0
54	63.248	63.096	0.038	0.0	0.0	0.0
55	63.251	63.096	0.041	0.0	0.0	0.0
56	63.251	63.096	0.041	0.0	0.0	0.0
57	63.251	63.096	0.041	0.0	0.0	0.0
58	63.252	63.096	0.042	0.0	0.0	0.0
59	63.252	63.096	0.042	0.0	0.0	0.0
60	63.253	63.096	0.043	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 30 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.424	-0.086	0.000	0.11	0.0	2.9	OK
1.001	S1	63.669	0.065	0.000	0.88	0.0	5.9	SURCHARGED
2.000	RE2	65.427	-0.083	0.000	0.14	0.0	2.9	OK
2.001	S2	65.034	-0.076	0.000	0.20	0.0	5.9	OK
1.002	S3	63.629	0.075	0.000	1.66	0.0	11.8	SURCHARGED
1.003	S4	63.477	0.117	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.265	0.055	0.000	0.00	0.0	0.0	SURCHARGED

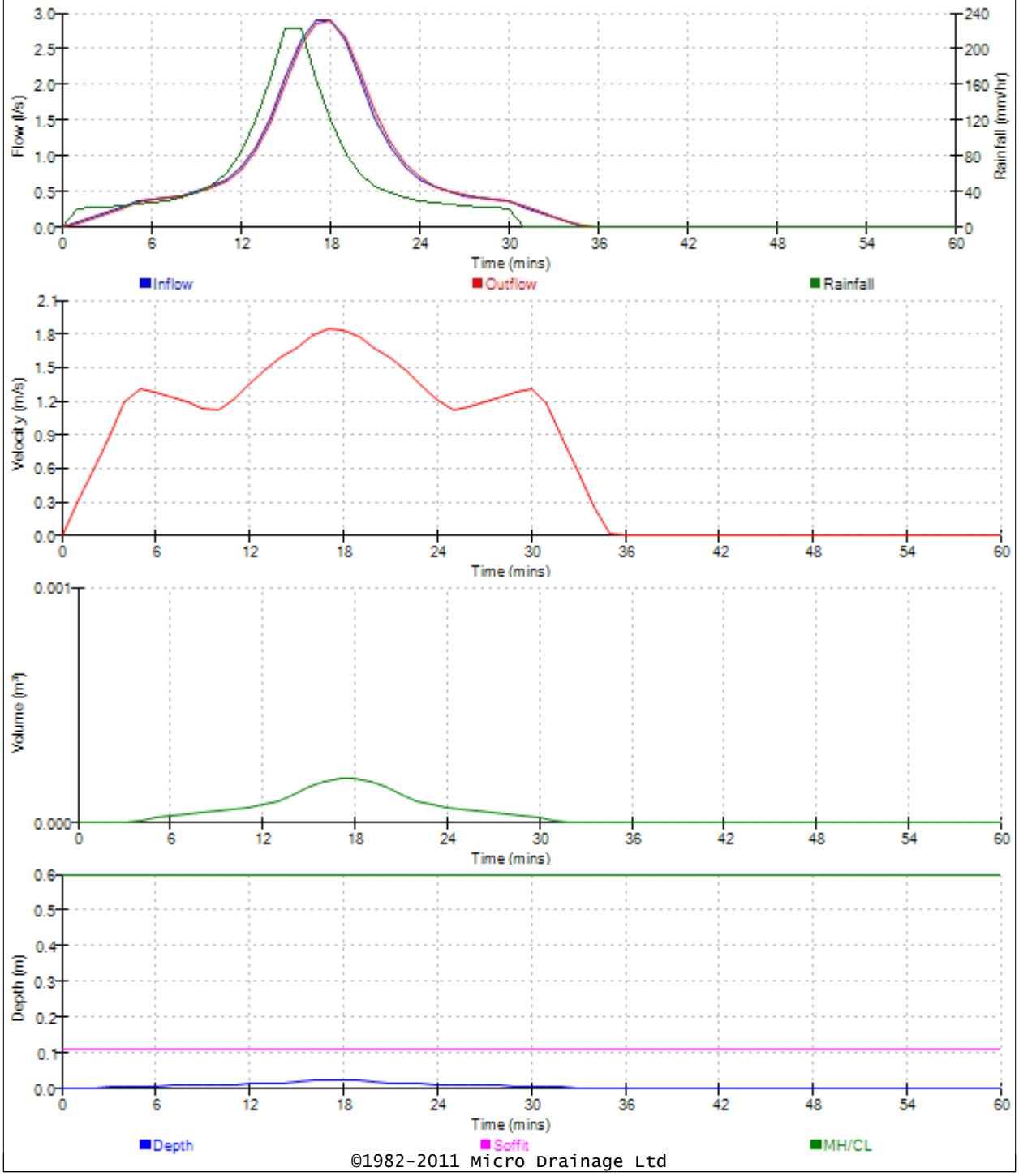
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Rainfall Hyetograph for 30 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	20.675	7	30.256	13	121.401	19	84.653	25	27.608
2	21.746	8	33.533	14	165.650	20	60.385	26	25.528
3	22.818	9	38.135	15	222.758	21	46.518	27	23.826
4	23.826	10	46.518	16	222.758	22	38.135	28	22.818
5	25.528	11	60.385	17	165.650	23	33.533	29	21.746
6	27.608	12	84.653	18	121.401	24	30.256	30	20.675

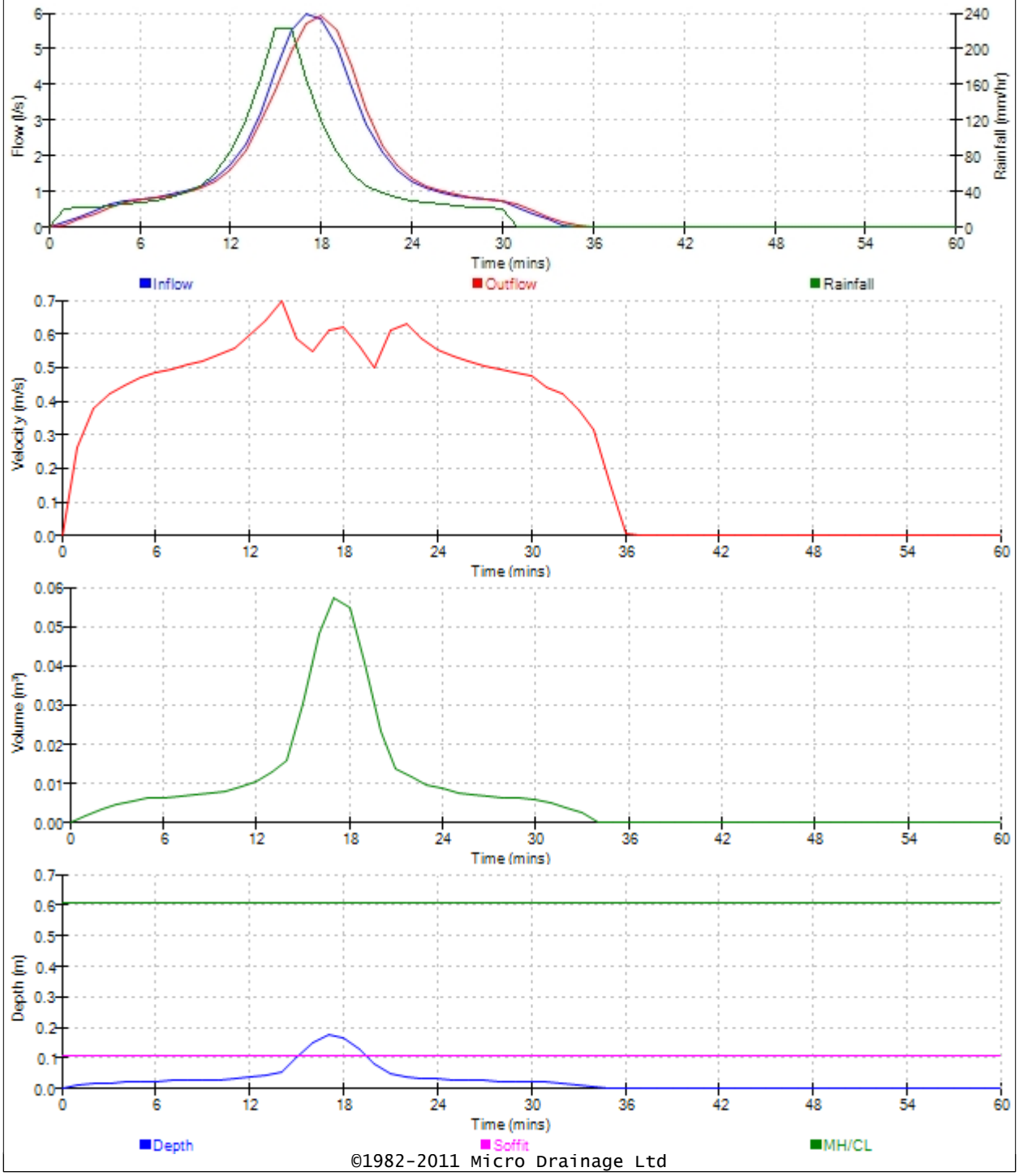
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Summer
Status: OK



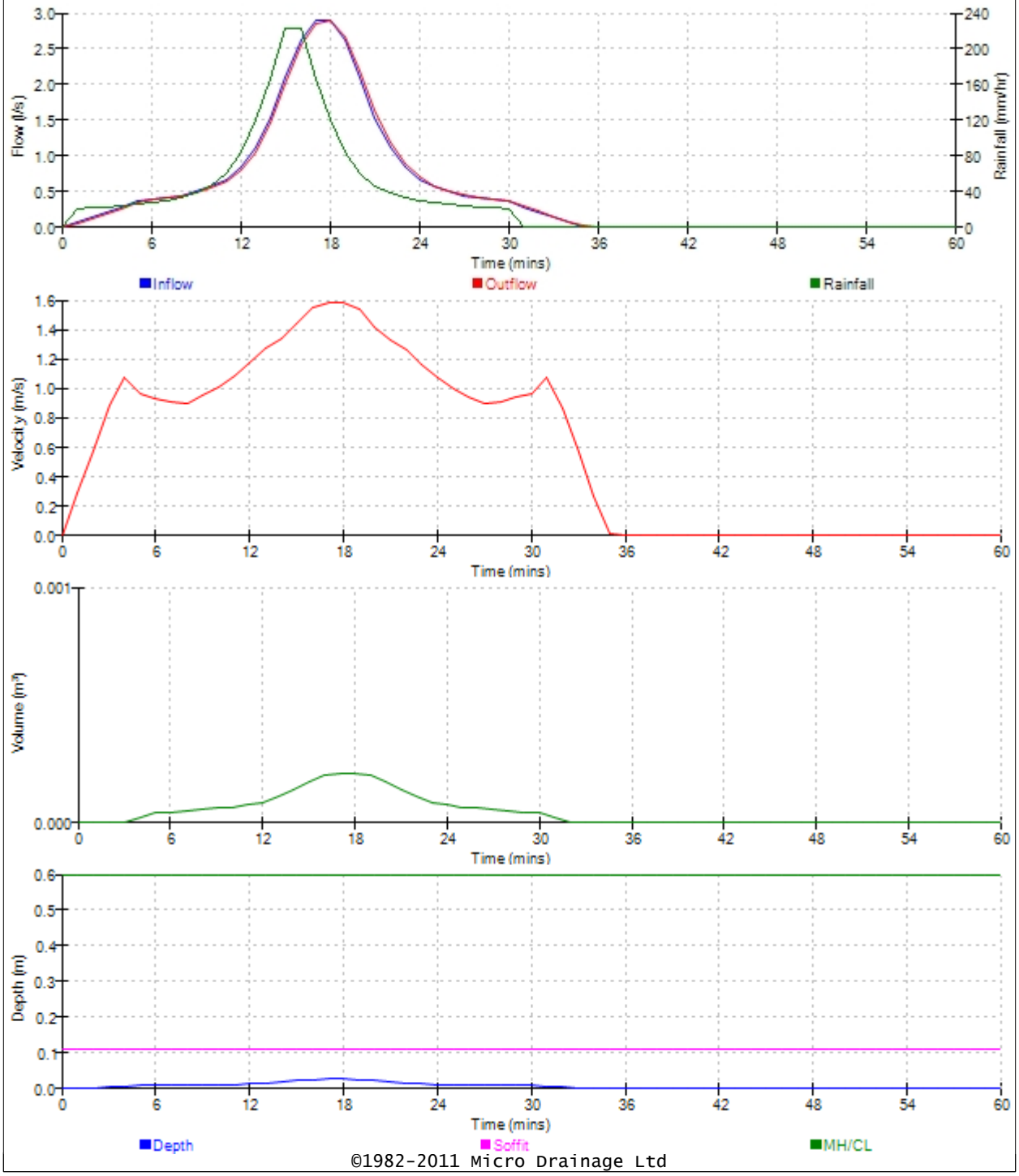
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Graphs for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Summer
Status: SURCHARGED



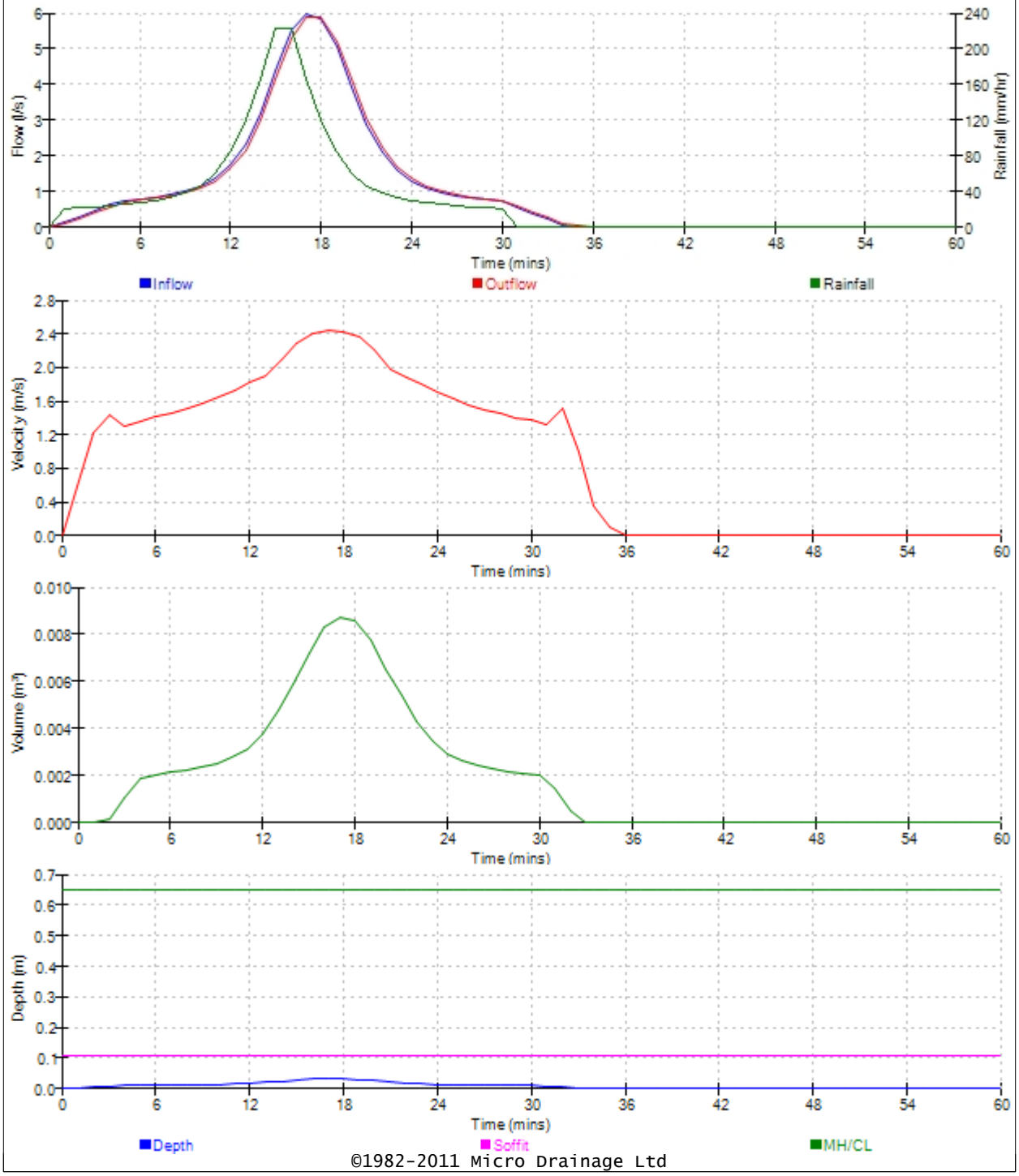
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Summer
Status: OK



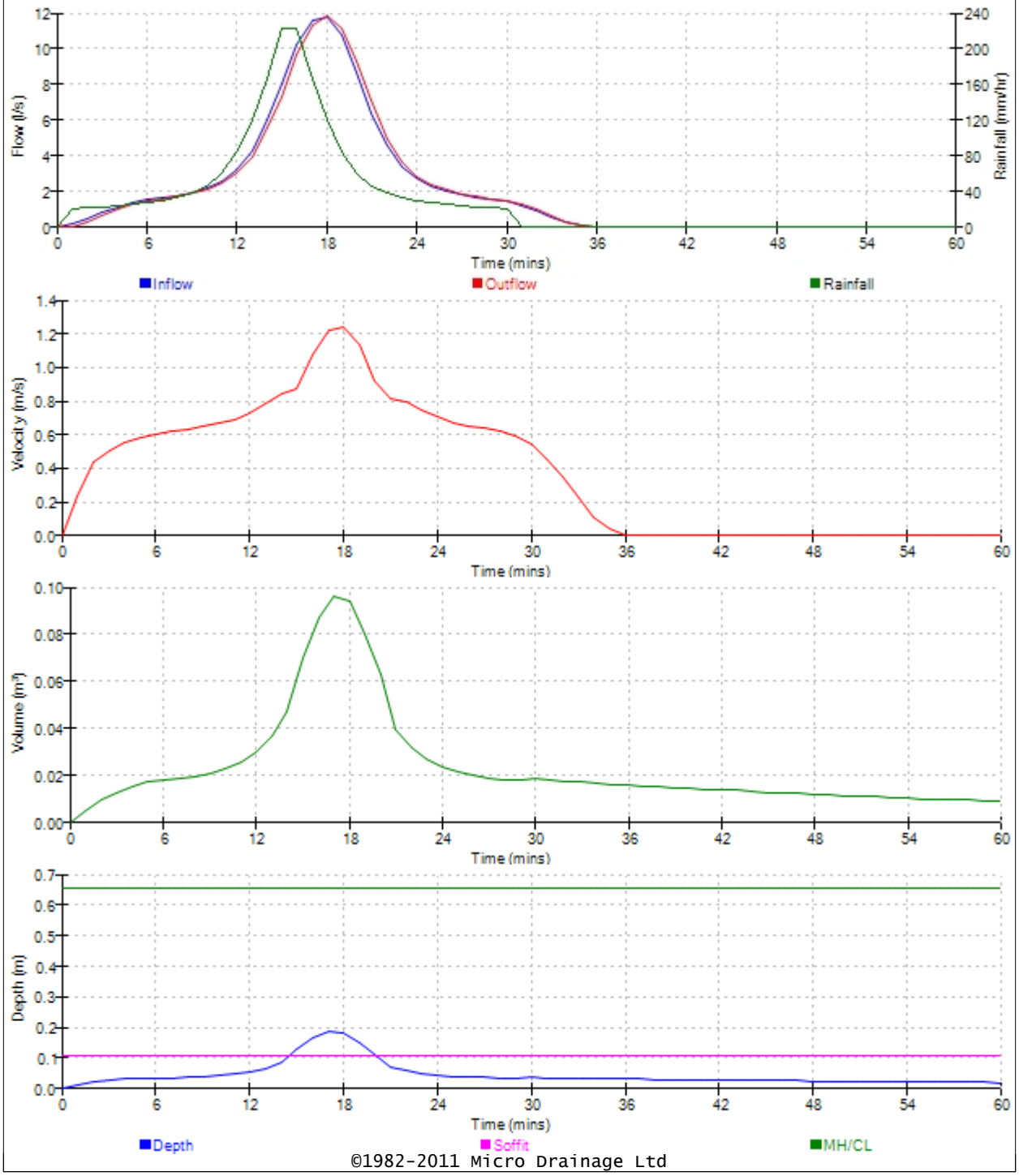
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Graphs for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Summer
Status: OK



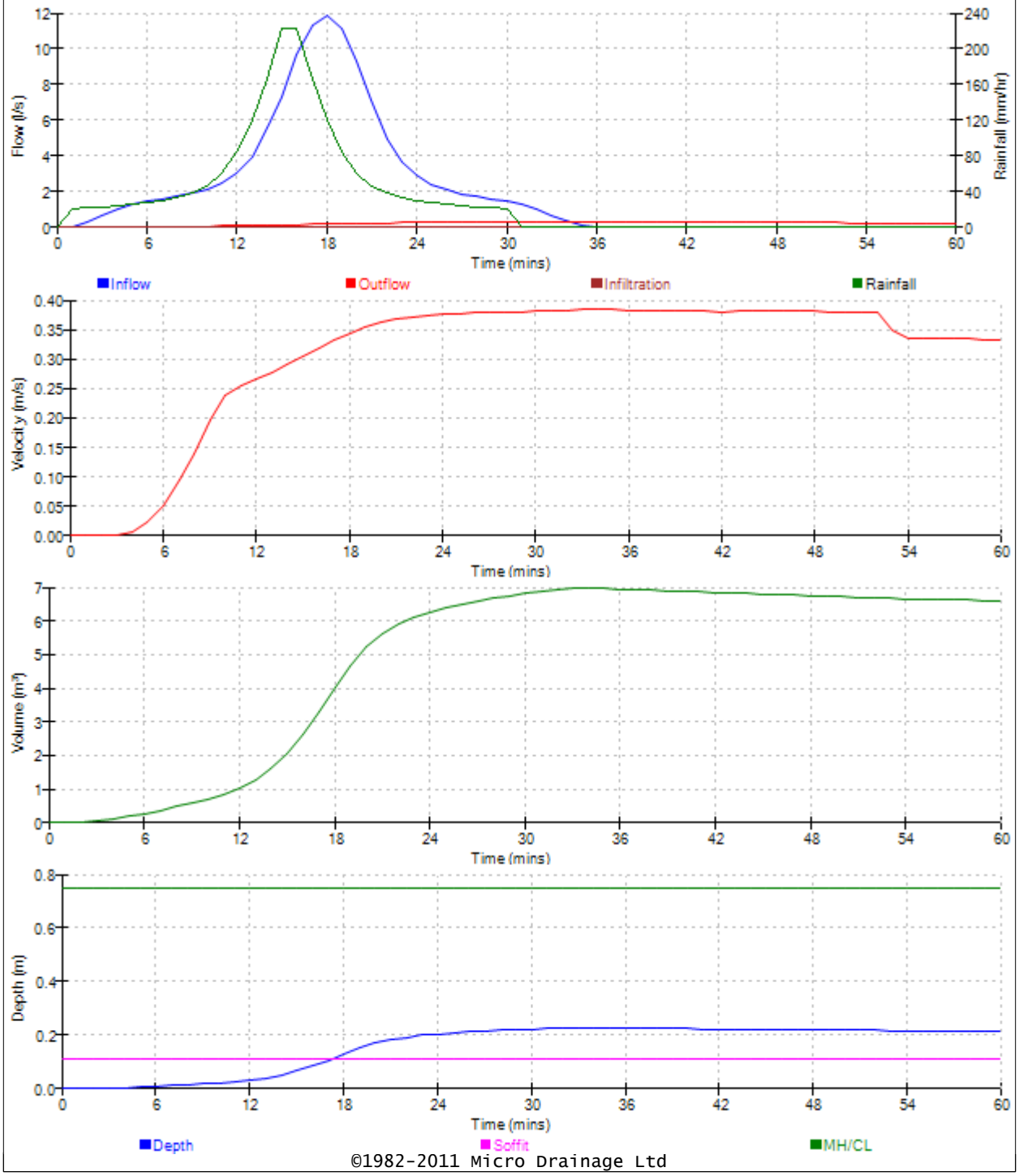
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Graphs for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Summer
Status: SURCHARGED



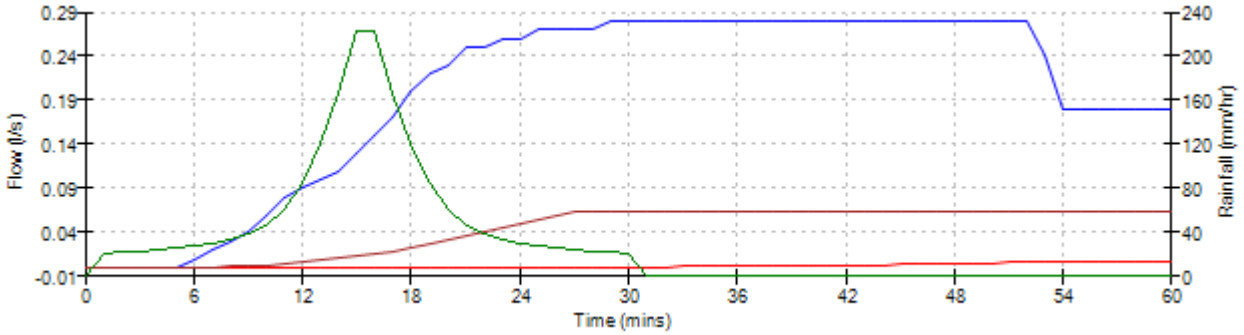
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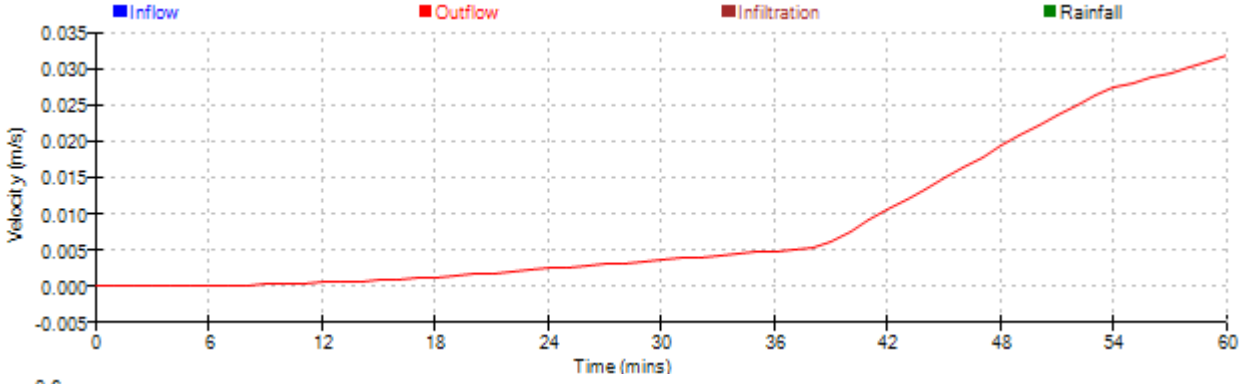
Graphs for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Summer
Status: SURCHARGED

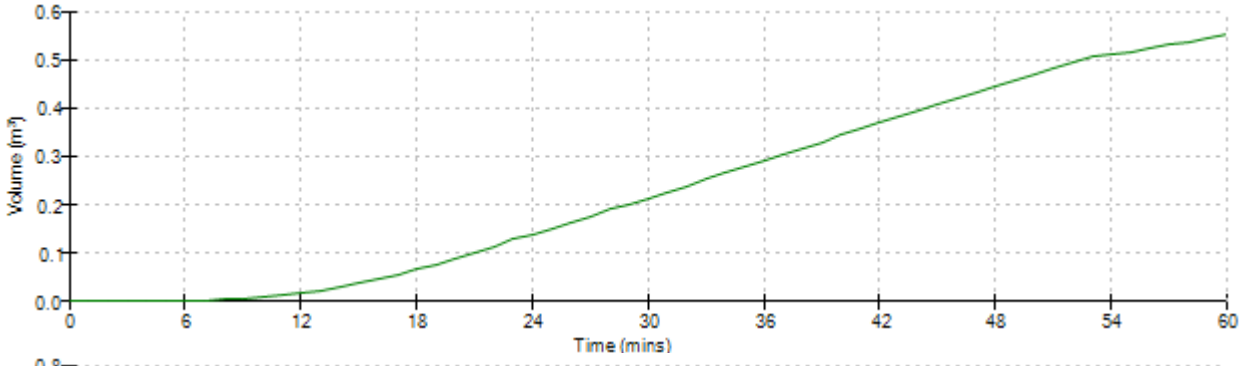


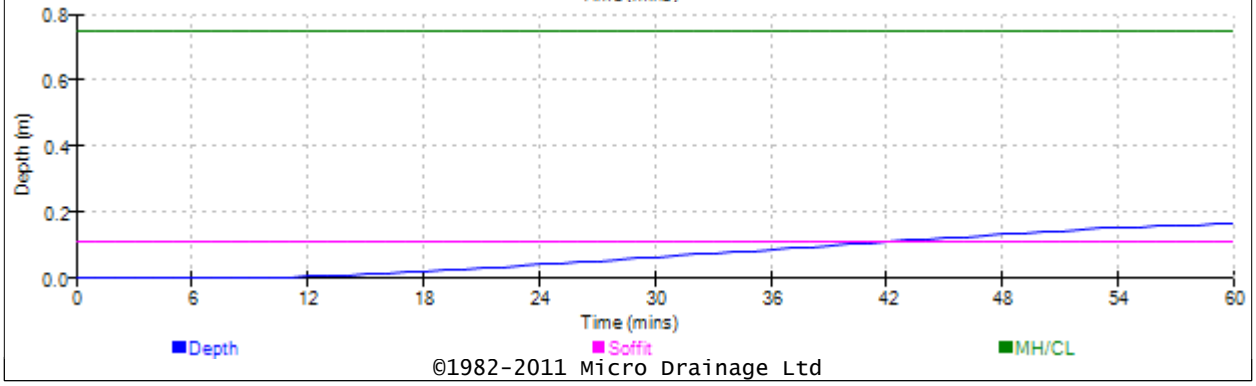
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	63.505	-0.109	0.0	0.3	0.1
2	65.403	63.509	-0.107	0.0	0.6	0.1
3	65.404	63.513	-0.106	0.0	0.9	0.2
4	65.406	63.517	-0.104	0.0	1.2	0.3
5	65.407	63.519	-0.103	0.0	1.3	0.3
6	65.408	63.519	-0.102	0.0	1.3	0.4
7	65.409	63.520	-0.101	0.0	1.2	0.4
8	65.409	63.521	-0.101	0.0	1.2	0.4
9	65.410	63.523	-0.100	0.0	1.1	0.5
10	65.411	63.525	-0.099	0.0	1.1	0.6
11	65.412	63.528	-0.098	0.0	1.2	0.6
12	65.413	63.532	-0.097	0.0	1.4	0.8
13	65.415	63.539	-0.095	0.0	1.5	1.1
14	65.417	63.548	-0.093	0.0	1.6	1.5
15	65.421	63.595	-0.089	0.0	1.7	2.0
16	65.423	63.645	-0.087	0.0	1.8	2.5
17	65.424	63.669	-0.086	0.0	1.8	2.9
18	65.424	63.663	-0.086	0.0	1.8	2.9
19	65.423	63.623	-0.087	0.0	1.8	2.7
20	65.421	63.573	-0.089	0.0	1.7	2.2
21	65.417	63.543	-0.093	0.0	1.6	1.6
22	65.415	63.536	-0.095	0.0	1.5	1.2
23	65.413	63.530	-0.097	0.0	1.3	0.9
24	65.412	63.526	-0.098	0.0	1.2	0.7
25	65.411	63.524	-0.099	0.0	1.1	0.6
26	65.410	63.522	-0.100	0.0	1.1	0.5
27	65.409	63.520	-0.101	0.0	1.2	0.5
28	65.409	63.520	-0.101	0.0	1.2	0.4
29	65.408	63.519	-0.102	0.0	1.3	0.4
30	65.407	63.518	-0.103	0.0	1.3	0.4
31	65.406	63.515	-0.104	0.0	1.2	0.3
32	65.404	63.511	-0.106	0.0	0.9	0.2
33	65.403	63.507	-0.107	0.0	0.6	0.2
34	65.401	63.500	-0.109	0.0	0.3	0.1
35	65.400	63.495	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.505	63.458	-0.099	0.0	0.3	0.1
2	63.509	63.466	-0.095	0.0	0.4	0.2
3	63.513	63.471	-0.091	0.0	0.4	0.4
4	63.517	63.475	-0.087	0.0	0.4	0.6
5	63.519	63.478	-0.086	0.0	0.5	0.7
6	63.519	63.479	-0.085	0.0	0.5	0.8
7	63.520	63.480	-0.084	0.0	0.5	0.8
8	63.521	63.482	-0.083	0.0	0.5	0.9
9	63.523	63.484	-0.081	0.0	0.5	1.0
10	63.525	63.487	-0.079	0.0	0.5	1.1
11	63.528	63.492	-0.076	0.0	0.6	1.3
12	63.532	63.500	-0.072	0.0	0.6	1.6
13	63.539	63.511	-0.065	0.0	0.6	2.1
14	63.548	63.528	-0.056	0.0	0.7	3.0
15	63.595	63.572	-0.009	0.0	0.6	3.8
16	63.645	63.611	0.041	0.0	0.5	4.9
17	63.669	63.629	0.065	0.0	0.6	5.7
18	63.663	63.625	0.059	0.0	0.6	5.9
19	63.623	63.595	0.019	0.0	0.6	5.5
20	63.573	63.556	-0.031	0.0	0.5	4.5
21	63.543	63.516	-0.061	0.0	0.6	3.3
22	63.536	63.503	-0.068	0.0	0.6	2.3
23	63.530	63.494	-0.074	0.0	0.6	1.7
24	63.526	63.489	-0.078	0.0	0.6	1.4
25	63.524	63.485	-0.081	0.0	0.5	1.2
26	63.522	63.483	-0.082	0.0	0.5	1.0
27	63.520	63.481	-0.084	0.0	0.5	0.9
28	63.520	63.480	-0.085	0.0	0.5	0.8
29	63.519	63.480	-0.085	0.0	0.5	0.8
30	63.518	63.481	-0.086	0.0	0.5	0.7
31	63.515	63.480	-0.089	0.0	0.4	0.6
32	63.511	63.479	-0.093	0.0	0.4	0.5
33	63.507	63.478	-0.097	0.0	0.4	0.3
34	63.500	63.477	-0.104	0.0	0.3	0.2
35	63.495	63.477	-0.109	0.0	0.2	0.1
36	63.494	63.476	-0.110	0.0	0.0	0.0
37	63.494	63.475	-0.110	0.0	0.0	0.0
38	63.494	63.475	-0.110	0.0	0.0	0.0
39	63.494	63.474	-0.110	0.0	0.0	0.0
40	63.494	63.474	-0.110	0.0	0.0	0.0
41	63.494	63.473	-0.110	0.0	0.0	0.0
42	63.494	63.473	-0.110	0.0	0.0	0.0
43	63.494	63.472	-0.110	0.0	0.0	0.0
44	63.494	63.472	-0.110	0.0	0.0	0.0
45	63.494	63.471	-0.110	0.0	0.0	0.0
46	63.494	63.471	-0.110	0.0	0.0	0.0
47	63.494	63.470	-0.110	0.0	0.0	0.0
48	63.494	63.469	-0.110	0.0	0.0	0.0
49	63.494	63.469	-0.110	0.0	0.0	0.0
50	63.494	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.468	-0.110	0.0	0.0	0.0
52	63.494	63.467	-0.110	0.0	0.0	0.0
53	63.494	63.467	-0.110	0.0	0.0	0.0
54	63.494	63.467	-0.110	0.0	0.0	0.0
55	63.494	63.466	-0.110	0.0	0.0	0.0
56	63.494	63.466	-0.110	0.0	0.0	0.0
57	63.494	63.466	-0.110	0.0	0.0	0.0
58	63.494	63.465	-0.110	0.0	0.0	0.0
59	63.494	63.465	-0.110	0.0	0.0	0.0
60	63.494	63.464	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.402	65.003	-0.108	0.0	0.3	0.1
2	65.403	65.005	-0.107	0.0	0.6	0.1
3	65.405	65.008	-0.105	0.0	0.9	0.2
4	65.407	65.011	-0.103	0.0	1.1	0.3
5	65.409	65.012	-0.101	0.0	1.0	0.3
6	65.410	65.012	-0.100	0.0	0.9	0.4
7	65.411	65.012	-0.099	0.0	0.9	0.4
8	65.411	65.013	-0.099	0.0	0.9	0.4
9	65.411	65.013	-0.099	0.0	0.9	0.5
10	65.412	65.014	-0.098	0.0	1.0	0.6
11	65.413	65.015	-0.097	0.0	1.1	0.6
12	65.414	65.017	-0.096	0.0	1.2	0.8
13	65.416	65.021	-0.094	0.0	1.3	1.1
14	65.420	65.024	-0.090	0.0	1.3	1.5
15	65.423	65.029	-0.087	0.0	1.4	2.0
16	65.426	65.032	-0.084	0.0	1.5	2.5
17	65.427	65.034	-0.083	0.0	1.6	2.9
18	65.427	65.033	-0.083	0.0	1.6	2.9
19	65.426	65.030	-0.084	0.0	1.5	2.7
20	65.423	65.026	-0.087	0.0	1.4	2.2
21	65.420	65.023	-0.090	0.0	1.3	1.6
22	65.416	65.019	-0.094	0.0	1.3	1.2
23	65.414	65.016	-0.096	0.0	1.2	0.9
24	65.413	65.015	-0.097	0.0	1.1	0.7
25	65.412	65.014	-0.098	0.0	1.0	0.6
26	65.411	65.013	-0.099	0.0	0.9	0.5
27	65.411	65.012	-0.099	0.0	0.9	0.5
28	65.411	65.012	-0.099	0.0	0.9	0.4
29	65.410	65.012	-0.100	0.0	0.9	0.4
30	65.409	65.012	-0.101	0.0	1.0	0.4
31	65.407	65.010	-0.103	0.0	1.1	0.3
32	65.405	65.007	-0.105	0.0	0.9	0.2
33	65.403	65.004	-0.107	0.0	0.6	0.2
34	65.402	65.001	-0.108	0.0	0.3	0.1
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.003	63.458	-0.107	0.0	0.6	0.1
2	65.005	63.466	-0.105	0.0	1.2	0.3
3	65.008	63.471	-0.102	0.0	1.4	0.4
4	65.011	63.475	-0.099	0.0	1.3	0.6
5	65.012	63.478	-0.098	0.0	1.4	0.7
6	65.012	63.479	-0.098	0.0	1.4	0.8
7	65.012	63.480	-0.098	0.0	1.5	0.8
8	65.013	63.482	-0.097	0.0	1.5	0.9
9	65.013	63.484	-0.097	0.0	1.6	1.0
10	65.014	63.487	-0.096	0.0	1.6	1.1
11	65.015	63.492	-0.095	0.0	1.7	1.3
12	65.017	63.500	-0.093	0.0	1.8	1.6
13	65.021	63.511	-0.089	0.0	1.9	2.2
14	65.024	63.528	-0.086	0.0	2.1	3.0
15	65.029	63.572	-0.081	0.0	2.3	4.2
16	65.032	63.611	-0.078	0.0	2.4	5.3
17	65.034	63.629	-0.076	0.0	2.5	5.9
18	65.033	63.625	-0.077	0.0	2.4	5.9
19	65.030	63.595	-0.080	0.0	2.4	5.2
20	65.026	63.556	-0.084	0.0	2.2	4.1
21	65.023	63.516	-0.087	0.0	2.0	3.1
22	65.019	63.503	-0.091	0.0	1.9	2.3
23	65.016	63.494	-0.094	0.0	1.8	1.7
24	65.015	63.489	-0.095	0.0	1.7	1.4
25	65.014	63.485	-0.096	0.0	1.6	1.1
26	65.013	63.483	-0.097	0.0	1.6	1.0
27	65.012	63.481	-0.098	0.0	1.5	0.9
28	65.012	63.480	-0.098	0.0	1.4	0.8
29	65.012	63.480	-0.098	0.0	1.4	0.8
30	65.012	63.481	-0.098	0.0	1.4	0.7
31	65.010	63.480	-0.100	0.0	1.3	0.6
32	65.007	63.479	-0.103	0.0	1.5	0.4
33	65.004	63.478	-0.106	0.0	1.0	0.3
34	65.001	63.477	-0.109	0.0	0.4	0.1
35	65.000	63.477	-0.110	0.0	0.1	0.0
36	65.000	63.476	-0.110	0.0	0.0	0.0
37	65.000	63.475	-0.110	0.0	0.0	0.0
38	65.000	63.475	-0.110	0.0	0.0	0.0
39	65.000	63.474	-0.110	0.0	0.0	0.0
40	65.000	63.474	-0.110	0.0	0.0	0.0
41	65.000	63.473	-0.110	0.0	0.0	0.0
42	65.000	63.473	-0.110	0.0	0.0	0.0
43	65.000	63.472	-0.110	0.0	0.0	0.0
44	65.000	63.472	-0.110	0.0	0.0	0.0
45	65.000	63.471	-0.110	0.0	0.0	0.0
46	65.000	63.471	-0.110	0.0	0.0	0.0
47	65.000	63.470	-0.110	0.0	0.0	0.0
48	65.000	63.469	-0.110	0.0	0.0	0.0
49	65.000	63.469	-0.110	0.0	0.0	0.0
50	65.000	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.468	-0.110	0.0	0.0	0.0
52	65.000	63.467	-0.110	0.0	0.0	0.0
53	65.000	63.467	-0.110	0.0	0.0	0.0
54	65.000	63.467	-0.110	0.0	0.0	0.0
55	65.000	63.466	-0.110	0.0	0.0	0.0
56	65.000	63.466	-0.110	0.0	0.0	0.0
57	65.000	63.466	-0.110	0.0	0.0	0.0
58	65.000	63.465	-0.110	0.0	0.0	0.0
59	65.000	63.465	-0.110	0.0	0.0	0.0
60	65.000	63.464	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.458	63.250	-0.096	0.0	0.2	0.1
2	63.466	63.251	-0.088	0.0	0.4	0.3
3	63.471	63.252	-0.083	0.0	0.5	0.7
4	63.475	63.254	-0.079	0.0	0.6	1.0
5	63.478	63.256	-0.076	0.0	0.6	1.3
6	63.479	63.259	-0.075	0.0	0.6	1.5
7	63.480	63.262	-0.074	0.0	0.6	1.6
8	63.482	63.266	-0.072	0.0	0.6	1.7
9	63.484	63.269	-0.070	0.0	0.6	1.9
10	63.487	63.273	-0.067	0.0	0.7	2.1
11	63.492	63.278	-0.062	0.0	0.7	2.5
12	63.500	63.283	-0.055	0.0	0.7	3.0
13	63.511	63.291	-0.043	0.0	0.8	3.9
14	63.528	63.303	-0.026	0.0	0.8	5.5
15	63.572	63.317	0.018	0.0	0.9	7.3
16	63.611	63.336	0.056	0.0	1.1	9.6
17	63.629	63.358	0.075	0.0	1.2	11.3
18	63.625	63.381	0.071	0.0	1.2	11.8
19	63.595	63.402	0.041	0.0	1.1	11.2
20	63.556	63.420	0.002	0.0	0.9	9.3
21	63.516	63.433	-0.038	0.0	0.8	7.1
22	63.503	63.443	-0.051	0.0	0.8	4.9
23	63.494	63.449	-0.060	0.0	0.7	3.7
24	63.489	63.454	-0.065	0.0	0.7	2.9
25	63.485	63.458	-0.069	0.0	0.7	2.4
26	63.483	63.462	-0.071	0.0	0.7	2.1
27	63.481	63.465	-0.073	0.0	0.6	1.9
28	63.480	63.468	-0.075	0.0	0.6	1.7
29	63.480	63.470	-0.074	0.0	0.6	1.6
30	63.481	63.472	-0.074	0.0	0.5	1.5
31	63.480	63.474	-0.075	0.0	0.5	1.3
32	63.479	63.476	-0.076	0.0	0.3	1.0
33	63.478	63.477	-0.076	0.0	0.2	0.7
34	63.477	63.477	-0.077	0.0	0.1	0.3
35	63.477	63.476	-0.078	0.0	0.0	0.1
36	63.476	63.476	-0.078	0.0	0.0	0.0
37	63.475	63.475	-0.079	0.0	0.0	0.0
38	63.475	63.475	-0.079	0.0	0.0	0.0
39	63.474	63.474	-0.080	0.0	0.0	0.0
40	63.474	63.474	-0.080	0.0	0.0	0.0
41	63.473	63.473	-0.081	0.0	0.0	0.0
42	63.473	63.473	-0.081	0.0	0.0	0.0
43	63.472	63.472	-0.082	0.0	0.0	0.0
44	63.472	63.472	-0.083	0.0	0.0	0.0
45	63.471	63.471	-0.083	0.0	0.0	0.0
46	63.471	63.471	-0.083	0.0	0.0	0.0
47	63.470	63.470	-0.084	0.0	0.0	0.0
48	63.469	63.470	-0.085	0.0	0.0	0.0
49	63.469	63.469	-0.085	0.0	0.0	0.0
50	63.468	63.469	-0.086	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.468	63.468	-0.086	0.0	0.0	0.0
52	63.467	63.467	-0.087	0.0	0.0	0.0
53	63.467	63.467	-0.087	0.0	0.0	0.0
54	63.467	63.467	-0.088	0.0	0.0	0.0
55	63.466	63.466	-0.088	0.0	0.0	0.0
56	63.466	63.466	-0.089	0.0	0.0	0.0
57	63.466	63.466	-0.089	0.0	0.0	0.0
58	63.465	63.465	-0.089	0.0	0.0	0.0
59	63.465	63.465	-0.089	0.0	0.0	0.0
60	63.464	63.465	-0.090	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.251	63.100	-0.109	0.0	0.0	0.0
3	63.252	63.100	-0.108	0.0	0.0	0.0
4	63.254	63.100	-0.106	0.0	0.0	0.0
5	63.256	63.100	-0.104	0.0	0.0	0.0
6	63.259	63.100	-0.101	0.0	0.1	0.0
7	63.262	63.101	-0.098	0.0	0.1	0.0
8	63.266	63.101	-0.094	0.0	0.1	0.0
9	63.269	63.102	-0.091	0.0	0.2	0.0
10	63.273	63.103	-0.087	0.0	0.2	0.1
11	63.278	63.104	-0.082	0.0	0.3	0.1
12	63.283	63.106	-0.077	0.0	0.3	0.1
13	63.291	63.108	-0.069	0.0	0.3	0.1
14	63.303	63.110	-0.057	0.0	0.3	0.1
15	63.317	63.112	-0.043	0.0	0.3	0.1
16	63.336	63.114	-0.024	0.0	0.3	0.2
17	63.358	63.117	-0.002	0.0	0.3	0.2
18	63.381	63.120	0.021	0.0	0.3	0.2
19	63.402	63.124	0.042	0.0	0.4	0.2
20	63.420	63.127	0.060	0.0	0.4	0.2
21	63.433	63.131	0.073	0.0	0.4	0.2
22	63.443	63.135	0.083	0.0	0.4	0.3
23	63.449	63.139	0.089	0.0	0.4	0.3
24	63.454	63.142	0.094	0.0	0.4	0.3
25	63.458	63.146	0.098	0.0	0.4	0.3
26	63.462	63.150	0.102	0.0	0.4	0.3
27	63.465	63.153	0.105	0.0	0.4	0.3
28	63.468	63.157	0.108	0.0	0.4	0.3
29	63.470	63.160	0.110	0.0	0.4	0.3
30	63.472	63.164	0.112	0.0	0.4	0.3
31	63.474	63.168	0.114	0.0	0.4	0.3
32	63.476	63.172	0.116	0.0	0.4	0.3
33	63.477	63.176	0.117	0.0	0.4	0.3
34	63.477	63.180	0.117	0.0	0.4	0.3
35	63.476	63.184	0.116	0.0	0.4	0.3
36	63.476	63.188	0.116	0.0	0.4	0.3
37	63.475	63.191	0.115	0.0	0.4	0.3
38	63.475	63.195	0.115	0.0	0.4	0.3
39	63.474	63.199	0.114	0.0	0.4	0.3
40	63.474	63.203	0.114	0.0	0.4	0.3
41	63.473	63.207	0.113	0.0	0.4	0.3
42	63.473	63.211	0.113	0.0	0.4	0.3
43	63.472	63.215	0.112	0.0	0.4	0.3
44	63.472	63.218	0.112	0.0	0.4	0.3
45	63.471	63.222	0.111	0.0	0.4	0.3
46	63.471	63.226	0.111	0.0	0.4	0.3
47	63.470	63.230	0.110	0.0	0.4	0.3
48	63.470	63.233	0.110	0.0	0.4	0.3
49	63.469	63.237	0.109	0.0	0.4	0.3
50	63.469	63.241	0.109	0.0	0.4	0.3

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.468	63.245	0.108	0.0	0.4	0.3
52	63.467	63.248	0.107	0.0	0.4	0.3
53	63.467	63.251	0.107	0.0	0.3	0.2
54	63.467	63.253	0.107	0.0	0.3	0.2
55	63.466	63.255	0.106	0.0	0.3	0.2
56	63.466	63.257	0.106	0.0	0.3	0.2
57	63.466	63.259	0.106	0.0	0.3	0.2
58	63.465	63.261	0.105	0.0	0.3	0.2
59	63.465	63.263	0.105	0.0	0.3	0.2
60	63.465	63.265	0.105	0.0	0.3	0.2

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
7	63.101	63.096	-0.109	0.0	0.0	0.0
8	63.101	63.096	-0.109	0.0	0.0	0.0
9	63.102	63.096	-0.108	0.0	0.0	0.0
10	63.103	63.096	-0.107	0.0	0.0	0.0
11	63.104	63.096	-0.106	0.0	0.0	0.0
12	63.106	63.096	-0.104	0.0	0.0	0.0
13	63.108	63.096	-0.102	0.0	0.0	0.0
14	63.110	63.096	-0.100	0.0	0.0	0.0
15	63.112	63.096	-0.098	0.0	0.0	0.0
16	63.114	63.096	-0.096	0.0	0.0	0.0
17	63.117	63.096	-0.093	0.0	0.0	0.0
18	63.120	63.096	-0.090	0.0	0.0	0.0
19	63.124	63.096	-0.086	0.0	0.0	0.0
20	63.127	63.096	-0.083	0.0	0.0	0.0
21	63.131	63.096	-0.079	0.0	0.0	0.0
22	63.135	63.096	-0.075	0.0	0.0	0.0
23	63.139	63.096	-0.071	0.0	0.0	0.0
24	63.142	63.096	-0.068	0.0	0.0	0.0
25	63.146	63.096	-0.064	0.0	0.0	0.0
26	63.150	63.096	-0.060	0.0	0.0	0.0
27	63.153	63.096	-0.057	0.0	0.0	0.0
28	63.157	63.096	-0.053	0.0	0.0	0.0
29	63.160	63.096	-0.050	0.0	0.0	0.0
30	63.164	63.096	-0.046	0.0	0.0	0.0
31	63.168	63.096	-0.042	0.0	0.0	0.0
32	63.172	63.096	-0.038	0.0	0.0	0.0
33	63.176	63.096	-0.034	0.0	0.0	0.0
34	63.180	63.096	-0.030	0.0	0.0	0.0
35	63.184	63.096	-0.026	0.0	0.0	0.0
36	63.188	63.096	-0.022	0.0	0.0	0.0
37	63.191	63.096	-0.019	0.0	0.0	0.0
38	63.195	63.096	-0.015	0.0	0.0	0.0
39	63.199	63.096	-0.011	0.0	0.0	0.0
40	63.203	63.096	-0.007	0.0	0.0	0.0
41	63.207	63.096	-0.003	0.0	0.0	0.0
42	63.211	63.096	0.001	0.0	0.0	0.0
43	63.215	63.096	0.005	0.0	0.0	0.0
44	63.218	63.096	0.008	0.0	0.0	0.0
45	63.222	63.096	0.012	0.0	0.0	0.0
46	63.226	63.096	0.016	0.0	0.0	0.0
47	63.230	63.096	0.020	0.0	0.0	0.0
48	63.233	63.096	0.023	0.0	0.0	0.0
49	63.237	63.096	0.027	0.0	0.0	0.0
50	63.241	63.096	0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Summer
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.245	63.096	0.035	0.0	0.0	0.0
52	63.248	63.096	0.038	0.0	0.0	0.0
53	63.251	63.096	0.041	0.0	0.0	0.0
54	63.253	63.096	0.043	0.0	0.0	0.0
55	63.255	63.096	0.045	0.0	0.0	0.0
56	63.257	63.096	0.047	0.0	0.0	0.0
57	63.259	63.096	0.049	0.0	0.0	0.0
58	63.261	63.096	0.051	0.0	0.0	0.0
59	63.263	63.096	0.053	0.0	0.0	0.0
60	63.265	63.096	0.055	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 30 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.422	-0.088	0.000	0.09	0.0	2.3	OK
1.001	S1	63.608	0.004	0.000	0.70	0.0	4.7	SURCHARGED
2.000	RE2	65.424	-0.086	0.000	0.11	0.0	2.3	OK
2.001	S2	65.029	-0.081	0.000	0.16	0.0	4.7	OK
1.002	S3	63.583	0.029	0.000	1.32	0.0	9.4	SURCHARGED
1.003	S4	63.477	0.117	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.265	0.055	0.000	0.00	0.0	0.0	SURCHARGED

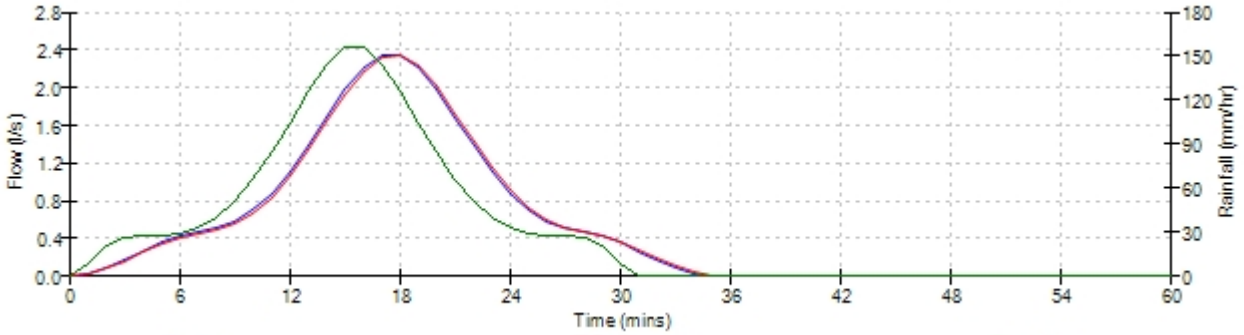
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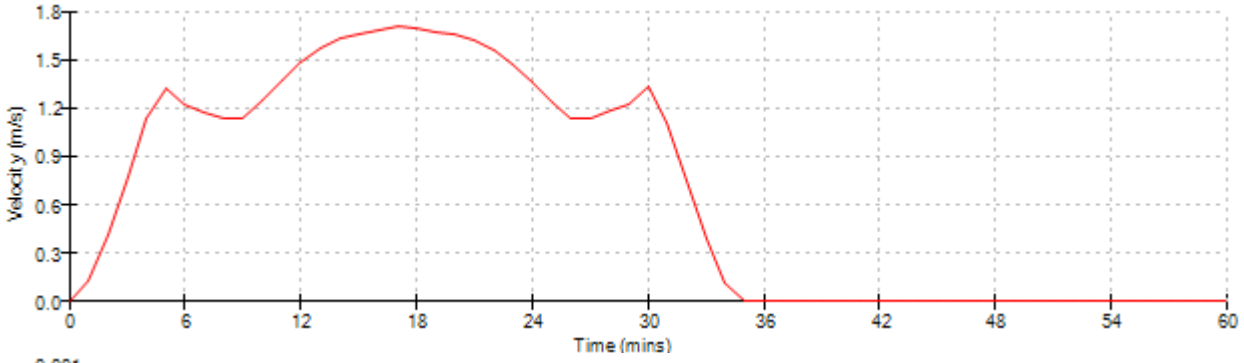
Rainfall Hyetograph for 30 minute 100 year Winter (Storm)

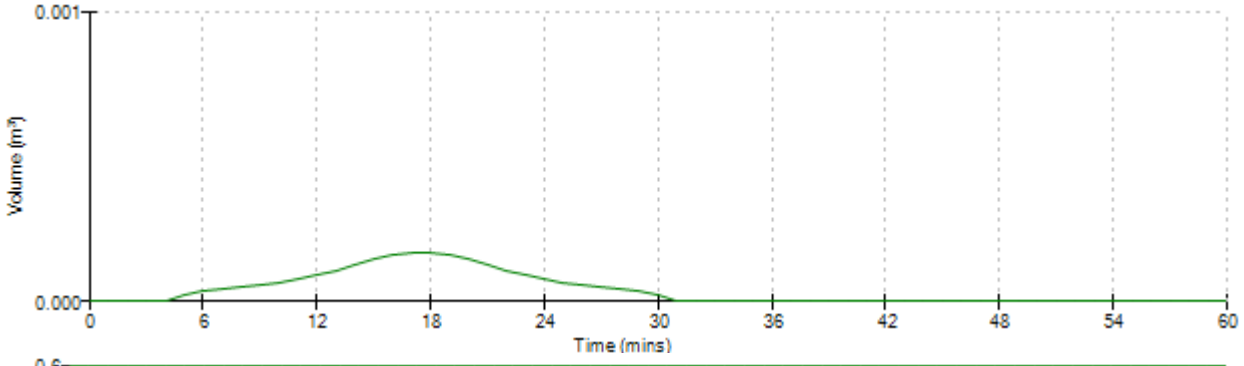
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	8.682	7	32.561	13	125.587	19	104.655	25	28.980
2	21.331	8	39.648	14	143.564	20	84.452	26	28.063
3	26.717	9	50.705	15	156.320	21	66.176	27	28.052
4	28.052	10	66.176	16	156.320	22	50.705	28	26.717
5	28.063	11	84.452	17	143.564	23	39.648	29	21.331
6	28.980	12	104.655	18	125.587	24	32.561	30	8.682

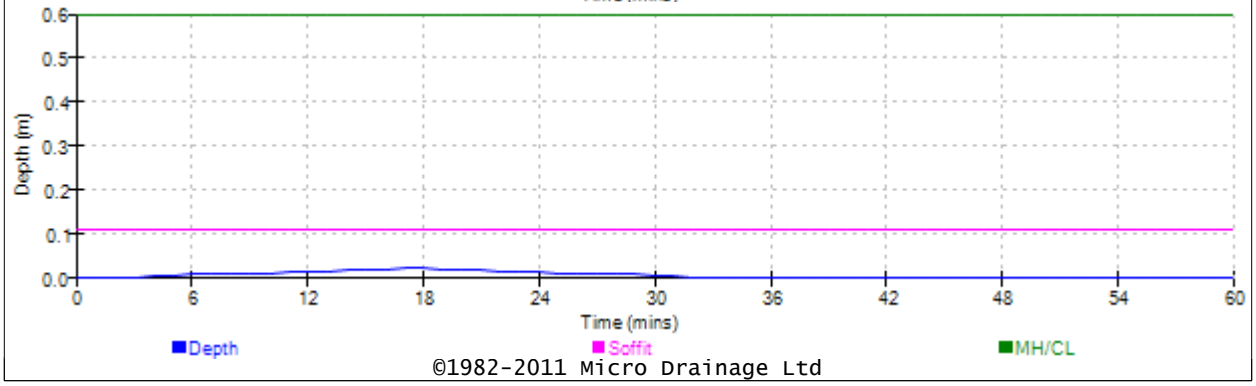
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Winter
Status: OK



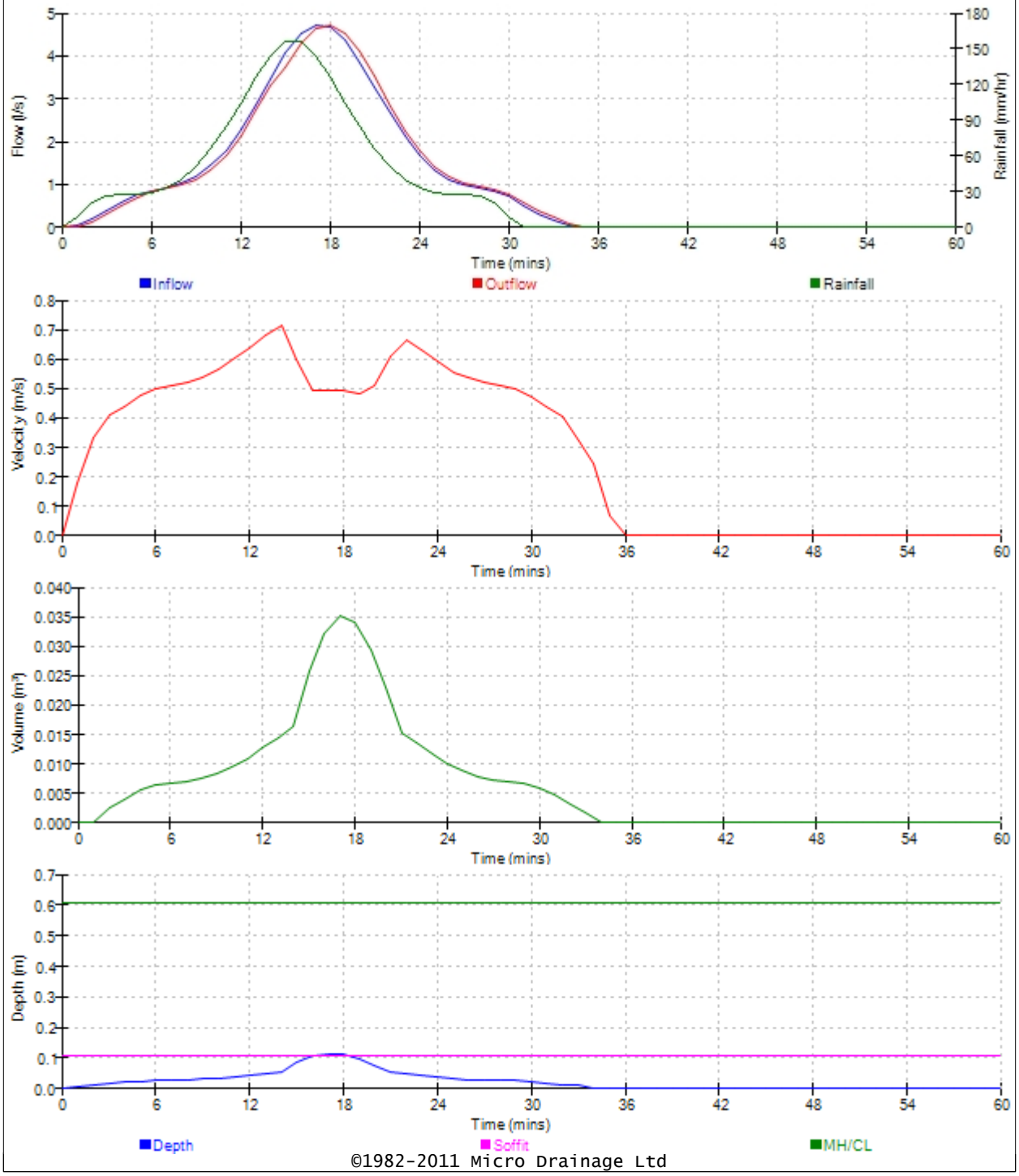






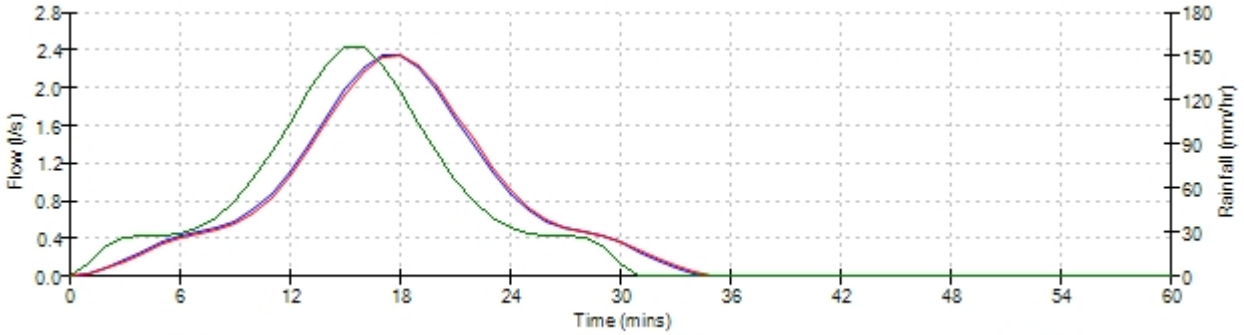
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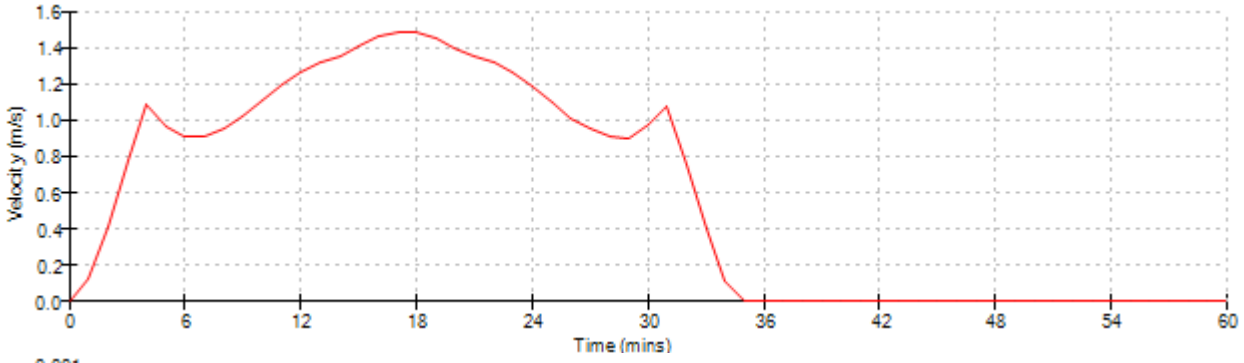
Graphs for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Winter
Status: SURCHARGED

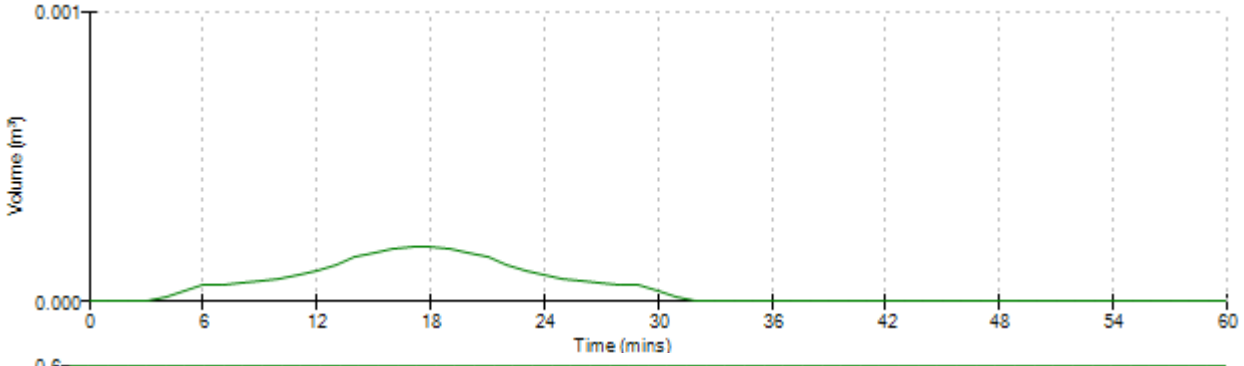


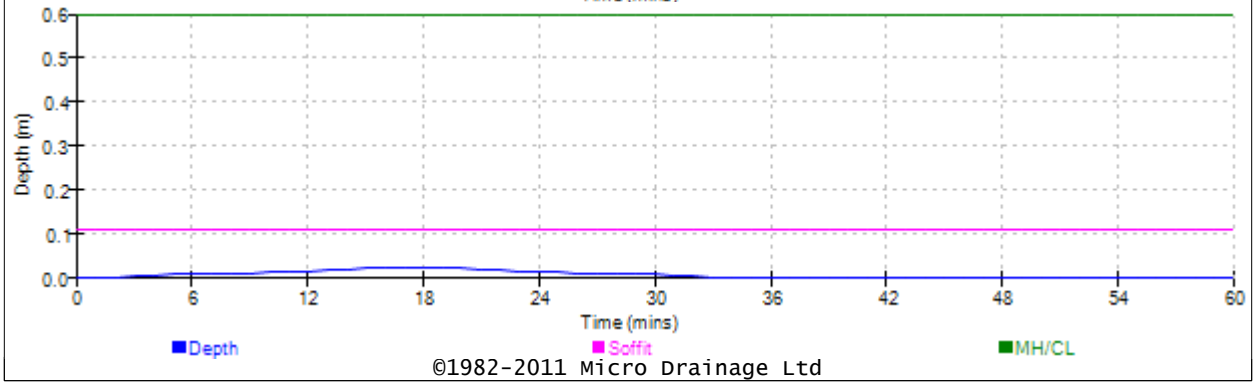
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Winter
Status: OK



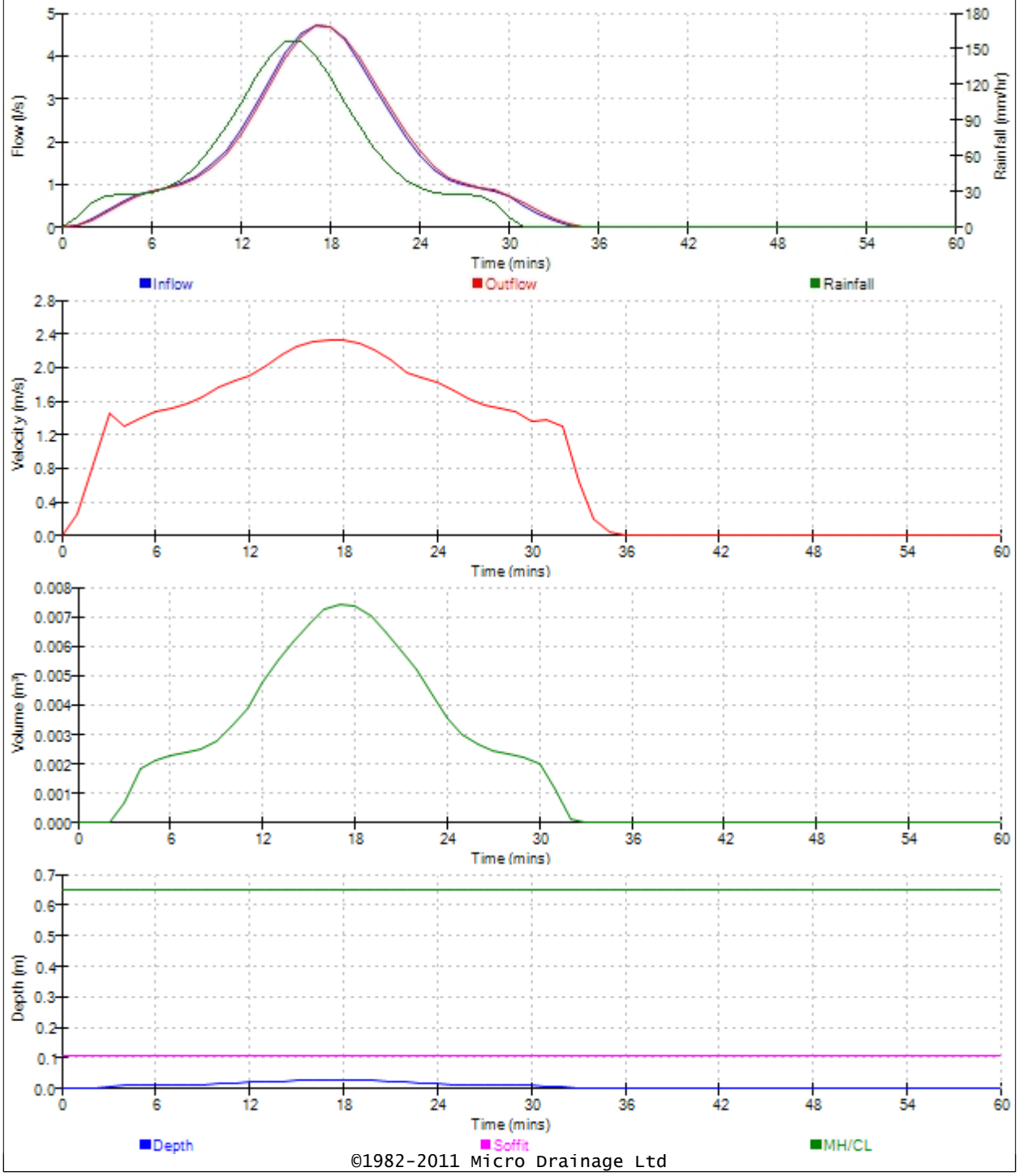






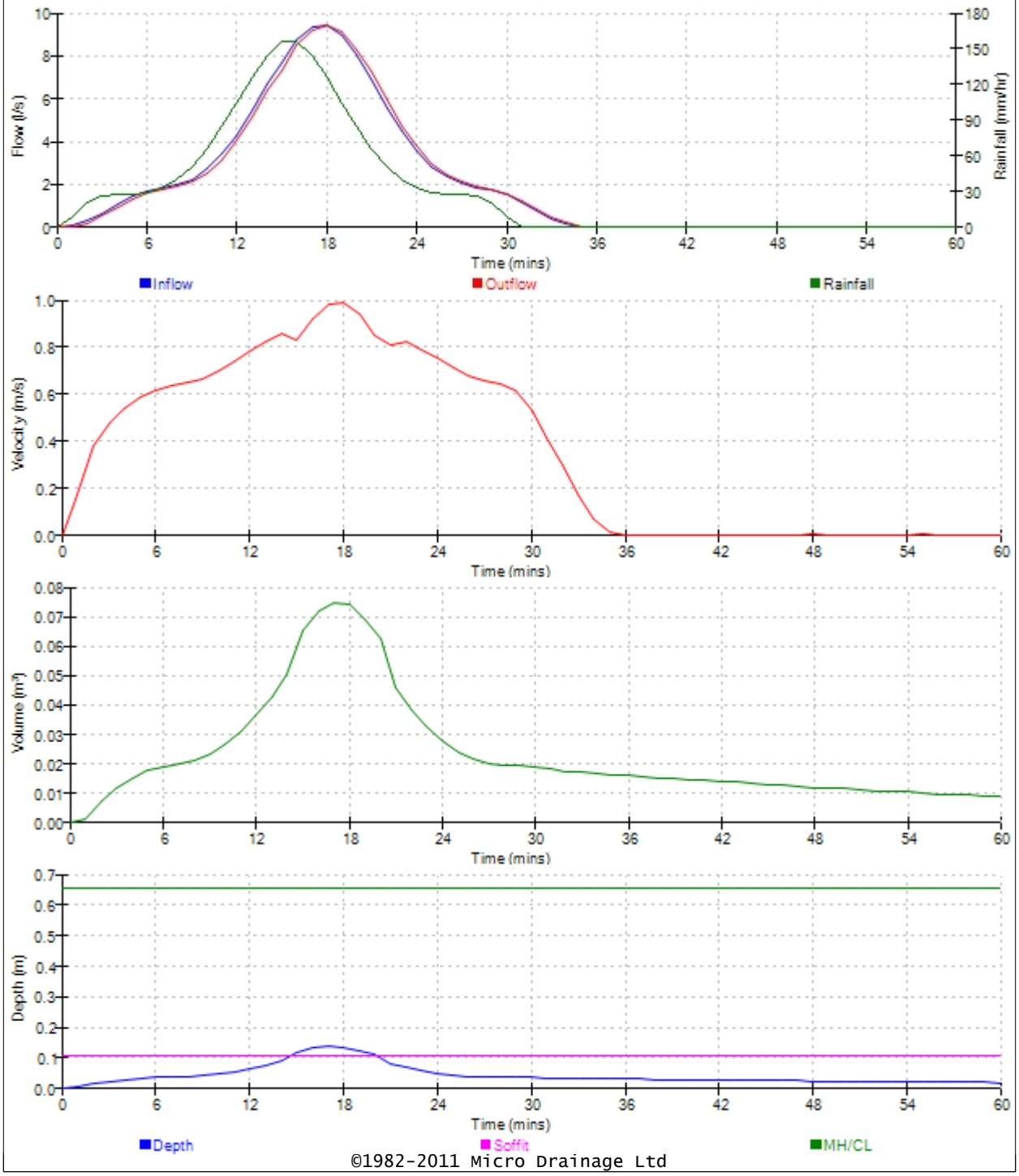
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Graphs for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Winter
Status: OK



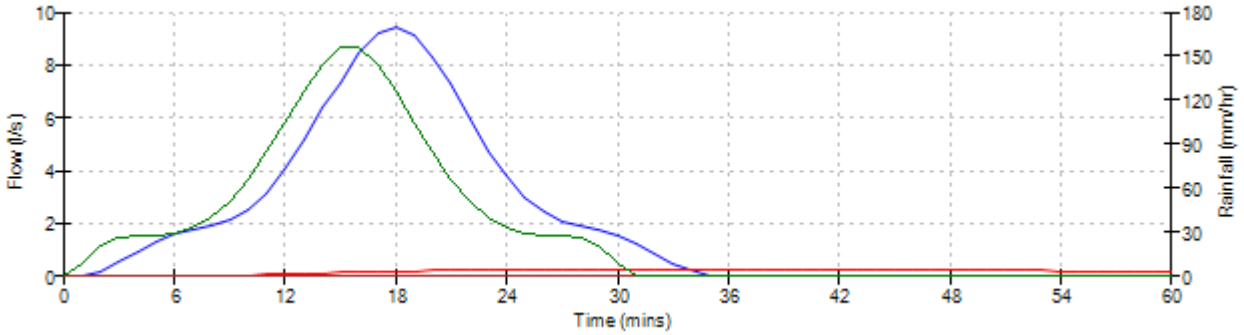
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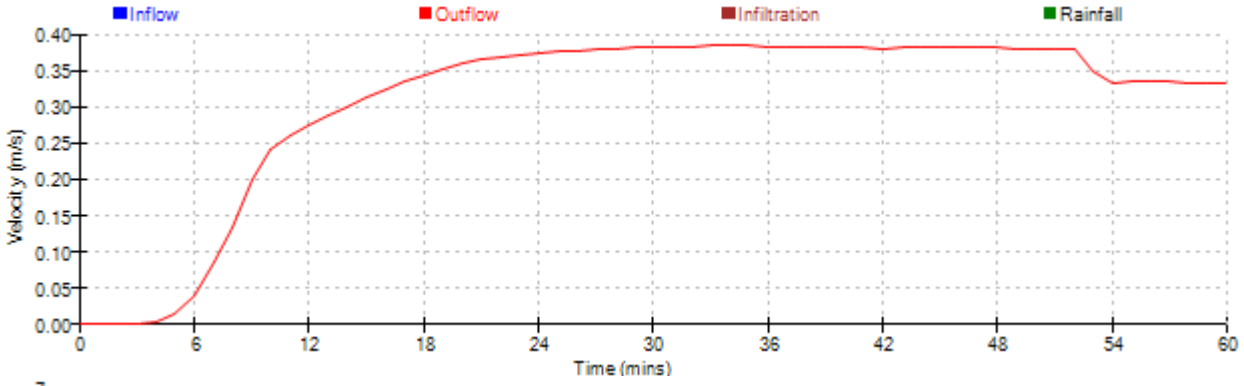
Graphs for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Winter
Status: SURCHARGED

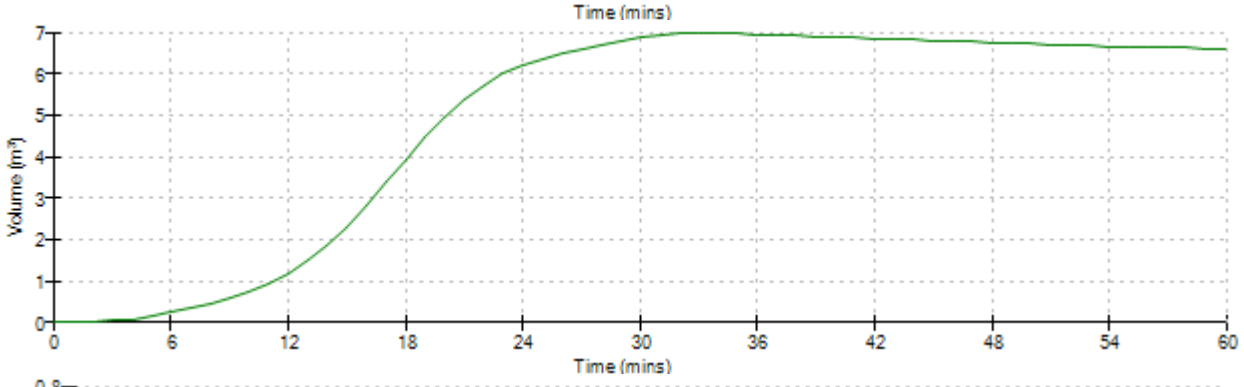


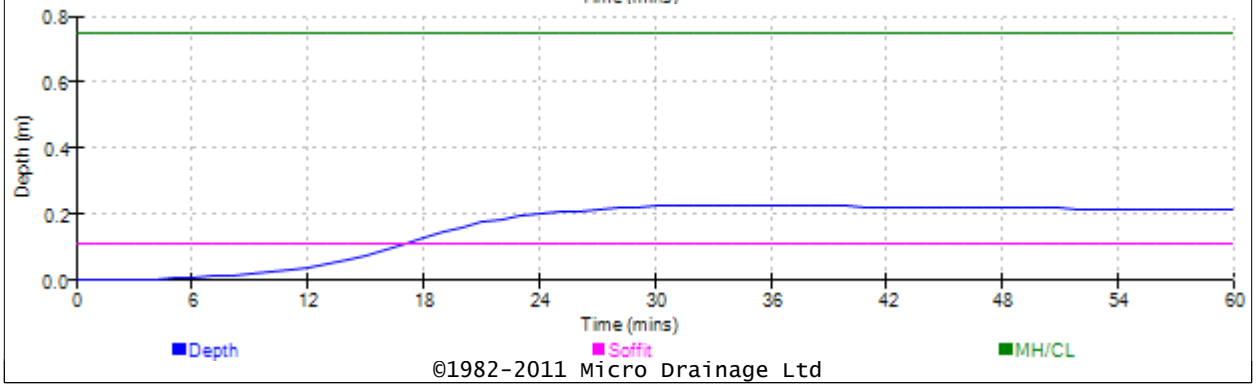
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Graphs for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Winter
Status: SURCHARGED



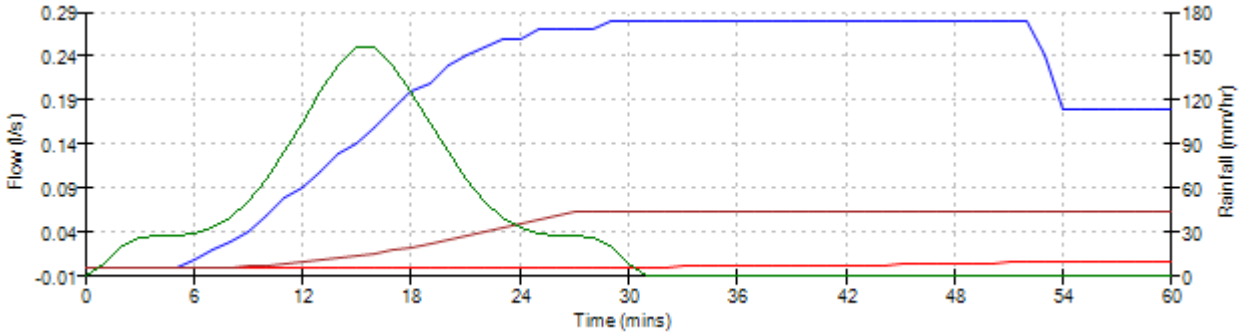


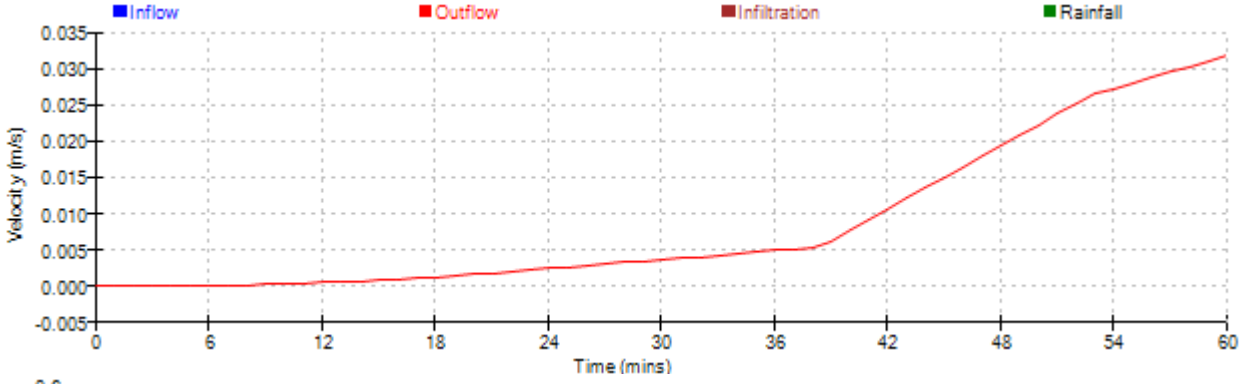


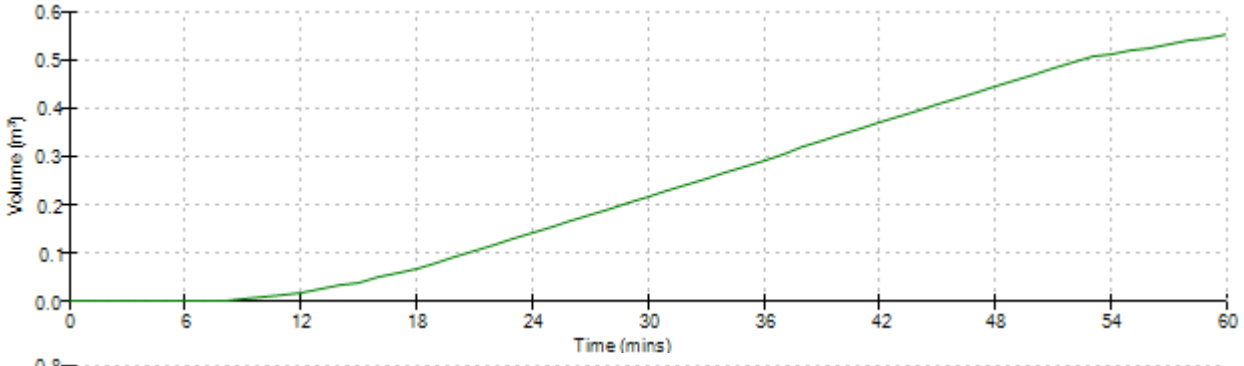


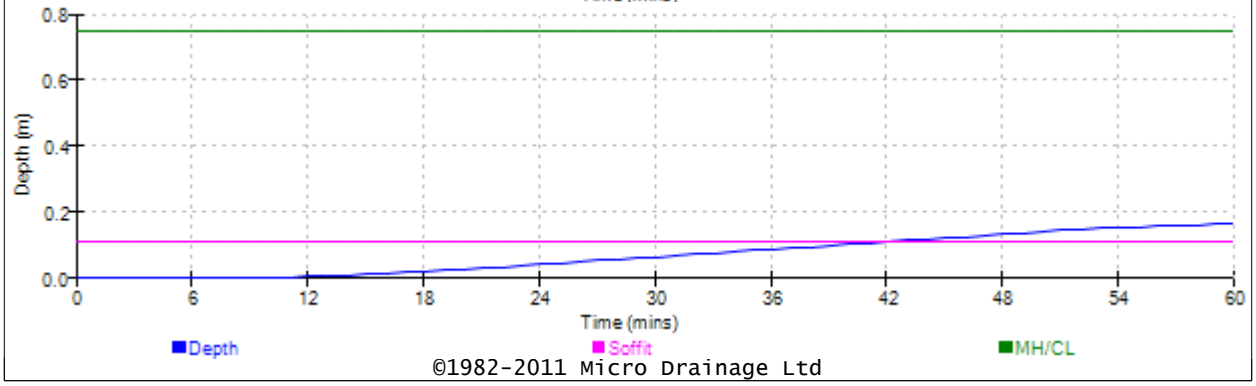
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	63.499	-0.109	0.0	0.1	0.0
2	65.402	63.507	-0.108	0.0	0.4	0.1
3	65.404	63.512	-0.106	0.0	0.8	0.2
4	65.406	63.517	-0.104	0.0	1.1	0.3
5	65.407	63.519	-0.103	0.0	1.3	0.3
6	65.409	63.520	-0.101	0.0	1.2	0.4
7	65.409	63.521	-0.101	0.0	1.2	0.5
8	65.410	63.523	-0.100	0.0	1.1	0.5
9	65.411	63.525	-0.099	0.0	1.1	0.6
10	65.412	63.529	-0.098	0.0	1.2	0.7
11	65.413	63.533	-0.097	0.0	1.4	0.8
12	65.415	63.539	-0.095	0.0	1.5	1.1
13	65.416	63.545	-0.094	0.0	1.6	1.3
14	65.418	63.551	-0.092	0.0	1.6	1.6
15	65.420	63.580	-0.090	0.0	1.7	1.9
16	65.422	63.600	-0.088	0.0	1.7	2.2
17	65.422	63.608	-0.088	0.0	1.7	2.3
18	65.422	63.605	-0.088	0.0	1.7	2.3
19	65.422	63.592	-0.088	0.0	1.7	2.2
20	65.420	63.572	-0.090	0.0	1.7	2.0
21	65.418	63.547	-0.092	0.0	1.6	1.7
22	65.416	63.542	-0.094	0.0	1.6	1.4
23	65.415	63.536	-0.095	0.0	1.5	1.2
24	65.413	63.531	-0.097	0.0	1.4	0.9
25	65.412	63.527	-0.098	0.0	1.2	0.7
26	65.411	63.524	-0.099	0.0	1.1	0.6
27	65.410	63.522	-0.100	0.0	1.1	0.5
28	65.409	63.521	-0.101	0.0	1.2	0.5
29	65.409	63.520	-0.101	0.0	1.2	0.4
30	65.407	63.518	-0.103	0.0	1.3	0.4
31	65.406	63.514	-0.104	0.0	1.1	0.3
32	65.404	63.509	-0.106	0.0	0.8	0.2
33	65.402	63.505	-0.108	0.0	0.4	0.1
34	65.401	63.497	-0.109	0.0	0.1	0.0
35	65.400	63.494	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.499	63.452	-0.105	0.0	0.2	0.0
2	63.507	63.461	-0.097	0.0	0.3	0.1
3	63.512	63.469	-0.092	0.0	0.4	0.3
4	63.517	63.474	-0.088	0.0	0.4	0.5
5	63.519	63.479	-0.085	0.0	0.5	0.7
6	63.520	63.481	-0.084	0.0	0.5	0.8
7	63.521	63.482	-0.083	0.0	0.5	0.9
8	63.523	63.484	-0.081	0.0	0.5	1.0
9	63.525	63.488	-0.079	0.0	0.5	1.1
10	63.529	63.493	-0.075	0.0	0.6	1.4
11	63.533	63.501	-0.071	0.0	0.6	1.7
12	63.539	63.510	-0.065	0.0	0.6	2.1
13	63.545	63.521	-0.059	0.0	0.7	2.7
14	63.551	63.534	-0.053	0.0	0.7	3.3
15	63.580	63.561	-0.024	0.0	0.6	3.7
16	63.600	63.576	-0.005	0.0	0.5	4.3
17	63.608	63.583	0.004	0.0	0.5	4.6
18	63.605	63.581	0.001	0.0	0.5	4.7
19	63.592	63.571	-0.013	0.0	0.5	4.5
20	63.572	63.555	-0.032	0.0	0.5	4.1
21	63.547	63.526	-0.057	0.0	0.6	3.6
22	63.542	63.514	-0.062	0.0	0.7	2.8
23	63.536	63.504	-0.068	0.0	0.6	2.3
24	63.531	63.496	-0.073	0.0	0.6	1.8
25	63.527	63.489	-0.077	0.0	0.6	1.4
26	63.524	63.485	-0.080	0.0	0.5	1.2
27	63.522	63.483	-0.082	0.0	0.5	1.0
28	63.521	63.482	-0.083	0.0	0.5	0.9
29	63.520	63.481	-0.084	0.0	0.5	0.9
30	63.518	63.481	-0.086	0.0	0.5	0.8
31	63.514	63.480	-0.090	0.0	0.4	0.6
32	63.509	63.478	-0.095	0.0	0.4	0.4
33	63.505	63.478	-0.100	0.0	0.3	0.2
34	63.497	63.477	-0.107	0.0	0.2	0.1
35	63.494	63.476	-0.110	0.0	0.1	0.0
36	63.494	63.476	-0.110	0.0	0.0	0.0
37	63.494	63.475	-0.110	0.0	0.0	0.0
38	63.494	63.475	-0.110	0.0	0.0	0.0
39	63.494	63.474	-0.110	0.0	0.0	0.0
40	63.494	63.474	-0.110	0.0	0.0	0.0
41	63.494	63.473	-0.110	0.0	0.0	0.0
42	63.494	63.473	-0.110	0.0	0.0	0.0
43	63.494	63.472	-0.110	0.0	0.0	0.0
44	63.494	63.472	-0.110	0.0	0.0	0.0
45	63.494	63.471	-0.110	0.0	0.0	0.0
46	63.494	63.470	-0.110	0.0	0.0	0.0
47	63.494	63.470	-0.110	0.0	0.0	0.0
48	63.494	63.469	-0.110	0.0	0.0	0.0
49	63.494	63.469	-0.110	0.0	0.0	0.0
50	63.494	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.468	-0.110	0.0	0.0	0.0
52	63.494	63.467	-0.110	0.0	0.0	0.0
53	63.494	63.467	-0.110	0.0	0.0	0.0
54	63.494	63.467	-0.110	0.0	0.0	0.0
55	63.494	63.466	-0.110	0.0	0.0	0.0
56	63.494	63.466	-0.110	0.0	0.0	0.0
57	63.494	63.466	-0.110	0.0	0.0	0.0
58	63.494	63.465	-0.110	0.0	0.0	0.0
59	63.494	63.465	-0.110	0.0	0.0	0.0
60	63.494	63.464	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.401	65.001	-0.109	0.0	0.1	0.0
2	65.402	65.004	-0.108	0.0	0.4	0.1
3	65.405	65.007	-0.105	0.0	0.8	0.2
4	65.407	65.011	-0.103	0.0	1.1	0.3
5	65.409	65.012	-0.101	0.0	1.0	0.3
6	65.411	65.012	-0.099	0.0	0.9	0.4
7	65.411	65.013	-0.099	0.0	0.9	0.5
8	65.412	65.013	-0.098	0.0	1.0	0.5
9	65.412	65.014	-0.098	0.0	1.0	0.6
10	65.413	65.016	-0.097	0.0	1.1	0.7
11	65.414	65.018	-0.096	0.0	1.2	0.8
12	65.416	65.021	-0.094	0.0	1.3	1.1
13	65.419	65.023	-0.091	0.0	1.3	1.3
14	65.421	65.025	-0.089	0.0	1.4	1.6
15	65.423	65.027	-0.087	0.0	1.4	1.9
16	65.424	65.029	-0.086	0.0	1.5	2.2
17	65.424	65.029	-0.086	0.0	1.5	2.3
18	65.424	65.029	-0.086	0.0	1.5	2.3
19	65.424	65.028	-0.086	0.0	1.5	2.2
20	65.423	65.026	-0.087	0.0	1.4	2.0
21	65.421	65.024	-0.089	0.0	1.3	1.7
22	65.419	65.022	-0.091	0.0	1.3	1.4
23	65.416	65.019	-0.094	0.0	1.3	1.2
24	65.414	65.017	-0.096	0.0	1.2	0.9
25	65.413	65.015	-0.097	0.0	1.1	0.7
26	65.412	65.014	-0.098	0.0	1.0	0.6
27	65.412	65.013	-0.098	0.0	1.0	0.5
28	65.411	65.013	-0.099	0.0	0.9	0.5
29	65.411	65.012	-0.099	0.0	0.9	0.4
30	65.409	65.011	-0.101	0.0	1.0	0.4
31	65.407	65.009	-0.103	0.0	1.1	0.3
32	65.405	65.005	-0.105	0.0	0.8	0.2
33	65.402	65.002	-0.108	0.0	0.4	0.1
34	65.401	65.000	-0.109	0.0	0.1	0.0
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.001	63.452	-0.109	0.0	0.2	0.0
2	65.004	63.461	-0.106	0.0	0.9	0.2
3	65.007	63.469	-0.103	0.0	1.5	0.3
4	65.011	63.474	-0.099	0.0	1.3	0.5
5	65.012	63.479	-0.098	0.0	1.4	0.7
6	65.012	63.481	-0.098	0.0	1.5	0.8
7	65.013	63.482	-0.097	0.0	1.5	0.9
8	65.013	63.484	-0.097	0.0	1.6	1.0
9	65.014	63.488	-0.096	0.0	1.7	1.1
10	65.016	63.493	-0.094	0.0	1.8	1.4
11	65.018	63.501	-0.092	0.0	1.8	1.7
12	65.021	63.510	-0.089	0.0	1.9	2.2
13	65.023	63.521	-0.087	0.0	2.0	2.8
14	65.025	63.534	-0.085	0.0	2.1	3.4
15	65.027	63.561	-0.083	0.0	2.2	3.9
16	65.029	63.576	-0.081	0.0	2.3	4.4
17	65.029	63.583	-0.081	0.0	2.3	4.7
18	65.029	63.581	-0.081	0.0	2.3	4.7
19	65.028	63.571	-0.082	0.0	2.3	4.4
20	65.026	63.555	-0.084	0.0	2.2	4.0
21	65.024	63.526	-0.086	0.0	2.1	3.4
22	65.022	63.514	-0.088	0.0	1.9	2.8
23	65.019	63.504	-0.091	0.0	1.9	2.2
24	65.017	63.496	-0.093	0.0	1.8	1.8
25	65.015	63.489	-0.095	0.0	1.7	1.4
26	65.014	63.485	-0.096	0.0	1.6	1.2
27	65.013	63.483	-0.097	0.0	1.6	1.0
28	65.013	63.482	-0.097	0.0	1.5	0.9
29	65.012	63.481	-0.098	0.0	1.5	0.9
30	65.011	63.481	-0.099	0.0	1.4	0.7
31	65.009	63.480	-0.101	0.0	1.4	0.6
32	65.005	63.478	-0.105	0.0	1.3	0.4
33	65.002	63.478	-0.108	0.0	0.7	0.2
34	65.000	63.477	-0.110	0.0	0.2	0.1
35	65.000	63.476	-0.110	0.0	0.0	0.0
36	65.000	63.476	-0.110	0.0	0.0	0.0
37	65.000	63.475	-0.110	0.0	0.0	0.0
38	65.000	63.475	-0.110	0.0	0.0	0.0
39	65.000	63.474	-0.110	0.0	0.0	0.0
40	65.000	63.474	-0.110	0.0	0.0	0.0
41	65.000	63.473	-0.110	0.0	0.0	0.0
42	65.000	63.473	-0.110	0.0	0.0	0.0
43	65.000	63.472	-0.110	0.0	0.0	0.0
44	65.000	63.472	-0.110	0.0	0.0	0.0
45	65.000	63.471	-0.110	0.0	0.0	0.0
46	65.000	63.470	-0.110	0.0	0.0	0.0
47	65.000	63.470	-0.110	0.0	0.0	0.0
48	65.000	63.469	-0.110	0.0	0.0	0.0
49	65.000	63.469	-0.110	0.0	0.0	0.0
50	65.000	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.468	-0.110	0.0	0.0	0.0
52	65.000	63.467	-0.110	0.0	0.0	0.0
53	65.000	63.467	-0.110	0.0	0.0	0.0
54	65.000	63.467	-0.110	0.0	0.0	0.0
55	65.000	63.466	-0.110	0.0	0.0	0.0
56	65.000	63.466	-0.110	0.0	0.0	0.0
57	65.000	63.466	-0.110	0.0	0.0	0.0
58	65.000	63.465	-0.110	0.0	0.0	0.0
59	65.000	63.465	-0.110	0.0	0.0	0.0
60	65.000	63.464	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.452	63.250	-0.103	0.0	0.2	0.0
2	63.461	63.250	-0.093	0.0	0.4	0.2
3	63.469	63.251	-0.085	0.0	0.5	0.5
4	63.474	63.253	-0.080	0.0	0.5	0.9
5	63.479	63.255	-0.075	0.0	0.6	1.3
6	63.481	63.258	-0.073	0.0	0.6	1.6
7	63.482	63.262	-0.072	0.0	0.6	1.8
8	63.484	63.266	-0.070	0.0	0.6	1.9
9	63.488	63.270	-0.066	0.0	0.7	2.1
10	63.493	63.274	-0.061	0.0	0.7	2.5
11	63.501	63.280	-0.053	0.0	0.7	3.2
12	63.510	63.288	-0.044	0.0	0.8	4.0
13	63.521	63.299	-0.033	0.0	0.8	5.2
14	63.534	63.311	-0.020	0.0	0.9	6.4
15	63.561	63.325	0.007	0.0	0.8	7.3
16	63.576	63.343	0.022	0.0	0.9	8.5
17	63.583	63.360	0.029	0.0	1.0	9.2
18	63.581	63.378	0.027	0.0	1.0	9.4
19	63.571	63.396	0.016	0.0	0.9	9.1
20	63.555	63.411	0.001	0.0	0.8	8.3
21	63.526	63.425	-0.028	0.0	0.8	7.3
22	63.514	63.437	-0.041	0.0	0.8	5.9
23	63.504	63.445	-0.050	0.0	0.8	4.7
24	63.496	63.452	-0.059	0.0	0.8	3.8
25	63.489	63.457	-0.065	0.0	0.7	3.0
26	63.485	63.461	-0.069	0.0	0.7	2.5
27	63.483	63.465	-0.071	0.0	0.7	2.1
28	63.482	63.468	-0.073	0.0	0.6	1.9
29	63.481	63.471	-0.073	0.0	0.6	1.8
30	63.481	63.474	-0.073	0.0	0.5	1.6
31	63.480	63.475	-0.075	0.0	0.4	1.2
32	63.478	63.476	-0.076	0.0	0.3	0.9
33	63.478	63.477	-0.076	0.0	0.2	0.5
34	63.477	63.477	-0.077	0.0	0.1	0.2
35	63.476	63.476	-0.078	0.0	0.0	0.1
36	63.476	63.476	-0.078	0.0	0.0	0.0
37	63.475	63.475	-0.079	0.0	0.0	0.0
38	63.475	63.475	-0.079	0.0	0.0	0.0
39	63.474	63.474	-0.080	0.0	0.0	0.0
40	63.474	63.474	-0.080	0.0	0.0	0.0
41	63.473	63.473	-0.081	0.0	0.0	0.0
42	63.473	63.473	-0.081	0.0	0.0	0.0
43	63.472	63.472	-0.082	0.0	0.0	0.0
44	63.472	63.472	-0.083	0.0	0.0	0.0
45	63.471	63.471	-0.083	0.0	0.0	0.0
46	63.470	63.471	-0.084	0.0	0.0	0.0
47	63.470	63.470	-0.084	0.0	0.0	0.0
48	63.469	63.470	-0.085	0.0	0.0	0.0
49	63.469	63.469	-0.085	0.0	0.0	0.0
50	63.468	63.468	-0.086	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.468	63.468	-0.086	0.0	0.0	0.0
52	63.467	63.467	-0.087	0.0	0.0	0.0
53	63.467	63.467	-0.087	0.0	0.0	0.0
54	63.467	63.467	-0.087	0.0	0.0	0.0
55	63.466	63.466	-0.088	0.0	0.0	0.0
56	63.466	63.466	-0.089	0.0	0.0	0.0
57	63.466	63.466	-0.089	0.0	0.0	0.0
58	63.465	63.465	-0.089	0.0	0.0	0.0
59	63.465	63.465	-0.089	0.0	0.0	0.0
60	63.464	63.465	-0.090	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.250	63.100	-0.110	0.0	0.0	0.0
3	63.251	63.100	-0.109	0.0	0.0	0.0
4	63.253	63.100	-0.107	0.0	0.0	0.0
5	63.255	63.100	-0.105	0.0	0.0	0.0
6	63.258	63.100	-0.102	0.0	0.0	0.0
7	63.262	63.101	-0.098	0.0	0.1	0.0
8	63.266	63.101	-0.094	0.0	0.1	0.0
9	63.270	63.102	-0.090	0.0	0.2	0.0
10	63.274	63.103	-0.086	0.0	0.2	0.1
11	63.280	63.104	-0.080	0.0	0.3	0.1
12	63.288	63.106	-0.072	0.0	0.3	0.1
13	63.299	63.108	-0.061	0.0	0.3	0.1
14	63.311	63.110	-0.049	0.0	0.3	0.1
15	63.325	63.112	-0.035	0.0	0.3	0.1
16	63.343	63.115	-0.017	0.0	0.3	0.2
17	63.360	63.118	0.000	0.0	0.3	0.2
18	63.378	63.121	0.018	0.0	0.3	0.2
19	63.396	63.124	0.036	0.0	0.4	0.2
20	63.411	63.128	0.051	0.0	0.4	0.2
21	63.425	63.132	0.065	0.0	0.4	0.2
22	63.437	63.135	0.077	0.0	0.4	0.2
23	63.445	63.139	0.085	0.0	0.4	0.3
24	63.452	63.142	0.092	0.0	0.4	0.3
25	63.457	63.146	0.097	0.0	0.4	0.3
26	63.461	63.150	0.101	0.0	0.4	0.3
27	63.465	63.154	0.105	0.0	0.4	0.3
28	63.468	63.158	0.108	0.0	0.4	0.3
29	63.471	63.161	0.111	0.0	0.4	0.3
30	63.474	63.165	0.114	0.0	0.4	0.3
31	63.475	63.169	0.115	0.0	0.4	0.3
32	63.476	63.172	0.116	0.0	0.4	0.3
33	63.477	63.176	0.117	0.0	0.4	0.3
34	63.477	63.180	0.117	0.0	0.4	0.3
35	63.476	63.184	0.116	0.0	0.4	0.3
36	63.476	63.188	0.116	0.0	0.4	0.3
37	63.475	63.192	0.115	0.0	0.4	0.3
38	63.475	63.196	0.115	0.0	0.4	0.3
39	63.474	63.200	0.114	0.0	0.4	0.3
40	63.474	63.203	0.114	0.0	0.4	0.3
41	63.473	63.207	0.113	0.0	0.4	0.3
42	63.473	63.211	0.113	0.0	0.4	0.3
43	63.472	63.215	0.112	0.0	0.4	0.3
44	63.472	63.219	0.112	0.0	0.4	0.3
45	63.471	63.222	0.111	0.0	0.4	0.3
46	63.471	63.226	0.111	0.0	0.4	0.3
47	63.470	63.230	0.110	0.0	0.4	0.3
48	63.470	63.234	0.110	0.0	0.4	0.3
49	63.469	63.237	0.109	0.0	0.4	0.3
50	63.468	63.241	0.108	0.0	0.4	0.3

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.468	63.245	0.108	0.0	0.4	0.3
52	63.467	63.249	0.107	0.0	0.4	0.3
53	63.467	63.252	0.107	0.0	0.3	0.2
54	63.467	63.253	0.107	0.0	0.3	0.2
55	63.466	63.255	0.106	0.0	0.3	0.2
56	63.466	63.257	0.106	0.0	0.3	0.2
57	63.466	63.259	0.106	0.0	0.3	0.2
58	63.465	63.261	0.105	0.0	0.3	0.2
59	63.465	63.263	0.105	0.0	0.3	0.2
60	63.465	63.265	0.105	0.0	0.3	0.2

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
7	63.101	63.096	-0.109	0.0	0.0	0.0
8	63.101	63.096	-0.109	0.0	0.0	0.0
9	63.102	63.096	-0.108	0.0	0.0	0.0
10	63.103	63.096	-0.107	0.0	0.0	0.0
11	63.104	63.096	-0.106	0.0	0.0	0.0
12	63.106	63.096	-0.104	0.0	0.0	0.0
13	63.108	63.096	-0.102	0.0	0.0	0.0
14	63.110	63.096	-0.100	0.0	0.0	0.0
15	63.112	63.096	-0.098	0.0	0.0	0.0
16	63.115	63.096	-0.095	0.0	0.0	0.0
17	63.118	63.096	-0.092	0.0	0.0	0.0
18	63.121	63.096	-0.089	0.0	0.0	0.0
19	63.124	63.096	-0.086	0.0	0.0	0.0
20	63.128	63.096	-0.082	0.0	0.0	0.0
21	63.132	63.096	-0.078	0.0	0.0	0.0
22	63.135	63.096	-0.075	0.0	0.0	0.0
23	63.139	63.096	-0.071	0.0	0.0	0.0
24	63.142	63.096	-0.068	0.0	0.0	0.0
25	63.146	63.096	-0.064	0.0	0.0	0.0
26	63.150	63.096	-0.060	0.0	0.0	0.0
27	63.154	63.096	-0.056	0.0	0.0	0.0
28	63.158	63.096	-0.052	0.0	0.0	0.0
29	63.161	63.096	-0.049	0.0	0.0	0.0
30	63.165	63.096	-0.045	0.0	0.0	0.0
31	63.169	63.096	-0.041	0.0	0.0	0.0
32	63.172	63.096	-0.038	0.0	0.0	0.0
33	63.176	63.096	-0.034	0.0	0.0	0.0
34	63.180	63.096	-0.030	0.0	0.0	0.0
35	63.184	63.096	-0.026	0.0	0.0	0.0
36	63.188	63.096	-0.022	0.0	0.0	0.0
37	63.192	63.096	-0.018	0.0	0.0	0.0
38	63.196	63.096	-0.014	0.0	0.0	0.0
39	63.200	63.096	-0.010	0.0	0.0	0.0
40	63.203	63.096	-0.007	0.0	0.0	0.0
41	63.207	63.096	-0.003	0.0	0.0	0.0
42	63.211	63.096	0.001	0.0	0.0	0.0
43	63.215	63.096	0.005	0.0	0.0	0.0
44	63.219	63.096	0.009	0.0	0.0	0.0
45	63.222	63.096	0.012	0.0	0.0	0.0
46	63.226	63.096	0.016	0.0	0.0	0.0
47	63.230	63.096	0.020	0.0	0.0	0.0
48	63.234	63.096	0.024	0.0	0.0	0.0
49	63.237	63.096	0.027	0.0	0.0	0.0
50	63.241	63.096	0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
30 minute 100 year Winter
Average Rainfall Intensity 63.033 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
51	63.245	63.096	0.035	0.0	0.0	0.0
52	63.249	63.096	0.039	0.0	0.0	0.0
53	63.252	63.096	0.042	0.0	0.0	0.0
54	63.253	63.096	0.043	0.0	0.0	0.0
55	63.255	63.096	0.045	0.0	0.0	0.0
56	63.257	63.096	0.047	0.0	0.0	0.0
57	63.259	63.096	0.049	0.0	0.0	0.0
58	63.261	63.096	0.051	0.0	0.0	0.0
59	63.263	63.096	0.053	0.0	0.0	0.0
60	63.265	63.096	0.055	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	120
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	2

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	60
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 60 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.421	-0.089	0.000	0.08	0.0	2.2	OK
1.001	S1	63.597	-0.007	0.000	0.64	0.0	4.3	OK
2.000	RE2	65.424	-0.086	0.000	0.10	0.0	2.2	OK
2.001	S2	65.028	-0.082	0.000	0.15	0.0	4.4	OK
1.002	S3	63.575	0.021	0.000	1.20	0.0	8.5	SURCHARGED
1.003	S4	63.530	0.170	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.406	0.196	0.000	0.00	0.0	0.0	SURCHARGED

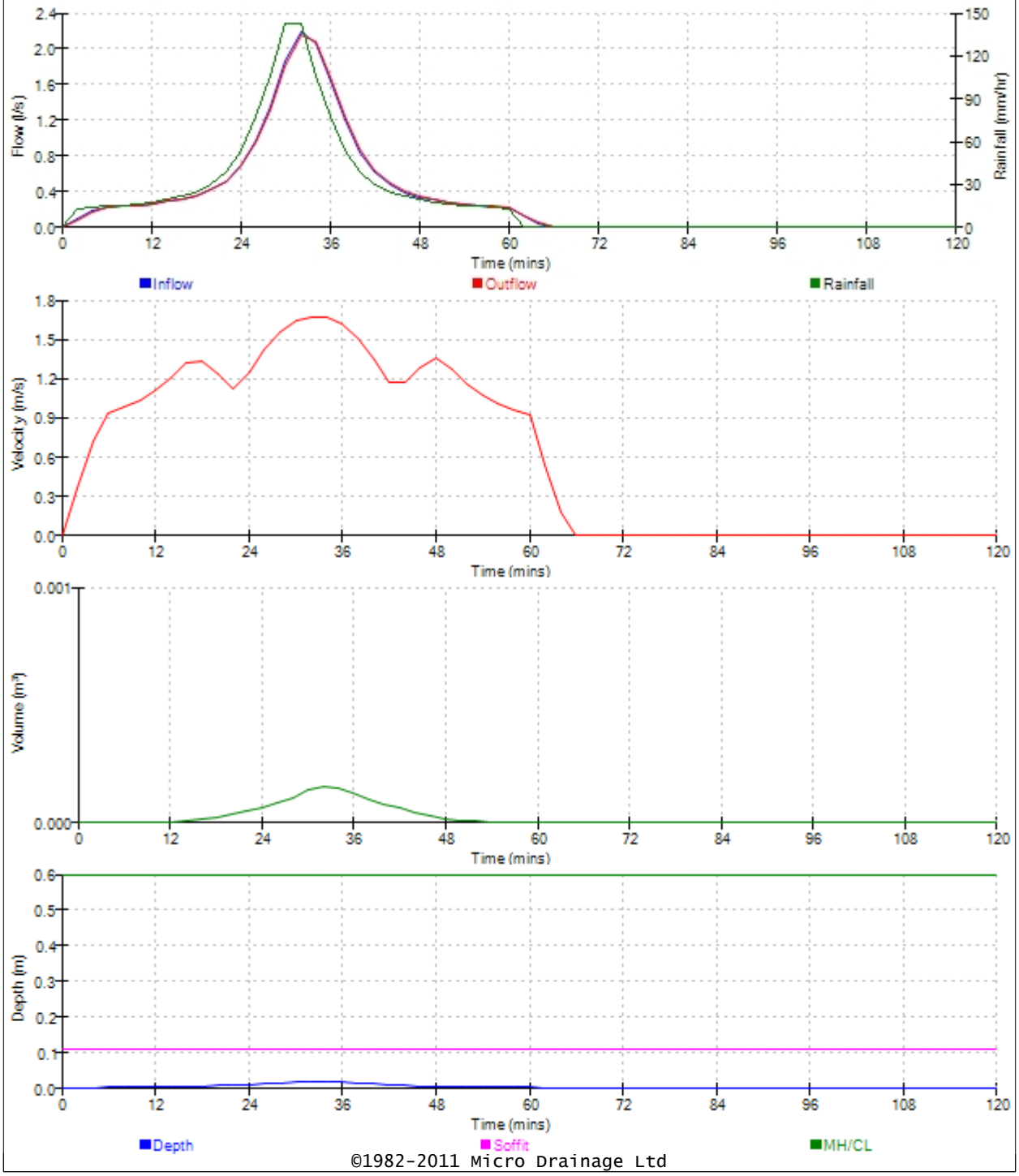
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Rainfall Hyetograph for 60 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
2	13.287	14	19.445	26	78.021	38	54.404	50	17.743
4	13.976	16	21.551	28	106.459	40	38.808	52	16.406
6	14.664	18	24.508	30	143.161	42	29.896	54	15.312
8	15.313	20	29.896	32	143.161	44	24.508	56	14.665
10	16.406	22	38.808	34	106.459	46	21.551	58	13.976
12	17.743	24	54.404	36	78.021	48	19.445	60	13.287

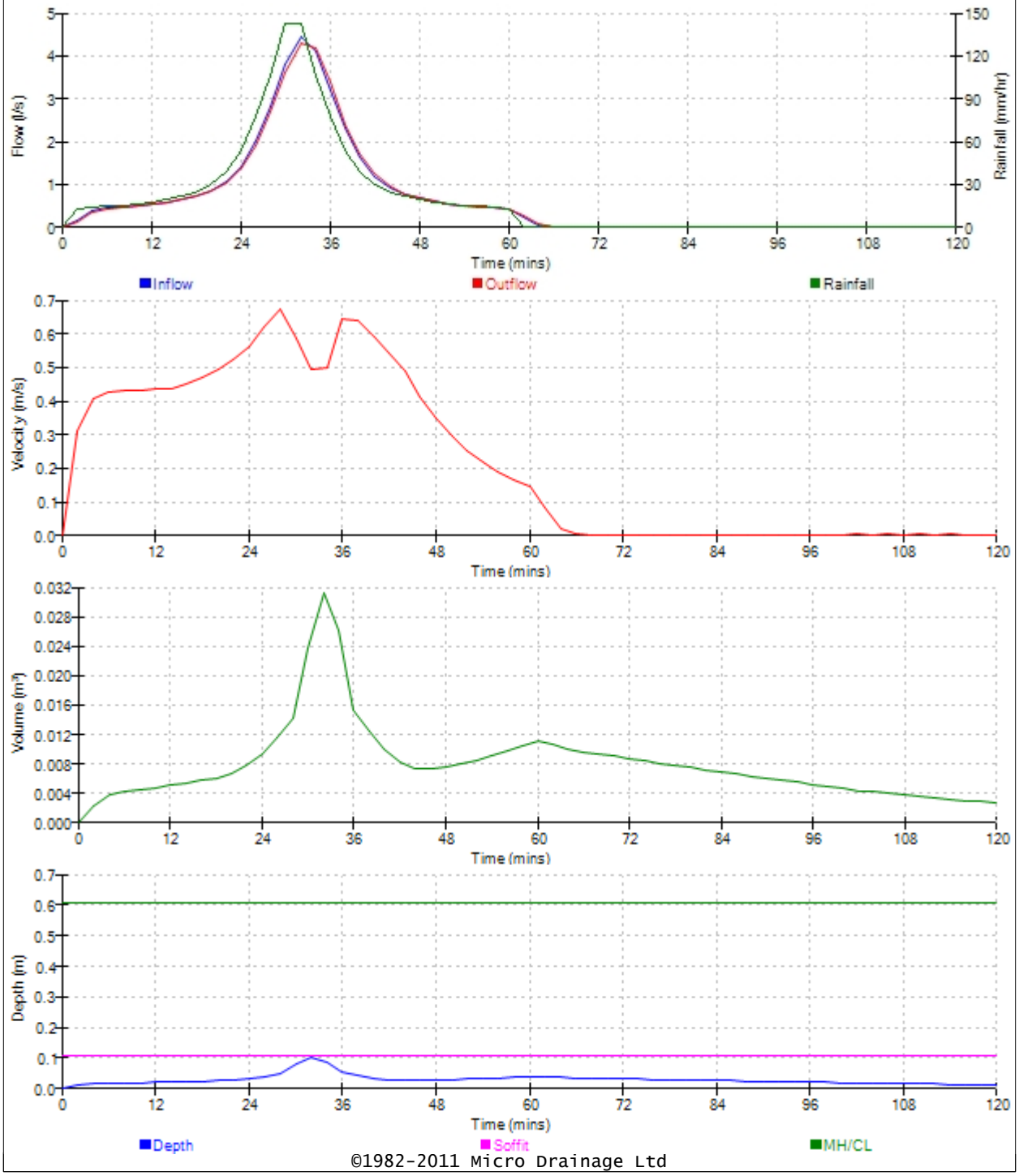
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Summer
Status: OK



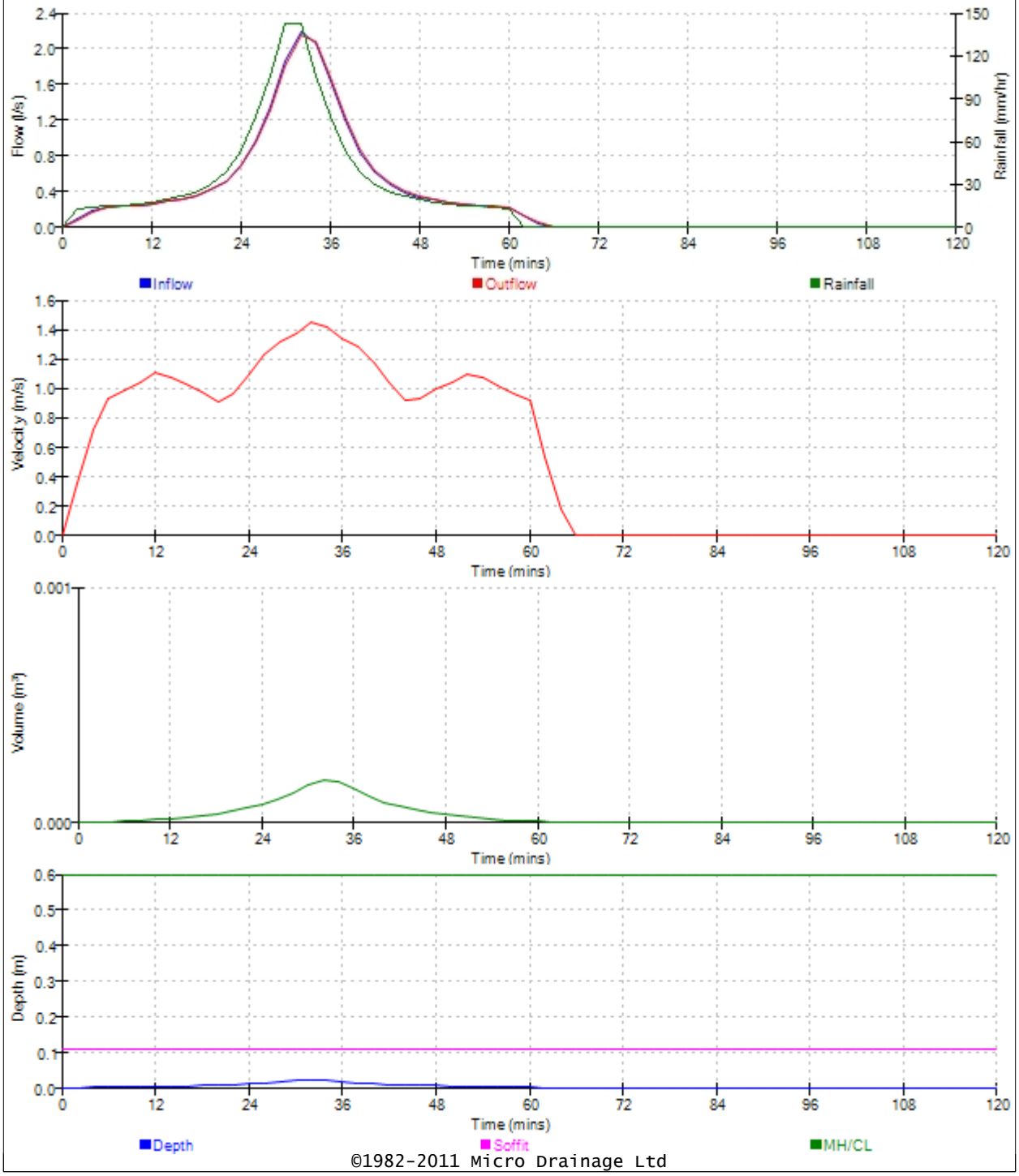
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Graphs for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Summer
Status: OK



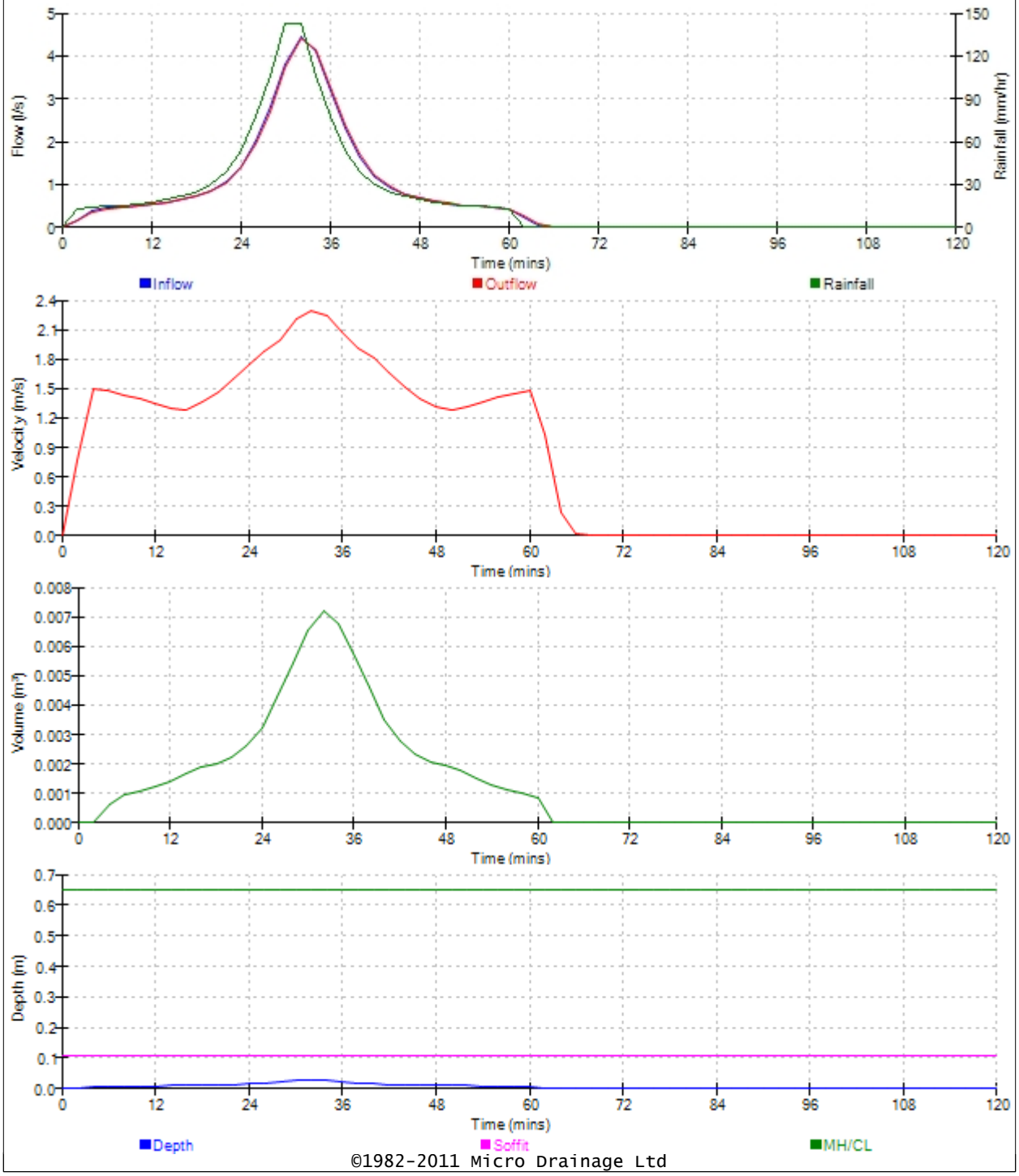
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Summer
Status: OK



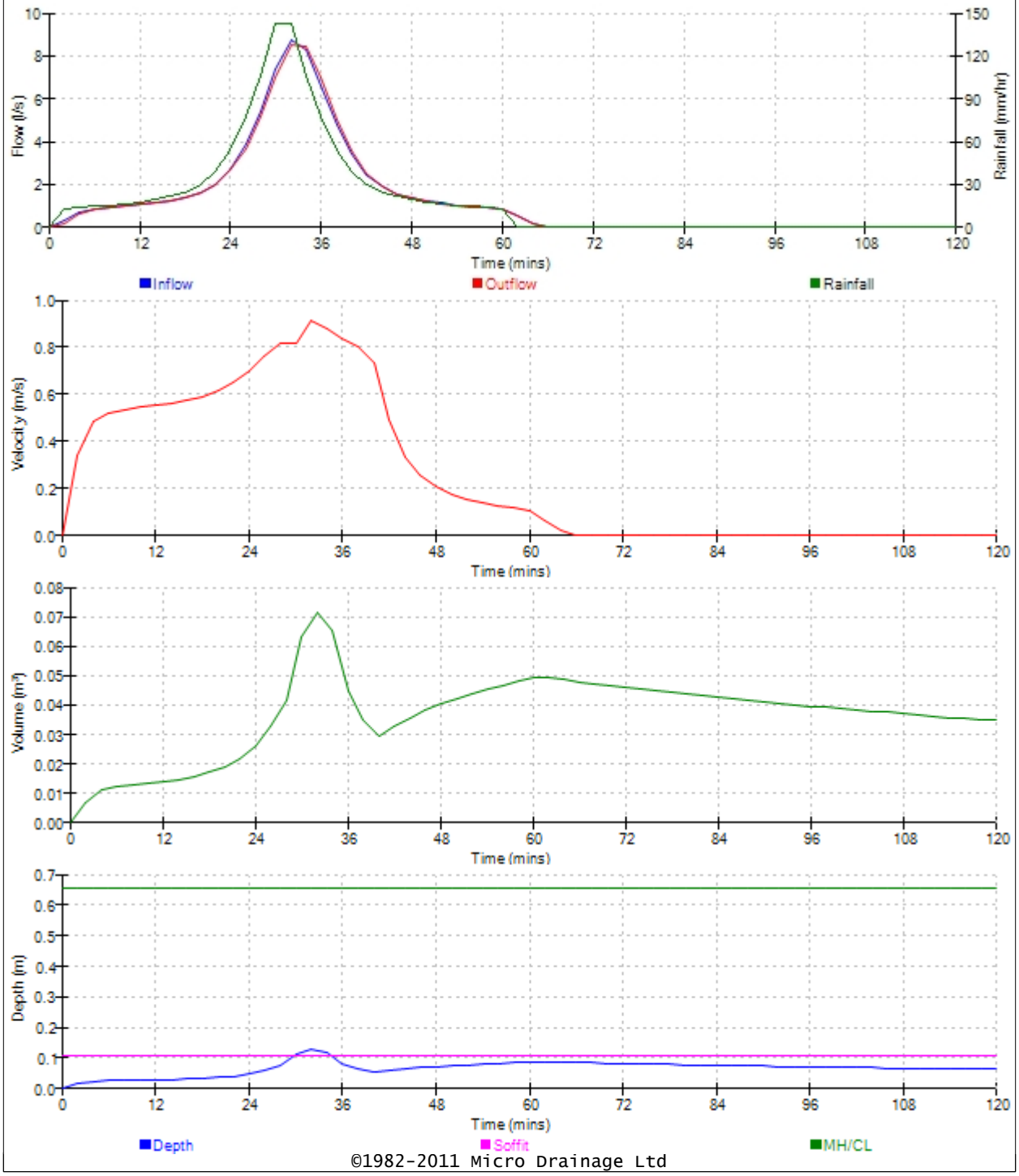
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Graphs for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Summer
Status: OK



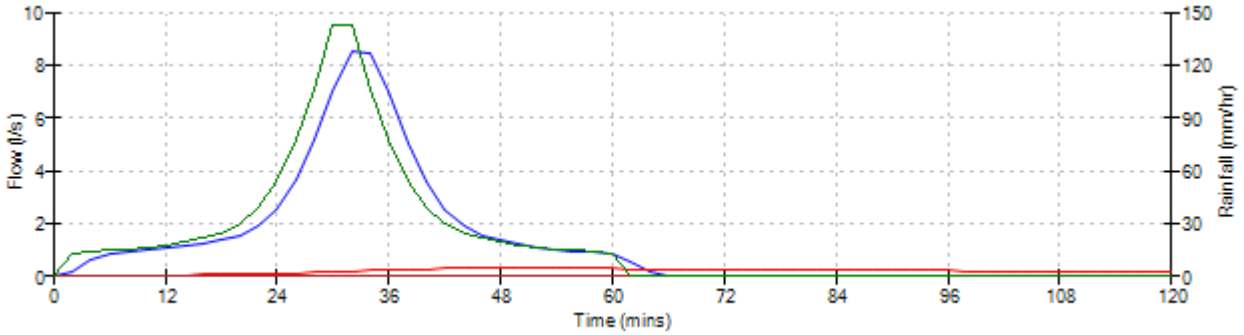
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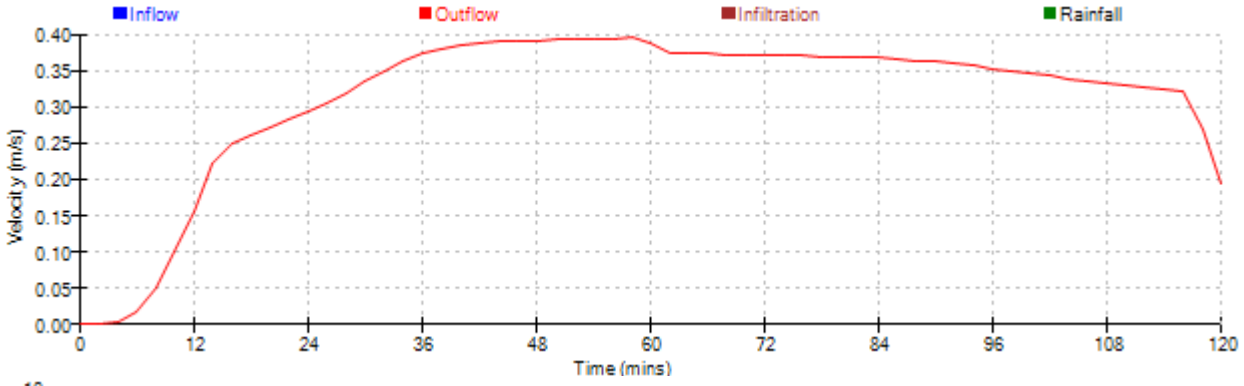
Graphs for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Summer
Status: SURCHARGED

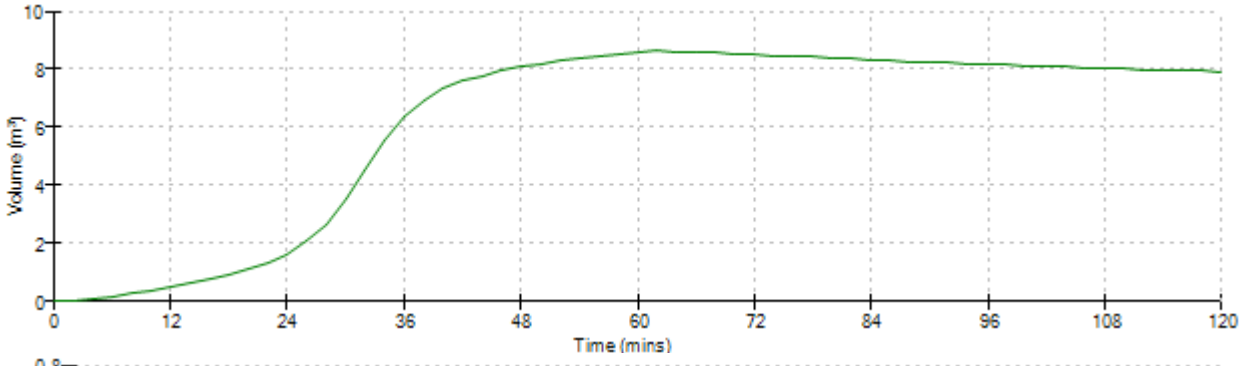


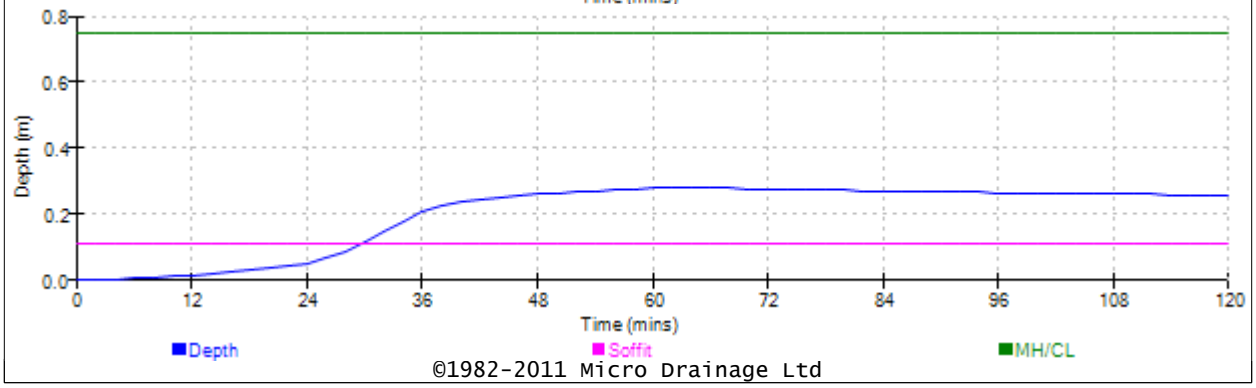
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Graphs for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Summer
Status: SURCHARGED



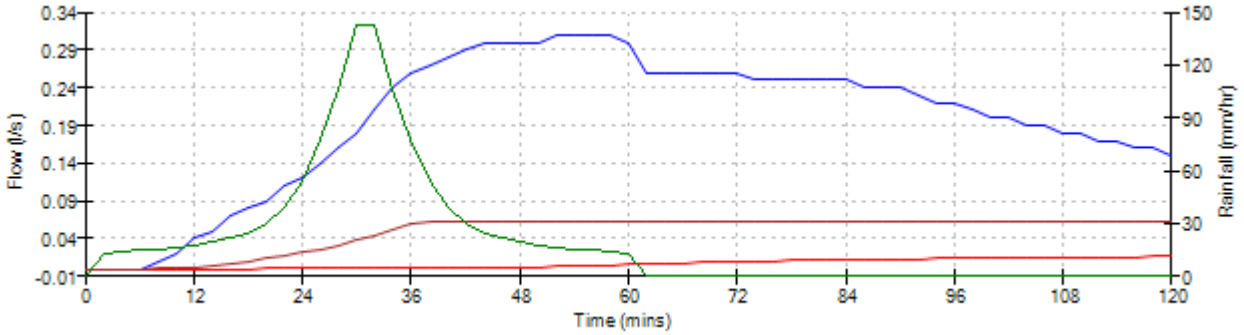


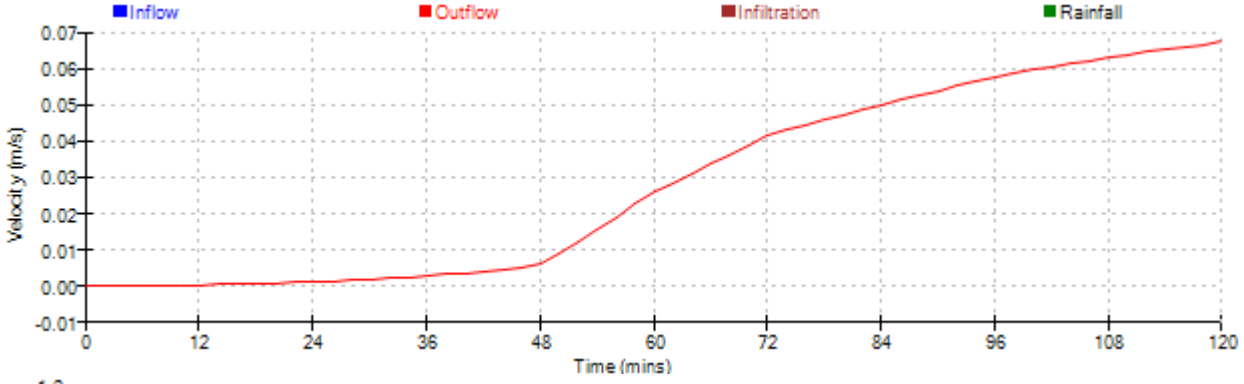


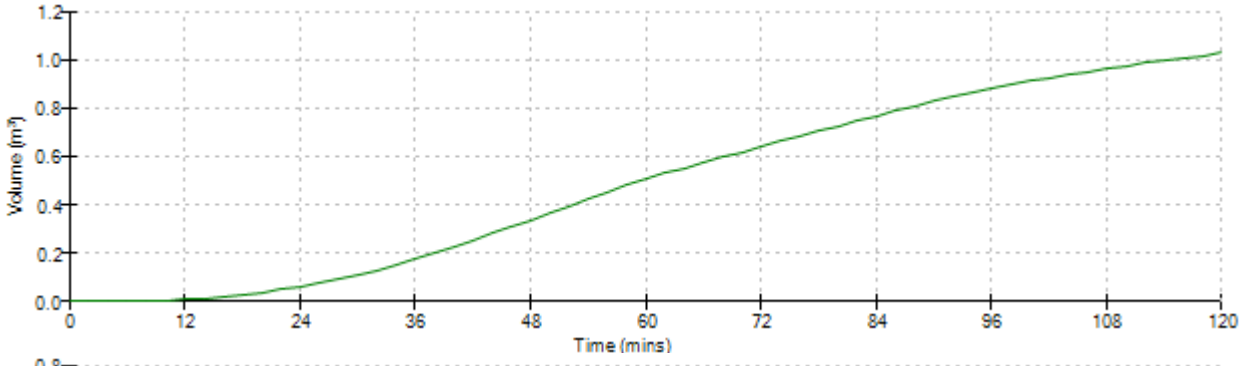


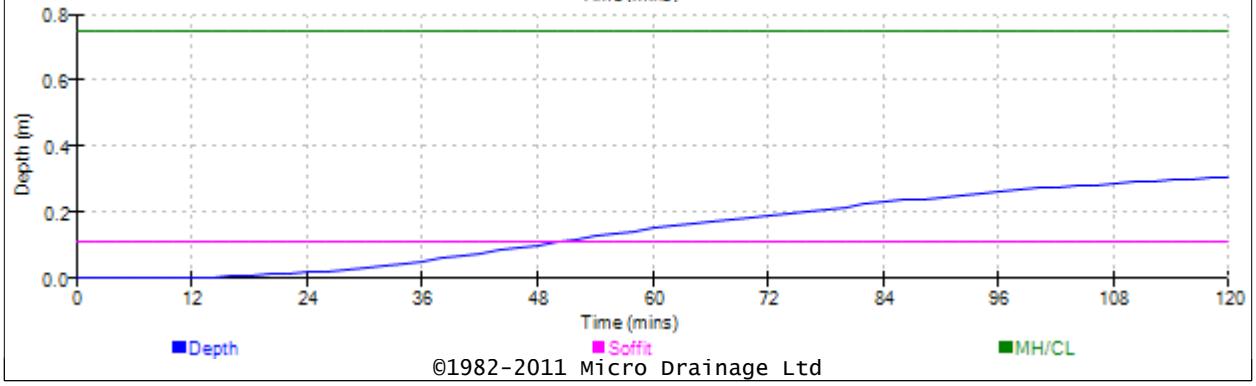
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.402	63.506	-0.108	0.0	0.4	0.1
4	65.404	63.511	-0.106	0.0	0.7	0.2
6	65.405	63.513	-0.105	0.0	0.9	0.2
8	65.405	63.513	-0.105	0.0	1.0	0.2
10	65.405	63.514	-0.105	0.0	1.0	0.3
12	65.405	63.515	-0.105	0.0	1.1	0.3
14	65.406	63.516	-0.104	0.0	1.2	0.3
16	65.407	63.517	-0.103	0.0	1.3	0.3
18	65.407	63.518	-0.103	0.0	1.3	0.4
20	65.409	63.520	-0.101	0.0	1.2	0.4
22	65.411	63.523	-0.099	0.0	1.1	0.5
24	65.412	63.529	-0.098	0.0	1.2	0.7
26	65.414	63.536	-0.096	0.0	1.4	0.9
28	65.416	63.544	-0.094	0.0	1.6	1.3
30	65.419	63.573	-0.091	0.0	1.6	1.8
32	65.421	63.597	-0.089	0.0	1.7	2.2
34	65.421	63.581	-0.089	0.0	1.7	2.1
36	65.418	63.547	-0.092	0.0	1.6	1.7
38	65.415	63.538	-0.095	0.0	1.5	1.2
40	65.413	63.530	-0.097	0.0	1.3	0.9
42	65.411	63.525	-0.099	0.0	1.2	0.6
44	65.410	63.522	-0.100	0.0	1.2	0.5
46	65.408	63.522	-0.102	0.0	1.3	0.4
48	65.407	63.523	-0.103	0.0	1.4	0.3
50	65.406	63.524	-0.104	0.0	1.3	0.3
52	65.406	63.526	-0.104	0.0	1.2	0.3
54	65.405	63.528	-0.105	0.0	1.1	0.3
56	65.405	63.530	-0.105	0.0	1.0	0.2
58	65.405	63.532	-0.105	0.0	1.0	0.2
60	65.405	63.534	-0.105	0.0	0.9	0.2
62	65.403	63.533	-0.107	0.0	0.5	0.1
64	65.401	63.531	-0.109	0.0	0.2	0.1
66	65.400	63.529	-0.110	0.0	0.0	0.0
68	65.400	63.528	-0.110	0.0	0.0	0.0
70	65.400	63.527	-0.110	0.0	0.0	0.0
72	65.400	63.526	-0.110	0.0	0.0	0.0
74	65.400	63.525	-0.110	0.0	0.0	0.0
76	65.400	63.524	-0.110	0.0	0.0	0.0
78	65.400	63.524	-0.110	0.0	0.0	0.0
80	65.400	63.523	-0.110	0.0	0.0	0.0
82	65.400	63.522	-0.110	0.0	0.0	0.0
84	65.400	63.521	-0.110	0.0	0.0	0.0
86	65.400	63.520	-0.110	0.0	0.0	0.0
88	65.400	63.519	-0.110	0.0	0.0	0.0
90	65.400	63.518	-0.110	0.0	0.0	0.0
92	65.400	63.517	-0.110	0.0	0.0	0.0
94	65.400	63.516	-0.110	0.0	0.0	0.0
96	65.400	63.516	-0.110	0.0	0.0	0.0
98	65.400	63.515	-0.110	0.0	0.0	0.0
100	65.400	63.514	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.400	63.513	-0.110	0.0	0.0	0.0
104	65.400	63.512	-0.110	0.0	0.0	0.0
106	65.400	63.511	-0.110	0.0	0.0	0.0
108	65.400	63.511	-0.110	0.0	0.0	0.0
110	65.400	63.510	-0.110	0.0	0.0	0.0
112	65.400	63.510	-0.110	0.0	0.0	0.0
114	65.400	63.509	-0.110	0.0	0.0	0.0
116	65.400	63.509	-0.110	0.0	0.0	0.0
118	65.400	63.508	-0.110	0.0	0.0	0.0
120	65.400	63.507	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.506	63.461	-0.098	0.0	0.3	0.1
4	63.511	63.468	-0.093	0.0	0.4	0.3
6	63.513	63.470	-0.091	0.0	0.4	0.4
8	63.513	63.471	-0.091	0.0	0.4	0.5
10	63.514	63.472	-0.090	0.0	0.4	0.5
12	63.515	63.473	-0.089	0.0	0.4	0.5
14	63.516	63.474	-0.088	0.0	0.4	0.6
16	63.517	63.476	-0.087	0.0	0.5	0.6
18	63.518	63.478	-0.086	0.0	0.5	0.7
20	63.520	63.480	-0.084	0.0	0.5	0.8
22	63.523	63.485	-0.081	0.0	0.5	1.0
24	63.529	63.493	-0.075	0.0	0.6	1.4
26	63.536	63.504	-0.069	0.0	0.6	1.9
28	63.544	63.519	-0.060	0.0	0.7	2.7
30	63.573	63.557	-0.031	0.0	0.6	3.6
32	63.597	63.575	-0.007	0.0	0.5	4.3
34	63.581	63.562	-0.023	0.0	0.5	4.2
36	63.547	63.524	-0.057	0.0	0.6	3.4
38	63.538	63.508	-0.066	0.0	0.6	2.4
40	63.530	63.498	-0.074	0.0	0.6	1.7
42	63.525	63.504	-0.079	0.0	0.5	1.3
44	63.522	63.509	-0.082	0.0	0.5	1.0
46	63.522	63.513	-0.082	0.0	0.4	0.8
48	63.523	63.517	-0.081	0.0	0.3	0.7
50	63.524	63.520	-0.080	0.0	0.3	0.6
52	63.526	63.523	-0.078	0.0	0.3	0.6
54	63.528	63.525	-0.077	0.0	0.2	0.5
56	63.530	63.528	-0.074	0.0	0.2	0.5
58	63.532	63.530	-0.072	0.0	0.2	0.5
60	63.534	63.532	-0.070	0.0	0.1	0.4
62	63.533	63.532	-0.071	0.0	0.1	0.3
64	63.531	63.530	-0.073	0.0	0.0	0.1
66	63.529	63.529	-0.075	0.0	0.0	0.0
68	63.528	63.528	-0.076	0.0	0.0	0.0
70	63.527	63.527	-0.077	0.0	0.0	0.0
72	63.526	63.526	-0.078	0.0	0.0	0.0
74	63.525	63.526	-0.079	0.0	0.0	0.0
76	63.524	63.525	-0.080	0.0	0.0	0.0
78	63.524	63.524	-0.080	0.0	0.0	0.0
80	63.523	63.523	-0.081	0.0	0.0	0.0
82	63.522	63.522	-0.082	0.0	0.0	0.0
84	63.521	63.521	-0.083	0.0	0.0	0.0
86	63.520	63.520	-0.084	0.0	0.0	0.0
88	63.519	63.519	-0.085	0.0	0.0	0.0
90	63.518	63.518	-0.086	0.0	0.0	0.0
92	63.517	63.517	-0.087	0.0	0.0	0.0
94	63.516	63.516	-0.088	0.0	0.0	0.0
96	63.516	63.516	-0.089	0.0	0.0	0.0
98	63.515	63.515	-0.089	0.0	0.0	0.0
100	63.514	63.514	-0.090	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.513	63.514	-0.091	0.0	0.0	0.0
104	63.512	63.513	-0.092	0.0	0.0	0.0
106	63.511	63.512	-0.093	0.0	0.0	0.0
108	63.511	63.511	-0.093	0.0	0.0	0.0
110	63.510	63.511	-0.094	0.0	0.0	0.0
112	63.510	63.510	-0.094	0.0	0.0	0.0
114	63.509	63.509	-0.095	0.0	0.0	0.0
116	63.509	63.508	-0.096	0.0	0.0	0.0
118	63.508	63.508	-0.096	0.0	0.0	0.0
120	63.507	63.507	-0.097	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.402	65.003	-0.108	0.0	0.4	0.1
4	65.404	65.007	-0.106	0.0	0.7	0.2
6	65.406	65.008	-0.104	0.0	0.9	0.2
8	65.406	65.008	-0.104	0.0	1.0	0.2
10	65.406	65.009	-0.104	0.0	1.0	0.3
12	65.407	65.010	-0.103	0.0	1.1	0.3
14	65.407	65.010	-0.103	0.0	1.1	0.3
16	65.408	65.011	-0.102	0.0	1.0	0.3
18	65.409	65.012	-0.101	0.0	1.0	0.4
20	65.411	65.012	-0.099	0.0	0.9	0.4
22	65.412	65.014	-0.098	0.0	1.0	0.5
24	65.413	65.016	-0.097	0.0	1.1	0.7
26	65.415	65.019	-0.095	0.0	1.2	0.9
28	65.418	65.023	-0.092	0.0	1.3	1.3
30	65.422	65.026	-0.088	0.0	1.4	1.8
32	65.424	65.028	-0.086	0.0	1.5	2.2
34	65.423	65.027	-0.087	0.0	1.4	2.1
36	65.421	65.024	-0.089	0.0	1.3	1.7
38	65.417	65.020	-0.093	0.0	1.3	1.2
40	65.414	65.016	-0.096	0.0	1.2	0.9
42	65.412	65.014	-0.098	0.0	1.0	0.6
44	65.411	65.013	-0.099	0.0	0.9	0.5
46	65.410	65.012	-0.100	0.0	0.9	0.4
48	65.409	65.011	-0.101	0.0	1.0	0.3
50	65.408	65.011	-0.102	0.0	1.0	0.3
52	65.407	65.010	-0.103	0.0	1.1	0.3
54	65.407	65.009	-0.103	0.0	1.1	0.3
56	65.406	65.009	-0.104	0.0	1.0	0.2
58	65.406	65.008	-0.104	0.0	1.0	0.2
60	65.406	65.008	-0.104	0.0	0.9	0.2
62	65.403	65.004	-0.107	0.0	0.5	0.1
64	65.401	65.001	-0.109	0.0	0.2	0.1
66	65.400	65.000	-0.110	0.0	0.0	0.0
68	65.400	65.000	-0.110	0.0	0.0	0.0
70	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
74	65.400	65.000	-0.110	0.0	0.0	0.0
76	65.400	65.000	-0.110	0.0	0.0	0.0
78	65.400	65.000	-0.110	0.0	0.0	0.0
80	65.400	65.000	-0.110	0.0	0.0	0.0
82	65.400	65.000	-0.110	0.0	0.0	0.0
84	65.400	65.000	-0.110	0.0	0.0	0.0
86	65.400	65.000	-0.110	0.0	0.0	0.0
88	65.400	65.000	-0.110	0.0	0.0	0.0
90	65.400	65.000	-0.110	0.0	0.0	0.0
92	65.400	65.000	-0.110	0.0	0.0	0.0
94	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
98	65.400	65.000	-0.110	0.0	0.0	0.0
100	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.400	65.000	-0.110	0.0	0.0	0.0
104	65.400	65.000	-0.110	0.0	0.0	0.0
106	65.400	65.000	-0.110	0.0	0.0	0.0
108	65.400	65.000	-0.110	0.0	0.0	0.0
110	65.400	65.000	-0.110	0.0	0.0	0.0
112	65.400	65.000	-0.110	0.0	0.0	0.0
114	65.400	65.000	-0.110	0.0	0.0	0.0
116	65.400	65.000	-0.110	0.0	0.0	0.0
118	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.003	63.461	-0.107	0.0	0.8	0.2
4	65.007	63.468	-0.103	0.0	1.5	0.4
6	65.008	63.470	-0.102	0.0	1.5	0.4
8	65.008	63.471	-0.102	0.0	1.4	0.5
10	65.009	63.472	-0.101	0.0	1.4	0.5
12	65.010	63.473	-0.100	0.0	1.3	0.5
14	65.010	63.474	-0.100	0.0	1.3	0.6
16	65.011	63.476	-0.099	0.0	1.3	0.6
18	65.012	63.478	-0.098	0.0	1.4	0.7
20	65.012	63.480	-0.098	0.0	1.5	0.8
22	65.014	63.485	-0.096	0.0	1.6	1.1
24	65.016	63.493	-0.094	0.0	1.7	1.4
26	65.019	63.504	-0.091	0.0	1.9	1.9
28	65.023	63.519	-0.087	0.0	2.0	2.7
30	65.026	63.557	-0.084	0.0	2.2	3.7
32	65.028	63.575	-0.082	0.0	2.3	4.4
34	65.027	63.562	-0.083	0.0	2.2	4.1
36	65.024	63.524	-0.086	0.0	2.1	3.3
38	65.020	63.508	-0.090	0.0	1.9	2.4
40	65.016	63.498	-0.094	0.0	1.8	1.7
42	65.014	63.504	-0.096	0.0	1.7	1.2
44	65.013	63.509	-0.097	0.0	1.5	1.0
46	65.012	63.513	-0.098	0.0	1.4	0.8
48	65.011	63.517	-0.099	0.0	1.3	0.7
50	65.011	63.520	-0.099	0.0	1.3	0.6
52	65.010	63.523	-0.100	0.0	1.3	0.6
54	65.009	63.525	-0.101	0.0	1.4	0.5
56	65.009	63.528	-0.101	0.0	1.4	0.5
58	65.008	63.530	-0.102	0.0	1.4	0.5
60	65.008	63.532	-0.102	0.0	1.5	0.4
62	65.004	63.532	-0.106	0.0	1.0	0.3
64	65.001	63.530	-0.109	0.0	0.2	0.1
66	65.000	63.529	-0.110	0.0	0.0	0.0
68	65.000	63.528	-0.110	0.0	0.0	0.0
70	65.000	63.527	-0.110	0.0	0.0	0.0
72	65.000	63.526	-0.110	0.0	0.0	0.0
74	65.000	63.526	-0.110	0.0	0.0	0.0
76	65.000	63.525	-0.110	0.0	0.0	0.0
78	65.000	63.524	-0.110	0.0	0.0	0.0
80	65.000	63.523	-0.110	0.0	0.0	0.0
82	65.000	63.522	-0.110	0.0	0.0	0.0
84	65.000	63.521	-0.110	0.0	0.0	0.0
86	65.000	63.520	-0.110	0.0	0.0	0.0
88	65.000	63.519	-0.110	0.0	0.0	0.0
90	65.000	63.518	-0.110	0.0	0.0	0.0
92	65.000	63.517	-0.110	0.0	0.0	0.0
94	65.000	63.516	-0.110	0.0	0.0	0.0
96	65.000	63.516	-0.110	0.0	0.0	0.0
98	65.000	63.515	-0.110	0.0	0.0	0.0
100	65.000	63.514	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.000	63.514	-0.110	0.0	0.0	0.0
104	65.000	63.513	-0.110	0.0	0.0	0.0
106	65.000	63.512	-0.110	0.0	0.0	0.0
108	65.000	63.511	-0.110	0.0	0.0	0.0
110	65.000	63.511	-0.110	0.0	0.0	0.0
112	65.000	63.510	-0.110	0.0	0.0	0.0
114	65.000	63.509	-0.110	0.0	0.0	0.0
116	65.000	63.508	-0.110	0.0	0.0	0.0
118	65.000	63.508	-0.110	0.0	0.0	0.0
120	65.000	63.507	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.461	63.251	-0.094	0.0	0.3	0.2
4	63.468	63.253	-0.086	0.0	0.5	0.6
6	63.470	63.256	-0.084	0.0	0.5	0.9
8	63.471	63.259	-0.083	0.0	0.5	0.9
10	63.472	63.263	-0.083	0.0	0.5	1.0
12	63.473	63.267	-0.082	0.0	0.6	1.1
14	63.474	63.271	-0.080	0.0	0.6	1.1
16	63.476	63.276	-0.078	0.0	0.6	1.3
18	63.478	63.281	-0.076	0.0	0.6	1.4
20	63.480	63.286	-0.074	0.0	0.6	1.6
22	63.485	63.293	-0.069	0.0	0.7	2.0
24	63.493	63.303	-0.062	0.0	0.7	2.6
26	63.504	63.318	-0.050	0.0	0.8	3.7
28	63.519	63.337	-0.035	0.0	0.8	5.2
30	63.557	63.366	0.002	0.0	0.8	7.0
32	63.575	63.398	0.021	0.0	0.9	8.5
34	63.562	63.430	0.008	0.0	0.9	8.4
36	63.524	63.457	-0.030	0.0	0.8	7.0
38	63.508	63.475	-0.046	0.0	0.8	5.0
40	63.498	63.488	-0.056	0.0	0.7	3.6
42	63.504	63.497	-0.050	0.0	0.5	2.5
44	63.509	63.503	-0.045	0.0	0.3	1.9
46	63.513	63.508	-0.041	0.0	0.3	1.6
48	63.517	63.512	-0.037	0.0	0.2	1.4
50	63.520	63.516	-0.034	0.0	0.2	1.2
52	63.523	63.519	-0.031	0.0	0.2	1.1
54	63.525	63.522	-0.029	0.0	0.1	1.0
56	63.528	63.525	-0.026	0.0	0.1	1.0
58	63.530	63.527	-0.024	0.0	0.1	0.9
60	63.532	63.529	-0.022	0.0	0.1	0.9
62	63.532	63.530	-0.022	0.0	0.1	0.6
64	63.530	63.530	-0.024	0.0	0.0	0.2
66	63.529	63.529	-0.025	0.0	0.0	0.0
68	63.528	63.528	-0.026	0.0	0.0	0.0
70	63.527	63.527	-0.027	0.0	0.0	0.0
72	63.526	63.526	-0.028	0.0	0.0	0.0
74	63.526	63.526	-0.029	0.0	0.0	0.0
76	63.525	63.525	-0.030	0.0	0.0	0.0
78	63.524	63.524	-0.030	0.0	0.0	0.0
80	63.523	63.523	-0.031	0.0	0.0	0.0
82	63.522	63.522	-0.032	0.0	0.0	0.0
84	63.521	63.521	-0.033	0.0	0.0	0.0
86	63.520	63.520	-0.034	0.0	0.0	0.0
88	63.519	63.519	-0.035	0.0	0.0	0.0
90	63.518	63.518	-0.036	0.0	0.0	0.0
92	63.517	63.517	-0.037	0.0	0.0	0.0
94	63.516	63.516	-0.038	0.0	0.0	0.0
96	63.516	63.516	-0.039	0.0	0.0	0.0
98	63.515	63.515	-0.039	0.0	0.0	0.0
100	63.514	63.514	-0.040	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.514	63.513	-0.041	0.0	0.0	0.0
104	63.513	63.513	-0.042	0.0	0.0	0.0
106	63.512	63.512	-0.042	0.0	0.0	0.0
108	63.511	63.511	-0.043	0.0	0.0	0.0
110	63.511	63.511	-0.043	0.0	0.0	0.0
112	63.510	63.510	-0.044	0.0	0.0	0.0
114	63.509	63.509	-0.045	0.0	0.0	0.0
116	63.508	63.509	-0.046	0.0	0.0	0.0
118	63.508	63.508	-0.046	0.0	0.0	0.0
120	63.507	63.508	-0.047	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.251	63.100	-0.109	0.0	0.0	0.0
4	63.253	63.100	-0.107	0.0	0.0	0.0
6	63.256	63.100	-0.104	0.0	0.0	0.0
8	63.259	63.100	-0.101	0.0	0.0	0.0
10	63.263	63.101	-0.097	0.0	0.1	0.0
12	63.267	63.103	-0.093	0.0	0.2	0.0
14	63.271	63.104	-0.089	0.0	0.2	0.1
16	63.276	63.107	-0.084	0.0	0.2	0.1
18	63.281	63.109	-0.079	0.0	0.3	0.1
20	63.286	63.112	-0.074	0.0	0.3	0.1
22	63.293	63.115	-0.067	0.0	0.3	0.1
24	63.303	63.119	-0.057	0.0	0.3	0.1
26	63.318	63.123	-0.042	0.0	0.3	0.1
28	63.337	63.128	-0.023	0.0	0.3	0.2
30	63.366	63.133	0.006	0.0	0.3	0.2
32	63.398	63.139	0.038	0.0	0.4	0.2
34	63.430	63.145	0.070	0.0	0.4	0.2
36	63.457	63.152	0.097	0.0	0.4	0.3
38	63.475	63.160	0.115	0.0	0.4	0.3
40	63.488	63.168	0.128	0.0	0.4	0.3
42	63.497	63.176	0.137	0.0	0.4	0.3
44	63.503	63.184	0.143	0.0	0.4	0.3
46	63.508	63.193	0.148	0.0	0.4	0.3
48	63.512	63.201	0.152	0.0	0.4	0.3
50	63.516	63.210	0.156	0.0	0.4	0.3
52	63.519	63.218	0.159	0.0	0.4	0.3
54	63.522	63.227	0.162	0.0	0.4	0.3
56	63.525	63.236	0.165	0.0	0.4	0.3
58	63.527	63.244	0.167	0.0	0.4	0.3
60	63.529	63.253	0.169	0.0	0.4	0.3
62	63.530	63.259	0.170	0.0	0.4	0.3
64	63.530	63.266	0.170	0.0	0.4	0.3
66	63.529	63.272	0.169	0.0	0.4	0.3
68	63.528	63.279	0.168	0.0	0.4	0.3
70	63.527	63.285	0.167	0.0	0.4	0.3
72	63.526	63.292	0.166	0.0	0.4	0.3
74	63.526	63.298	0.166	0.0	0.4	0.3
76	63.525	63.305	0.165	0.0	0.4	0.3
78	63.524	63.311	0.164	0.0	0.4	0.3
80	63.523	63.317	0.163	0.0	0.4	0.3
82	63.522	63.324	0.162	0.0	0.4	0.2
84	63.521	63.330	0.161	0.0	0.4	0.2
86	63.520	63.336	0.160	0.0	0.4	0.2
88	63.519	63.342	0.159	0.0	0.4	0.2
90	63.518	63.347	0.158	0.0	0.4	0.2
92	63.517	63.353	0.157	0.0	0.4	0.2
94	63.516	63.358	0.156	0.0	0.4	0.2
96	63.516	63.363	0.156	0.0	0.4	0.2
98	63.515	63.368	0.155	0.0	0.3	0.2
100	63.514	63.372	0.154	0.0	0.3	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.513	63.376	0.153	0.0	0.3	0.2
104	63.513	63.380	0.153	0.0	0.3	0.2
106	63.512	63.384	0.152	0.0	0.3	0.2
108	63.511	63.388	0.151	0.0	0.3	0.2
110	63.511	63.391	0.151	0.0	0.3	0.2
112	63.510	63.395	0.150	0.0	0.3	0.2
114	63.509	63.398	0.149	0.0	0.3	0.2
116	63.509	63.401	0.149	0.0	0.3	0.2
118	63.508	63.404	0.148	0.0	0.3	0.2
120	63.508	63.406	0.148	0.0	0.2	0.2

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
10	63.101	63.096	-0.109	0.0	0.0	0.0
12	63.103	63.096	-0.107	0.0	0.0	0.0
14	63.104	63.096	-0.106	0.0	0.0	0.0
16	63.107	63.096	-0.103	0.0	0.0	0.0
18	63.109	63.096	-0.101	0.0	0.0	0.0
20	63.112	63.096	-0.098	0.0	0.0	0.0
22	63.115	63.096	-0.095	0.0	0.0	0.0
24	63.119	63.096	-0.091	0.0	0.0	0.0
26	63.123	63.096	-0.087	0.0	0.0	0.0
28	63.128	63.096	-0.082	0.0	0.0	0.0
30	63.133	63.096	-0.077	0.0	0.0	0.0
32	63.139	63.096	-0.071	0.0	0.0	0.0
34	63.145	63.096	-0.065	0.0	0.0	0.0
36	63.152	63.096	-0.058	0.0	0.0	0.0
38	63.160	63.096	-0.050	0.0	0.0	0.0
40	63.168	63.096	-0.042	0.0	0.0	0.0
42	63.176	63.096	-0.034	0.0	0.0	0.0
44	63.184	63.096	-0.026	0.0	0.0	0.0
46	63.193	63.096	-0.017	0.0	0.0	0.0
48	63.201	63.096	-0.009	0.0	0.0	0.0
50	63.210	63.096	0.000	0.0	0.0	0.0
52	63.218	63.096	0.008	0.0	0.0	0.0
54	63.227	63.096	0.017	0.0	0.0	0.0
56	63.236	63.096	0.026	0.0	0.0	0.0
58	63.244	63.096	0.034	0.0	0.0	0.0
60	63.253	63.096	0.043	0.0	0.0	0.0
62	63.259	63.096	0.049	0.0	0.0	0.0
64	63.266	63.096	0.056	0.0	0.0	0.0
66	63.272	63.096	0.062	0.0	0.0	0.0
68	63.279	63.096	0.069	0.0	0.0	0.0
70	63.285	63.096	0.075	0.0	0.0	0.0
72	63.292	63.096	0.082	0.0	0.0	0.0
74	63.298	63.096	0.088	0.0	0.0	0.0
76	63.305	63.096	0.095	0.0	0.0	0.0
78	63.311	63.096	0.101	0.0	0.0	0.0
80	63.317	63.096	0.107	0.0	0.0	0.0
82	63.324	63.096	0.114	0.0	0.0	0.0
84	63.330	63.096	0.120	0.0	0.1	0.0
86	63.336	63.096	0.126	0.0	0.1	0.0
88	63.342	63.096	0.132	0.0	0.1	0.0
90	63.347	63.096	0.137	0.0	0.1	0.0
92	63.353	63.096	0.143	0.0	0.1	0.0
94	63.358	63.096	0.148	0.0	0.1	0.0
96	63.363	63.096	0.153	0.0	0.1	0.0
98	63.368	63.096	0.158	0.0	0.1	0.0
100	63.372	63.096	0.162	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Summer
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.376	63.096	0.166	0.0	0.1	0.0
104	63.380	63.096	0.170	0.0	0.1	0.0
106	63.384	63.096	0.174	0.0	0.1	0.0
108	63.388	63.096	0.178	0.0	0.1	0.0
110	63.391	63.096	0.181	0.0	0.1	0.0
112	63.395	63.096	0.185	0.0	0.1	0.0
114	63.398	63.096	0.188	0.0	0.1	0.0
116	63.401	63.096	0.191	0.0	0.1	0.0
118	63.404	63.096	0.194	0.0	0.1	0.0
120	63.406	63.096	0.196	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	120
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	2

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	60
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 60 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.418	-0.092	0.000	0.06	0.0	1.6	OK
1.001	S1	63.548	-0.056	0.000	0.47	0.0	3.2	OK
2.000	RE2	65.420	-0.090	0.000	0.08	0.0	1.6	OK
2.001	S2	65.024	-0.086	0.000	0.11	0.0	3.2	OK
1.002	S3	63.532	-0.022	0.000	0.89	0.0	6.3	OK
1.003	S4	63.531	0.171	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.406	0.196	0.000	0.00	0.0	0.0	SURCHARGED

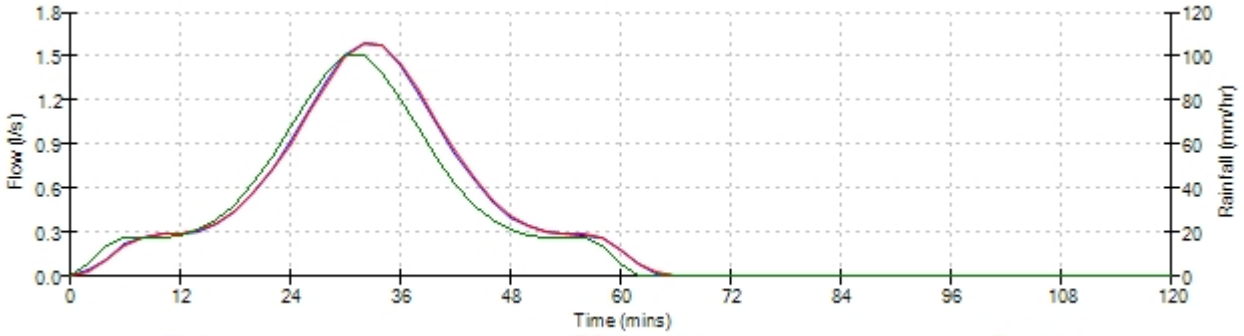
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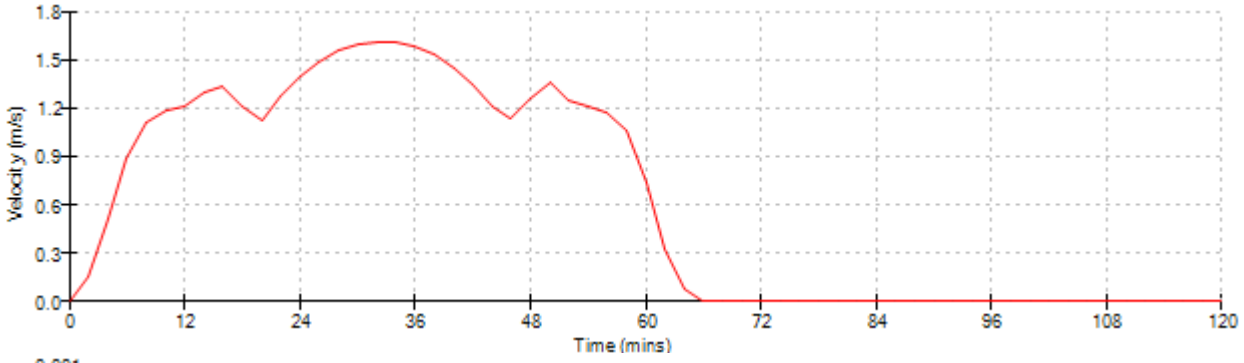
Rainfall Hyetograph for 60 minute 100 year Winter (Storm)

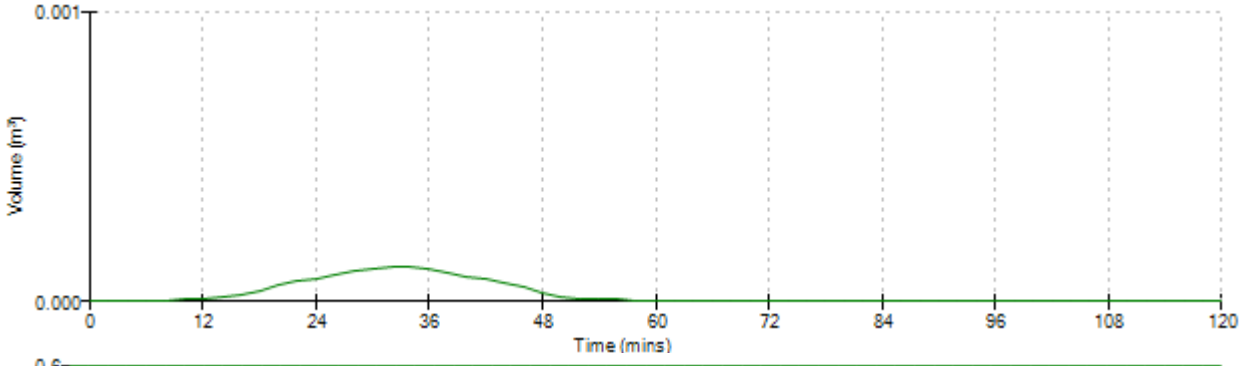
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
2	5.580	14	20.926	26	80.712	38	67.259	50	18.625
4	13.709	16	25.481	28	92.265	40	54.275	52	18.035
6	17.170	18	32.587	30	100.463	42	42.530	54	18.028
8	18.028	20	42.530	32	100.463	44	32.587	56	17.170
10	18.035	22	54.275	34	92.265	46	25.481	58	13.709
12	18.625	24	67.259	36	80.712	48	20.926	60	5.580

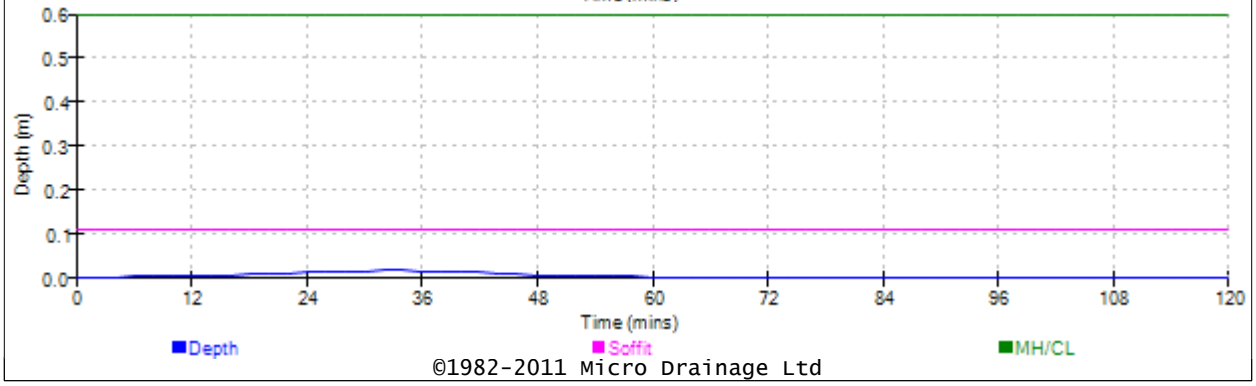
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Winter
Status: OK



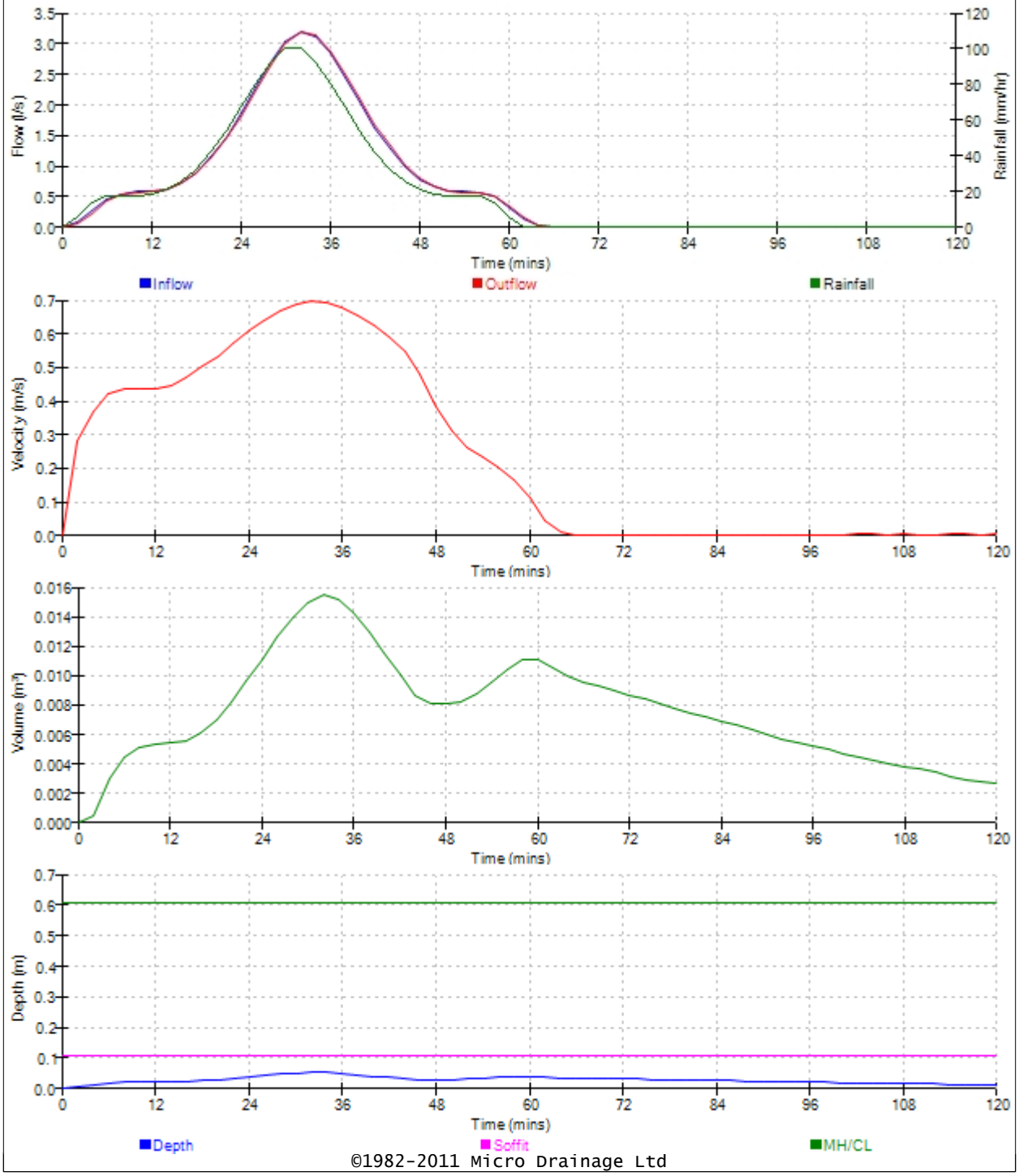






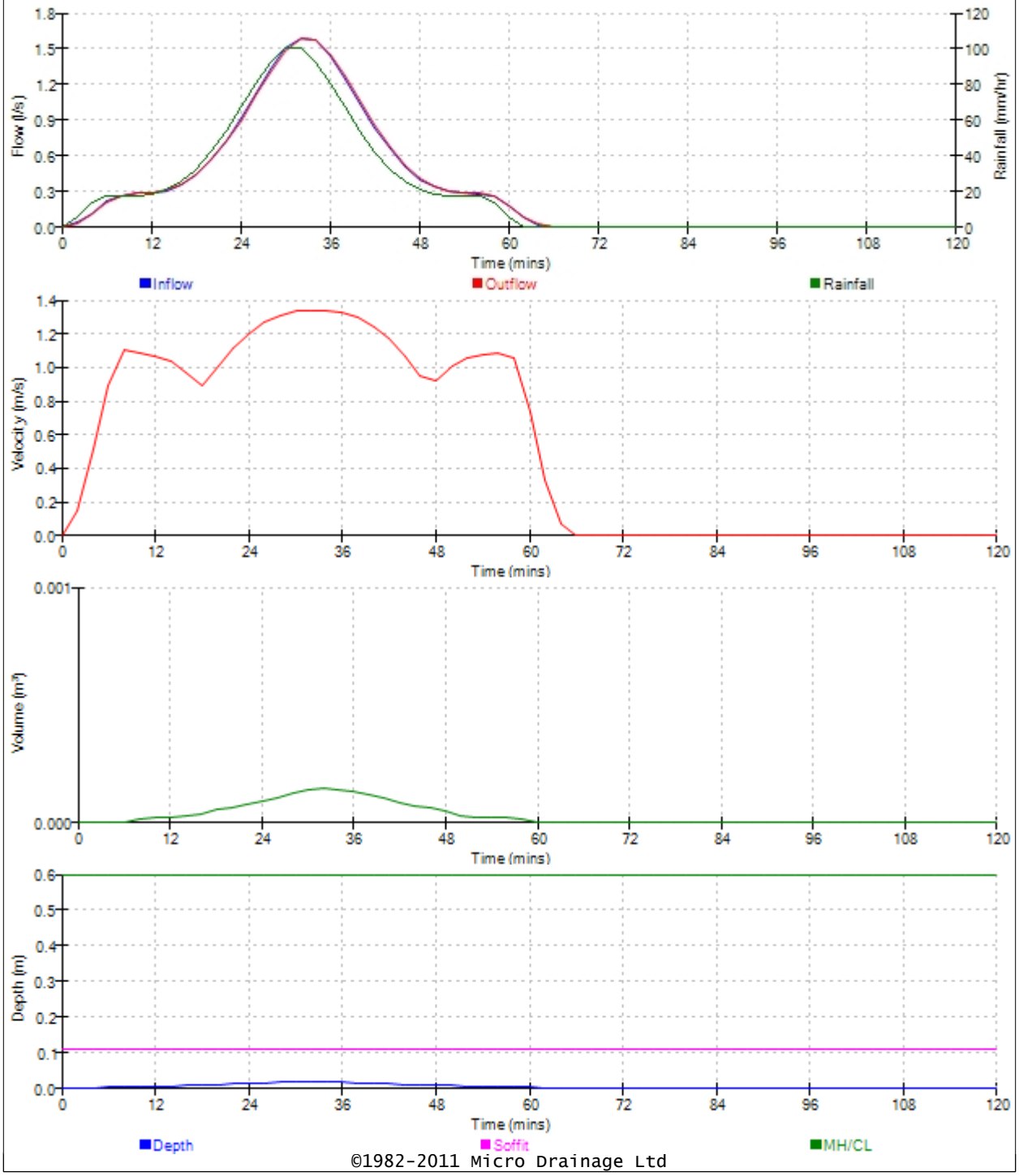
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Graphs for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Winter
Status: OK



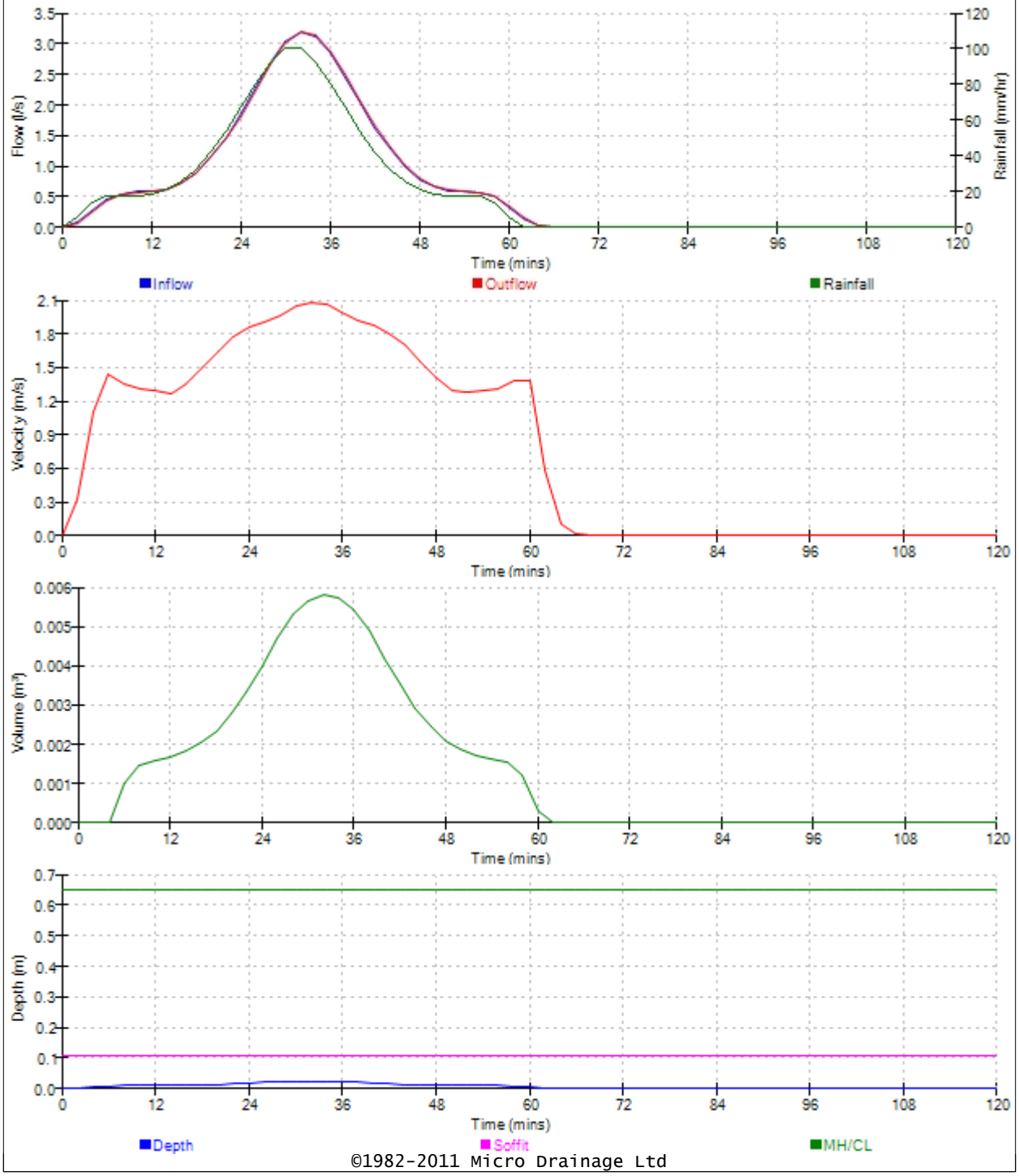
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Winter
Status: OK



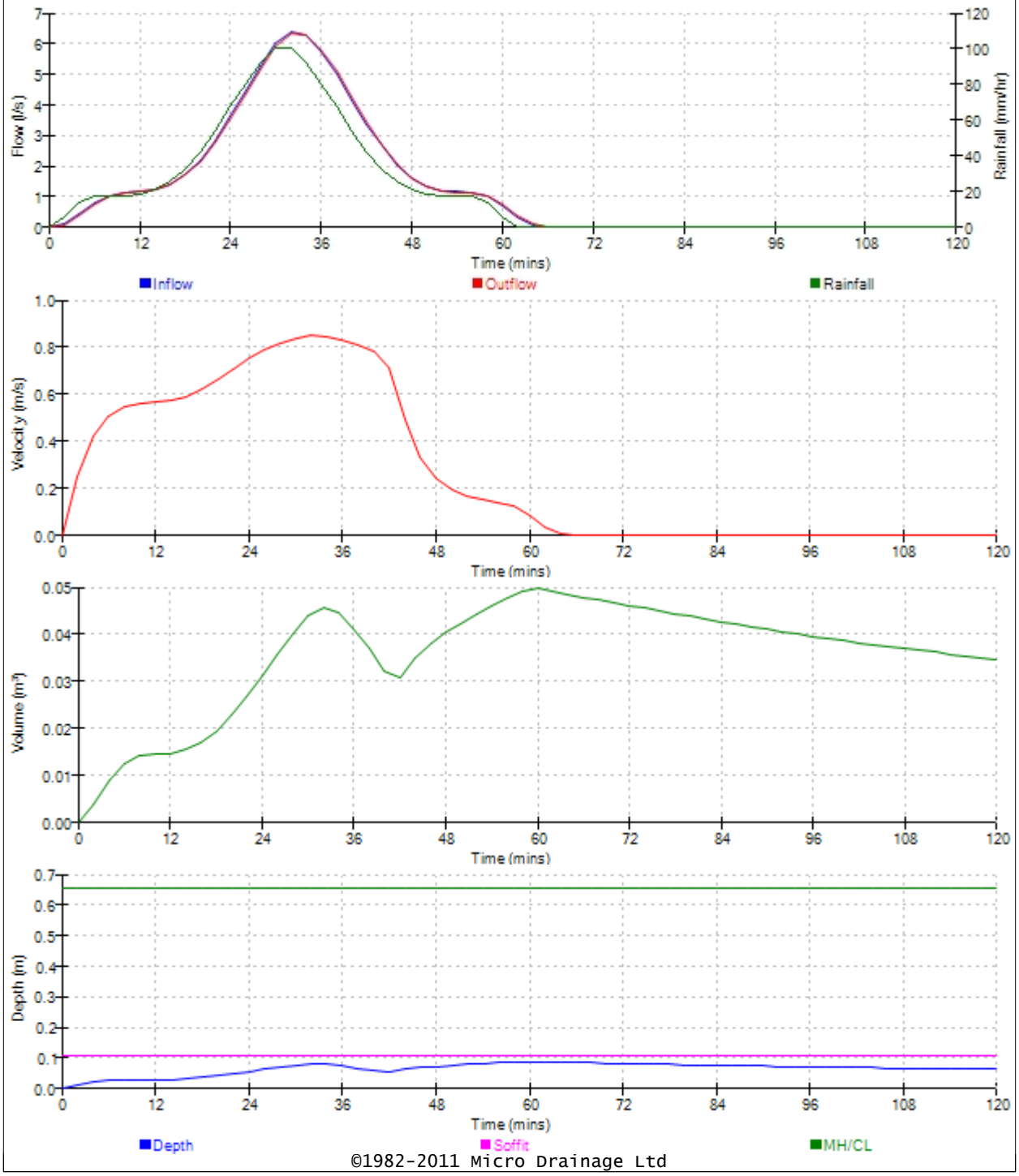
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Graphs for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Winter
Status: OK



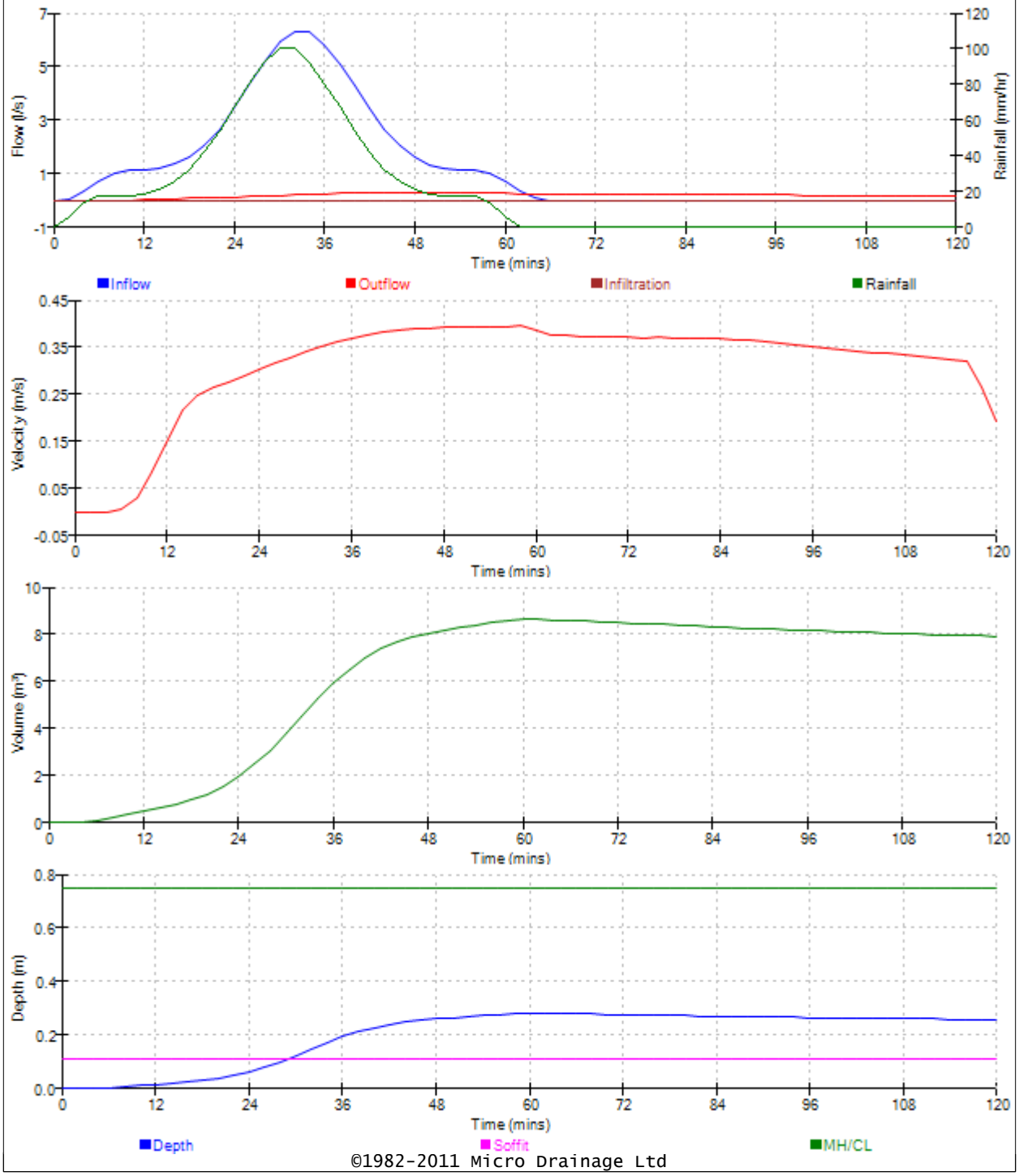
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Graphs for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Winter
Status: OK



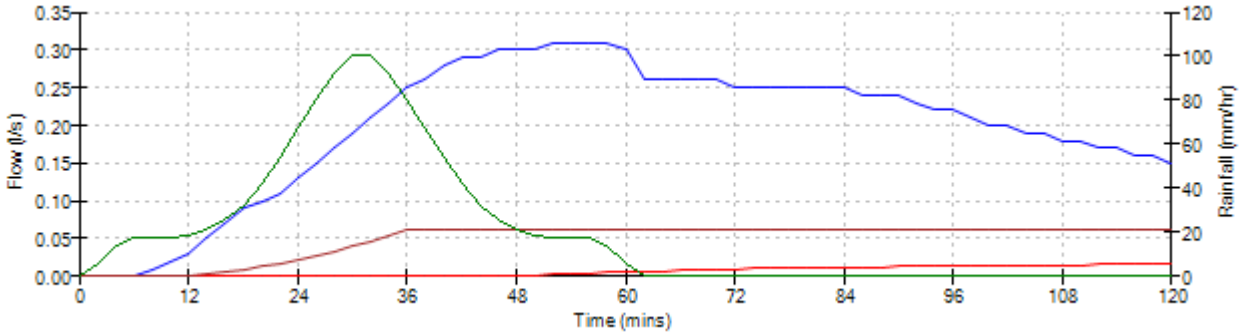
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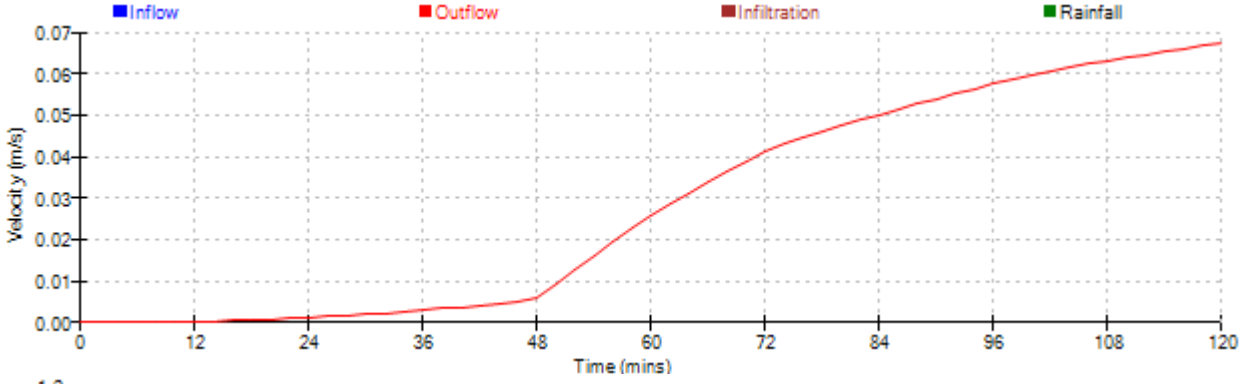
Graphs for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Winter
Status: SURCHARGED

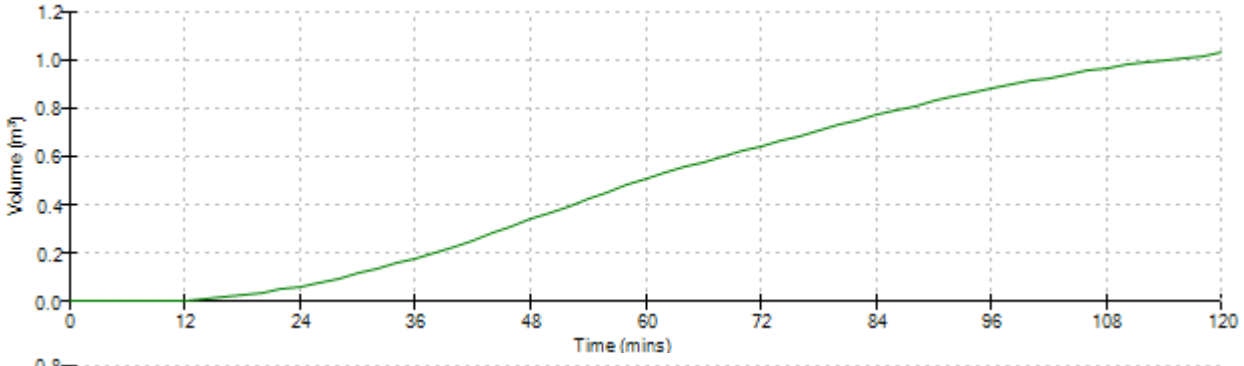


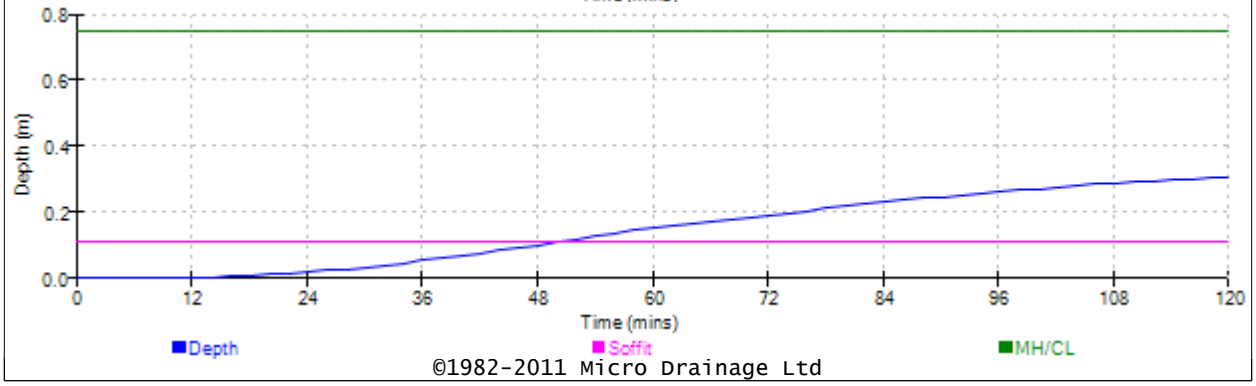
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.401	63.500	-0.109	0.0	0.2	0.0
4	65.403	63.508	-0.107	0.0	0.5	0.1
6	65.404	63.513	-0.106	0.0	0.9	0.2
8	65.406	63.515	-0.104	0.0	1.1	0.3
10	65.406	63.516	-0.104	0.0	1.2	0.3
12	65.406	63.516	-0.104	0.0	1.2	0.3
14	65.406	63.517	-0.104	0.0	1.3	0.3
16	65.407	63.518	-0.103	0.0	1.3	0.4
18	65.409	63.521	-0.101	0.0	1.2	0.4
20	65.411	63.525	-0.099	0.0	1.1	0.6
22	65.412	63.529	-0.098	0.0	1.3	0.7
24	65.413	63.534	-0.097	0.0	1.4	0.9
26	65.415	63.539	-0.095	0.0	1.5	1.1
28	65.416	63.543	-0.094	0.0	1.6	1.3
30	65.417	63.546	-0.093	0.0	1.6	1.5
32	65.418	63.548	-0.092	0.0	1.6	1.6
34	65.418	63.547	-0.092	0.0	1.6	1.6
36	65.417	63.544	-0.093	0.0	1.6	1.5
38	65.416	63.540	-0.094	0.0	1.5	1.3
40	65.414	63.535	-0.096	0.0	1.4	1.1
42	65.413	63.531	-0.097	0.0	1.3	0.9
44	65.412	63.526	-0.098	0.0	1.2	0.7
46	65.410	63.525	-0.100	0.0	1.1	0.5
48	65.408	63.524	-0.102	0.0	1.3	0.4
50	65.407	63.525	-0.103	0.0	1.4	0.3
52	65.406	63.527	-0.104	0.0	1.3	0.3
54	65.406	63.529	-0.104	0.0	1.2	0.3
56	65.406	63.532	-0.104	0.0	1.2	0.3
58	65.405	63.534	-0.105	0.0	1.1	0.3
60	65.404	63.534	-0.106	0.0	0.7	0.2
62	65.402	63.532	-0.108	0.0	0.3	0.1
64	65.400	63.530	-0.110	0.0	0.1	0.0
66	65.400	63.529	-0.110	0.0	0.0	0.0
68	65.400	63.528	-0.110	0.0	0.0	0.0
70	65.400	63.527	-0.110	0.0	0.0	0.0
72	65.400	63.526	-0.110	0.0	0.0	0.0
74	65.400	63.525	-0.110	0.0	0.0	0.0
76	65.400	63.524	-0.110	0.0	0.0	0.0
78	65.400	63.523	-0.110	0.0	0.0	0.0
80	65.400	63.522	-0.110	0.0	0.0	0.0
82	65.400	63.522	-0.110	0.0	0.0	0.0
84	65.400	63.521	-0.110	0.0	0.0	0.0
86	65.400	63.520	-0.110	0.0	0.0	0.0
88	65.400	63.519	-0.110	0.0	0.0	0.0
90	65.400	63.518	-0.110	0.0	0.0	0.0
92	65.400	63.517	-0.110	0.0	0.0	0.0
94	65.400	63.516	-0.110	0.0	0.0	0.0
96	65.400	63.515	-0.110	0.0	0.0	0.0
98	65.400	63.515	-0.110	0.0	0.0	0.0
100	65.400	63.514	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.400	63.513	-0.110	0.0	0.0	0.0
104	65.400	63.512	-0.110	0.0	0.0	0.0
106	65.400	63.512	-0.110	0.0	0.0	0.0
108	65.400	63.511	-0.110	0.0	0.0	0.0
110	65.400	63.510	-0.110	0.0	0.0	0.0
112	65.400	63.510	-0.110	0.0	0.0	0.0
114	65.400	63.509	-0.110	0.0	0.0	0.0
116	65.400	63.508	-0.110	0.0	0.0	0.0
118	65.400	63.508	-0.110	0.0	0.0	0.0
120	65.400	63.507	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.500	63.455	-0.104	0.0	0.3	0.1
4	63.508	63.464	-0.096	0.0	0.4	0.2
6	63.513	63.470	-0.091	0.0	0.4	0.4
8	63.515	63.473	-0.089	0.0	0.4	0.5
10	63.516	63.474	-0.088	0.0	0.4	0.6
12	63.516	63.474	-0.088	0.0	0.4	0.6
14	63.517	63.475	-0.087	0.0	0.4	0.6
16	63.518	63.478	-0.086	0.0	0.5	0.7
18	63.521	63.482	-0.083	0.0	0.5	0.9
20	63.525	63.487	-0.079	0.0	0.5	1.1
22	63.529	63.494	-0.075	0.0	0.6	1.5
24	63.534	63.501	-0.070	0.0	0.6	1.8
26	63.539	63.509	-0.065	0.0	0.6	2.2
28	63.543	63.516	-0.061	0.0	0.7	2.6
30	63.546	63.523	-0.058	0.0	0.7	3.0
32	63.548	63.525	-0.056	0.0	0.7	3.2
34	63.547	63.524	-0.057	0.0	0.7	3.1
36	63.544	63.518	-0.060	0.0	0.7	2.9
38	63.540	63.511	-0.064	0.0	0.7	2.5
40	63.535	63.503	-0.069	0.0	0.6	2.1
42	63.531	63.501	-0.074	0.0	0.6	1.7
44	63.526	63.508	-0.078	0.0	0.5	1.3
46	63.525	63.513	-0.080	0.0	0.5	1.0
48	63.524	63.517	-0.080	0.0	0.4	0.8
50	63.525	63.520	-0.079	0.0	0.3	0.7
52	63.527	63.523	-0.077	0.0	0.3	0.6
54	63.529	63.526	-0.075	0.0	0.2	0.6
56	63.532	63.529	-0.072	0.0	0.2	0.6
58	63.534	63.532	-0.070	0.0	0.2	0.5
60	63.534	63.532	-0.070	0.0	0.1	0.4
62	63.532	63.532	-0.072	0.0	0.0	0.2
64	63.530	63.530	-0.074	0.0	0.0	0.0
66	63.529	63.529	-0.075	0.0	0.0	0.0
68	63.528	63.528	-0.076	0.0	0.0	0.0
70	63.527	63.527	-0.077	0.0	0.0	0.0
72	63.526	63.526	-0.078	0.0	0.0	0.0
74	63.525	63.525	-0.079	0.0	0.0	0.0
76	63.524	63.524	-0.080	0.0	0.0	0.0
78	63.523	63.524	-0.081	0.0	0.0	0.0
80	63.522	63.523	-0.082	0.0	0.0	0.0
82	63.522	63.522	-0.083	0.0	0.0	0.0
84	63.521	63.521	-0.084	0.0	0.0	0.0
86	63.520	63.520	-0.084	0.0	0.0	0.0
88	63.519	63.519	-0.085	0.0	0.0	0.0
90	63.518	63.518	-0.086	0.0	0.0	0.0
92	63.517	63.517	-0.087	0.0	0.0	0.0
94	63.516	63.516	-0.088	0.0	0.0	0.0
96	63.515	63.515	-0.089	0.0	0.0	0.0
98	63.515	63.515	-0.089	0.0	0.0	0.0
100	63.514	63.514	-0.090	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.513	63.513	-0.091	0.0	0.0	0.0
104	63.512	63.512	-0.092	0.0	0.0	0.0
106	63.512	63.512	-0.092	0.0	0.0	0.0
108	63.511	63.511	-0.093	0.0	0.0	0.0
110	63.510	63.510	-0.094	0.0	0.0	0.0
112	63.510	63.510	-0.094	0.0	0.0	0.0
114	63.509	63.509	-0.095	0.0	0.0	0.0
116	63.508	63.508	-0.096	0.0	0.0	0.0
118	63.508	63.508	-0.096	0.0	0.0	0.0
120	63.507	63.507	-0.097	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.401	65.001	-0.109	0.0	0.2	0.0
4	65.403	65.005	-0.107	0.0	0.5	0.1
6	65.405	65.008	-0.105	0.0	0.9	0.2
8	65.407	65.010	-0.103	0.0	1.1	0.3
10	65.407	65.010	-0.103	0.0	1.1	0.3
12	65.407	65.010	-0.103	0.0	1.1	0.3
14	65.408	65.011	-0.102	0.0	1.0	0.3
16	65.409	65.012	-0.101	0.0	1.0	0.4
18	65.411	65.013	-0.099	0.0	0.9	0.4
20	65.412	65.014	-0.098	0.0	1.0	0.6
22	65.413	65.016	-0.097	0.0	1.1	0.7
24	65.415	65.018	-0.095	0.0	1.2	0.9
26	65.416	65.020	-0.094	0.0	1.3	1.1
28	65.418	65.022	-0.092	0.0	1.3	1.3
30	65.419	65.024	-0.091	0.0	1.3	1.5
32	65.420	65.024	-0.090	0.0	1.3	1.6
34	65.420	65.024	-0.090	0.0	1.3	1.6
36	65.419	65.023	-0.091	0.0	1.3	1.5
38	65.417	65.021	-0.093	0.0	1.3	1.3
40	65.416	65.019	-0.094	0.0	1.2	1.1
42	65.414	65.017	-0.096	0.0	1.2	0.9
44	65.413	65.015	-0.097	0.0	1.1	0.7
46	65.412	65.013	-0.098	0.0	1.0	0.5
48	65.410	65.012	-0.100	0.0	0.9	0.4
50	65.408	65.011	-0.102	0.0	1.0	0.3
52	65.408	65.011	-0.102	0.0	1.1	0.3
54	65.407	65.010	-0.103	0.0	1.1	0.3
56	65.407	65.010	-0.103	0.0	1.1	0.3
58	65.406	65.009	-0.104	0.0	1.1	0.3
60	65.405	65.006	-0.105	0.0	0.7	0.2
62	65.402	65.002	-0.108	0.0	0.3	0.1
64	65.400	65.000	-0.110	0.0	0.1	0.0
66	65.400	65.000	-0.110	0.0	0.0	0.0
68	65.400	65.000	-0.110	0.0	0.0	0.0
70	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
74	65.400	65.000	-0.110	0.0	0.0	0.0
76	65.400	65.000	-0.110	0.0	0.0	0.0
78	65.400	65.000	-0.110	0.0	0.0	0.0
80	65.400	65.000	-0.110	0.0	0.0	0.0
82	65.400	65.000	-0.110	0.0	0.0	0.0
84	65.400	65.000	-0.110	0.0	0.0	0.0
86	65.400	65.000	-0.110	0.0	0.0	0.0
88	65.400	65.000	-0.110	0.0	0.0	0.0
90	65.400	65.000	-0.110	0.0	0.0	0.0
92	65.400	65.000	-0.110	0.0	0.0	0.0
94	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
98	65.400	65.000	-0.110	0.0	0.0	0.0
100	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.400	65.000	-0.110	0.0	0.0	0.0
104	65.400	65.000	-0.110	0.0	0.0	0.0
106	65.400	65.000	-0.110	0.0	0.0	0.0
108	65.400	65.000	-0.110	0.0	0.0	0.0
110	65.400	65.000	-0.110	0.0	0.0	0.0
112	65.400	65.000	-0.110	0.0	0.0	0.0
114	65.400	65.000	-0.110	0.0	0.0	0.0
116	65.400	65.000	-0.110	0.0	0.0	0.0
118	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	65.001	63.455	-0.109	0.0	0.3	0.1
4	65.005	63.464	-0.105	0.0	1.1	0.2
6	65.008	63.470	-0.102	0.0	1.4	0.4
8	65.010	63.473	-0.100	0.0	1.3	0.5
10	65.010	63.474	-0.100	0.0	1.3	0.6
12	65.010	63.474	-0.100	0.0	1.3	0.6
14	65.011	63.475	-0.099	0.0	1.3	0.6
16	65.012	63.478	-0.098	0.0	1.4	0.7
18	65.013	63.482	-0.097	0.0	1.5	0.9
20	65.014	63.487	-0.096	0.0	1.6	1.1
22	65.016	63.494	-0.094	0.0	1.8	1.5
24	65.018	63.501	-0.092	0.0	1.9	1.8
26	65.020	63.509	-0.090	0.0	1.9	2.2
28	65.022	63.516	-0.088	0.0	2.0	2.7
30	65.024	63.523	-0.086	0.0	2.0	3.0
32	65.024	63.525	-0.086	0.0	2.1	3.2
34	65.024	63.524	-0.086	0.0	2.1	3.1
36	65.023	63.518	-0.087	0.0	2.0	2.9
38	65.021	63.511	-0.089	0.0	1.9	2.5
40	65.019	63.503	-0.091	0.0	1.9	2.1
42	65.017	63.501	-0.093	0.0	1.8	1.7
44	65.015	63.508	-0.095	0.0	1.7	1.3
46	65.013	63.513	-0.097	0.0	1.6	1.0
48	65.012	63.517	-0.098	0.0	1.4	0.8
50	65.011	63.520	-0.099	0.0	1.3	0.7
52	65.011	63.523	-0.099	0.0	1.3	0.6
54	65.010	63.526	-0.100	0.0	1.3	0.6
56	65.010	63.529	-0.100	0.0	1.3	0.6
58	65.009	63.532	-0.101	0.0	1.4	0.5
60	65.006	63.532	-0.104	0.0	1.4	0.4
62	65.002	63.532	-0.108	0.0	0.6	0.2
64	65.000	63.530	-0.110	0.0	0.1	0.0
66	65.000	63.529	-0.110	0.0	0.0	0.0
68	65.000	63.528	-0.110	0.0	0.0	0.0
70	65.000	63.527	-0.110	0.0	0.0	0.0
72	65.000	63.526	-0.110	0.0	0.0	0.0
74	65.000	63.525	-0.110	0.0	0.0	0.0
76	65.000	63.524	-0.110	0.0	0.0	0.0
78	65.000	63.524	-0.110	0.0	0.0	0.0
80	65.000	63.523	-0.110	0.0	0.0	0.0
82	65.000	63.522	-0.110	0.0	0.0	0.0
84	65.000	63.521	-0.110	0.0	0.0	0.0
86	65.000	63.520	-0.110	0.0	0.0	0.0
88	65.000	63.519	-0.110	0.0	0.0	0.0
90	65.000	63.518	-0.110	0.0	0.0	0.0
92	65.000	63.517	-0.110	0.0	0.0	0.0
94	65.000	63.516	-0.110	0.0	0.0	0.0
96	65.000	63.515	-0.110	0.0	0.0	0.0
98	65.000	63.515	-0.110	0.0	0.0	0.0
100	65.000	63.514	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	65.000	63.513	-0.110	0.0	0.0	0.0
104	65.000	63.512	-0.110	0.0	0.0	0.0
106	65.000	63.512	-0.110	0.0	0.0	0.0
108	65.000	63.511	-0.110	0.0	0.0	0.0
110	65.000	63.510	-0.110	0.0	0.0	0.0
112	65.000	63.510	-0.110	0.0	0.0	0.0
114	65.000	63.509	-0.110	0.0	0.0	0.0
116	65.000	63.508	-0.110	0.0	0.0	0.0
118	65.000	63.508	-0.110	0.0	0.0	0.0
120	65.000	63.507	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.455	63.250	-0.099	0.0	0.2	0.1
4	63.464	63.252	-0.090	0.0	0.4	0.4
6	63.470	63.254	-0.084	0.0	0.5	0.8
8	63.473	63.258	-0.081	0.0	0.6	1.0
10	63.474	63.262	-0.081	0.0	0.6	1.1
12	63.474	63.267	-0.080	0.0	0.6	1.2
14	63.475	63.271	-0.079	0.0	0.6	1.2
16	63.478	63.276	-0.076	0.0	0.6	1.4
18	63.482	63.282	-0.073	0.0	0.6	1.7
20	63.487	63.290	-0.067	0.0	0.7	2.2
22	63.494	63.299	-0.060	0.0	0.7	2.8
24	63.501	63.314	-0.053	0.0	0.8	3.5
26	63.509	63.331	-0.045	0.0	0.8	4.4
28	63.516	63.350	-0.038	0.0	0.8	5.2
30	63.523	63.374	-0.032	0.0	0.8	5.9
32	63.525	63.398	-0.029	0.0	0.9	6.3
34	63.524	63.422	-0.030	0.0	0.8	6.3
36	63.518	63.443	-0.036	0.0	0.8	5.8
38	63.511	63.462	-0.043	0.0	0.8	5.1
40	63.503	63.478	-0.051	0.0	0.8	4.3
42	63.501	63.490	-0.053	0.0	0.7	3.5
44	63.508	63.500	-0.046	0.0	0.5	2.7
46	63.513	63.507	-0.041	0.0	0.3	2.1
48	63.517	63.512	-0.037	0.0	0.2	1.6
50	63.520	63.516	-0.034	0.0	0.2	1.3
52	63.523	63.519	-0.031	0.0	0.2	1.2
54	63.526	63.523	-0.028	0.0	0.2	1.1
56	63.529	63.526	-0.025	0.0	0.1	1.1
58	63.532	63.529	-0.022	0.0	0.1	1.0
60	63.532	63.530	-0.022	0.0	0.1	0.7
62	63.532	63.531	-0.023	0.0	0.0	0.4
64	63.530	63.530	-0.024	0.0	0.0	0.1
66	63.529	63.529	-0.025	0.0	0.0	0.0
68	63.528	63.528	-0.026	0.0	0.0	0.0
70	63.527	63.527	-0.027	0.0	0.0	0.0
72	63.526	63.526	-0.028	0.0	0.0	0.0
74	63.525	63.525	-0.029	0.0	0.0	0.0
76	63.524	63.524	-0.030	0.0	0.0	0.0
78	63.524	63.524	-0.031	0.0	0.0	0.0
80	63.523	63.523	-0.032	0.0	0.0	0.0
82	63.522	63.522	-0.032	0.0	0.0	0.0
84	63.521	63.521	-0.033	0.0	0.0	0.0
86	63.520	63.520	-0.034	0.0	0.0	0.0
88	63.519	63.519	-0.035	0.0	0.0	0.0
90	63.518	63.518	-0.036	0.0	0.0	0.0
92	63.517	63.517	-0.037	0.0	0.0	0.0
94	63.516	63.516	-0.038	0.0	0.0	0.0
96	63.515	63.516	-0.039	0.0	0.0	0.0
98	63.515	63.515	-0.039	0.0	0.0	0.0
100	63.514	63.514	-0.040	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.513	63.513	-0.041	0.0	0.0	0.0
104	63.512	63.513	-0.042	0.0	0.0	0.0
106	63.512	63.512	-0.042	0.0	0.0	0.0
108	63.511	63.511	-0.043	0.0	0.0	0.0
110	63.510	63.511	-0.044	0.0	0.0	0.0
112	63.510	63.510	-0.044	0.0	0.0	0.0
114	63.509	63.509	-0.045	0.0	0.0	0.0
116	63.508	63.509	-0.046	0.0	0.0	0.0
118	63.508	63.508	-0.046	0.0	0.0	0.0
120	63.507	63.508	-0.047	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.250	63.100	-0.110	0.0	0.0	0.0
4	63.252	63.100	-0.108	0.0	0.0	0.0
6	63.254	63.100	-0.106	0.0	0.0	0.0
8	63.258	63.100	-0.102	0.0	0.0	0.0
10	63.262	63.101	-0.098	0.0	0.1	0.0
12	63.267	63.102	-0.093	0.0	0.1	0.0
14	63.271	63.104	-0.089	0.0	0.2	0.1
16	63.276	63.106	-0.084	0.0	0.2	0.1
18	63.282	63.109	-0.078	0.0	0.3	0.1
20	63.290	63.112	-0.070	0.0	0.3	0.1
22	63.299	63.115	-0.061	0.0	0.3	0.1
24	63.314	63.120	-0.046	0.0	0.3	0.1
26	63.331	63.124	-0.029	0.0	0.3	0.2
28	63.350	63.129	-0.010	0.0	0.3	0.2
30	63.374	63.135	0.014	0.0	0.3	0.2
32	63.398	63.141	0.038	0.0	0.4	0.2
34	63.422	63.147	0.062	0.0	0.4	0.2
36	63.443	63.154	0.083	0.0	0.4	0.3
38	63.462	63.161	0.102	0.0	0.4	0.3
40	63.478	63.169	0.118	0.0	0.4	0.3
42	63.490	63.177	0.130	0.0	0.4	0.3
44	63.500	63.185	0.140	0.0	0.4	0.3
46	63.507	63.193	0.147	0.0	0.4	0.3
48	63.512	63.202	0.152	0.0	0.4	0.3
50	63.516	63.210	0.156	0.0	0.4	0.3
52	63.519	63.219	0.159	0.0	0.4	0.3
54	63.523	63.227	0.163	0.0	0.4	0.3
56	63.526	63.236	0.166	0.0	0.4	0.3
58	63.529	63.245	0.169	0.0	0.4	0.3
60	63.530	63.253	0.170	0.0	0.4	0.3
62	63.531	63.259	0.171	0.0	0.4	0.3
64	63.530	63.266	0.170	0.0	0.4	0.3
66	63.529	63.273	0.169	0.0	0.4	0.3
68	63.528	63.279	0.168	0.0	0.4	0.3
70	63.527	63.286	0.167	0.0	0.4	0.3
72	63.526	63.292	0.166	0.0	0.4	0.3
74	63.525	63.299	0.165	0.0	0.4	0.3
76	63.524	63.305	0.164	0.0	0.4	0.3
78	63.524	63.312	0.164	0.0	0.4	0.3
80	63.523	63.318	0.163	0.0	0.4	0.3
82	63.522	63.324	0.162	0.0	0.4	0.2
84	63.521	63.330	0.161	0.0	0.4	0.2
86	63.520	63.336	0.160	0.0	0.4	0.2
88	63.519	63.342	0.159	0.0	0.4	0.2
90	63.518	63.348	0.158	0.0	0.4	0.2
92	63.517	63.353	0.157	0.0	0.4	0.2
94	63.516	63.358	0.156	0.0	0.4	0.2
96	63.516	63.363	0.156	0.0	0.4	0.2
98	63.515	63.368	0.155	0.0	0.3	0.2
100	63.514	63.372	0.154	0.0	0.3	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.513	63.376	0.153	0.0	0.3	0.2
104	63.513	63.380	0.153	0.0	0.3	0.2
106	63.512	63.384	0.152	0.0	0.3	0.2
108	63.511	63.388	0.151	0.0	0.3	0.2
110	63.511	63.391	0.151	0.0	0.3	0.2
112	63.510	63.395	0.150	0.0	0.3	0.2
114	63.509	63.398	0.149	0.0	0.3	0.2
116	63.509	63.401	0.149	0.0	0.3	0.2
118	63.508	63.404	0.148	0.0	0.3	0.2
120	63.508	63.406	0.148	0.0	0.2	0.2

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
10	63.101	63.096	-0.109	0.0	0.0	0.0
12	63.102	63.096	-0.108	0.0	0.0	0.0
14	63.104	63.096	-0.106	0.0	0.0	0.0
16	63.106	63.096	-0.104	0.0	0.0	0.0
18	63.109	63.096	-0.101	0.0	0.0	0.0
20	63.112	63.096	-0.098	0.0	0.0	0.0
22	63.115	63.096	-0.095	0.0	0.0	0.0
24	63.120	63.096	-0.090	0.0	0.0	0.0
26	63.124	63.096	-0.086	0.0	0.0	0.0
28	63.129	63.096	-0.081	0.0	0.0	0.0
30	63.135	63.096	-0.075	0.0	0.0	0.0
32	63.141	63.096	-0.069	0.0	0.0	0.0
34	63.147	63.096	-0.063	0.0	0.0	0.0
36	63.154	63.096	-0.056	0.0	0.0	0.0
38	63.161	63.096	-0.049	0.0	0.0	0.0
40	63.169	63.096	-0.041	0.0	0.0	0.0
42	63.177	63.096	-0.033	0.0	0.0	0.0
44	63.185	63.096	-0.025	0.0	0.0	0.0
46	63.193	63.096	-0.017	0.0	0.0	0.0
48	63.202	63.096	-0.008	0.0	0.0	0.0
50	63.210	63.096	0.000	0.0	0.0	0.0
52	63.219	63.096	0.009	0.0	0.0	0.0
54	63.227	63.096	0.017	0.0	0.0	0.0
56	63.236	63.096	0.026	0.0	0.0	0.0
58	63.245	63.096	0.035	0.0	0.0	0.0
60	63.253	63.096	0.043	0.0	0.0	0.0
62	63.259	63.096	0.049	0.0	0.0	0.0
64	63.266	63.096	0.056	0.0	0.0	0.0
66	63.273	63.096	0.063	0.0	0.0	0.0
68	63.279	63.096	0.069	0.0	0.0	0.0
70	63.286	63.096	0.076	0.0	0.0	0.0
72	63.292	63.096	0.082	0.0	0.0	0.0
74	63.299	63.096	0.089	0.0	0.0	0.0
76	63.305	63.096	0.095	0.0	0.0	0.0
78	63.312	63.096	0.102	0.0	0.0	0.0
80	63.318	63.096	0.108	0.0	0.0	0.0
82	63.324	63.096	0.114	0.0	0.0	0.0
84	63.330	63.096	0.120	0.0	0.1	0.0
86	63.336	63.096	0.126	0.0	0.1	0.0
88	63.342	63.096	0.132	0.0	0.1	0.0
90	63.348	63.096	0.138	0.0	0.1	0.0
92	63.353	63.096	0.143	0.0	0.1	0.0
94	63.358	63.096	0.148	0.0	0.1	0.0
96	63.363	63.096	0.153	0.0	0.1	0.0
98	63.368	63.096	0.158	0.0	0.1	0.0
100	63.372	63.096	0.162	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
60 minute 100 year Winter
Average Rainfall Intensity 40.510 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
102	63.376	63.096	0.166	0.0	0.1	0.0
104	63.380	63.096	0.170	0.0	0.1	0.0
106	63.384	63.096	0.174	0.0	0.1	0.0
108	63.388	63.096	0.178	0.0	0.1	0.0
110	63.391	63.096	0.181	0.0	0.1	0.0
112	63.395	63.096	0.185	0.0	0.1	0.0
114	63.398	63.096	0.188	0.0	0.1	0.0
116	63.401	63.096	0.191	0.0	0.1	0.0
118	63.404	63.096	0.194	0.0	0.1	0.0
120	63.406	63.096	0.196	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	240
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	4

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	120
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 120 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.417	-0.093	0.000	0.06	0.0	1.4	OK
1.001	S1	63.582	-0.022	0.000	0.43	0.0	2.9	OK
2.000	RE2	65.419	-0.091	0.000	0.07	0.0	1.4	OK
2.001	S2	65.023	-0.087	0.000	0.10	0.0	2.9	OK
1.002	S3	63.581	0.027	0.000	0.80	0.0	5.7	SURCHARGED
1.003	S4	63.579	0.219	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.497	0.287	0.000	0.00	0.0	0.0	SURCHARGED

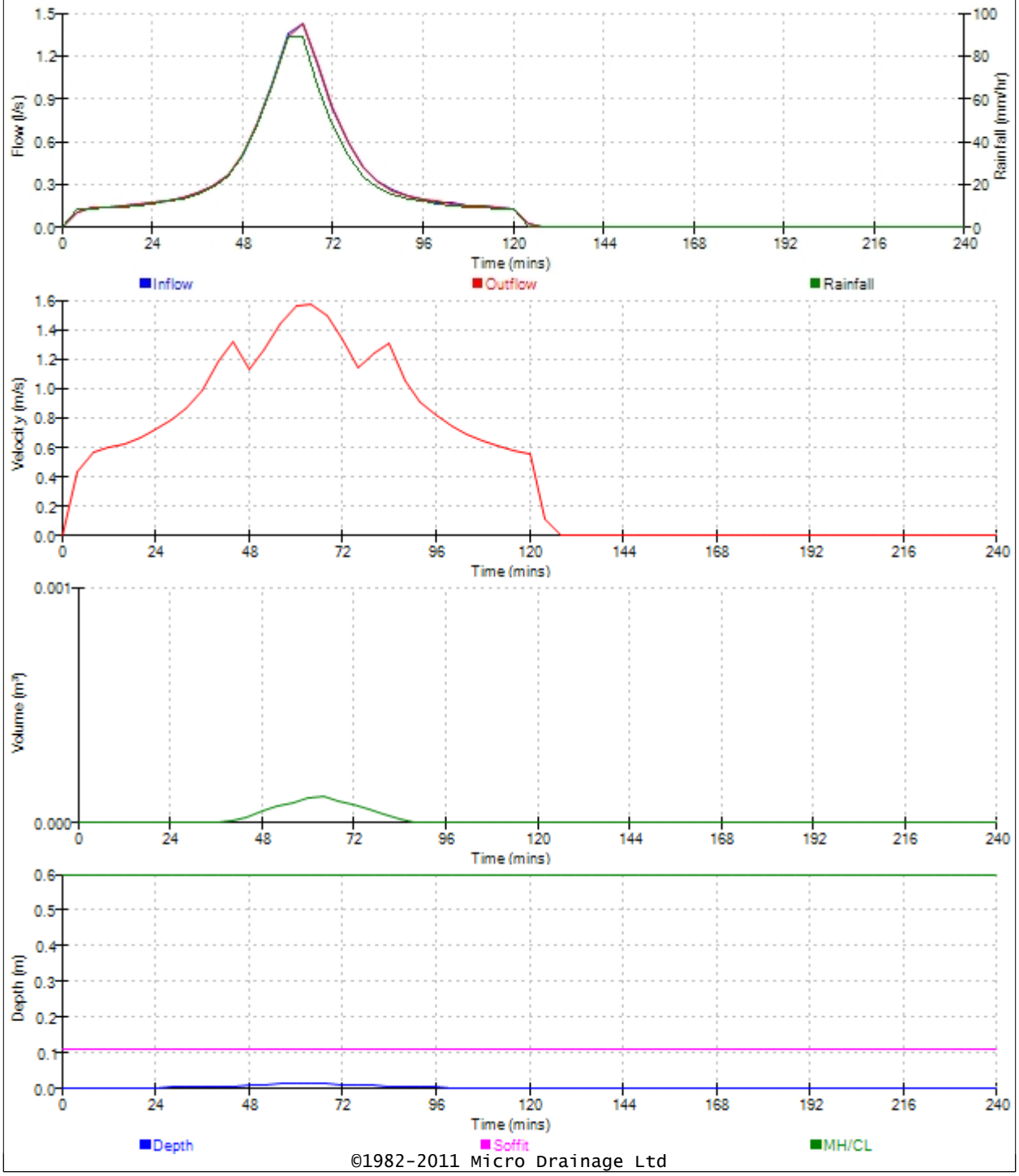
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Rainfall Hyetograph for 120 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
4	8.228	28	12.041	52	48.313	76	33.689	100	10.987
8	8.654	32	13.345	56	65.923	80	24.031	104	10.159
12	9.081	36	15.176	60	88.650	84	18.513	108	9.482
16	9.482	40	18.513	64	88.650	88	15.176	112	9.081
20	10.159	44	24.031	68	65.923	92	13.345	116	8.654
24	10.987	48	33.689	72	48.314	96	12.041	120	8.228

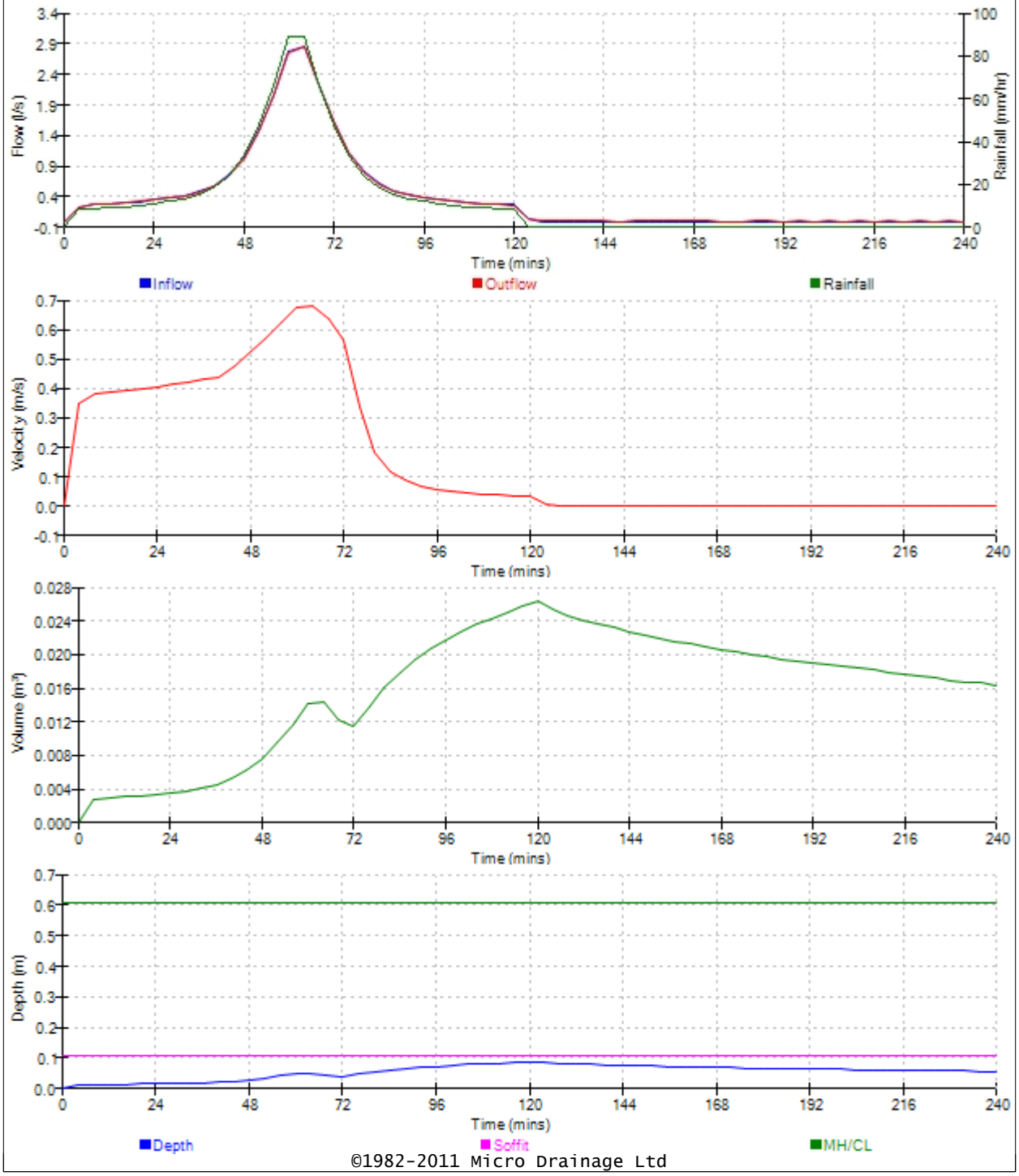
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Summer
Status: OK



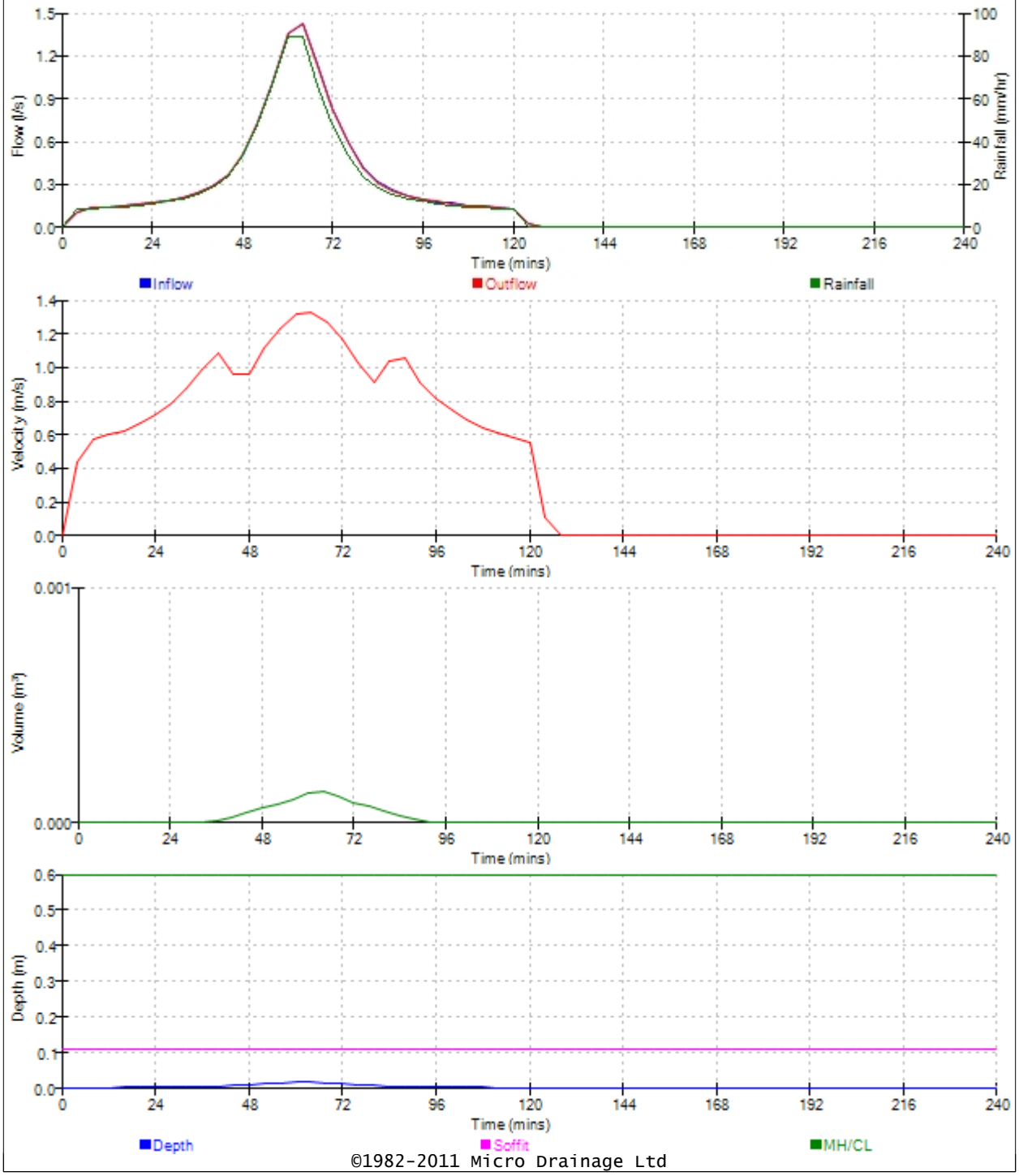
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Graphs for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Summer
Status: OK



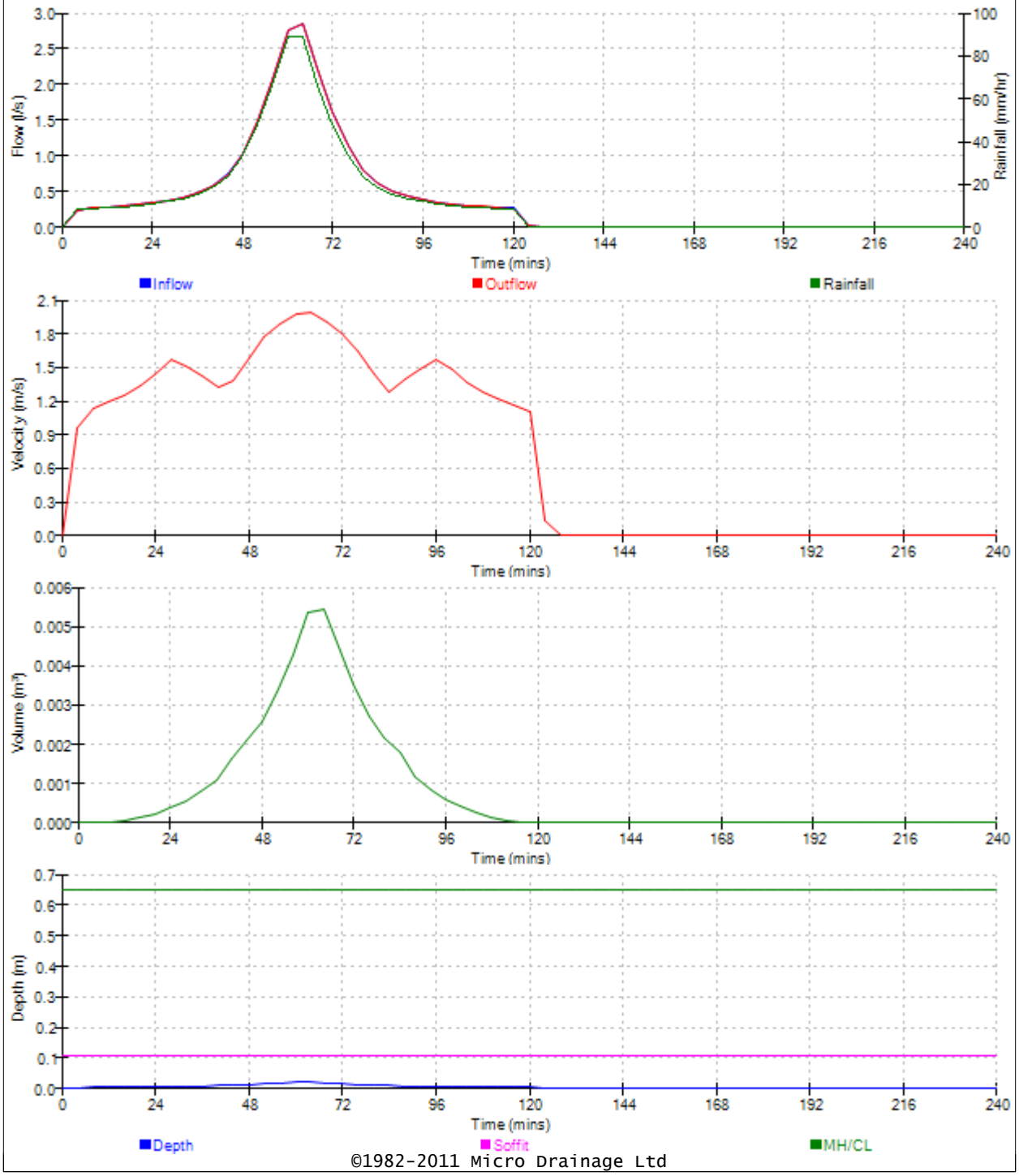
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Summer
Status: OK



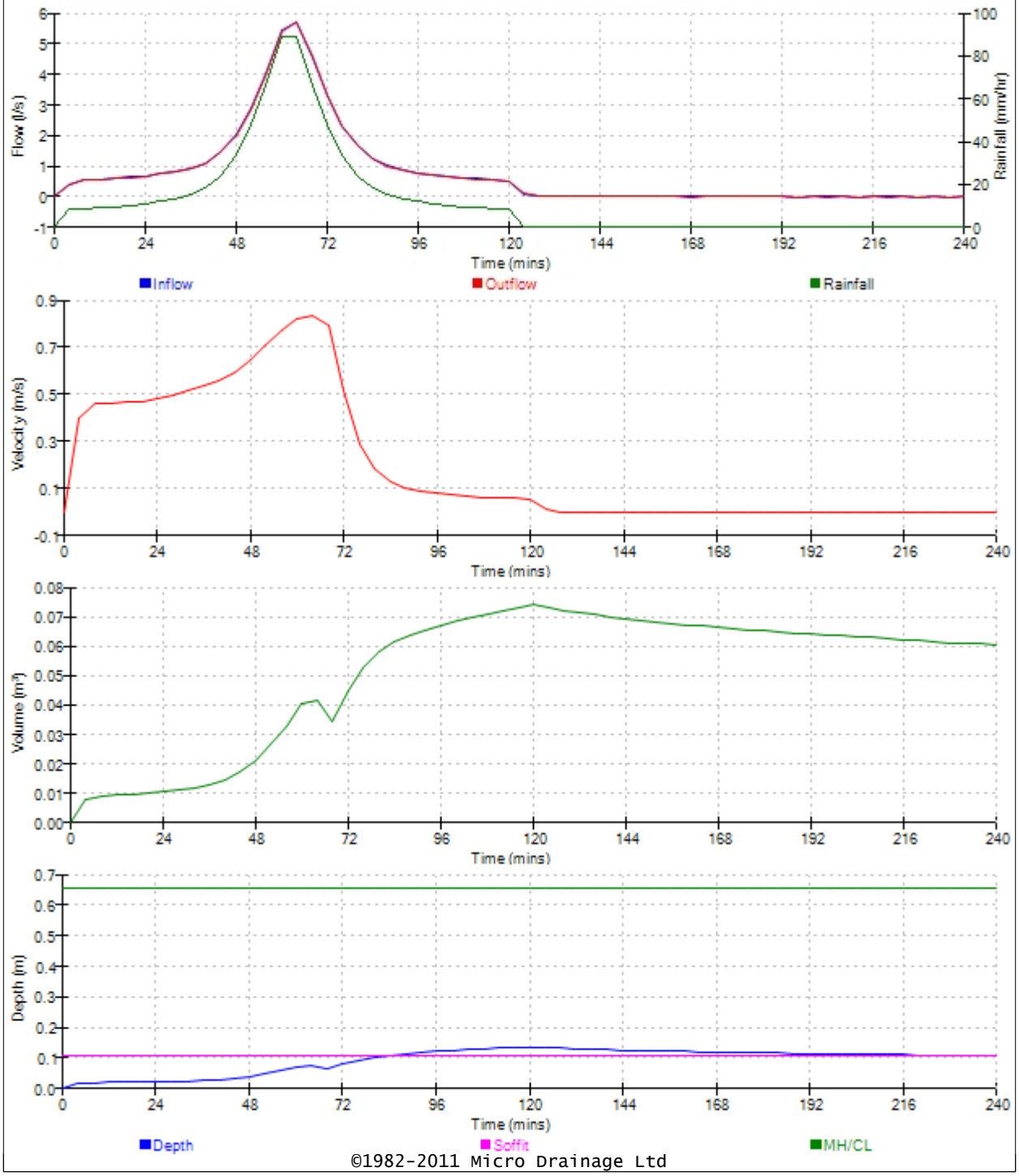
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Graphs for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Summer
Status: OK



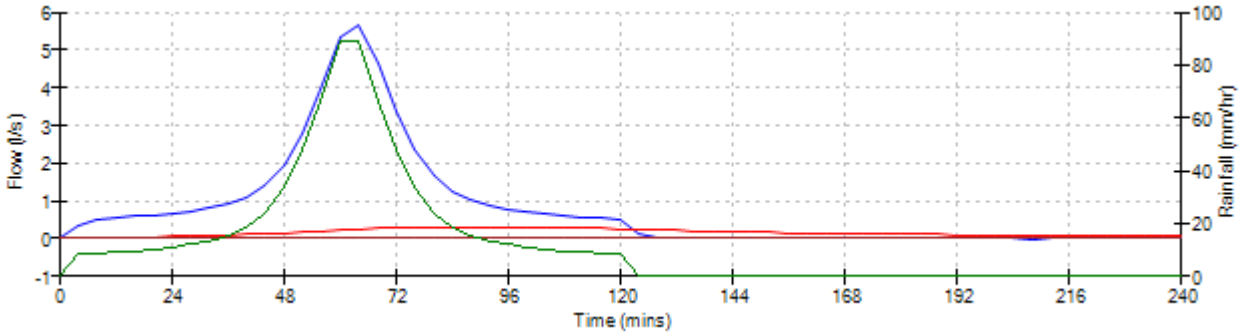
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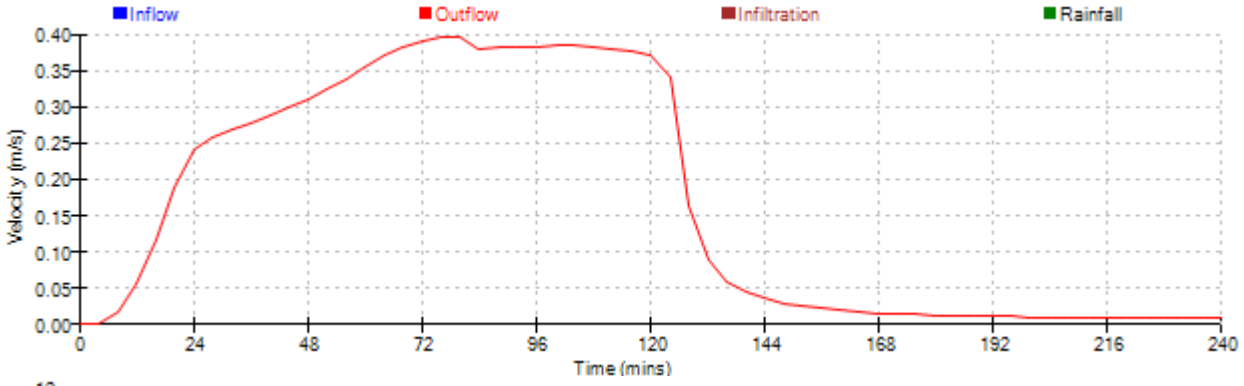
Graphs for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Summer
Status: SURCHARGED

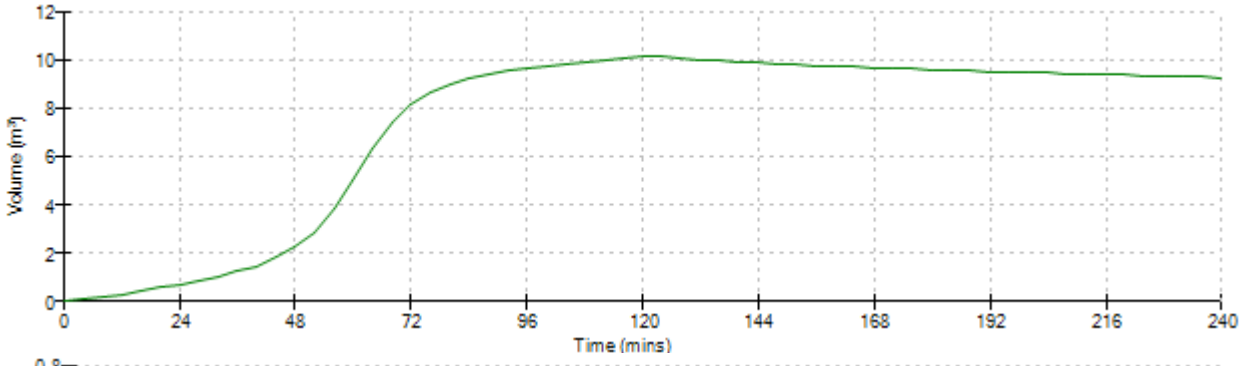


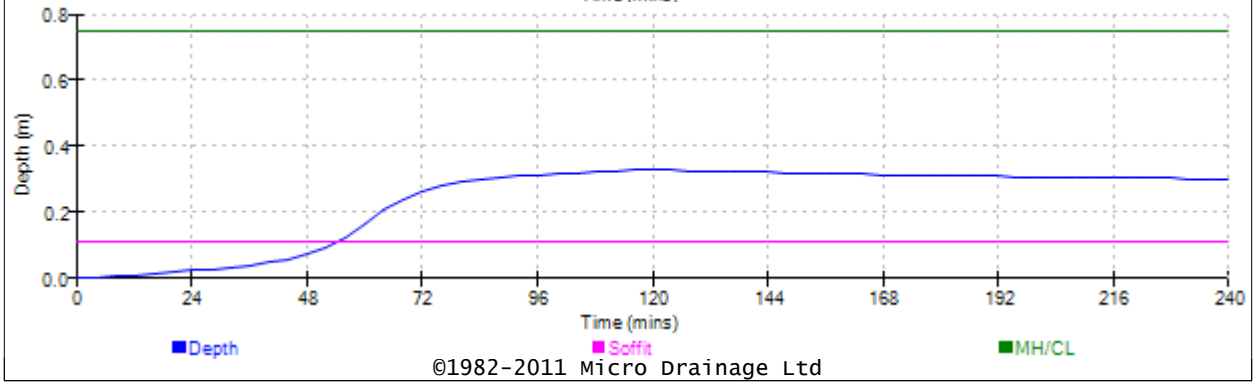
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Graphs for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Summer
Status: SURCHARGED



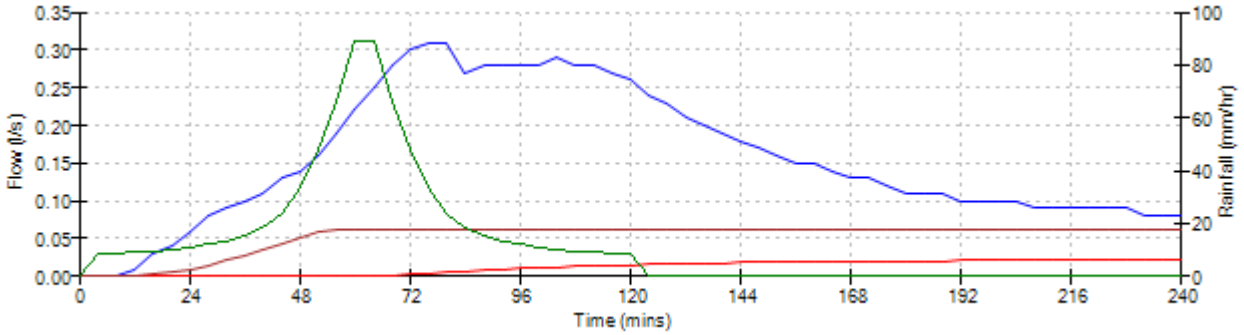


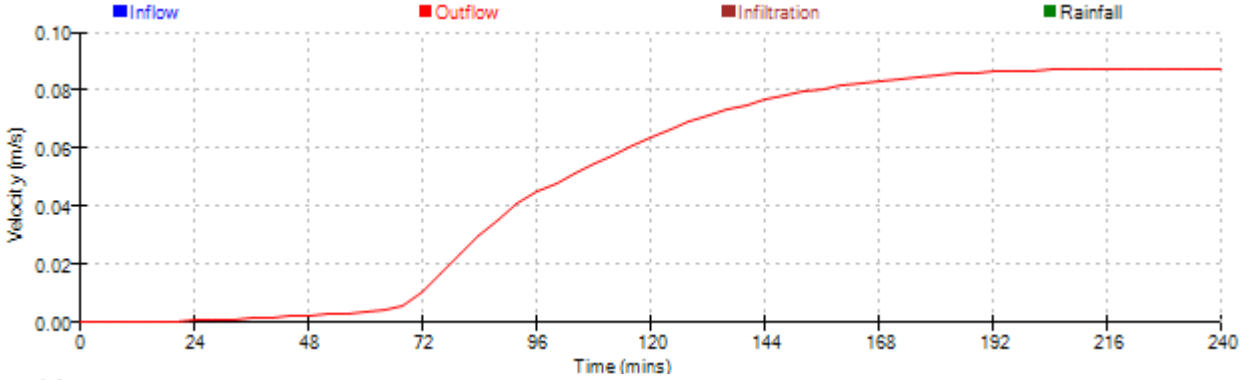


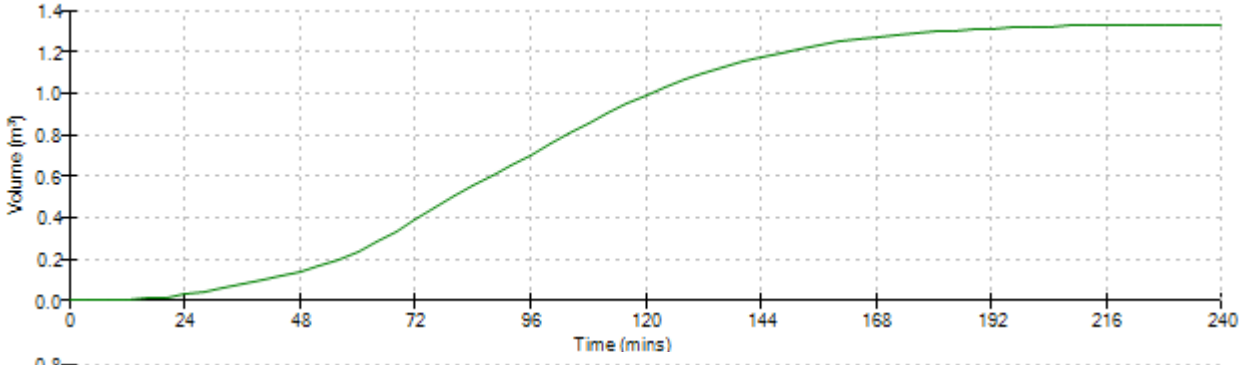


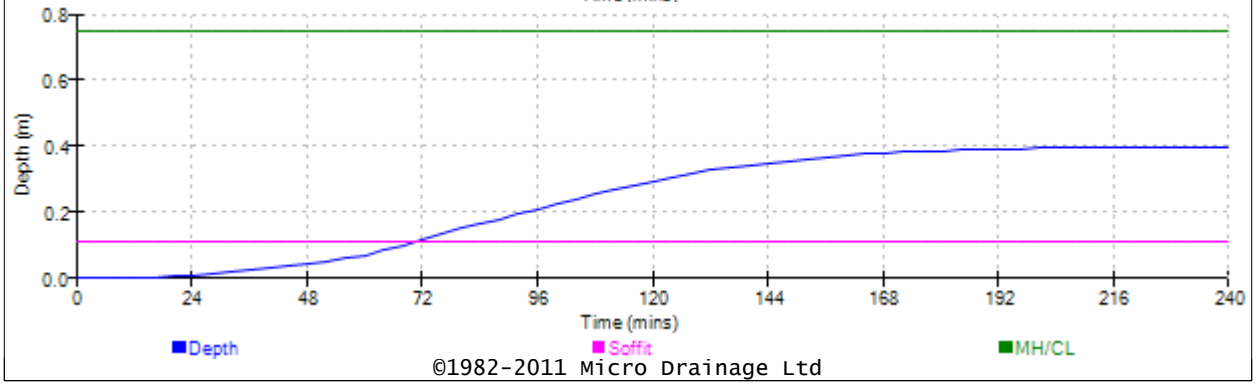
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.402	63.507	-0.108	0.0	0.4	0.1
8	65.403	63.508	-0.107	0.0	0.6	0.1
12	65.403	63.509	-0.107	0.0	0.6	0.1
16	65.403	63.509	-0.107	0.0	0.6	0.2
20	65.403	63.510	-0.107	0.0	0.7	0.2
24	65.404	63.510	-0.106	0.0	0.7	0.2
28	65.404	63.511	-0.106	0.0	0.8	0.2
32	65.404	63.512	-0.106	0.0	0.9	0.2
36	65.405	63.513	-0.105	0.0	1.0	0.2
40	65.406	63.516	-0.104	0.0	1.2	0.3
44	65.408	63.519	-0.102	0.0	1.3	0.4
48	65.410	63.523	-0.100	0.0	1.1	0.5
52	65.412	63.529	-0.098	0.0	1.3	0.7
56	65.414	63.536	-0.096	0.0	1.4	1.0
60	65.416	63.543	-0.094	0.0	1.6	1.3
64	65.417	63.544	-0.093	0.0	1.6	1.4
68	65.415	63.537	-0.095	0.0	1.5	1.1
72	65.413	63.535	-0.097	0.0	1.3	0.8
76	65.411	63.542	-0.099	0.0	1.1	0.6
80	65.408	63.550	-0.102	0.0	1.2	0.4
84	65.406	63.555	-0.104	0.0	1.3	0.3
88	65.405	63.560	-0.105	0.0	1.1	0.3
92	65.404	63.564	-0.106	0.0	0.9	0.2
96	65.404	63.567	-0.106	0.0	0.8	0.2
100	65.404	63.570	-0.106	0.0	0.7	0.2
104	65.403	63.573	-0.107	0.0	0.7	0.2
108	65.403	63.575	-0.107	0.0	0.6	0.2
112	65.403	63.578	-0.107	0.0	0.6	0.1
116	65.403	63.580	-0.107	0.0	0.6	0.1
120	65.403	63.582	-0.107	0.0	0.6	0.1
124	65.401	63.579	-0.109	0.0	0.1	0.0
128	65.400	63.576	-0.110	0.0	0.0	0.0
132	65.400	63.575	-0.110	0.0	0.0	0.0
136	65.400	63.573	-0.110	0.0	0.0	0.0
140	65.400	63.572	-0.110	0.0	0.0	0.0
144	65.400	63.571	-0.110	0.0	0.0	0.0
148	65.400	63.569	-0.110	0.0	0.0	0.0
152	65.400	63.568	-0.110	0.0	0.0	0.0
156	65.400	63.567	-0.110	0.0	0.0	0.0
160	65.400	63.566	-0.110	0.0	0.0	0.0
164	65.400	63.565	-0.110	0.0	0.0	0.0
168	65.400	63.564	-0.110	0.0	0.0	0.0
172	65.400	63.563	-0.110	0.0	0.0	0.0
176	65.400	63.562	-0.110	0.0	0.0	0.0
180	65.400	63.561	-0.110	0.0	0.0	0.0
184	65.400	63.560	-0.110	0.0	0.0	0.0
188	65.400	63.559	-0.110	0.0	0.0	0.0
192	65.400	63.559	-0.110	0.0	0.0	0.0
196	65.400	63.558	-0.110	0.0	0.0	0.0
200	65.400	63.557	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.400	63.557	-0.110	0.0	0.0	0.0
208	65.400	63.556	-0.110	0.0	0.0	0.0
212	65.400	63.555	-0.110	0.0	0.0	0.0
216	65.400	63.555	-0.110	0.0	0.0	0.0
220	65.400	63.554	-0.110	0.0	0.0	0.0
224	65.400	63.553	-0.110	0.0	0.0	0.0
228	65.400	63.552	-0.110	0.0	0.0	0.0
232	65.400	63.552	-0.110	0.0	0.0	0.0
236	65.400	63.551	-0.110	0.0	0.0	0.0
240	65.400	63.550	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.507	63.463	-0.097	0.0	0.3	0.2
8	63.508	63.464	-0.096	0.0	0.4	0.3
12	63.509	63.465	-0.095	0.0	0.4	0.3
16	63.509	63.466	-0.095	0.0	0.4	0.3
20	63.510	63.466	-0.095	0.0	0.4	0.3
24	63.510	63.467	-0.094	0.0	0.4	0.3
28	63.511	63.468	-0.093	0.0	0.4	0.4
32	63.512	63.469	-0.092	0.0	0.4	0.4
36	63.513	63.471	-0.091	0.0	0.4	0.5
40	63.516	63.474	-0.088	0.0	0.4	0.6
44	63.519	63.478	-0.086	0.0	0.5	0.7
48	63.523	63.485	-0.081	0.0	0.5	1.0
52	63.529	63.494	-0.075	0.0	0.6	1.5
56	63.536	63.504	-0.068	0.0	0.6	2.0
60	63.543	63.517	-0.061	0.0	0.7	2.8
64	63.544	63.519	-0.060	0.0	0.7	2.9
68	63.537	63.507	-0.067	0.0	0.6	2.2
72	63.535	63.525	-0.069	0.0	0.6	1.6
76	63.542	63.538	-0.062	0.0	0.3	1.1
80	63.550	63.546	-0.055	0.0	0.2	0.8
84	63.555	63.553	-0.049	0.0	0.1	0.6
88	63.560	63.558	-0.044	0.0	0.1	0.5
92	63.564	63.562	-0.040	0.0	0.1	0.4
96	63.567	63.566	-0.037	0.0	0.1	0.4
100	63.570	63.569	-0.034	0.0	0.1	0.4
104	63.573	63.572	-0.031	0.0	0.0	0.3
108	63.575	63.574	-0.029	0.0	0.0	0.3
112	63.578	63.576	-0.026	0.0	0.0	0.3
116	63.580	63.579	-0.024	0.0	0.0	0.3
120	63.582	63.581	-0.022	0.0	0.0	0.3
124	63.579	63.578	-0.026	0.0	0.0	0.0
128	63.576	63.577	-0.028	0.0	0.0	0.0
132	63.575	63.575	-0.029	0.0	0.0	0.0
136	63.573	63.573	-0.031	0.0	0.0	0.0
140	63.572	63.572	-0.032	0.0	0.0	0.0
144	63.571	63.571	-0.034	0.0	0.0	0.0
148	63.569	63.570	-0.035	0.0	0.0	0.0
152	63.568	63.568	-0.036	0.0	0.0	0.0
156	63.567	63.567	-0.037	0.0	0.0	0.0
160	63.566	63.566	-0.038	0.0	0.0	0.0
164	63.565	63.565	-0.039	0.0	0.0	0.0
168	63.564	63.564	-0.040	0.0	0.0	0.0
172	63.563	63.563	-0.041	0.0	0.0	0.0
176	63.562	63.562	-0.042	0.0	0.0	0.0
180	63.561	63.561	-0.043	0.0	0.0	0.0
184	63.560	63.560	-0.044	0.0	0.0	0.0
188	63.559	63.560	-0.045	0.0	0.0	0.0
192	63.559	63.559	-0.045	0.0	0.0	0.0
196	63.558	63.558	-0.046	0.0	0.0	0.0
200	63.557	63.558	-0.047	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.557	63.557	-0.047	0.0	0.0	0.0
208	63.556	63.556	-0.048	0.0	0.0	0.0
212	63.555	63.556	-0.049	0.0	0.0	0.0
216	63.555	63.555	-0.049	0.0	0.0	0.0
220	63.554	63.554	-0.050	0.0	0.0	0.0
224	63.553	63.554	-0.051	0.0	0.0	0.0
228	63.552	63.553	-0.052	0.0	0.0	0.0
232	63.552	63.552	-0.052	0.0	0.0	0.0
236	63.551	63.552	-0.053	0.0	0.0	0.0
240	63.550	63.551	-0.054	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.403	65.004	-0.107	0.0	0.4	0.1
8	65.403	65.005	-0.107	0.0	0.6	0.1
12	65.404	65.005	-0.106	0.0	0.6	0.1
16	65.404	65.005	-0.106	0.0	0.6	0.2
20	65.404	65.006	-0.106	0.0	0.7	0.2
24	65.404	65.006	-0.106	0.0	0.7	0.2
28	65.405	65.007	-0.105	0.0	0.8	0.2
32	65.405	65.008	-0.105	0.0	0.9	0.2
36	65.406	65.009	-0.104	0.0	1.0	0.2
40	65.407	65.010	-0.103	0.0	1.1	0.3
44	65.409	65.012	-0.101	0.0	1.0	0.4
48	65.412	65.013	-0.098	0.0	1.0	0.5
52	65.413	65.016	-0.097	0.0	1.1	0.7
56	65.415	65.019	-0.095	0.0	1.2	1.0
60	65.418	65.023	-0.092	0.0	1.3	1.4
64	65.419	65.023	-0.091	0.0	1.3	1.4
68	65.416	65.020	-0.094	0.0	1.3	1.1
72	65.414	65.016	-0.096	0.0	1.2	0.8
76	65.412	65.014	-0.098	0.0	1.0	0.6
80	65.410	65.012	-0.100	0.0	0.9	0.4
84	65.408	65.011	-0.102	0.0	1.0	0.3
88	65.406	65.009	-0.104	0.0	1.1	0.3
92	65.406	65.008	-0.104	0.0	0.9	0.2
96	65.405	65.007	-0.105	0.0	0.8	0.2
100	65.405	65.006	-0.105	0.0	0.7	0.2
104	65.404	65.006	-0.106	0.0	0.7	0.2
108	65.404	65.005	-0.106	0.0	0.6	0.2
112	65.404	65.005	-0.106	0.0	0.6	0.1
116	65.404	65.005	-0.106	0.0	0.6	0.1
120	65.403	65.005	-0.107	0.0	0.6	0.1
124	65.401	65.000	-0.109	0.0	0.1	0.0
128	65.400	65.000	-0.110	0.0	0.0	0.0
132	65.400	65.000	-0.110	0.0	0.0	0.0
136	65.400	65.000	-0.110	0.0	0.0	0.0
140	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
148	65.400	65.000	-0.110	0.0	0.0	0.0
152	65.400	65.000	-0.110	0.0	0.0	0.0
156	65.400	65.000	-0.110	0.0	0.0	0.0
160	65.400	65.000	-0.110	0.0	0.0	0.0
164	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
172	65.400	65.000	-0.110	0.0	0.0	0.0
176	65.400	65.000	-0.110	0.0	0.0	0.0
180	65.400	65.000	-0.110	0.0	0.0	0.0
184	65.400	65.000	-0.110	0.0	0.0	0.0
188	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
196	65.400	65.000	-0.110	0.0	0.0	0.0
200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.400	65.000	-0.110	0.0	0.0	0.0
208	65.400	65.000	-0.110	0.0	0.0	0.0
212	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
220	65.400	65.000	-0.110	0.0	0.0	0.0
224	65.400	65.000	-0.110	0.0	0.0	0.0
228	65.400	65.000	-0.110	0.0	0.0	0.0
232	65.400	65.000	-0.110	0.0	0.0	0.0
236	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.004	63.463	-0.106	0.0	1.0	0.2
8	65.005	63.464	-0.105	0.0	1.1	0.3
12	65.005	63.465	-0.105	0.0	1.2	0.3
16	65.005	63.466	-0.105	0.0	1.3	0.3
20	65.006	63.466	-0.104	0.0	1.3	0.3
24	65.006	63.467	-0.104	0.0	1.4	0.3
28	65.007	63.468	-0.103	0.0	1.6	0.4
32	65.008	63.469	-0.102	0.0	1.5	0.4
36	65.009	63.471	-0.101	0.0	1.4	0.5
40	65.010	63.474	-0.100	0.0	1.3	0.6
44	65.012	63.478	-0.098	0.0	1.4	0.7
48	65.013	63.485	-0.097	0.0	1.6	1.0
52	65.016	63.494	-0.094	0.0	1.8	1.5
56	65.019	63.504	-0.091	0.0	1.9	2.1
60	65.023	63.517	-0.087	0.0	2.0	2.8
64	65.023	63.519	-0.087	0.0	2.0	2.9
68	65.020	63.507	-0.090	0.0	1.9	2.2
72	65.016	63.525	-0.094	0.0	1.8	1.6
76	65.014	63.538	-0.096	0.0	1.6	1.1
80	65.012	63.546	-0.098	0.0	1.4	0.8
84	65.011	63.553	-0.099	0.0	1.3	0.6
88	65.009	63.558	-0.101	0.0	1.4	0.5
92	65.008	63.562	-0.102	0.0	1.5	0.4
96	65.007	63.566	-0.103	0.0	1.6	0.4
100	65.006	63.569	-0.104	0.0	1.5	0.4
104	65.006	63.572	-0.104	0.0	1.4	0.3
108	65.005	63.574	-0.105	0.0	1.3	0.3
112	65.005	63.576	-0.105	0.0	1.2	0.3
116	65.005	63.579	-0.105	0.0	1.2	0.3
120	65.005	63.581	-0.105	0.0	1.1	0.3
124	65.000	63.578	-0.110	0.0	0.1	0.0
128	65.000	63.577	-0.110	0.0	0.0	0.0
132	65.000	63.575	-0.110	0.0	0.0	0.0
136	65.000	63.573	-0.110	0.0	0.0	0.0
140	65.000	63.572	-0.110	0.0	0.0	0.0
144	65.000	63.571	-0.110	0.0	0.0	0.0
148	65.000	63.570	-0.110	0.0	0.0	0.0
152	65.000	63.568	-0.110	0.0	0.0	0.0
156	65.000	63.567	-0.110	0.0	0.0	0.0
160	65.000	63.566	-0.110	0.0	0.0	0.0
164	65.000	63.565	-0.110	0.0	0.0	0.0
168	65.000	63.564	-0.110	0.0	0.0	0.0
172	65.000	63.563	-0.110	0.0	0.0	0.0
176	65.000	63.562	-0.110	0.0	0.0	0.0
180	65.000	63.561	-0.110	0.0	0.0	0.0
184	65.000	63.560	-0.110	0.0	0.0	0.0
188	65.000	63.560	-0.110	0.0	0.0	0.0
192	65.000	63.559	-0.110	0.0	0.0	0.0
196	65.000	63.558	-0.110	0.0	0.0	0.0
200	65.000	63.558	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.000	63.557	-0.110	0.0	0.0	0.0
208	65.000	63.556	-0.110	0.0	0.0	0.0
212	65.000	63.556	-0.110	0.0	0.0	0.0
216	65.000	63.555	-0.110	0.0	0.0	0.0
220	65.000	63.554	-0.110	0.0	0.0	0.0
224	65.000	63.554	-0.110	0.0	0.0	0.0
228	65.000	63.553	-0.110	0.0	0.0	0.0
232	65.000	63.552	-0.110	0.0	0.0	0.0
236	65.000	63.552	-0.110	0.0	0.0	0.0
240	65.000	63.551	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.463	63.253	-0.092	0.0	0.4	0.4
8	63.464	63.257	-0.090	0.0	0.5	0.5
12	63.465	63.260	-0.089	0.0	0.5	0.6
16	63.466	63.265	-0.089	0.0	0.5	0.6
20	63.466	63.269	-0.088	0.0	0.5	0.6
24	63.467	63.274	-0.087	0.0	0.5	0.7
28	63.468	63.279	-0.086	0.0	0.5	0.7
32	63.469	63.285	-0.085	0.0	0.5	0.8
36	63.471	63.291	-0.083	0.0	0.5	0.9
40	63.474	63.298	-0.080	0.0	0.6	1.1
44	63.478	63.309	-0.076	0.0	0.6	1.4
48	63.485	63.323	-0.069	0.0	0.7	2.0
52	63.494	63.344	-0.060	0.0	0.7	2.9
56	63.504	63.375	-0.050	0.0	0.8	4.0
60	63.517	63.414	-0.037	0.0	0.8	5.4
64	63.519	63.456	-0.035	0.0	0.8	5.7
68	63.507	63.490	-0.047	0.0	0.8	4.6
72	63.525	63.514	-0.030	0.0	0.5	3.3
76	63.538	63.530	-0.017	0.0	0.3	2.3
80	63.546	63.541	-0.008	0.0	0.2	1.6
84	63.553	63.549	-0.001	0.0	0.1	1.2
88	63.558	63.555	0.004	0.0	0.1	1.0
92	63.562	63.559	0.008	0.0	0.1	0.9
96	63.566	63.563	0.012	0.0	0.1	0.8
100	63.569	63.567	0.015	0.0	0.1	0.7
104	63.572	63.570	0.018	0.0	0.1	0.7
108	63.574	63.572	0.020	0.0	0.1	0.6
112	63.576	63.575	0.022	0.0	0.1	0.6
116	63.579	63.577	0.024	0.0	0.1	0.6
120	63.581	63.579	0.027	0.0	0.1	0.5
124	63.578	63.578	0.024	0.0	0.0	0.1
128	63.577	63.577	0.022	0.0	0.0	0.0
132	63.575	63.575	0.021	0.0	0.0	0.0
136	63.573	63.573	0.019	0.0	0.0	0.0
140	63.572	63.572	0.018	0.0	0.0	0.0
144	63.571	63.571	0.017	0.0	0.0	0.0
148	63.570	63.569	0.015	0.0	0.0	0.0
152	63.568	63.568	0.014	0.0	0.0	0.0
156	63.567	63.567	0.013	0.0	0.0	0.0
160	63.566	63.566	0.012	0.0	0.0	0.0
164	63.565	63.565	0.011	0.0	0.0	0.0
168	63.564	63.564	0.010	0.0	0.0	0.0
172	63.563	63.563	0.009	0.0	0.0	0.0
176	63.562	63.562	0.008	0.0	0.0	0.0
180	63.561	63.561	0.007	0.0	0.0	0.0
184	63.560	63.561	0.006	0.0	0.0	0.0
188	63.560	63.560	0.006	0.0	0.0	0.0
192	63.559	63.559	0.005	0.0	0.0	0.0
196	63.558	63.558	0.004	0.0	0.0	0.0
200	63.558	63.558	0.003	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.557	63.557	0.003	0.0	0.0	0.0
208	63.556	63.556	0.002	0.0	0.0	0.0
212	63.556	63.556	0.001	0.0	0.0	0.0
216	63.555	63.555	0.001	0.0	0.0	0.0
220	63.554	63.554	0.000	0.0	0.0	0.0
224	63.554	63.554	-0.001	0.0	0.0	0.0
228	63.553	63.553	-0.002	0.0	0.0	0.0
232	63.552	63.552	-0.002	0.0	0.0	0.0
236	63.552	63.552	-0.002	0.0	0.0	0.0
240	63.551	63.551	-0.004	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.253	63.100	-0.107	0.0	0.0	0.0
8	63.257	63.100	-0.103	0.0	0.0	0.0
12	63.260	63.101	-0.100	0.0	0.1	0.0
16	63.265	63.103	-0.095	0.0	0.1	0.0
20	63.269	63.105	-0.091	0.0	0.2	0.0
24	63.274	63.109	-0.086	0.0	0.2	0.1
28	63.279	63.114	-0.081	0.0	0.3	0.1
32	63.285	63.119	-0.075	0.0	0.3	0.1
36	63.291	63.124	-0.069	0.0	0.3	0.1
40	63.298	63.130	-0.062	0.0	0.3	0.1
44	63.309	63.137	-0.051	0.0	0.3	0.1
48	63.323	63.143	-0.037	0.0	0.3	0.1
52	63.344	63.151	-0.016	0.0	0.3	0.2
56	63.375	63.160	0.015	0.0	0.3	0.2
60	63.414	63.171	0.054	0.0	0.4	0.2
64	63.456	63.185	0.096	0.0	0.4	0.3
68	63.490	63.200	0.130	0.0	0.4	0.3
72	63.514	63.217	0.154	0.0	0.4	0.3
76	63.530	63.234	0.170	0.0	0.4	0.3
80	63.541	63.252	0.181	0.0	0.4	0.3
84	63.549	63.266	0.189	0.0	0.4	0.3
88	63.555	63.281	0.195	0.0	0.4	0.3
92	63.559	63.295	0.199	0.0	0.4	0.3
96	63.563	63.310	0.203	0.0	0.4	0.3
100	63.567	63.325	0.207	0.0	0.4	0.3
104	63.570	63.340	0.210	0.0	0.4	0.3
108	63.572	63.355	0.212	0.0	0.4	0.3
112	63.575	63.369	0.215	0.0	0.4	0.3
116	63.577	63.383	0.217	0.0	0.4	0.3
120	63.579	63.396	0.219	0.0	0.4	0.3
124	63.578	63.407	0.218	0.0	0.3	0.2
128	63.577	63.418	0.217	0.0	0.2	0.2
132	63.575	63.428	0.215	0.0	0.1	0.2
136	63.573	63.436	0.213	0.0	0.1	0.2
140	63.572	63.443	0.212	0.0	0.0	0.2
144	63.571	63.451	0.211	0.0	0.0	0.2
148	63.569	63.457	0.209	0.0	0.0	0.2
152	63.568	63.463	0.208	0.0	0.0	0.2
156	63.567	63.468	0.207	0.0	0.0	0.2
160	63.566	63.472	0.206	0.0	0.0	0.1
164	63.565	63.476	0.205	0.0	0.0	0.1
168	63.564	63.479	0.204	0.0	0.0	0.1
172	63.563	63.482	0.203	0.0	0.0	0.1
176	63.562	63.485	0.202	0.0	0.0	0.1
180	63.561	63.487	0.201	0.0	0.0	0.1
184	63.561	63.489	0.201	0.0	0.0	0.1
188	63.560	63.490	0.200	0.0	0.0	0.1
192	63.559	63.492	0.199	0.0	0.0	0.1
196	63.558	63.493	0.198	0.0	0.0	0.1
200	63.558	63.494	0.198	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.557	63.495	0.197	0.0	0.0	0.1
208	63.556	63.495	0.196	0.0	0.0	0.1
212	63.556	63.496	0.196	0.0	0.0	0.1
216	63.555	63.496	0.195	0.0	0.0	0.1
220	63.554	63.497	0.194	0.0	0.0	0.1
224	63.554	63.497	0.194	0.0	0.0	0.1
228	63.553	63.497	0.193	0.0	0.0	0.1
232	63.552	63.497	0.192	0.0	0.0	0.1
236	63.552	63.497	0.192	0.0	0.0	0.1
240	63.551	63.497	0.191	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.101	63.096	-0.109	0.0	0.0	0.0
16	63.103	63.096	-0.107	0.0	0.0	0.0
20	63.105	63.096	-0.105	0.0	0.0	0.0
24	63.109	63.096	-0.101	0.0	0.0	0.0
28	63.114	63.096	-0.096	0.0	0.0	0.0
32	63.119	63.096	-0.091	0.0	0.0	0.0
36	63.124	63.096	-0.086	0.0	0.0	0.0
40	63.130	63.096	-0.080	0.0	0.0	0.0
44	63.137	63.096	-0.073	0.0	0.0	0.0
48	63.143	63.096	-0.067	0.0	0.0	0.0
52	63.151	63.096	-0.059	0.0	0.0	0.0
56	63.160	63.096	-0.050	0.0	0.0	0.0
60	63.171	63.096	-0.039	0.0	0.0	0.0
64	63.185	63.096	-0.025	0.0	0.0	0.0
68	63.200	63.096	-0.010	0.0	0.0	0.0
72	63.217	63.096	0.007	0.0	0.0	0.0
76	63.234	63.096	0.024	0.0	0.0	0.0
80	63.252	63.096	0.042	0.0	0.0	0.0
84	63.266	63.096	0.056	0.0	0.0	0.0
88	63.281	63.096	0.071	0.0	0.0	0.0
92	63.295	63.096	0.085	0.0	0.0	0.0
96	63.310	63.096	0.100	0.0	0.0	0.0
100	63.325	63.096	0.115	0.0	0.0	0.0
104	63.340	63.096	0.130	0.0	0.1	0.0
108	63.355	63.096	0.145	0.0	0.1	0.0
112	63.369	63.096	0.159	0.0	0.1	0.0
116	63.383	63.096	0.173	0.0	0.1	0.0
120	63.396	63.096	0.186	0.0	0.1	0.0
124	63.407	63.096	0.197	0.0	0.1	0.0
128	63.418	63.096	0.208	0.0	0.1	0.0
132	63.428	63.096	0.218	0.0	0.1	0.0
136	63.436	63.096	0.226	0.0	0.1	0.0
140	63.443	63.096	0.233	0.0	0.1	0.0
144	63.451	63.096	0.241	0.0	0.1	0.0
148	63.457	63.096	0.247	0.0	0.1	0.0
152	63.463	63.096	0.253	0.0	0.1	0.0
156	63.468	63.096	0.258	0.0	0.1	0.0
160	63.472	63.096	0.262	0.0	0.1	0.0
164	63.476	63.096	0.266	0.0	0.1	0.0
168	63.479	63.096	0.269	0.0	0.1	0.0
172	63.482	63.096	0.272	0.0	0.1	0.0
176	63.485	63.096	0.275	0.0	0.1	0.0
180	63.487	63.096	0.277	0.0	0.1	0.0
184	63.489	63.096	0.279	0.0	0.1	0.0
188	63.490	63.096	0.280	0.0	0.1	0.0
192	63.492	63.096	0.282	0.0	0.1	0.0
196	63.493	63.096	0.283	0.0	0.1	0.0
200	63.494	63.096	0.284	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Summer
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.495	63.096	0.285	0.0	0.1	0.0
208	63.495	63.096	0.285	0.0	0.1	0.0
212	63.496	63.096	0.286	0.0	0.1	0.0
216	63.496	63.096	0.286	0.0	0.1	0.0
220	63.497	63.096	0.287	0.0	0.1	0.0
224	63.497	63.096	0.287	0.0	0.1	0.0
228	63.497	63.096	0.287	0.0	0.1	0.0
232	63.497	63.096	0.287	0.0	0.1	0.0
236	63.497	63.096	0.287	0.0	0.1	0.0
240	63.497	63.096	0.287	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	240
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	4

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	120
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 120 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.414	-0.096	0.000	0.04	0.0	1.0	OK
1.001	S1	63.582	-0.022	0.000	0.30	0.0	2.0	OK
2.000	RE2	65.415	-0.095	0.000	0.05	0.0	1.0	OK
2.001	S2	65.019	-0.091	0.000	0.07	0.0	2.0	OK
1.002	S3	63.581	0.027	0.000	0.56	0.0	4.0	SURCHARGED
1.003	S4	63.579	0.219	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.497	0.287	0.000	0.00	0.0	0.0	SURCHARGED

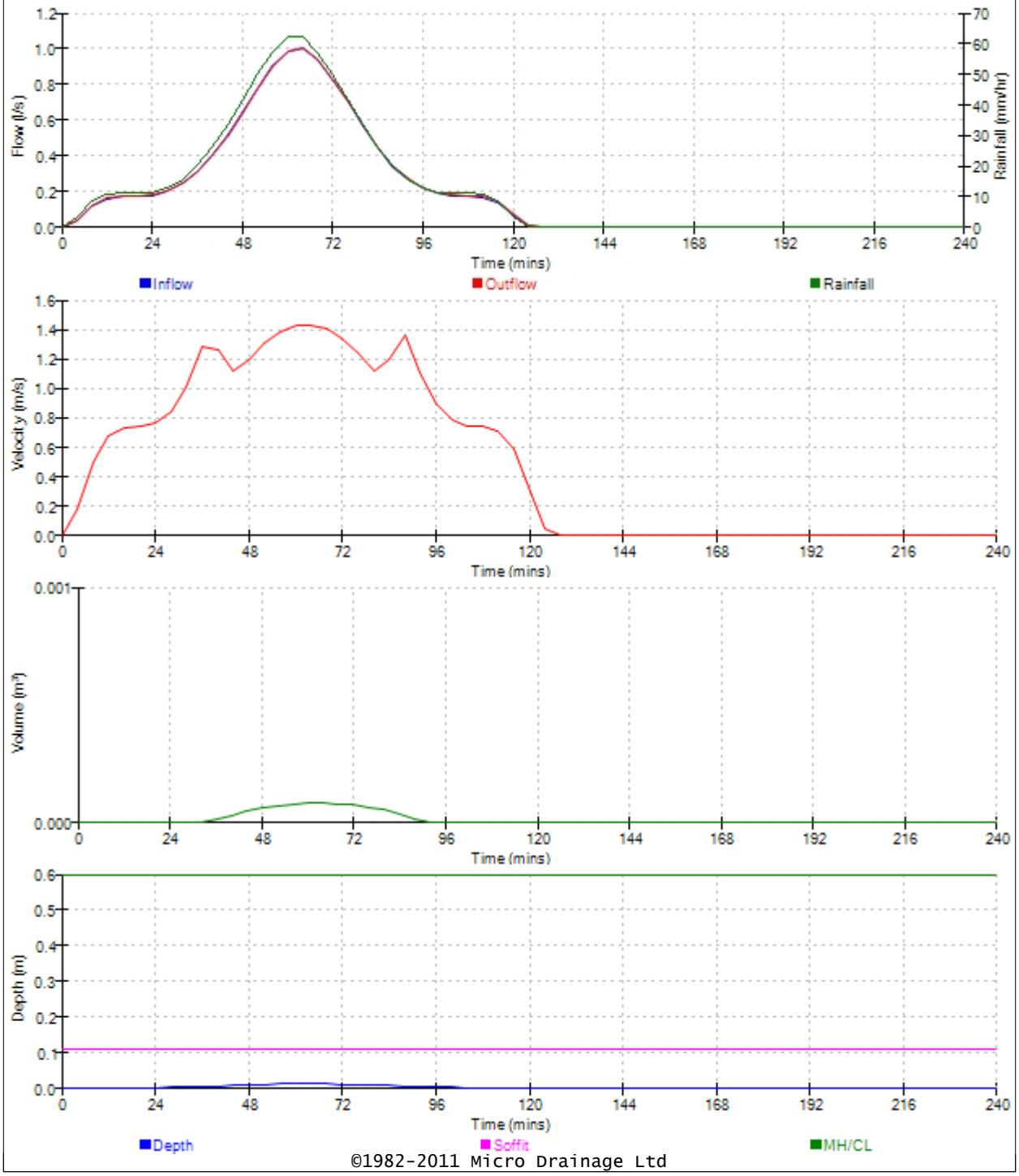
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Rainfall Hyetograph for 120 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
4	3.455	28	12.958	52	49.979	76	41.649	100	11.533
8	8.489	32	15.779	56	57.134	80	33.609	104	11.168
12	10.632	36	20.179	60	62.210	84	26.336	108	11.164
16	11.164	40	26.336	64	62.210	88	20.179	112	10.632
20	11.168	44	33.609	68	57.134	92	15.779	116	8.489
24	11.533	48	41.649	72	49.979	96	12.958	120	3.455

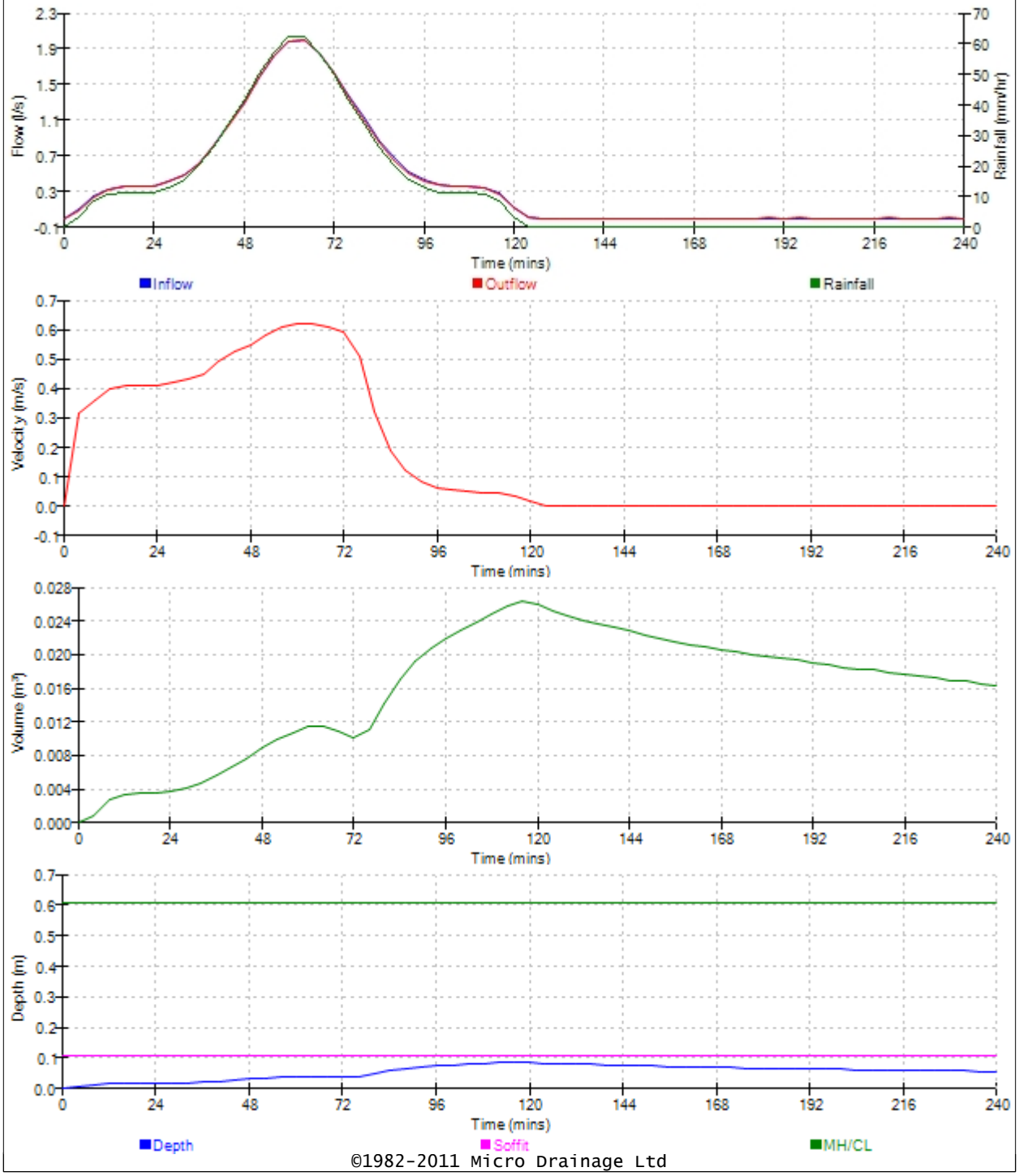
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Winter
Status: OK



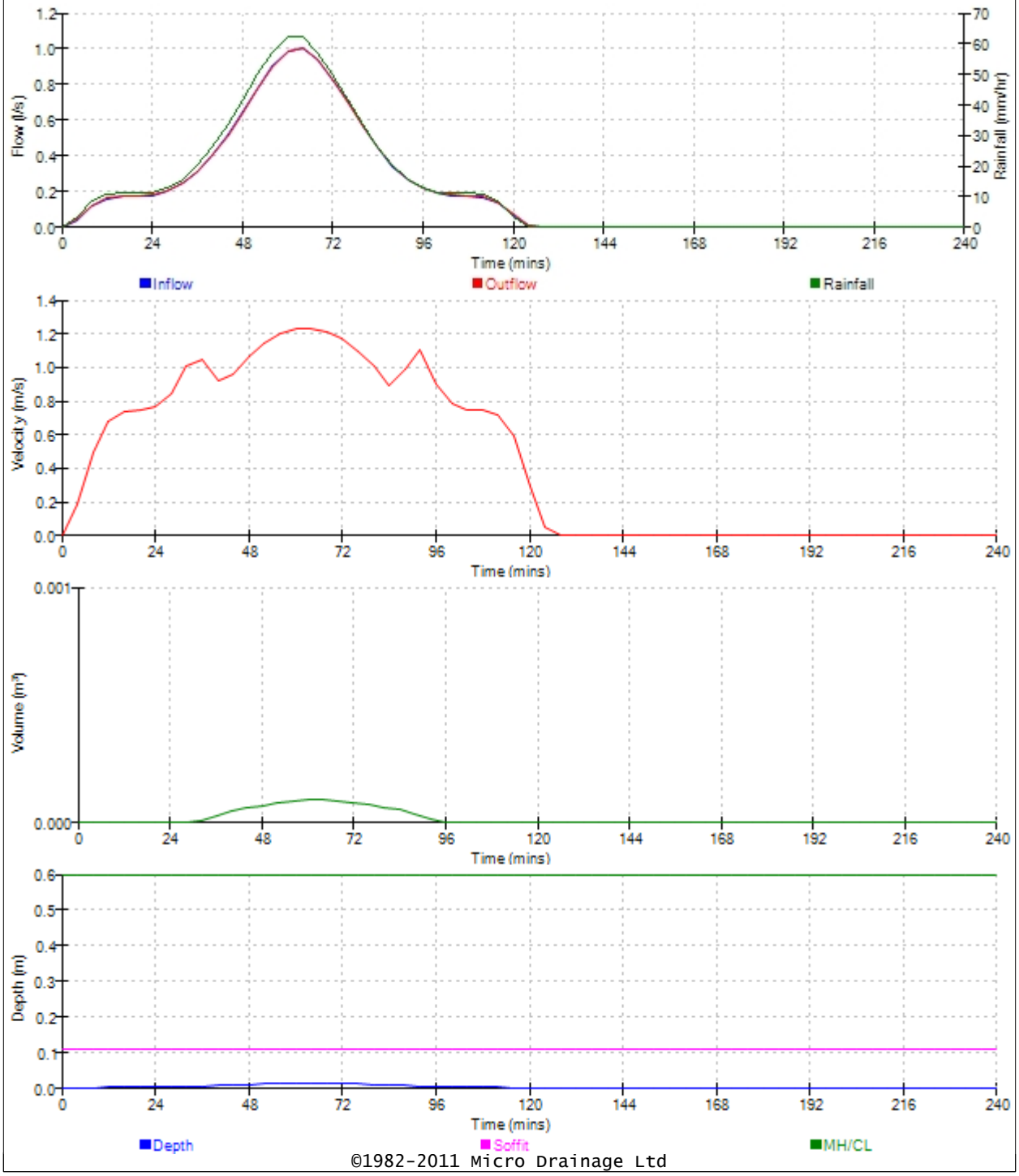
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Graphs for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Winter
Status: OK



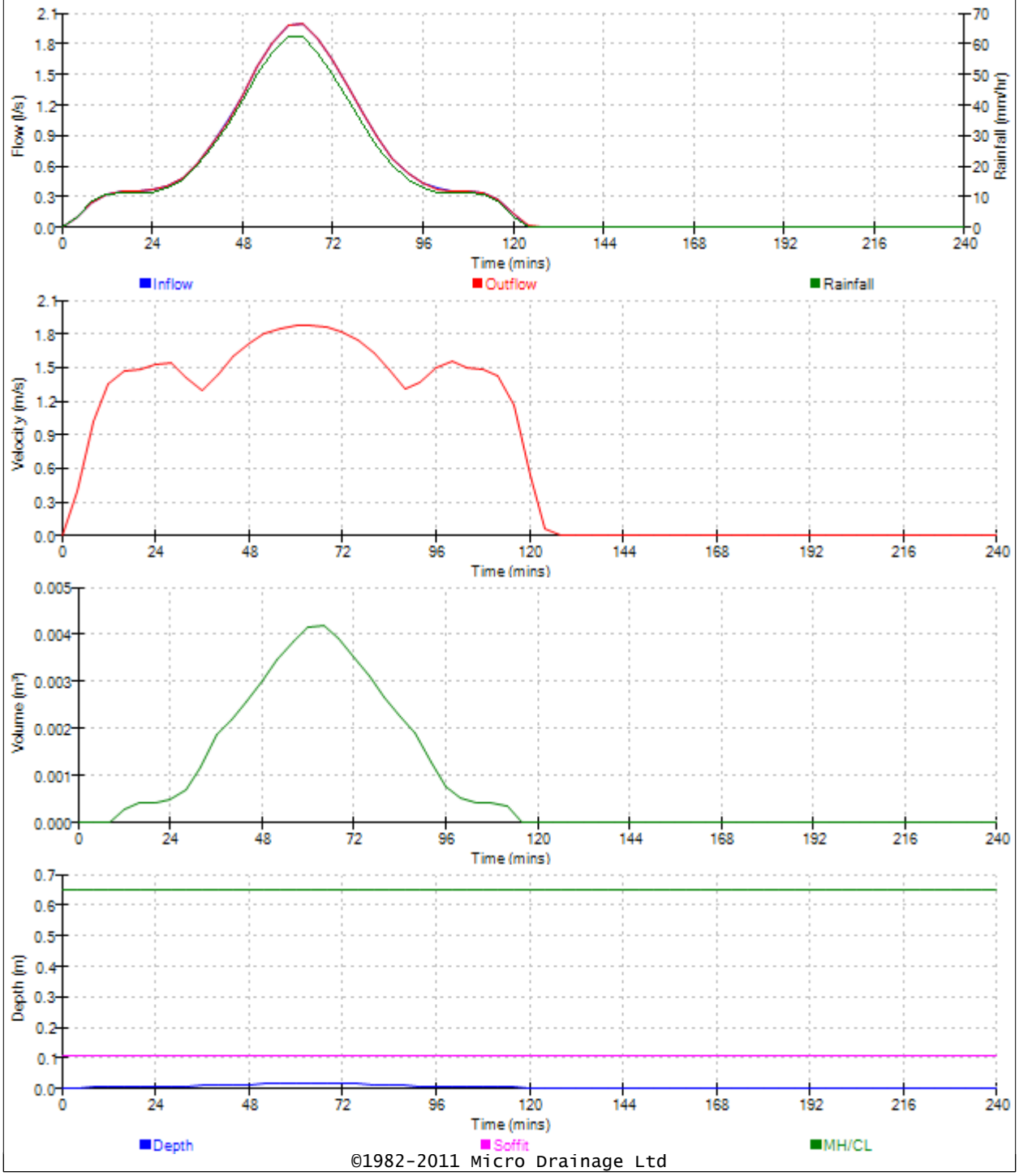
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Winter
Status: OK



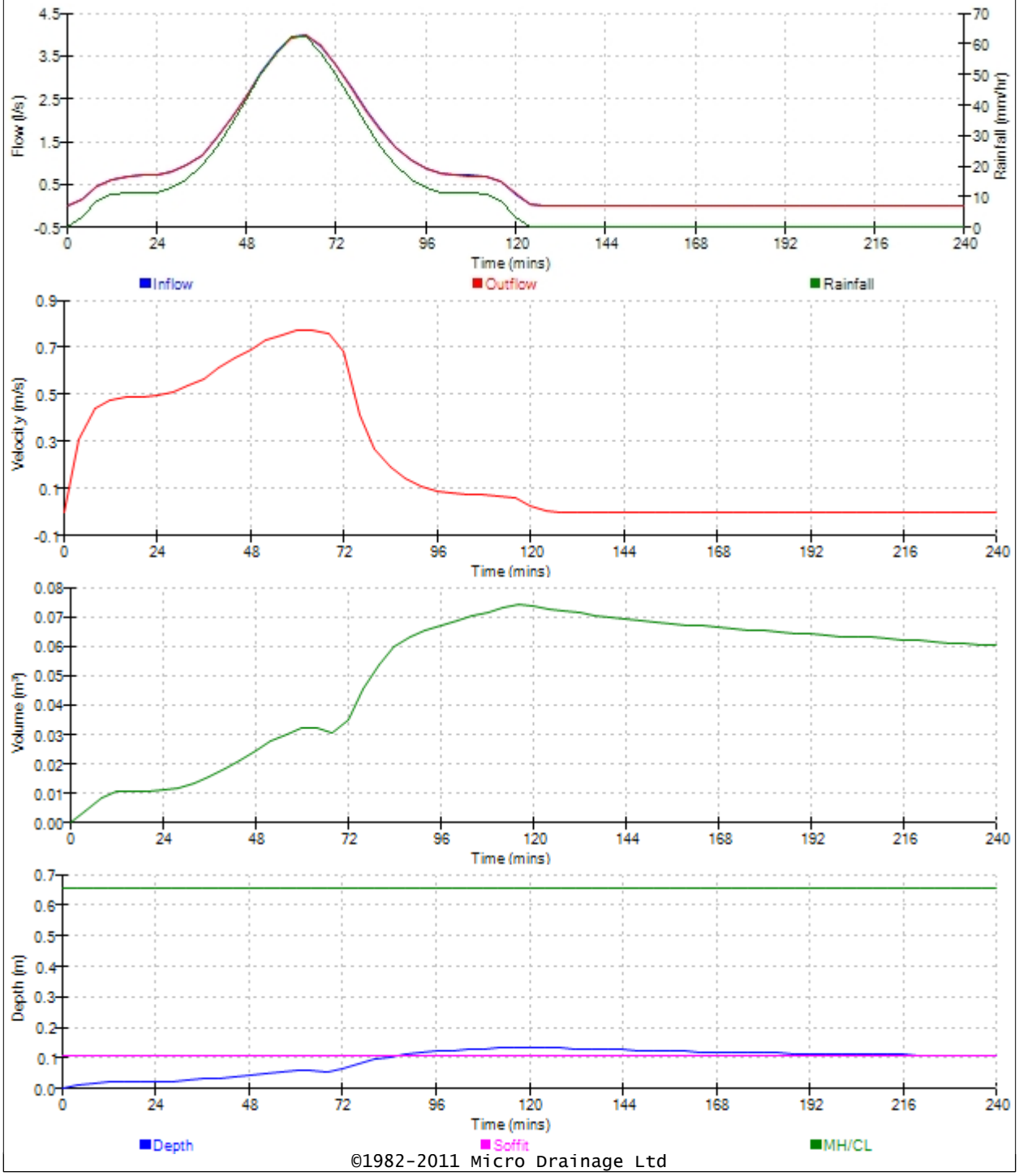
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Graphs for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Winter
Status: OK



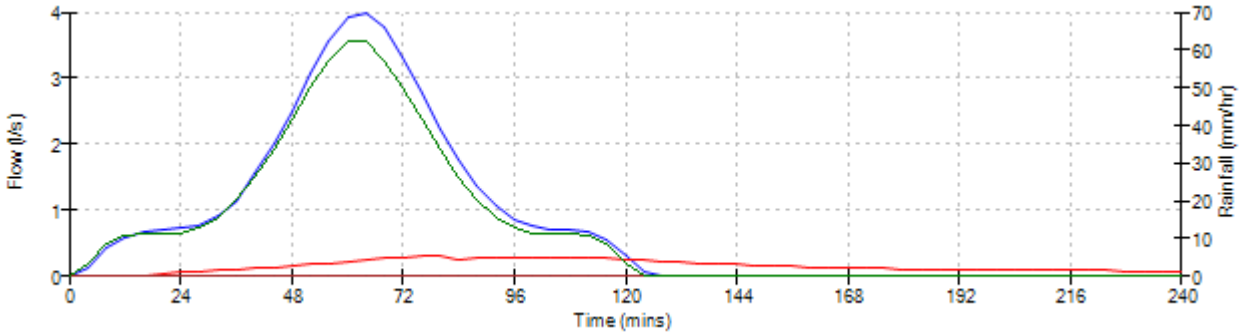
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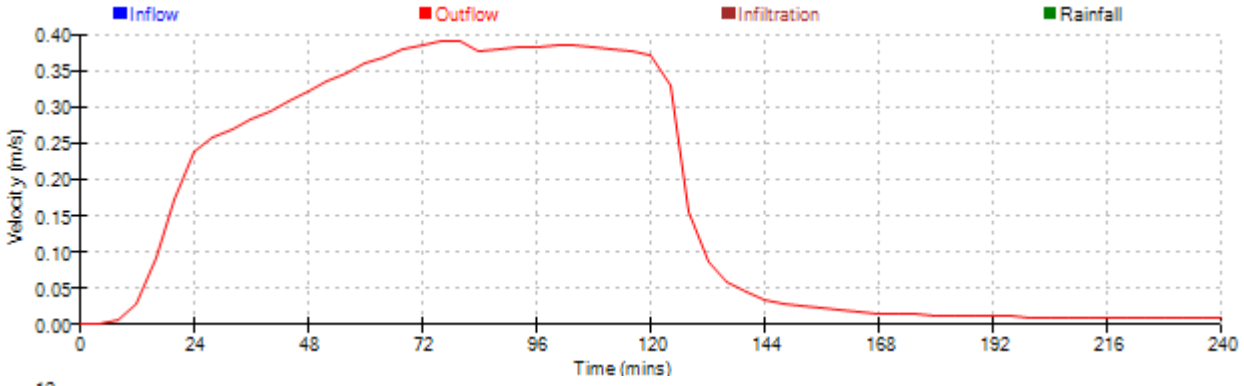
Graphs for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Winter
Status: SURCHARGED

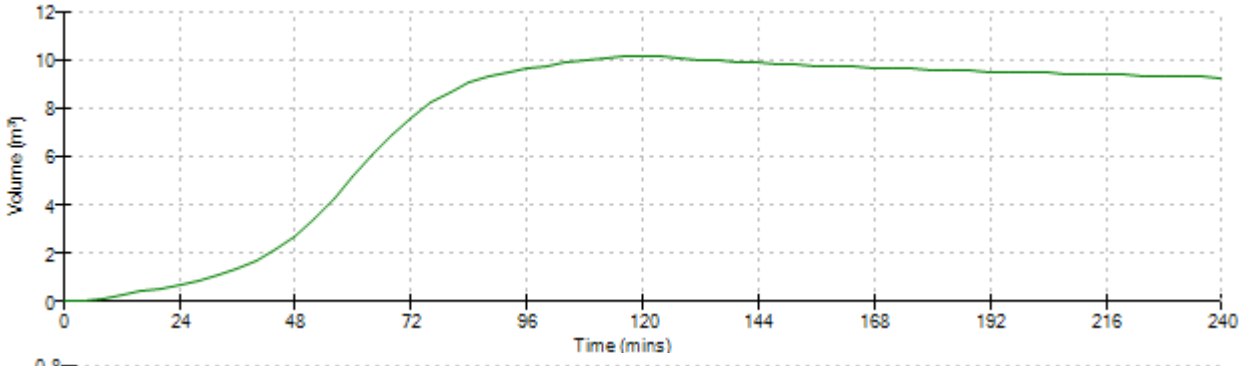


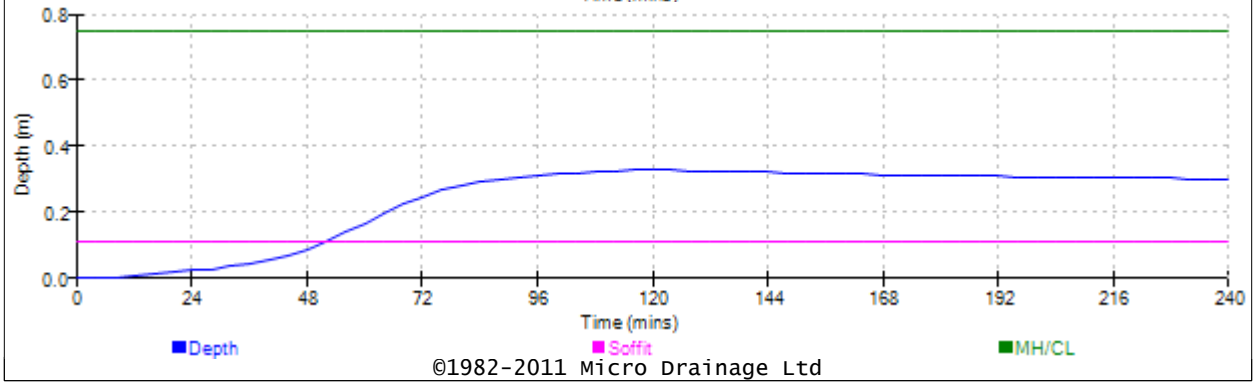
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Graphs for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Winter
Status: SURCHARGED



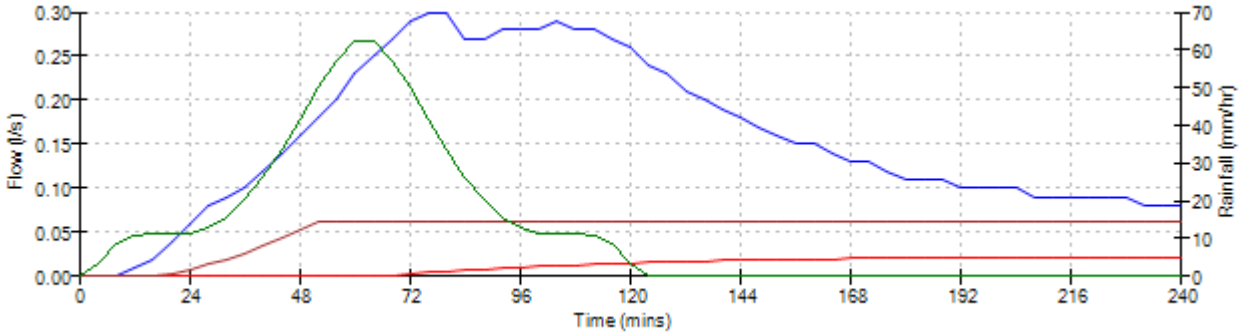


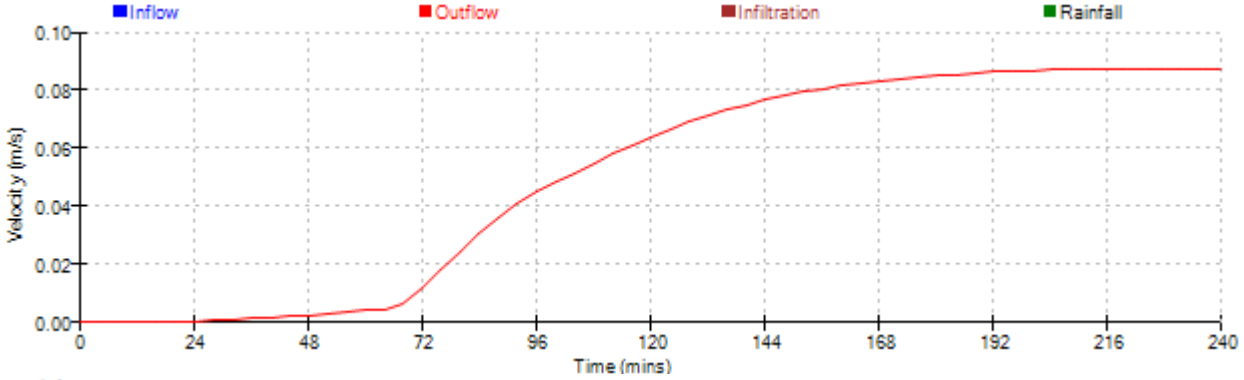


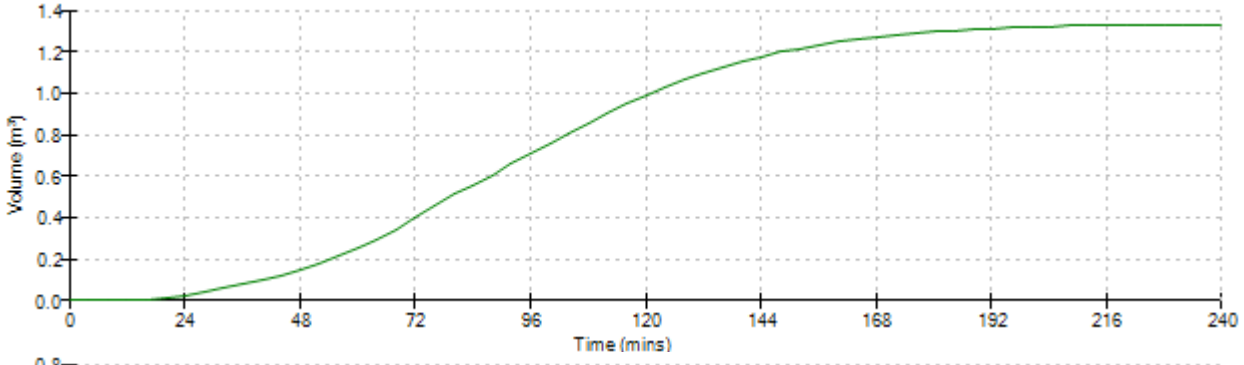


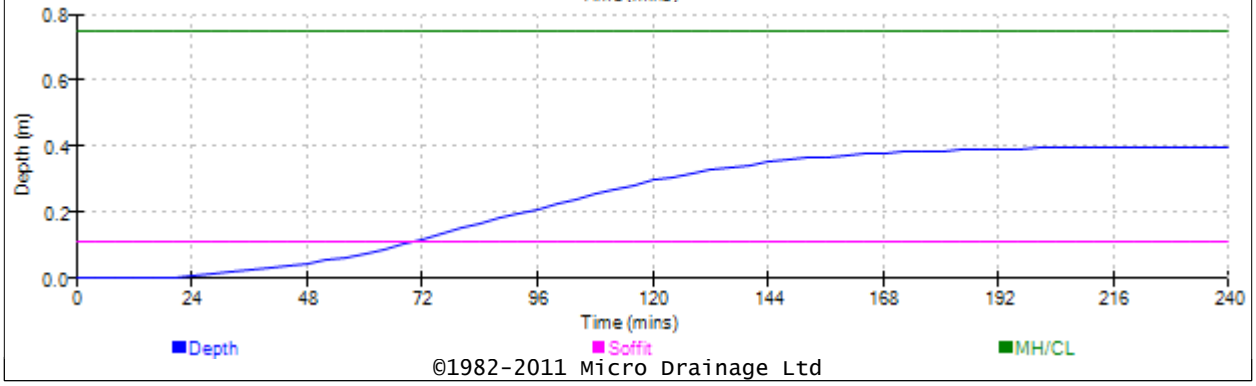
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.401	63.502	-0.109	0.0	0.2	0.0
8	65.402	63.508	-0.108	0.0	0.5	0.1
12	65.403	63.510	-0.107	0.0	0.7	0.2
16	65.404	63.510	-0.106	0.0	0.7	0.2
20	65.404	63.510	-0.106	0.0	0.7	0.2
24	65.404	63.511	-0.106	0.0	0.8	0.2
28	65.404	63.512	-0.106	0.0	0.8	0.2
32	65.405	63.514	-0.105	0.0	1.0	0.2
36	65.406	63.517	-0.104	0.0	1.3	0.3
40	65.408	63.520	-0.102	0.0	1.3	0.4
44	65.411	63.523	-0.099	0.0	1.1	0.5
48	65.412	63.527	-0.098	0.0	1.2	0.6
52	65.413	63.530	-0.097	0.0	1.3	0.8
56	65.413	63.533	-0.097	0.0	1.4	0.9
60	65.414	63.535	-0.096	0.0	1.4	1.0
64	65.414	63.535	-0.096	0.0	1.4	1.0
68	65.414	63.533	-0.096	0.0	1.4	0.9
72	65.413	63.531	-0.097	0.0	1.3	0.8
76	65.412	63.534	-0.098	0.0	1.2	0.7
80	65.411	63.544	-0.099	0.0	1.1	0.6
84	65.409	63.553	-0.101	0.0	1.2	0.5
88	65.407	63.559	-0.103	0.0	1.4	0.3
92	65.405	63.564	-0.105	0.0	1.1	0.3
96	65.404	63.568	-0.106	0.0	0.9	0.2
100	65.404	63.571	-0.106	0.0	0.8	0.2
104	65.404	63.574	-0.106	0.0	0.7	0.2
108	65.404	63.577	-0.106	0.0	0.7	0.2
112	65.404	63.580	-0.106	0.0	0.7	0.2
116	65.403	63.582	-0.107	0.0	0.6	0.1
120	65.401	63.581	-0.109	0.0	0.3	0.1
124	65.400	63.578	-0.110	0.0	0.0	0.0
128	65.400	63.576	-0.110	0.0	0.0	0.0
132	65.400	63.575	-0.110	0.0	0.0	0.0
136	65.400	63.573	-0.110	0.0	0.0	0.0
140	65.400	63.572	-0.110	0.0	0.0	0.0
144	65.400	63.571	-0.110	0.0	0.0	0.0
148	65.400	63.569	-0.110	0.0	0.0	0.0
152	65.400	63.568	-0.110	0.0	0.0	0.0
156	65.400	63.567	-0.110	0.0	0.0	0.0
160	65.400	63.566	-0.110	0.0	0.0	0.0
164	65.400	63.565	-0.110	0.0	0.0	0.0
168	65.400	63.564	-0.110	0.0	0.0	0.0
172	65.400	63.563	-0.110	0.0	0.0	0.0
176	65.400	63.562	-0.110	0.0	0.0	0.0
180	65.400	63.561	-0.110	0.0	0.0	0.0
184	65.400	63.561	-0.110	0.0	0.0	0.0
188	65.400	63.560	-0.110	0.0	0.0	0.0
192	65.400	63.559	-0.110	0.0	0.0	0.0
196	65.400	63.558	-0.110	0.0	0.0	0.0
200	65.400	63.557	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.400	63.556	-0.110	0.0	0.0	0.0
208	65.400	63.556	-0.110	0.0	0.0	0.0
212	65.400	63.555	-0.110	0.0	0.0	0.0
216	65.400	63.555	-0.110	0.0	0.0	0.0
220	65.400	63.554	-0.110	0.0	0.0	0.0
224	65.400	63.553	-0.110	0.0	0.0	0.0
228	65.400	63.552	-0.110	0.0	0.0	0.0
232	65.400	63.552	-0.110	0.0	0.0	0.0
236	65.400	63.551	-0.110	0.0	0.0	0.0
240	65.400	63.550	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.502	63.456	-0.102	0.0	0.3	0.1
8	63.508	63.463	-0.096	0.0	0.4	0.2
12	63.510	63.467	-0.094	0.0	0.4	0.3
16	63.510	63.467	-0.094	0.0	0.4	0.4
20	63.510	63.467	-0.094	0.0	0.4	0.4
24	63.511	63.468	-0.093	0.0	0.4	0.4
28	63.512	63.469	-0.092	0.0	0.4	0.4
32	63.514	63.471	-0.090	0.0	0.4	0.5
36	63.517	63.475	-0.087	0.0	0.4	0.6
40	63.520	63.480	-0.084	0.0	0.5	0.8
44	63.523	63.485	-0.081	0.0	0.5	1.0
48	63.527	63.490	-0.077	0.0	0.5	1.3
52	63.530	63.495	-0.074	0.0	0.6	1.6
56	63.533	63.500	-0.071	0.0	0.6	1.8
60	63.535	63.503	-0.069	0.0	0.6	2.0
64	63.535	63.503	-0.069	0.0	0.6	2.0
68	63.533	63.500	-0.071	0.0	0.6	1.9
72	63.531	63.508	-0.073	0.0	0.6	1.6
76	63.534	63.525	-0.070	0.0	0.5	1.4
80	63.544	63.539	-0.061	0.0	0.3	1.1
84	63.553	63.549	-0.051	0.0	0.2	0.9
88	63.559	63.556	-0.045	0.0	0.1	0.7
92	63.564	63.562	-0.040	0.0	0.1	0.5
96	63.568	63.566	-0.037	0.0	0.1	0.4
100	63.571	63.569	-0.033	0.0	0.1	0.4
104	63.574	63.572	-0.030	0.0	0.0	0.4
108	63.577	63.576	-0.027	0.0	0.0	0.4
112	63.580	63.579	-0.024	0.0	0.0	0.3
116	63.582	63.581	-0.022	0.0	0.0	0.3
120	63.581	63.580	-0.023	0.0	0.0	0.1
124	63.578	63.578	-0.026	0.0	0.0	0.0
128	63.576	63.576	-0.028	0.0	0.0	0.0
132	63.575	63.575	-0.029	0.0	0.0	0.0
136	63.573	63.573	-0.031	0.0	0.0	0.0
140	63.572	63.572	-0.032	0.0	0.0	0.0
144	63.571	63.571	-0.033	0.0	0.0	0.0
148	63.569	63.569	-0.035	0.0	0.0	0.0
152	63.568	63.568	-0.036	0.0	0.0	0.0
156	63.567	63.567	-0.037	0.0	0.0	0.0
160	63.566	63.566	-0.038	0.0	0.0	0.0
164	63.565	63.565	-0.039	0.0	0.0	0.0
168	63.564	63.564	-0.040	0.0	0.0	0.0
172	63.563	63.563	-0.041	0.0	0.0	0.0
176	63.562	63.562	-0.042	0.0	0.0	0.0
180	63.561	63.561	-0.043	0.0	0.0	0.0
184	63.561	63.561	-0.043	0.0	0.0	0.0
188	63.560	63.560	-0.044	0.0	0.0	0.0
192	63.559	63.559	-0.046	0.0	0.0	0.0
196	63.558	63.558	-0.046	0.0	0.0	0.0
200	63.557	63.557	-0.047	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.556	63.557	-0.048	0.0	0.0	0.0
208	63.556	63.556	-0.048	0.0	0.0	0.0
212	63.555	63.555	-0.049	0.0	0.0	0.0
216	63.555	63.555	-0.049	0.0	0.0	0.0
220	63.554	63.554	-0.050	0.0	0.0	0.0
224	63.553	63.553	-0.051	0.0	0.0	0.0
228	63.552	63.553	-0.052	0.0	0.0	0.0
232	63.552	63.552	-0.052	0.0	0.0	0.0
236	63.551	63.551	-0.053	0.0	0.0	0.0
240	63.550	63.551	-0.054	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.401	65.002	-0.109	0.0	0.2	0.0
8	65.403	65.005	-0.107	0.0	0.5	0.1
12	65.404	65.006	-0.106	0.0	0.7	0.2
16	65.404	65.006	-0.106	0.0	0.7	0.2
20	65.405	65.006	-0.105	0.0	0.7	0.2
24	65.405	65.007	-0.105	0.0	0.8	0.2
28	65.405	65.007	-0.105	0.0	0.8	0.2
32	65.406	65.009	-0.104	0.0	1.0	0.2
36	65.408	65.011	-0.102	0.0	1.0	0.3
40	65.410	65.012	-0.100	0.0	0.9	0.4
44	65.412	65.013	-0.098	0.0	1.0	0.5
48	65.413	65.015	-0.097	0.0	1.1	0.6
52	65.414	65.016	-0.096	0.0	1.1	0.8
56	65.415	65.018	-0.095	0.0	1.2	0.9
60	65.415	65.019	-0.095	0.0	1.2	1.0
64	65.415	65.019	-0.095	0.0	1.2	1.0
68	65.415	65.018	-0.095	0.0	1.2	0.9
72	65.414	65.017	-0.096	0.0	1.2	0.8
76	65.413	65.015	-0.097	0.0	1.1	0.7
80	65.412	65.014	-0.098	0.0	1.0	0.6
84	65.411	65.012	-0.099	0.0	0.9	0.4
88	65.409	65.011	-0.101	0.0	1.0	0.3
92	65.407	65.009	-0.103	0.0	1.1	0.3
96	65.405	65.008	-0.105	0.0	0.9	0.2
100	65.405	65.007	-0.105	0.0	0.8	0.2
104	65.405	65.006	-0.105	0.0	0.7	0.2
108	65.405	65.006	-0.105	0.0	0.7	0.2
112	65.404	65.006	-0.106	0.0	0.7	0.2
116	65.404	65.005	-0.106	0.0	0.6	0.1
120	65.402	65.002	-0.108	0.0	0.3	0.1
124	65.400	65.000	-0.110	0.0	0.0	0.0
128	65.400	65.000	-0.110	0.0	0.0	0.0
132	65.400	65.000	-0.110	0.0	0.0	0.0
136	65.400	65.000	-0.110	0.0	0.0	0.0
140	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
148	65.400	65.000	-0.110	0.0	0.0	0.0
152	65.400	65.000	-0.110	0.0	0.0	0.0
156	65.400	65.000	-0.110	0.0	0.0	0.0
160	65.400	65.000	-0.110	0.0	0.0	0.0
164	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
172	65.400	65.000	-0.110	0.0	0.0	0.0
176	65.400	65.000	-0.110	0.0	0.0	0.0
180	65.400	65.000	-0.110	0.0	0.0	0.0
184	65.400	65.000	-0.110	0.0	0.0	0.0
188	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
196	65.400	65.000	-0.110	0.0	0.0	0.0
200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.400	65.000	-0.110	0.0	0.0	0.0
208	65.400	65.000	-0.110	0.0	0.0	0.0
212	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
220	65.400	65.000	-0.110	0.0	0.0	0.0
224	65.400	65.000	-0.110	0.0	0.0	0.0
228	65.400	65.000	-0.110	0.0	0.0	0.0
232	65.400	65.000	-0.110	0.0	0.0	0.0
236	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.002	63.456	-0.108	0.0	0.4	0.1
8	65.005	63.463	-0.105	0.0	1.0	0.2
12	65.006	63.467	-0.104	0.0	1.3	0.3
16	65.006	63.467	-0.104	0.0	1.5	0.4
20	65.006	63.467	-0.104	0.0	1.5	0.4
24	65.007	63.468	-0.103	0.0	1.5	0.4
28	65.007	63.469	-0.103	0.0	1.5	0.4
32	65.009	63.471	-0.101	0.0	1.4	0.5
36	65.011	63.475	-0.099	0.0	1.3	0.6
40	65.012	63.480	-0.098	0.0	1.4	0.8
44	65.013	63.485	-0.097	0.0	1.6	1.0
48	65.015	63.490	-0.095	0.0	1.7	1.3
52	65.016	63.495	-0.094	0.0	1.8	1.6
56	65.018	63.500	-0.092	0.0	1.8	1.8
60	65.019	63.503	-0.091	0.0	1.9	2.0
64	65.019	63.503	-0.091	0.0	1.9	2.0
68	65.018	63.500	-0.092	0.0	1.9	1.9
72	65.017	63.508	-0.093	0.0	1.8	1.6
76	65.015	63.525	-0.095	0.0	1.7	1.4
80	65.014	63.539	-0.096	0.0	1.6	1.1
84	65.012	63.549	-0.098	0.0	1.5	0.9
88	65.011	63.556	-0.099	0.0	1.3	0.7
92	65.009	63.562	-0.101	0.0	1.4	0.5
96	65.008	63.566	-0.102	0.0	1.5	0.4
100	65.007	63.569	-0.103	0.0	1.6	0.4
104	65.006	63.572	-0.104	0.0	1.5	0.4
108	65.006	63.576	-0.104	0.0	1.5	0.4
112	65.006	63.579	-0.104	0.0	1.4	0.3
116	65.005	63.581	-0.105	0.0	1.2	0.3
120	65.002	63.580	-0.108	0.0	0.5	0.1
124	65.000	63.578	-0.110	0.0	0.1	0.0
128	65.000	63.576	-0.110	0.0	0.0	0.0
132	65.000	63.575	-0.110	0.0	0.0	0.0
136	65.000	63.573	-0.110	0.0	0.0	0.0
140	65.000	63.572	-0.110	0.0	0.0	0.0
144	65.000	63.571	-0.110	0.0	0.0	0.0
148	65.000	63.569	-0.110	0.0	0.0	0.0
152	65.000	63.568	-0.110	0.0	0.0	0.0
156	65.000	63.567	-0.110	0.0	0.0	0.0
160	65.000	63.566	-0.110	0.0	0.0	0.0
164	65.000	63.565	-0.110	0.0	0.0	0.0
168	65.000	63.564	-0.110	0.0	0.0	0.0
172	65.000	63.563	-0.110	0.0	0.0	0.0
176	65.000	63.562	-0.110	0.0	0.0	0.0
180	65.000	63.561	-0.110	0.0	0.0	0.0
184	65.000	63.561	-0.110	0.0	0.0	0.0
188	65.000	63.560	-0.110	0.0	0.0	0.0
192	65.000	63.559	-0.110	0.0	0.0	0.0
196	65.000	63.558	-0.110	0.0	0.0	0.0
200	65.000	63.557	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.000	63.557	-0.110	0.0	0.0	0.0
208	65.000	63.556	-0.110	0.0	0.0	0.0
212	65.000	63.555	-0.110	0.0	0.0	0.0
216	65.000	63.555	-0.110	0.0	0.0	0.0
220	65.000	63.554	-0.110	0.0	0.0	0.0
224	65.000	63.553	-0.110	0.0	0.0	0.0
228	65.000	63.553	-0.110	0.0	0.0	0.0
232	65.000	63.552	-0.110	0.0	0.0	0.0
236	65.000	63.551	-0.110	0.0	0.0	0.0
240	65.000	63.551	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.456	63.251	-0.098	0.0	0.3	0.2
8	63.463	63.254	-0.091	0.0	0.4	0.4
12	63.467	63.258	-0.087	0.0	0.5	0.6
16	63.467	63.263	-0.087	0.0	0.5	0.7
20	63.467	63.268	-0.087	0.0	0.5	0.7
24	63.468	63.274	-0.086	0.0	0.5	0.7
28	63.469	63.279	-0.085	0.0	0.5	0.8
32	63.471	63.285	-0.083	0.0	0.5	0.9
36	63.475	63.293	-0.079	0.0	0.6	1.2
40	63.480	63.306	-0.074	0.0	0.6	1.6
44	63.485	63.320	-0.069	0.0	0.7	2.0
48	63.490	63.339	-0.064	0.0	0.7	2.5
52	63.495	63.363	-0.059	0.0	0.7	3.1
56	63.500	63.389	-0.054	0.0	0.8	3.6
60	63.503	63.417	-0.051	0.0	0.8	3.9
64	63.503	63.447	-0.051	0.0	0.8	4.0
68	63.500	63.474	-0.054	0.0	0.8	3.8
72	63.508	63.497	-0.046	0.0	0.7	3.3
76	63.525	63.517	-0.029	0.0	0.4	2.7
80	63.539	63.532	-0.015	0.0	0.3	2.2
84	63.549	63.544	-0.005	0.0	0.2	1.8
88	63.556	63.552	0.002	0.0	0.1	1.4
92	63.562	63.558	0.008	0.0	0.1	1.1
96	63.566	63.563	0.012	0.0	0.1	0.9
100	63.569	63.567	0.015	0.0	0.1	0.8
104	63.572	63.570	0.018	0.0	0.1	0.7
108	63.576	63.573	0.022	0.0	0.1	0.7
112	63.579	63.577	0.025	0.0	0.1	0.7
116	63.581	63.579	0.027	0.0	0.1	0.6
120	63.580	63.579	0.026	0.0	0.0	0.3
124	63.578	63.578	0.024	0.0	0.0	0.1
128	63.576	63.576	0.022	0.0	0.0	0.0
132	63.575	63.575	0.021	0.0	0.0	0.0
136	63.573	63.573	0.019	0.0	0.0	0.0
140	63.572	63.572	0.018	0.0	0.0	0.0
144	63.571	63.571	0.017	0.0	0.0	0.0
148	63.569	63.569	0.015	0.0	0.0	0.0
152	63.568	63.568	0.014	0.0	0.0	0.0
156	63.567	63.567	0.013	0.0	0.0	0.0
160	63.566	63.566	0.012	0.0	0.0	0.0
164	63.565	63.565	0.011	0.0	0.0	0.0
168	63.564	63.564	0.010	0.0	0.0	0.0
172	63.563	63.563	0.009	0.0	0.0	0.0
176	63.562	63.562	0.008	0.0	0.0	0.0
180	63.561	63.561	0.007	0.0	0.0	0.0
184	63.561	63.561	0.007	0.0	0.0	0.0
188	63.560	63.560	0.006	0.0	0.0	0.0
192	63.559	63.559	0.005	0.0	0.0	0.0
196	63.558	63.558	0.004	0.0	0.0	0.0
200	63.557	63.558	0.003	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.557	63.557	0.003	0.0	0.0	0.0
208	63.556	63.556	0.002	0.0	0.0	0.0
212	63.555	63.556	0.001	0.0	0.0	0.0
216	63.555	63.555	0.001	0.0	0.0	0.0
220	63.554	63.554	0.000	0.0	0.0	0.0
224	63.553	63.554	-0.001	0.0	0.0	0.0
228	63.553	63.553	-0.002	0.0	0.0	0.0
232	63.552	63.552	-0.002	0.0	0.0	0.0
236	63.551	63.552	-0.003	0.0	0.0	0.0
240	63.551	63.551	-0.004	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.251	63.100	-0.109	0.0	0.0	0.0
8	63.254	63.100	-0.106	0.0	0.0	0.0
12	63.258	63.100	-0.102	0.0	0.0	0.0
16	63.263	63.102	-0.097	0.0	0.1	0.0
20	63.268	63.104	-0.092	0.0	0.2	0.0
24	63.274	63.108	-0.086	0.0	0.2	0.1
28	63.279	63.113	-0.081	0.0	0.3	0.1
32	63.285	63.118	-0.075	0.0	0.3	0.1
36	63.293	63.123	-0.067	0.0	0.3	0.1
40	63.306	63.130	-0.054	0.0	0.3	0.1
44	63.320	63.137	-0.040	0.0	0.3	0.1
48	63.339	63.145	-0.021	0.0	0.3	0.2
52	63.363	63.154	0.003	0.0	0.3	0.2
56	63.389	63.164	0.029	0.0	0.3	0.2
60	63.417	63.176	0.057	0.0	0.4	0.2
64	63.447	63.189	0.087	0.0	0.4	0.3
68	63.474	63.204	0.114	0.0	0.4	0.3
72	63.497	63.220	0.137	0.0	0.4	0.3
76	63.517	63.236	0.157	0.0	0.4	0.3
80	63.532	63.253	0.172	0.0	0.4	0.3
84	63.544	63.267	0.184	0.0	0.4	0.3
88	63.552	63.282	0.192	0.0	0.4	0.3
92	63.558	63.296	0.198	0.0	0.4	0.3
96	63.563	63.311	0.203	0.0	0.4	0.3
100	63.567	63.326	0.207	0.0	0.4	0.3
104	63.570	63.341	0.210	0.0	0.4	0.3
108	63.573	63.356	0.213	0.0	0.4	0.3
112	63.577	63.370	0.217	0.0	0.4	0.3
116	63.579	63.384	0.219	0.0	0.4	0.3
120	63.579	63.397	0.219	0.0	0.4	0.3
124	63.578	63.408	0.218	0.0	0.3	0.2
128	63.576	63.419	0.216	0.0	0.2	0.2
132	63.575	63.428	0.215	0.0	0.1	0.2
136	63.573	63.437	0.213	0.0	0.1	0.2
140	63.572	63.444	0.212	0.0	0.0	0.2
144	63.571	63.451	0.211	0.0	0.0	0.2
148	63.569	63.457	0.209	0.0	0.0	0.2
152	63.568	63.463	0.208	0.0	0.0	0.2
156	63.567	63.468	0.207	0.0	0.0	0.2
160	63.566	63.473	0.206	0.0	0.0	0.1
164	63.565	63.477	0.205	0.0	0.0	0.1
168	63.564	63.479	0.204	0.0	0.0	0.1
172	63.563	63.482	0.203	0.0	0.0	0.1
176	63.562	63.485	0.202	0.0	0.0	0.1
180	63.561	63.487	0.201	0.0	0.0	0.1
184	63.561	63.489	0.201	0.0	0.0	0.1
188	63.560	63.490	0.200	0.0	0.0	0.1
192	63.559	63.492	0.199	0.0	0.0	0.1
196	63.558	63.493	0.198	0.0	0.0	0.1
200	63.558	63.494	0.198	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.557	63.495	0.197	0.0	0.0	0.1
208	63.556	63.496	0.196	0.0	0.0	0.1
212	63.556	63.496	0.196	0.0	0.0	0.1
216	63.555	63.496	0.195	0.0	0.0	0.1
220	63.554	63.497	0.194	0.0	0.0	0.1
224	63.554	63.497	0.194	0.0	0.0	0.1
228	63.553	63.497	0.193	0.0	0.0	0.1
232	63.552	63.497	0.192	0.0	0.0	0.1
236	63.552	63.497	0.192	0.0	0.0	0.1
240	63.551	63.497	0.191	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
16	63.102	63.096	-0.108	0.0	0.0	0.0
20	63.104	63.096	-0.106	0.0	0.0	0.0
24	63.108	63.096	-0.102	0.0	0.0	0.0
28	63.113	63.096	-0.097	0.0	0.0	0.0
32	63.118	63.096	-0.092	0.0	0.0	0.0
36	63.123	63.096	-0.087	0.0	0.0	0.0
40	63.130	63.096	-0.080	0.0	0.0	0.0
44	63.137	63.096	-0.073	0.0	0.0	0.0
48	63.145	63.096	-0.065	0.0	0.0	0.0
52	63.154	63.096	-0.056	0.0	0.0	0.0
56	63.164	63.096	-0.046	0.0	0.0	0.0
60	63.176	63.096	-0.034	0.0	0.0	0.0
64	63.189	63.096	-0.021	0.0	0.0	0.0
68	63.204	63.096	-0.006	0.0	0.0	0.0
72	63.220	63.096	0.010	0.0	0.0	0.0
76	63.236	63.096	0.026	0.0	0.0	0.0
80	63.253	63.096	0.043	0.0	0.0	0.0
84	63.267	63.096	0.057	0.0	0.0	0.0
88	63.282	63.096	0.072	0.0	0.0	0.0
92	63.296	63.096	0.086	0.0	0.0	0.0
96	63.311	63.096	0.101	0.0	0.0	0.0
100	63.326	63.096	0.116	0.0	0.0	0.0
104	63.341	63.096	0.131	0.0	0.1	0.0
108	63.356	63.096	0.146	0.0	0.1	0.0
112	63.370	63.096	0.160	0.0	0.1	0.0
116	63.384	63.096	0.174	0.0	0.1	0.0
120	63.397	63.096	0.187	0.0	0.1	0.0
124	63.408	63.096	0.198	0.0	0.1	0.0
128	63.419	63.096	0.209	0.0	0.1	0.0
132	63.428	63.096	0.218	0.0	0.1	0.0
136	63.437	63.096	0.227	0.0	0.1	0.0
140	63.444	63.096	0.234	0.0	0.1	0.0
144	63.451	63.096	0.241	0.0	0.1	0.0
148	63.457	63.096	0.247	0.0	0.1	0.0
152	63.463	63.096	0.253	0.0	0.1	0.0
156	63.468	63.096	0.258	0.0	0.1	0.0
160	63.473	63.096	0.263	0.0	0.1	0.0
164	63.477	63.096	0.267	0.0	0.1	0.0
168	63.479	63.096	0.269	0.0	0.1	0.0
172	63.482	63.096	0.272	0.0	0.1	0.0
176	63.485	63.096	0.275	0.0	0.1	0.0
180	63.487	63.096	0.277	0.0	0.1	0.0
184	63.489	63.096	0.279	0.0	0.1	0.0
188	63.490	63.096	0.280	0.0	0.1	0.0
192	63.492	63.096	0.282	0.0	0.1	0.0
196	63.493	63.096	0.283	0.0	0.1	0.0
200	63.494	63.096	0.284	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
120 minute 100 year Winter
Average Rainfall Intensity 25.085 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.495	63.096	0.285	0.0	0.1	0.0
208	63.496	63.096	0.286	0.0	0.1	0.0
212	63.496	63.096	0.286	0.0	0.1	0.0
216	63.496	63.096	0.286	0.0	0.1	0.0
220	63.497	63.096	0.287	0.0	0.1	0.0
224	63.497	63.096	0.287	0.0	0.1	0.0
228	63.497	63.096	0.287	0.0	0.1	0.0
232	63.497	63.096	0.287	0.0	0.1	0.0
236	63.497	63.096	0.287	0.0	0.1	0.0
240	63.497	63.096	0.287	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	360
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	3

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	180
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 180 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.415	-0.095	0.000	0.04	0.0	1.1	OK
1.001	S1	63.607	0.003	0.000	0.34	0.0	2.3	SURCHARGED
2.000	RE2	65.416	-0.094	0.000	0.05	0.0	1.1	OK
2.001	S2	65.020	-0.090	0.000	0.08	0.0	2.3	OK
1.002	S3	63.607	0.053	0.000	0.63	0.0	4.5	SURCHARGED
1.003	S4	63.606	0.246	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.531	0.321	0.000	0.00	0.0	0.0	SURCHARGED

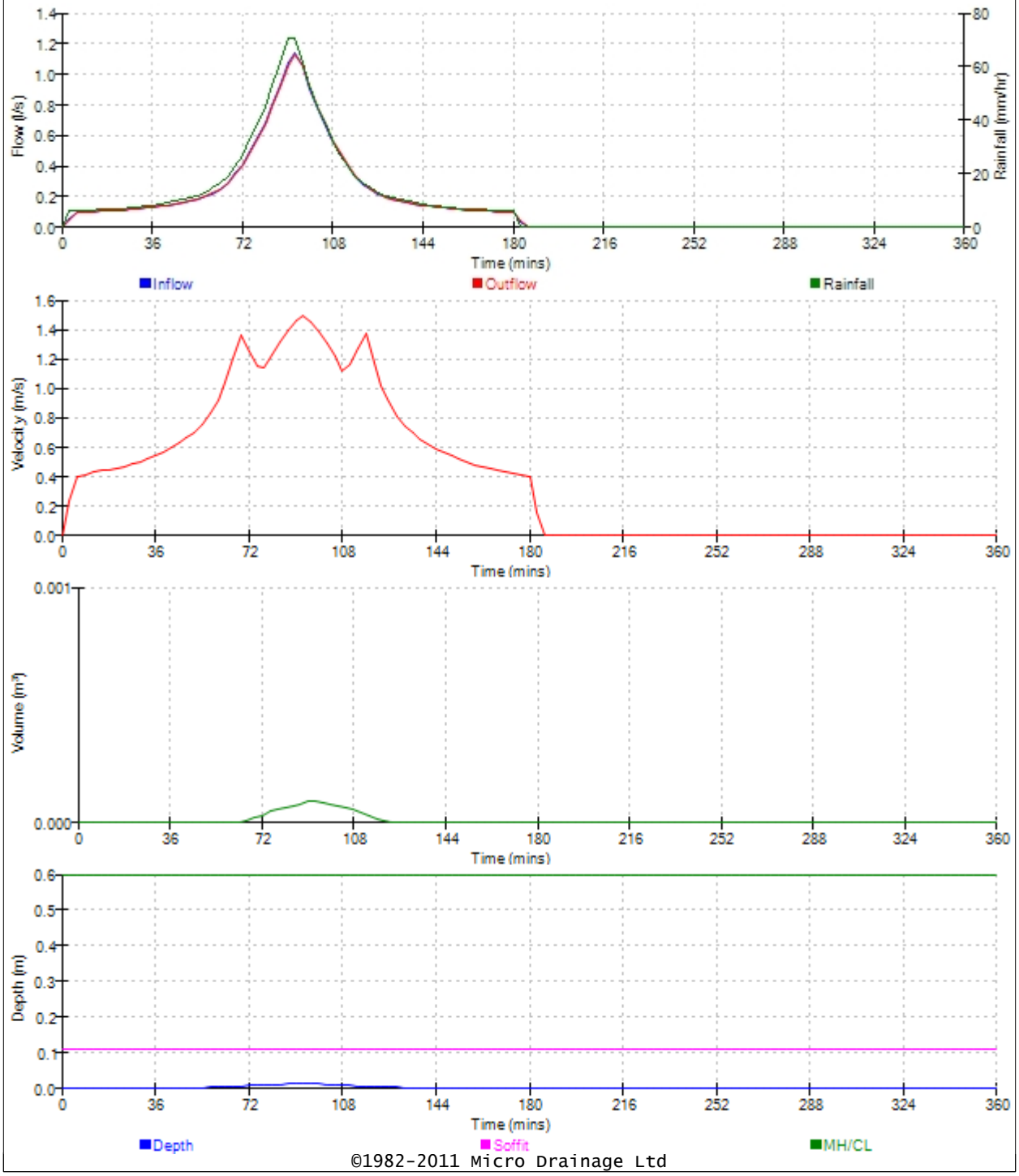
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Rainfall Hyetograph for 180 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
3	6.040	39	8.724	75	33.032	111	27.141	147	8.314
6	6.189	42	9.171	78	38.773	114	22.929	150	8.016
9	6.338	45	9.619	81	44.962	117	19.275	153	7.717
12	6.524	48	10.215	84	53.015	120	16.441	156	7.382
15	6.673	51	10.849	87	61.217	123	14.540	159	7.121
18	6.823	54	11.707	90	70.538	126	12.974	162	6.972
21	6.972	57	12.974	93	70.538	129	11.707	165	6.823
24	7.121	60	14.540	96	61.217	132	10.849	168	6.673
27	7.382	63	16.441	99	53.015	135	10.215	171	6.524
30	7.717	66	19.275	102	44.962	138	9.619	174	6.338
33	8.016	69	22.929	105	38.773	141	9.171	177	6.189
36	8.314	72	27.141	108	33.032	144	8.724	180	6.040

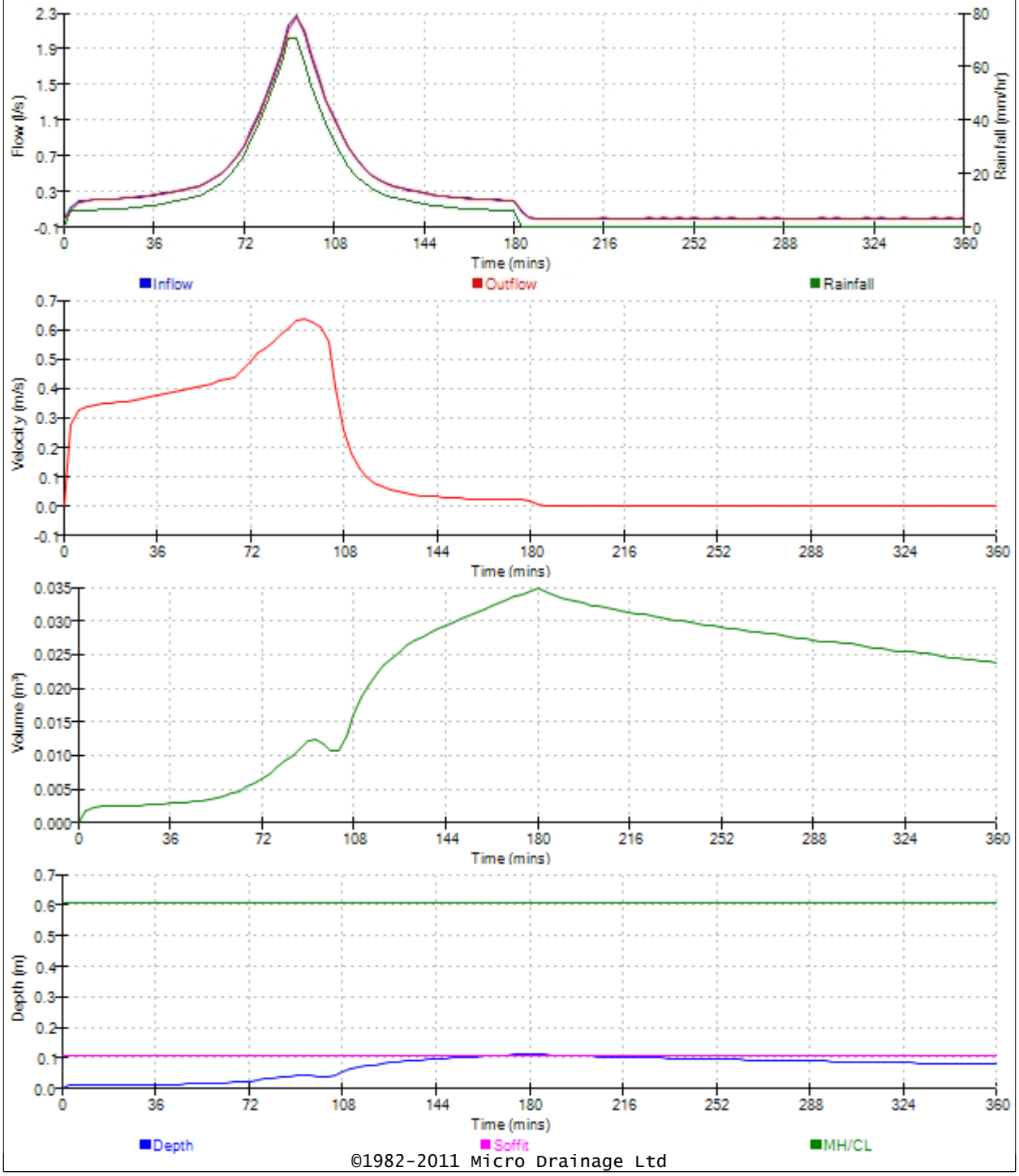
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Summer
Status: OK



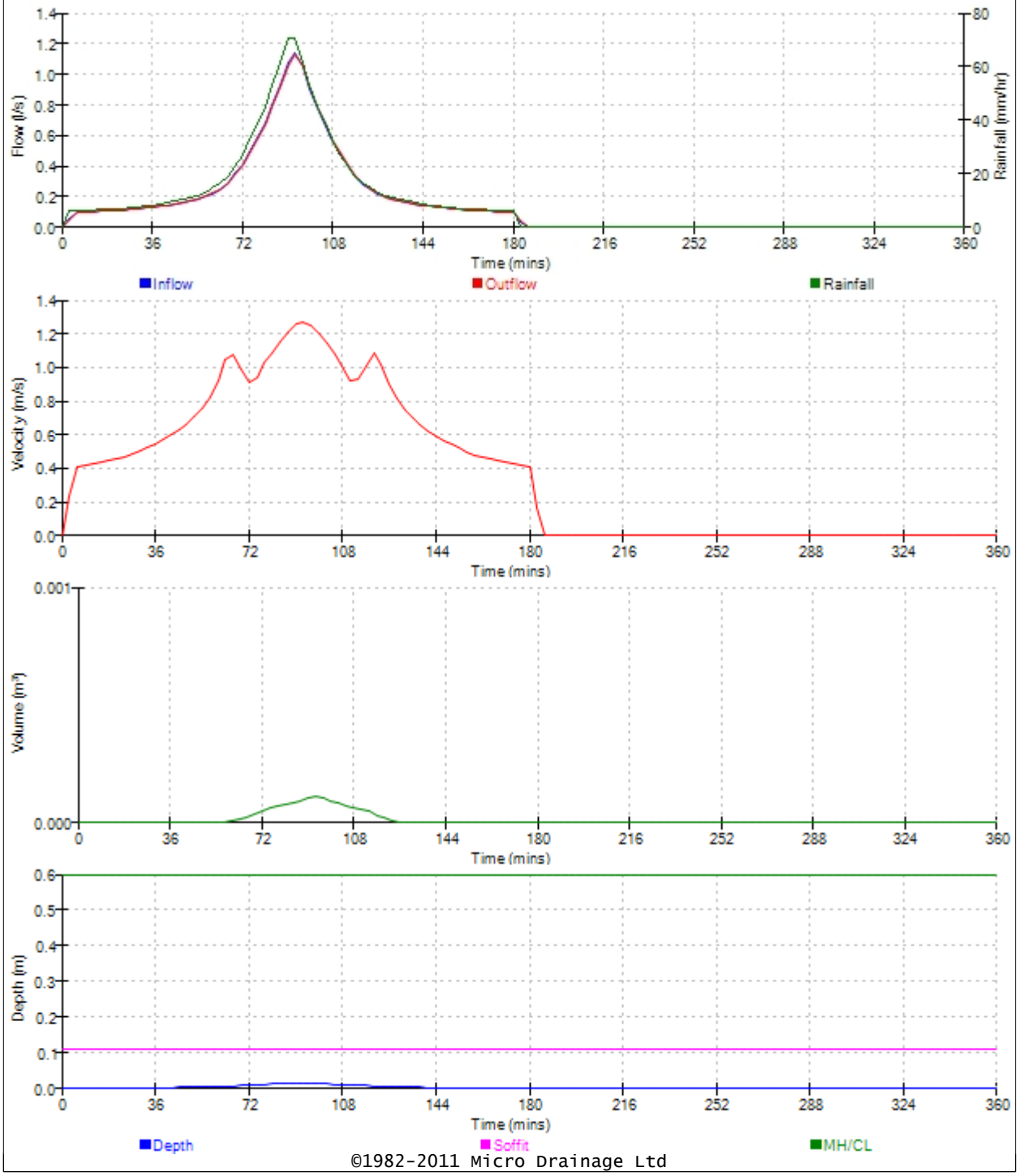
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Graphs for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Summer
Status: SURCHARGED



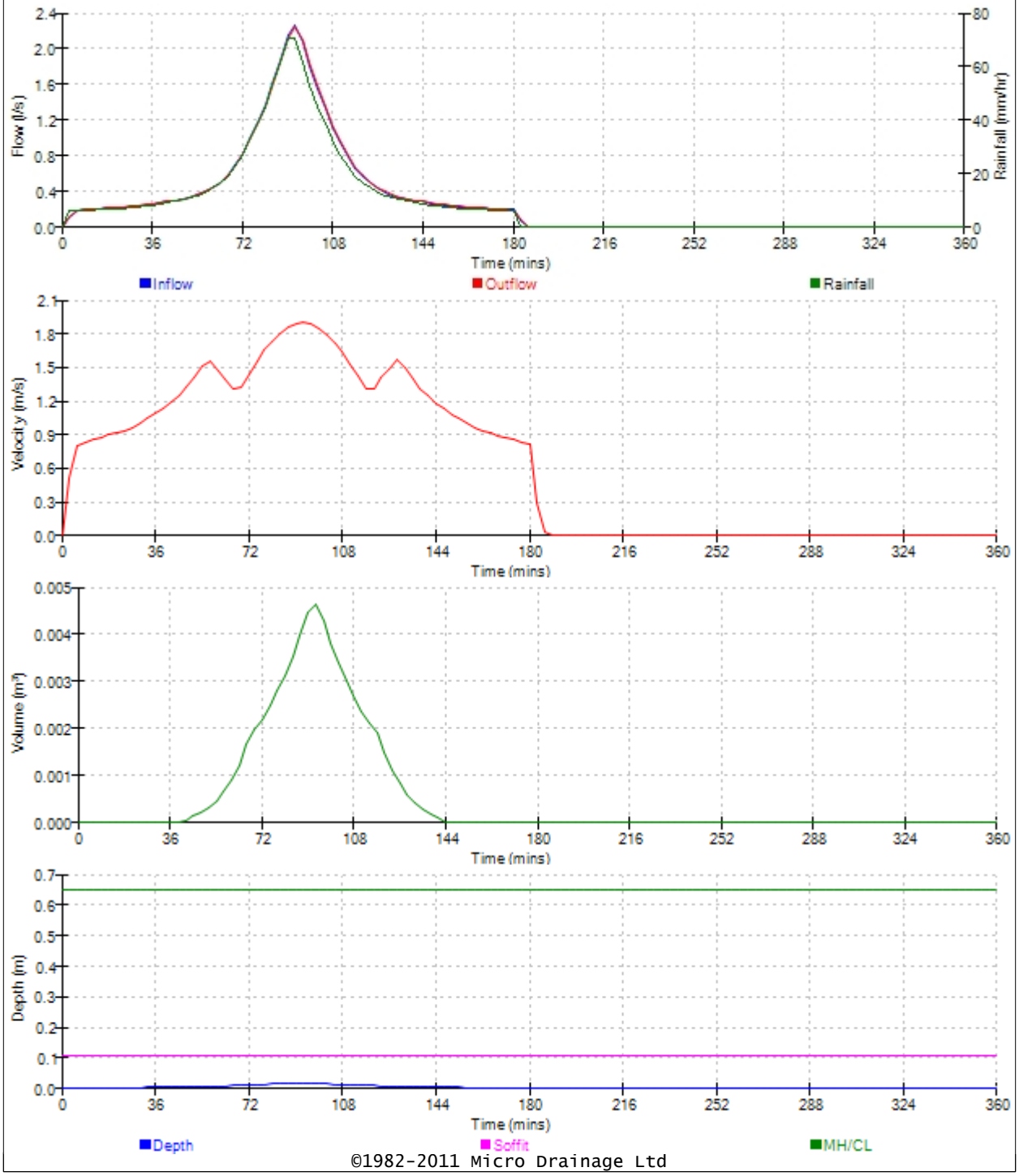
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Summer
Status: OK



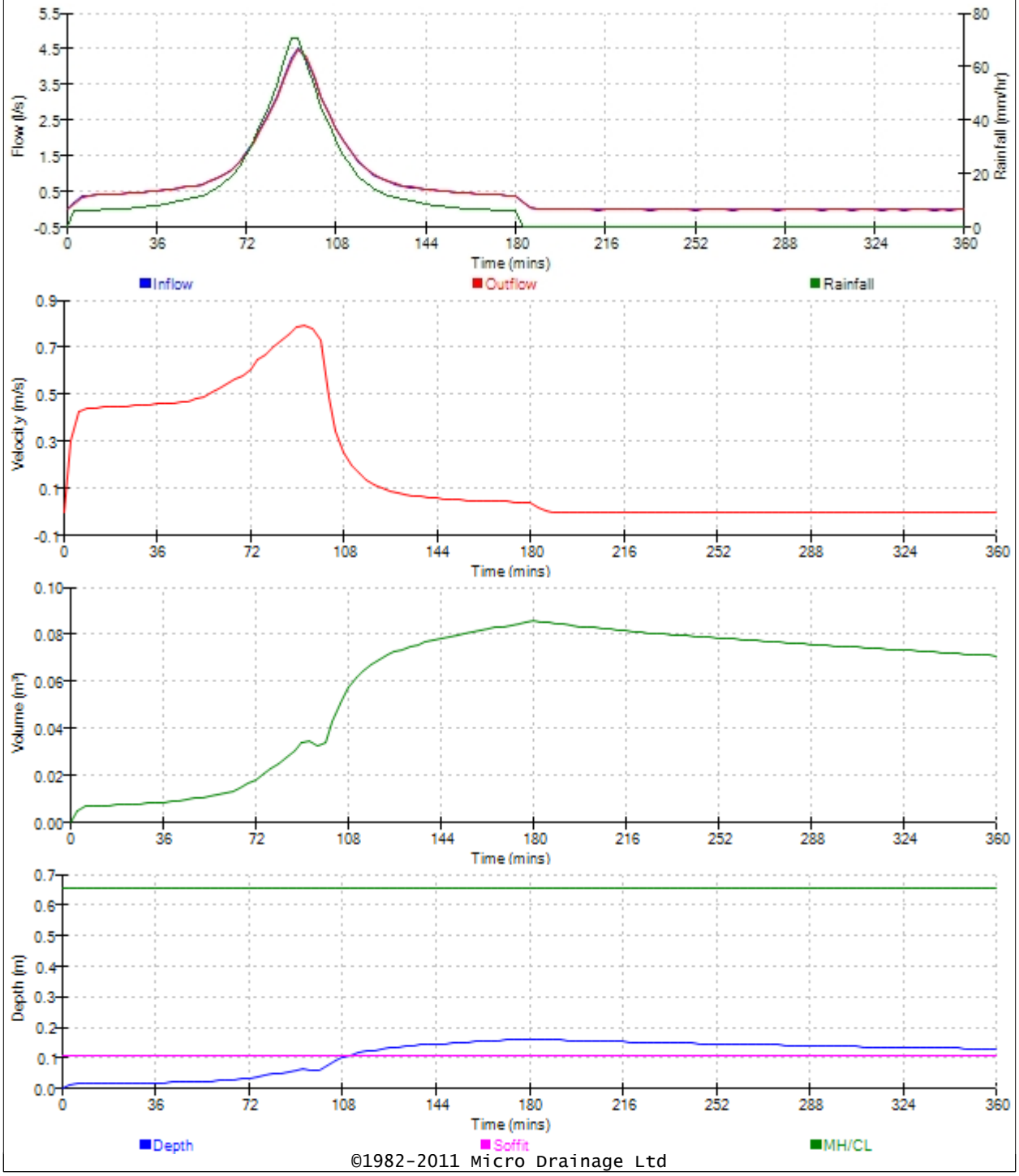
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Graphs for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Summer
Status: OK



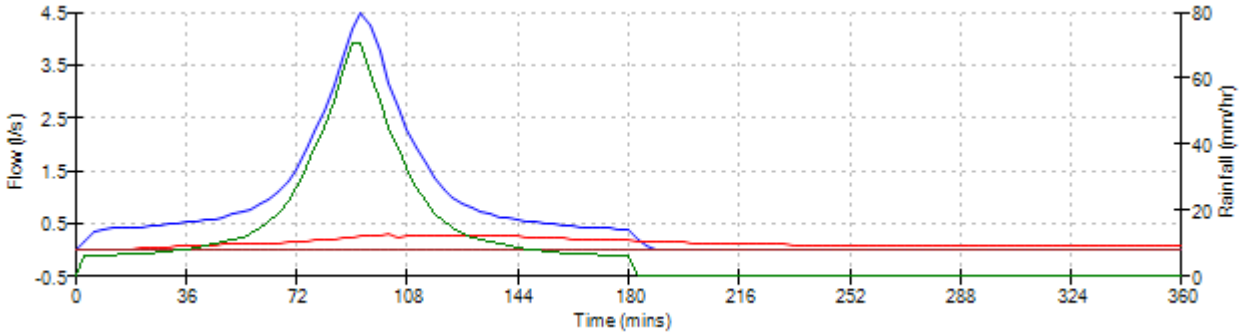
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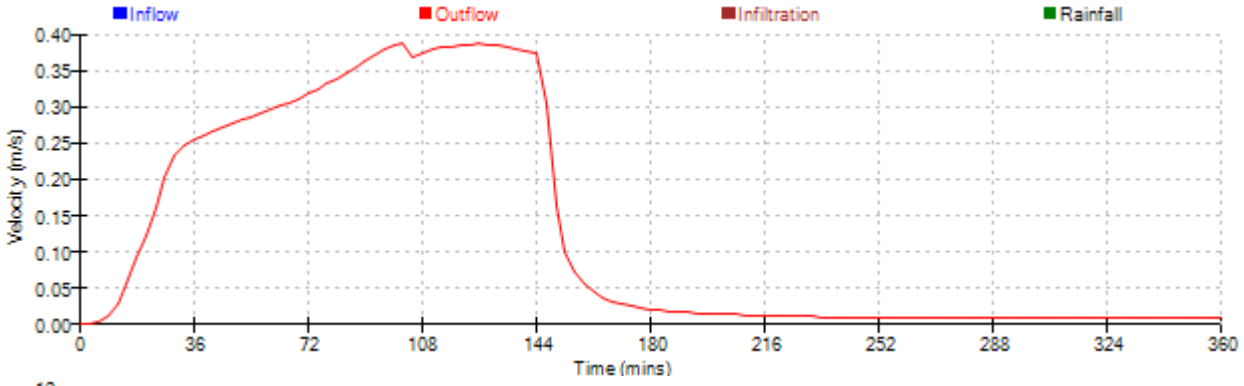
Graphs for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Summer
Status: SURCHARGED

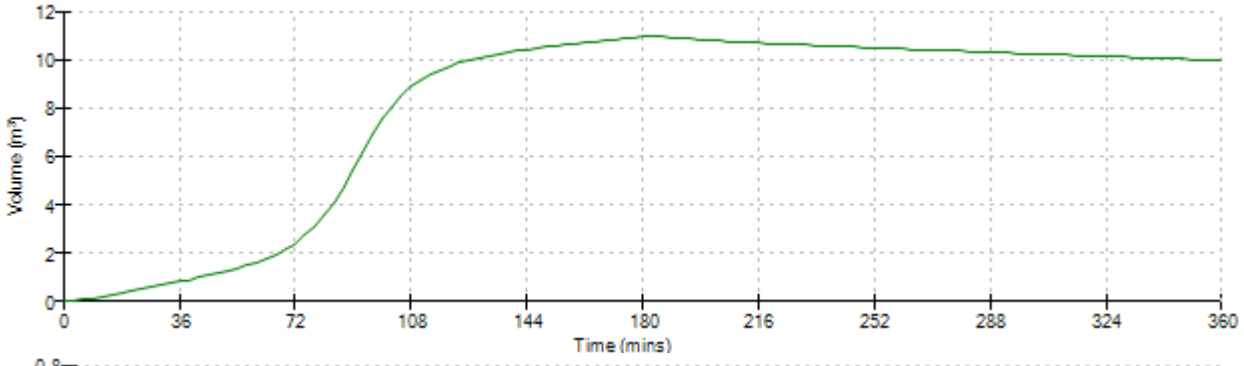


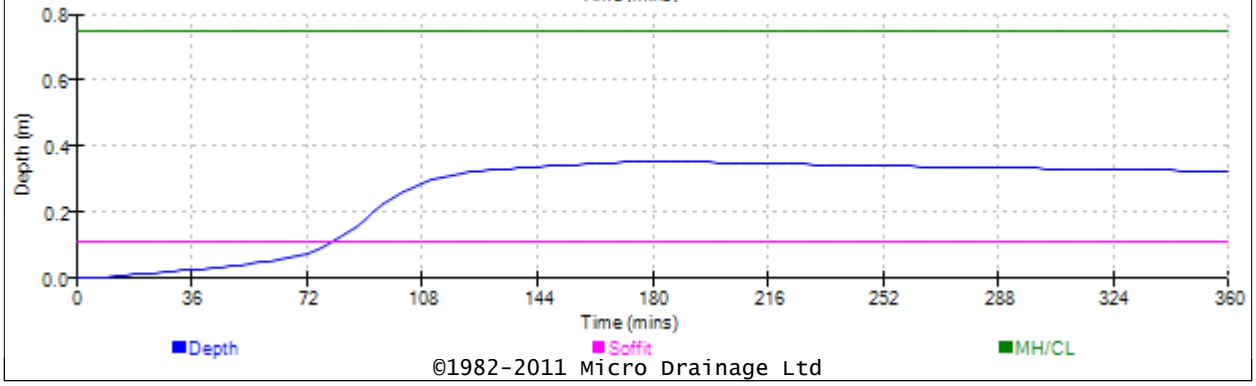
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Graphs for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Summer
Status: SURCHARGED



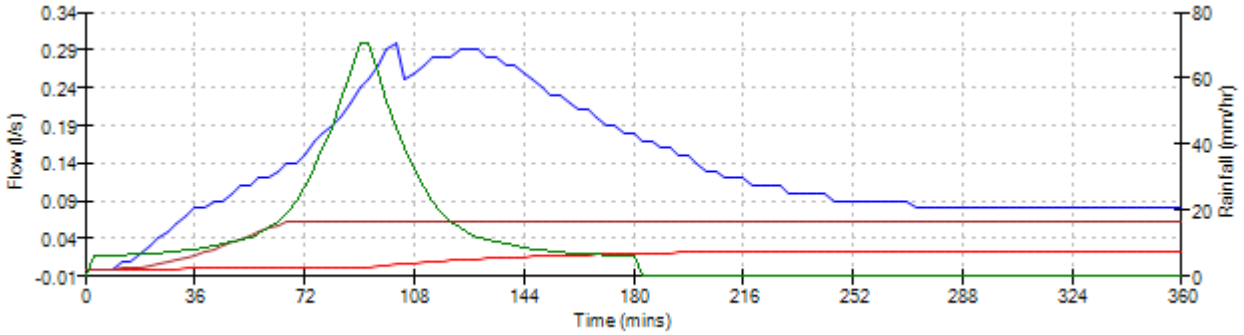


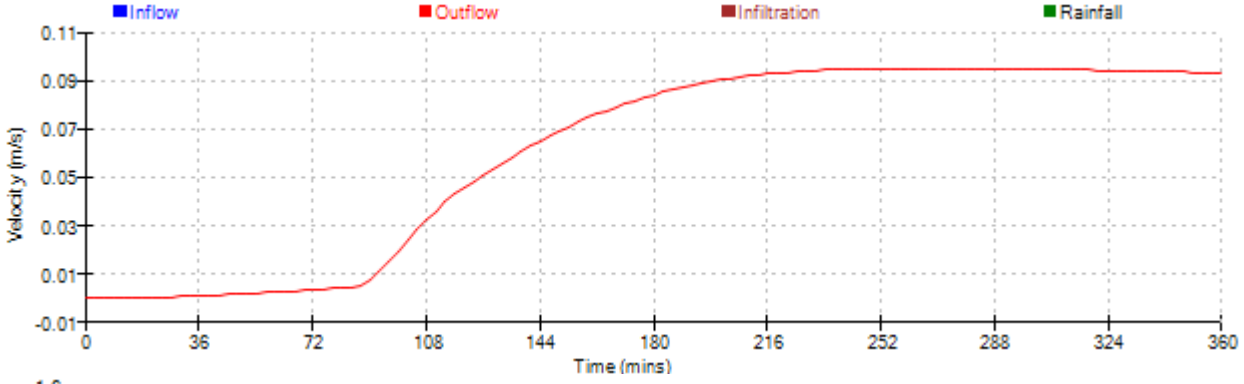


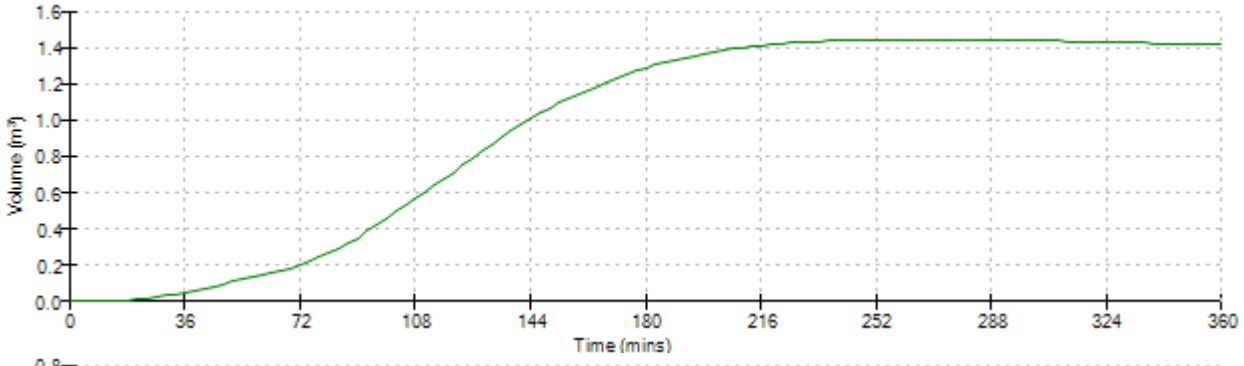


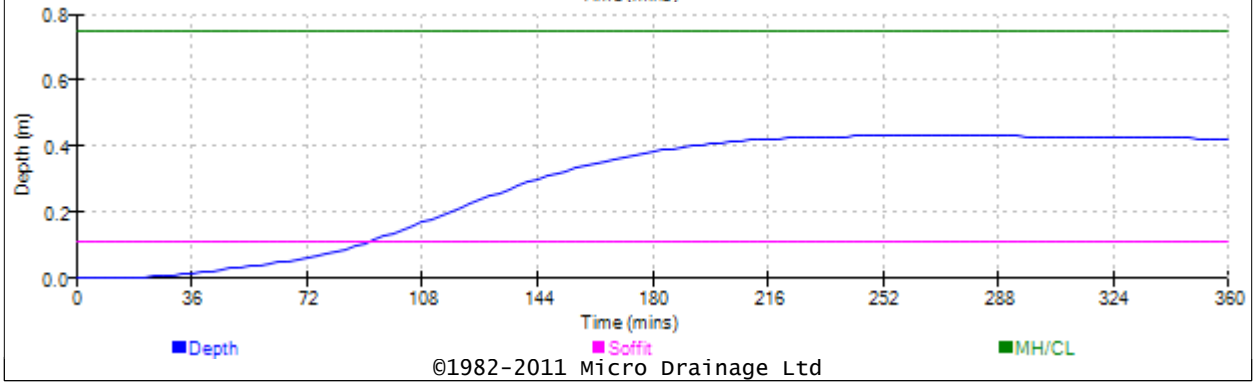
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.401	63.504	-0.109	0.0	0.2	0.1
6	65.402	63.506	-0.108	0.0	0.4	0.1
9	65.402	63.507	-0.108	0.0	0.4	0.1
12	65.402	63.507	-0.108	0.0	0.4	0.1
15	65.402	63.507	-0.108	0.0	0.4	0.1
18	65.402	63.507	-0.108	0.0	0.5	0.1
21	65.402	63.507	-0.108	0.0	0.5	0.1
24	65.402	63.507	-0.108	0.0	0.5	0.1
27	65.402	63.507	-0.108	0.0	0.5	0.1
30	65.402	63.508	-0.108	0.0	0.5	0.1
33	65.403	63.508	-0.107	0.0	0.5	0.1
36	65.403	63.508	-0.107	0.0	0.5	0.1
39	65.403	63.508	-0.107	0.0	0.6	0.1
42	65.403	63.509	-0.107	0.0	0.6	0.1
45	65.403	63.509	-0.107	0.0	0.6	0.2
48	65.403	63.510	-0.107	0.0	0.7	0.2
51	65.403	63.510	-0.107	0.0	0.7	0.2
54	65.404	63.511	-0.106	0.0	0.8	0.2
57	65.404	63.512	-0.106	0.0	0.8	0.2
60	65.405	63.513	-0.105	0.0	0.9	0.2
63	65.405	63.514	-0.105	0.0	1.0	0.3
66	65.406	63.516	-0.104	0.0	1.2	0.3
69	65.407	63.518	-0.103	0.0	1.4	0.3
72	65.408	63.520	-0.102	0.0	1.3	0.4
75	65.410	63.522	-0.100	0.0	1.2	0.5
78	65.411	63.525	-0.099	0.0	1.1	0.6
81	65.412	63.528	-0.098	0.0	1.2	0.7
84	65.413	63.531	-0.097	0.0	1.3	0.8
87	65.413	63.534	-0.097	0.0	1.4	0.9
90	65.414	63.537	-0.096	0.0	1.5	1.1
93	65.415	63.538	-0.095	0.0	1.5	1.1
96	65.414	63.536	-0.096	0.0	1.5	1.1
99	65.413	63.533	-0.097	0.0	1.4	0.9
102	65.412	63.533	-0.098	0.0	1.3	0.8
105	65.412	63.540	-0.098	0.0	1.2	0.7
108	65.411	63.550	-0.099	0.0	1.1	0.6
111	65.410	63.557	-0.100	0.0	1.2	0.5
114	65.408	63.564	-0.102	0.0	1.3	0.4
117	65.407	63.569	-0.103	0.0	1.4	0.3
120	65.406	63.573	-0.104	0.0	1.2	0.3
123	65.405	63.576	-0.105	0.0	1.0	0.3
126	65.404	63.579	-0.106	0.0	0.9	0.2
129	65.404	63.582	-0.106	0.0	0.8	0.2
132	65.404	63.584	-0.106	0.0	0.7	0.2
135	65.403	63.586	-0.107	0.0	0.7	0.2
138	65.403	63.588	-0.107	0.0	0.7	0.2
141	65.403	63.590	-0.107	0.0	0.6	0.2
144	65.403	63.591	-0.107	0.0	0.6	0.1
147	65.403	63.593	-0.107	0.0	0.6	0.1
150	65.403	63.594	-0.107	0.0	0.5	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.403	63.596	-0.107	0.0	0.5	0.1
156	65.402	63.597	-0.108	0.0	0.5	0.1
159	65.402	63.599	-0.108	0.0	0.5	0.1
162	65.402	63.600	-0.108	0.0	0.5	0.1
165	65.402	63.601	-0.108	0.0	0.5	0.1
168	65.402	63.603	-0.108	0.0	0.4	0.1
171	65.402	63.604	-0.108	0.0	0.4	0.1
174	65.402	63.605	-0.108	0.0	0.4	0.1
177	65.402	63.606	-0.108	0.0	0.4	0.1
180	65.402	63.607	-0.108	0.0	0.4	0.1
183	65.401	63.606	-0.109	0.0	0.2	0.0
186	65.400	63.605	-0.110	0.0	0.0	0.0
189	65.400	63.604	-0.110	0.0	0.0	0.0
192	65.400	63.603	-0.110	0.0	0.0	0.0
195	65.400	63.602	-0.110	0.0	0.0	0.0
198	65.400	63.601	-0.110	0.0	0.0	0.0
201	65.400	63.600	-0.110	0.0	0.0	0.0
204	65.400	63.600	-0.110	0.0	0.0	0.0
207	65.400	63.599	-0.110	0.0	0.0	0.0
210	65.400	63.598	-0.110	0.0	0.0	0.0
213	65.400	63.598	-0.110	0.0	0.0	0.0
216	65.400	63.597	-0.110	0.0	0.0	0.0
219	65.400	63.597	-0.110	0.0	0.0	0.0
222	65.400	63.596	-0.110	0.0	0.0	0.0
225	65.400	63.596	-0.110	0.0	0.0	0.0
228	65.400	63.595	-0.110	0.0	0.0	0.0
231	65.400	63.594	-0.110	0.0	0.0	0.0
234	65.400	63.594	-0.110	0.0	0.0	0.0
237	65.400	63.593	-0.110	0.0	0.0	0.0
240	65.400	63.592	-0.110	0.0	0.0	0.0
243	65.400	63.592	-0.110	0.0	0.0	0.0
246	65.400	63.591	-0.110	0.0	0.0	0.0
249	65.400	63.591	-0.110	0.0	0.0	0.0
252	65.400	63.591	-0.110	0.0	0.0	0.0
255	65.400	63.590	-0.110	0.0	0.0	0.0
258	65.400	63.590	-0.110	0.0	0.0	0.0
261	65.400	63.589	-0.110	0.0	0.0	0.0
264	65.400	63.588	-0.110	0.0	0.0	0.0
267	65.400	63.588	-0.110	0.0	0.0	0.0
270	65.400	63.587	-0.110	0.0	0.0	0.0
273	65.400	63.587	-0.110	0.0	0.0	0.0
276	65.400	63.586	-0.110	0.0	0.0	0.0
279	65.400	63.586	-0.110	0.0	0.0	0.0
282	65.400	63.585	-0.110	0.0	0.0	0.0
285	65.400	63.585	-0.110	0.0	0.0	0.0
288	65.400	63.585	-0.110	0.0	0.0	0.0
291	65.400	63.584	-0.110	0.0	0.0	0.0
294	65.400	63.584	-0.110	0.0	0.0	0.0
297	65.400	63.583	-0.110	0.0	0.0	0.0
300	65.400	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.400	63.583	-0.110	0.0	0.0	0.0
306	65.400	63.582	-0.110	0.0	0.0	0.0
309	65.400	63.581	-0.110	0.0	0.0	0.0
312	65.400	63.581	-0.110	0.0	0.0	0.0
315	65.400	63.581	-0.110	0.0	0.0	0.0
318	65.400	63.580	-0.110	0.0	0.0	0.0
321	65.400	63.579	-0.110	0.0	0.0	0.0
324	65.400	63.579	-0.110	0.0	0.0	0.0
327	65.400	63.579	-0.110	0.0	0.0	0.0
330	65.400	63.578	-0.110	0.0	0.0	0.0
333	65.400	63.578	-0.110	0.0	0.0	0.0
336	65.400	63.577	-0.110	0.0	0.0	0.0
339	65.400	63.577	-0.110	0.0	0.0	0.0
342	65.400	63.576	-0.110	0.0	0.0	0.0
345	65.400	63.576	-0.110	0.0	0.0	0.0
348	65.400	63.576	-0.110	0.0	0.0	0.0
351	65.400	63.575	-0.110	0.0	0.0	0.0
354	65.400	63.575	-0.110	0.0	0.0	0.0
357	65.400	63.574	-0.110	0.0	0.0	0.0
360	65.400	63.574	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.504	63.458	-0.100	0.0	0.3	0.1
6	63.506	63.461	-0.098	0.0	0.3	0.2
9	63.507	63.461	-0.098	0.0	0.3	0.2
12	63.507	63.461	-0.097	0.0	0.3	0.2
15	63.507	63.461	-0.097	0.0	0.3	0.2
18	63.507	63.462	-0.097	0.0	0.4	0.2
21	63.507	63.462	-0.097	0.0	0.4	0.2
24	63.507	63.462	-0.097	0.0	0.4	0.2
27	63.507	63.462	-0.097	0.0	0.4	0.2
30	63.508	63.463	-0.096	0.0	0.4	0.2
33	63.508	63.463	-0.096	0.0	0.4	0.3
36	63.508	63.464	-0.096	0.0	0.4	0.3
39	63.508	63.464	-0.096	0.0	0.4	0.3
42	63.509	63.465	-0.095	0.0	0.4	0.3
45	63.509	63.466	-0.095	0.0	0.4	0.3
48	63.510	63.466	-0.095	0.0	0.4	0.3
51	63.510	63.467	-0.094	0.0	0.4	0.3
54	63.511	63.468	-0.093	0.0	0.4	0.4
57	63.512	63.469	-0.093	0.0	0.4	0.4
60	63.513	63.470	-0.091	0.0	0.4	0.4
63	63.514	63.472	-0.090	0.0	0.4	0.5
66	63.516	63.474	-0.088	0.0	0.4	0.6
69	63.518	63.477	-0.086	0.0	0.5	0.7
72	63.520	63.480	-0.084	0.0	0.5	0.8
75	63.522	63.484	-0.082	0.0	0.5	1.0
78	63.525	63.488	-0.079	0.0	0.5	1.1
81	63.528	63.491	-0.076	0.0	0.6	1.3
84	63.531	63.496	-0.073	0.0	0.6	1.6
87	63.534	63.501	-0.070	0.0	0.6	1.8
90	63.537	63.506	-0.067	0.0	0.6	2.1
93	63.538	63.508	-0.066	0.0	0.6	2.3
96	63.536	63.504	-0.068	0.0	0.6	2.1
99	63.533	63.506	-0.071	0.0	0.6	1.9
102	63.533	63.521	-0.071	0.0	0.6	1.6
105	63.540	63.534	-0.064	0.0	0.4	1.3
108	63.550	63.545	-0.054	0.0	0.3	1.1
111	63.557	63.554	-0.047	0.0	0.2	0.9
114	63.564	63.560	-0.040	0.0	0.1	0.8
117	63.569	63.566	-0.035	0.0	0.1	0.7
120	63.573	63.571	-0.031	0.0	0.1	0.6
123	63.576	63.574	-0.028	0.0	0.1	0.5
126	63.579	63.577	-0.025	0.0	0.1	0.4
129	63.582	63.580	-0.022	0.0	0.0	0.4
132	63.584	63.583	-0.020	0.0	0.0	0.4
135	63.586	63.585	-0.018	0.0	0.0	0.3
138	63.588	63.587	-0.016	0.0	0.0	0.3
141	63.590	63.589	-0.014	0.0	0.0	0.3
144	63.591	63.590	-0.013	0.0	0.0	0.3
147	63.593	63.592	-0.011	0.0	0.0	0.3
150	63.594	63.593	-0.010	0.0	0.0	0.3

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.596	63.595	-0.008	0.0	0.0	0.2
156	63.597	63.596	-0.007	0.0	0.0	0.2
159	63.599	63.598	-0.005	0.0	0.0	0.2
162	63.600	63.599	-0.004	0.0	0.0	0.2
165	63.601	63.600	-0.003	0.0	0.0	0.2
168	63.603	63.602	-0.002	0.0	0.0	0.2
171	63.604	63.603	0.000	0.0	0.0	0.2
174	63.605	63.604	0.001	0.0	0.0	0.2
177	63.606	63.605	0.002	0.0	0.0	0.2
180	63.607	63.607	0.003	0.0	0.0	0.2
183	63.606	63.606	0.002	0.0	0.0	0.1
186	63.605	63.605	0.001	0.0	0.0	0.0
189	63.604	63.604	0.000	0.0	0.0	0.0
192	63.603	63.603	-0.001	0.0	0.0	0.0
195	63.602	63.602	-0.002	0.0	0.0	0.0
198	63.601	63.602	-0.003	0.0	0.0	0.0
201	63.600	63.601	-0.004	0.0	0.0	0.0
204	63.600	63.600	-0.004	0.0	0.0	0.0
207	63.599	63.599	-0.005	0.0	0.0	0.0
210	63.598	63.599	-0.006	0.0	0.0	0.0
213	63.598	63.598	-0.006	0.0	0.0	0.0
216	63.597	63.597	-0.007	0.0	0.0	0.0
219	63.597	63.597	-0.008	0.0	0.0	0.0
222	63.596	63.596	-0.008	0.0	0.0	0.0
225	63.596	63.595	-0.009	0.0	0.0	0.0
228	63.595	63.595	-0.009	0.0	0.0	0.0
231	63.594	63.594	-0.010	0.0	0.0	0.0
234	63.594	63.594	-0.010	0.0	0.0	0.0
237	63.593	63.593	-0.011	0.0	0.0	0.0
240	63.592	63.593	-0.012	0.0	0.0	0.0
243	63.592	63.592	-0.012	0.0	0.0	0.0
246	63.591	63.592	-0.013	0.0	0.0	0.0
249	63.591	63.591	-0.013	0.0	0.0	0.0
252	63.591	63.591	-0.013	0.0	0.0	0.0
255	63.590	63.590	-0.014	0.0	0.0	0.0
258	63.590	63.590	-0.014	0.0	0.0	0.0
261	63.589	63.589	-0.015	0.0	0.0	0.0
264	63.588	63.589	-0.016	0.0	0.0	0.0
267	63.588	63.588	-0.016	0.0	0.0	0.0
270	63.587	63.588	-0.017	0.0	0.0	0.0
273	63.587	63.587	-0.017	0.0	0.0	0.0
276	63.586	63.587	-0.018	0.0	0.0	0.0
279	63.586	63.586	-0.018	0.0	0.0	0.0
282	63.585	63.586	-0.019	0.0	0.0	0.0
285	63.585	63.585	-0.019	0.0	0.0	0.0
288	63.585	63.585	-0.020	0.0	0.0	0.0
291	63.584	63.584	-0.020	0.0	0.0	0.0
294	63.584	63.584	-0.020	0.0	0.0	0.0
297	63.583	63.583	-0.021	0.0	0.0	0.0
300	63.583	63.583	-0.021	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.583	63.583	-0.022	0.0	0.0	0.0
306	63.582	63.582	-0.022	0.0	0.0	0.0
309	63.581	63.581	-0.023	0.0	0.0	0.0
312	63.581	63.581	-0.023	0.0	0.0	0.0
315	63.581	63.581	-0.023	0.0	0.0	0.0
318	63.580	63.580	-0.024	0.0	0.0	0.0
321	63.579	63.579	-0.025	0.0	0.0	0.0
324	63.579	63.579	-0.025	0.0	0.0	0.0
327	63.579	63.579	-0.025	0.0	0.0	0.0
330	63.578	63.578	-0.026	0.0	0.0	0.0
333	63.578	63.578	-0.026	0.0	0.0	0.0
336	63.577	63.577	-0.027	0.0	0.0	0.0
339	63.577	63.577	-0.027	0.0	0.0	0.0
342	63.576	63.577	-0.028	0.0	0.0	0.0
345	63.576	63.576	-0.028	0.0	0.0	0.0
348	63.576	63.576	-0.029	0.0	0.0	0.0
351	63.575	63.575	-0.029	0.0	0.0	0.0
354	63.575	63.575	-0.030	0.0	0.0	0.0
357	63.574	63.574	-0.030	0.0	0.0	0.0
360	63.574	63.574	-0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.401	65.002	-0.109	0.0	0.2	0.1
6	65.402	65.003	-0.108	0.0	0.4	0.1
9	65.403	65.004	-0.107	0.0	0.4	0.1
12	65.403	65.004	-0.107	0.0	0.4	0.1
15	65.403	65.004	-0.107	0.0	0.4	0.1
18	65.403	65.004	-0.107	0.0	0.5	0.1
21	65.403	65.004	-0.107	0.0	0.5	0.1
24	65.403	65.004	-0.107	0.0	0.5	0.1
27	65.403	65.004	-0.107	0.0	0.5	0.1
30	65.403	65.004	-0.107	0.0	0.5	0.1
33	65.403	65.005	-0.107	0.0	0.5	0.1
36	65.403	65.005	-0.107	0.0	0.5	0.1
39	65.403	65.005	-0.107	0.0	0.6	0.1
42	65.404	65.005	-0.106	0.0	0.6	0.1
45	65.404	65.005	-0.106	0.0	0.6	0.2
48	65.404	65.006	-0.106	0.0	0.7	0.2
51	65.404	65.006	-0.106	0.0	0.7	0.2
54	65.405	65.007	-0.105	0.0	0.8	0.2
57	65.405	65.007	-0.105	0.0	0.8	0.2
60	65.406	65.008	-0.104	0.0	0.9	0.2
63	65.406	65.009	-0.104	0.0	1.0	0.3
66	65.407	65.010	-0.103	0.0	1.1	0.3
69	65.409	65.011	-0.101	0.0	1.0	0.3
72	65.410	65.012	-0.100	0.0	0.9	0.4
75	65.411	65.013	-0.099	0.0	0.9	0.5
78	65.412	65.014	-0.098	0.0	1.0	0.6
81	65.413	65.015	-0.097	0.0	1.1	0.7
84	65.414	65.017	-0.096	0.0	1.2	0.8
87	65.415	65.018	-0.095	0.0	1.2	0.9
90	65.416	65.020	-0.094	0.0	1.3	1.1
93	65.416	65.020	-0.094	0.0	1.3	1.1
96	65.416	65.019	-0.094	0.0	1.2	1.1
99	65.415	65.017	-0.095	0.0	1.2	0.9
102	65.414	65.016	-0.096	0.0	1.1	0.8
105	65.413	65.015	-0.097	0.0	1.1	0.7
108	65.412	65.014	-0.098	0.0	1.0	0.6
111	65.411	65.013	-0.099	0.0	0.9	0.5
114	65.410	65.012	-0.100	0.0	0.9	0.4
117	65.408	65.011	-0.102	0.0	1.0	0.3
120	65.407	65.010	-0.103	0.0	1.1	0.3
123	65.406	65.009	-0.104	0.0	1.0	0.3
126	65.405	65.008	-0.105	0.0	0.9	0.2
129	65.405	65.007	-0.105	0.0	0.8	0.2
132	65.405	65.006	-0.105	0.0	0.7	0.2
135	65.404	65.006	-0.106	0.0	0.7	0.2
138	65.404	65.006	-0.106	0.0	0.7	0.2
141	65.404	65.005	-0.106	0.0	0.6	0.2
144	65.404	65.005	-0.106	0.0	0.6	0.1
147	65.403	65.005	-0.107	0.0	0.6	0.1
150	65.403	65.005	-0.107	0.0	0.5	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.403	65.004	-0.107	0.0	0.5	0.1
156	65.403	65.004	-0.107	0.0	0.5	0.1
159	65.403	65.004	-0.107	0.0	0.5	0.1
162	65.403	65.004	-0.107	0.0	0.5	0.1
165	65.403	65.004	-0.107	0.0	0.5	0.1
168	65.403	65.004	-0.107	0.0	0.4	0.1
171	65.403	65.004	-0.107	0.0	0.4	0.1
174	65.403	65.004	-0.107	0.0	0.4	0.1
177	65.403	65.004	-0.107	0.0	0.4	0.1
180	65.402	65.003	-0.108	0.0	0.4	0.1
183	65.401	65.001	-0.109	0.0	0.2	0.0
186	65.400	65.000	-0.110	0.0	0.0	0.0
189	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
195	65.400	65.000	-0.110	0.0	0.0	0.0
198	65.400	65.000	-0.110	0.0	0.0	0.0
201	65.400	65.000	-0.110	0.0	0.0	0.0
204	65.400	65.000	-0.110	0.0	0.0	0.0
207	65.400	65.000	-0.110	0.0	0.0	0.0
210	65.400	65.000	-0.110	0.0	0.0	0.0
213	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
219	65.400	65.000	-0.110	0.0	0.0	0.0
222	65.400	65.000	-0.110	0.0	0.0	0.0
225	65.400	65.000	-0.110	0.0	0.0	0.0
228	65.400	65.000	-0.110	0.0	0.0	0.0
231	65.400	65.000	-0.110	0.0	0.0	0.0
234	65.400	65.000	-0.110	0.0	0.0	0.0
237	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
243	65.400	65.000	-0.110	0.0	0.0	0.0
246	65.400	65.000	-0.110	0.0	0.0	0.0
249	65.400	65.000	-0.110	0.0	0.0	0.0
252	65.400	65.000	-0.110	0.0	0.0	0.0
255	65.400	65.000	-0.110	0.0	0.0	0.0
258	65.400	65.000	-0.110	0.0	0.0	0.0
261	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
267	65.400	65.000	-0.110	0.0	0.0	0.0
270	65.400	65.000	-0.110	0.0	0.0	0.0
273	65.400	65.000	-0.110	0.0	0.0	0.0
276	65.400	65.000	-0.110	0.0	0.0	0.0
279	65.400	65.000	-0.110	0.0	0.0	0.0
282	65.400	65.000	-0.110	0.0	0.0	0.0
285	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
291	65.400	65.000	-0.110	0.0	0.0	0.0
294	65.400	65.000	-0.110	0.0	0.0	0.0
297	65.400	65.000	-0.110	0.0	0.0	0.0
300	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.400	65.000	-0.110	0.0	0.0	0.0
306	65.400	65.000	-0.110	0.0	0.0	0.0
309	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
315	65.400	65.000	-0.110	0.0	0.0	0.0
318	65.400	65.000	-0.110	0.0	0.0	0.0
321	65.400	65.000	-0.110	0.0	0.0	0.0
324	65.400	65.000	-0.110	0.0	0.0	0.0
327	65.400	65.000	-0.110	0.0	0.0	0.0
330	65.400	65.000	-0.110	0.0	0.0	0.0
333	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
339	65.400	65.000	-0.110	0.0	0.0	0.0
342	65.400	65.000	-0.110	0.0	0.0	0.0
345	65.400	65.000	-0.110	0.0	0.0	0.0
348	65.400	65.000	-0.110	0.0	0.0	0.0
351	65.400	65.000	-0.110	0.0	0.0	0.0
354	65.400	65.000	-0.110	0.0	0.0	0.0
357	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.002	63.458	-0.108	0.0	0.5	0.1
6	65.003	63.461	-0.107	0.0	0.8	0.2
9	65.004	63.461	-0.106	0.0	0.8	0.2
12	65.004	63.461	-0.106	0.0	0.9	0.2
15	65.004	63.461	-0.106	0.0	0.9	0.2
18	65.004	63.462	-0.106	0.0	0.9	0.2
21	65.004	63.462	-0.106	0.0	0.9	0.2
24	65.004	63.462	-0.106	0.0	0.9	0.2
27	65.004	63.462	-0.106	0.0	1.0	0.2
30	65.004	63.463	-0.106	0.0	1.0	0.2
33	65.005	63.463	-0.105	0.0	1.0	0.3
36	65.005	63.464	-0.105	0.0	1.1	0.3
39	65.005	63.464	-0.105	0.0	1.1	0.3
42	65.005	63.465	-0.105	0.0	1.2	0.3
45	65.005	63.466	-0.105	0.0	1.3	0.3
48	65.006	63.466	-0.104	0.0	1.3	0.3
51	65.006	63.467	-0.104	0.0	1.4	0.3
54	65.007	63.468	-0.103	0.0	1.5	0.4
57	65.007	63.469	-0.103	0.0	1.6	0.4
60	65.008	63.470	-0.102	0.0	1.5	0.4
63	65.009	63.472	-0.101	0.0	1.4	0.5
66	65.010	63.474	-0.100	0.0	1.3	0.6
69	65.011	63.477	-0.099	0.0	1.3	0.7
72	65.012	63.480	-0.098	0.0	1.4	0.8
75	65.013	63.484	-0.097	0.0	1.6	1.0
78	65.014	63.488	-0.096	0.0	1.7	1.2
81	65.015	63.491	-0.095	0.0	1.7	1.3
84	65.017	63.496	-0.093	0.0	1.8	1.6
87	65.018	63.501	-0.092	0.0	1.9	1.8
90	65.020	63.506	-0.090	0.0	1.9	2.1
93	65.020	63.508	-0.090	0.0	1.9	2.3
96	65.019	63.504	-0.091	0.0	1.9	2.1
99	65.017	63.506	-0.093	0.0	1.8	1.8
102	65.016	63.521	-0.094	0.0	1.8	1.6
105	65.015	63.534	-0.095	0.0	1.7	1.4
108	65.014	63.545	-0.096	0.0	1.6	1.2
111	65.013	63.554	-0.097	0.0	1.5	1.0
114	65.012	63.560	-0.098	0.0	1.4	0.8
117	65.011	63.566	-0.099	0.0	1.3	0.7
120	65.010	63.571	-0.100	0.0	1.3	0.6
123	65.009	63.574	-0.101	0.0	1.4	0.5
126	65.008	63.577	-0.102	0.0	1.5	0.4
129	65.007	63.580	-0.103	0.0	1.6	0.4
132	65.006	63.583	-0.104	0.0	1.5	0.4
135	65.006	63.585	-0.104	0.0	1.4	0.3
138	65.006	63.587	-0.104	0.0	1.3	0.3
141	65.005	63.589	-0.105	0.0	1.2	0.3
144	65.005	63.590	-0.105	0.0	1.2	0.3
147	65.005	63.592	-0.105	0.0	1.1	0.3
150	65.005	63.593	-0.105	0.0	1.1	0.3

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.004	63.595	-0.106	0.0	1.0	0.3
156	65.004	63.596	-0.106	0.0	1.0	0.2
159	65.004	63.598	-0.106	0.0	1.0	0.2
162	65.004	63.599	-0.106	0.0	0.9	0.2
165	65.004	63.600	-0.106	0.0	0.9	0.2
168	65.004	63.602	-0.106	0.0	0.9	0.2
171	65.004	63.603	-0.106	0.0	0.9	0.2
174	65.004	63.604	-0.106	0.0	0.9	0.2
177	65.004	63.605	-0.106	0.0	0.8	0.2
180	65.003	63.607	-0.107	0.0	0.8	0.2
183	65.001	63.606	-0.109	0.0	0.3	0.1
186	65.000	63.605	-0.110	0.0	0.0	0.0
189	65.000	63.604	-0.110	0.0	0.0	0.0
192	65.000	63.603	-0.110	0.0	0.0	0.0
195	65.000	63.602	-0.110	0.0	0.0	0.0
198	65.000	63.602	-0.110	0.0	0.0	0.0
201	65.000	63.601	-0.110	0.0	0.0	0.0
204	65.000	63.600	-0.110	0.0	0.0	0.0
207	65.000	63.599	-0.110	0.0	0.0	0.0
210	65.000	63.599	-0.110	0.0	0.0	0.0
213	65.000	63.598	-0.110	0.0	0.0	0.0
216	65.000	63.597	-0.110	0.0	0.0	0.0
219	65.000	63.597	-0.110	0.0	0.0	0.0
222	65.000	63.596	-0.110	0.0	0.0	0.0
225	65.000	63.595	-0.110	0.0	0.0	0.0
228	65.000	63.595	-0.110	0.0	0.0	0.0
231	65.000	63.594	-0.110	0.0	0.0	0.0
234	65.000	63.594	-0.110	0.0	0.0	0.0
237	65.000	63.593	-0.110	0.0	0.0	0.0
240	65.000	63.593	-0.110	0.0	0.0	0.0
243	65.000	63.592	-0.110	0.0	0.0	0.0
246	65.000	63.592	-0.110	0.0	0.0	0.0
249	65.000	63.591	-0.110	0.0	0.0	0.0
252	65.000	63.591	-0.110	0.0	0.0	0.0
255	65.000	63.590	-0.110	0.0	0.0	0.0
258	65.000	63.590	-0.110	0.0	0.0	0.0
261	65.000	63.589	-0.110	0.0	0.0	0.0
264	65.000	63.589	-0.110	0.0	0.0	0.0
267	65.000	63.588	-0.110	0.0	0.0	0.0
270	65.000	63.588	-0.110	0.0	0.0	0.0
273	65.000	63.587	-0.110	0.0	0.0	0.0
276	65.000	63.587	-0.110	0.0	0.0	0.0
279	65.000	63.586	-0.110	0.0	0.0	0.0
282	65.000	63.586	-0.110	0.0	0.0	0.0
285	65.000	63.585	-0.110	0.0	0.0	0.0
288	65.000	63.585	-0.110	0.0	0.0	0.0
291	65.000	63.584	-0.110	0.0	0.0	0.0
294	65.000	63.584	-0.110	0.0	0.0	0.0
297	65.000	63.583	-0.110	0.0	0.0	0.0
300	65.000	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.000	63.583	-0.110	0.0	0.0	0.0
306	65.000	63.582	-0.110	0.0	0.0	0.0
309	65.000	63.581	-0.110	0.0	0.0	0.0
312	65.000	63.581	-0.110	0.0	0.0	0.0
315	65.000	63.581	-0.110	0.0	0.0	0.0
318	65.000	63.580	-0.110	0.0	0.0	0.0
321	65.000	63.579	-0.110	0.0	0.0	0.0
324	65.000	63.579	-0.110	0.0	0.0	0.0
327	65.000	63.579	-0.110	0.0	0.0	0.0
330	65.000	63.578	-0.110	0.0	0.0	0.0
333	65.000	63.578	-0.110	0.0	0.0	0.0
336	65.000	63.577	-0.110	0.0	0.0	0.0
339	65.000	63.577	-0.110	0.0	0.0	0.0
342	65.000	63.577	-0.110	0.0	0.0	0.0
345	65.000	63.576	-0.110	0.0	0.0	0.0
348	65.000	63.576	-0.110	0.0	0.0	0.0
351	65.000	63.575	-0.110	0.0	0.0	0.0
354	65.000	63.575	-0.110	0.0	0.0	0.0
357	65.000	63.574	-0.110	0.0	0.0	0.0
360	65.000	63.574	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.458	63.251	-0.096	0.0	0.3	0.1
6	63.461	63.253	-0.093	0.0	0.4	0.3
9	63.461	63.255	-0.093	0.0	0.4	0.4
12	63.461	63.257	-0.093	0.0	0.4	0.4
15	63.461	63.259	-0.093	0.0	0.4	0.4
18	63.462	63.262	-0.092	0.0	0.4	0.4
21	63.462	63.264	-0.092	0.0	0.4	0.4
24	63.462	63.267	-0.092	0.0	0.5	0.5
27	63.462	63.269	-0.092	0.0	0.5	0.5
30	63.463	63.272	-0.091	0.0	0.5	0.5
33	63.463	63.274	-0.091	0.0	0.5	0.5
36	63.464	63.277	-0.090	0.0	0.5	0.5
39	63.464	63.279	-0.090	0.0	0.5	0.5
42	63.465	63.282	-0.089	0.0	0.5	0.6
45	63.466	63.285	-0.089	0.0	0.5	0.6
48	63.466	63.288	-0.088	0.0	0.5	0.6
51	63.467	63.291	-0.087	0.0	0.5	0.7
54	63.468	63.295	-0.087	0.0	0.5	0.7
57	63.469	63.299	-0.085	0.0	0.5	0.8
60	63.470	63.303	-0.084	0.0	0.5	0.9
63	63.472	63.308	-0.083	0.0	0.5	1.0
66	63.474	63.313	-0.080	0.0	0.6	1.1
69	63.477	63.320	-0.077	0.0	0.6	1.3
72	63.480	63.328	-0.074	0.0	0.6	1.6
75	63.484	63.339	-0.070	0.0	0.6	1.9
78	63.488	63.351	-0.066	0.0	0.7	2.3
81	63.491	63.366	-0.063	0.0	0.7	2.6
84	63.496	63.383	-0.058	0.0	0.7	3.1
87	63.501	63.404	-0.053	0.0	0.8	3.6
90	63.506	63.427	-0.048	0.0	0.8	4.2
93	63.508	63.451	-0.046	0.0	0.8	4.5
96	63.504	63.475	-0.050	0.0	0.8	4.3
99	63.506	63.495	-0.048	0.0	0.7	3.8
102	63.521	63.512	-0.033	0.0	0.5	3.2
105	63.534	63.526	-0.020	0.0	0.3	2.7
108	63.545	63.538	-0.009	0.0	0.3	2.3
111	63.554	63.548	-0.001	0.0	0.2	1.9
114	63.560	63.555	0.006	0.0	0.2	1.6
117	63.566	63.562	0.012	0.0	0.1	1.4
120	63.571	63.567	0.016	0.0	0.1	1.2
123	63.574	63.571	0.020	0.0	0.1	1.0
126	63.577	63.575	0.023	0.0	0.1	0.9
129	63.580	63.578	0.026	0.0	0.1	0.8
132	63.583	63.580	0.028	0.0	0.1	0.7
135	63.585	63.583	0.031	0.0	0.1	0.7
138	63.587	63.585	0.033	0.0	0.1	0.6
141	63.589	63.587	0.034	0.0	0.1	0.6
144	63.590	63.588	0.036	0.0	0.1	0.6
147	63.592	63.590	0.038	0.0	0.1	0.5
150	63.593	63.592	0.039	0.0	0.1	0.5

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.595	63.593	0.041	0.0	0.1	0.5
156	63.596	63.595	0.042	0.0	0.1	0.5
159	63.598	63.596	0.044	0.0	0.0	0.5
162	63.599	63.598	0.045	0.0	0.0	0.4
165	63.600	63.599	0.046	0.0	0.0	0.4
168	63.602	63.600	0.048	0.0	0.0	0.4
171	63.603	63.602	0.049	0.0	0.0	0.4
174	63.604	63.603	0.050	0.0	0.0	0.4
177	63.605	63.604	0.051	0.0	0.0	0.4
180	63.607	63.605	0.053	0.0	0.0	0.4
183	63.606	63.606	0.052	0.0	0.0	0.2
186	63.605	63.605	0.051	0.0	0.0	0.0
189	63.604	63.604	0.050	0.0	0.0	0.0
192	63.603	63.603	0.049	0.0	0.0	0.0
195	63.602	63.603	0.048	0.0	0.0	0.0
198	63.602	63.602	0.047	0.0	0.0	0.0
201	63.601	63.601	0.047	0.0	0.0	0.0
204	63.600	63.600	0.046	0.0	0.0	0.0
207	63.599	63.599	0.045	0.0	0.0	0.0
210	63.599	63.599	0.045	0.0	0.0	0.0
213	63.598	63.598	0.044	0.0	0.0	0.0
216	63.597	63.598	0.043	0.0	0.0	0.0
219	63.597	63.597	0.043	0.0	0.0	0.0
222	63.596	63.596	0.042	0.0	0.0	0.0
225	63.595	63.596	0.041	0.0	0.0	0.0
228	63.595	63.595	0.041	0.0	0.0	0.0
231	63.594	63.595	0.040	0.0	0.0	0.0
234	63.594	63.594	0.040	0.0	0.0	0.0
237	63.593	63.593	0.039	0.0	0.0	0.0
240	63.593	63.593	0.039	0.0	0.0	0.0
243	63.592	63.592	0.038	0.0	0.0	0.0
246	63.592	63.592	0.038	0.0	0.0	0.0
249	63.591	63.591	0.037	0.0	0.0	0.0
252	63.591	63.591	0.036	0.0	0.0	0.0
255	63.590	63.590	0.036	0.0	0.0	0.0
258	63.590	63.590	0.036	0.0	0.0	0.0
261	63.589	63.589	0.035	0.0	0.0	0.0
264	63.589	63.589	0.034	0.0	0.0	0.0
267	63.588	63.588	0.034	0.0	0.0	0.0
270	63.588	63.588	0.033	0.0	0.0	0.0
273	63.587	63.587	0.033	0.0	0.0	0.0
276	63.587	63.587	0.032	0.0	0.0	0.0
279	63.586	63.586	0.032	0.0	0.0	0.0
282	63.586	63.586	0.032	0.0	0.0	0.0
285	63.585	63.585	0.031	0.0	0.0	0.0
288	63.585	63.585	0.031	0.0	0.0	0.0
291	63.584	63.584	0.030	0.0	0.0	0.0
294	63.584	63.584	0.030	0.0	0.0	0.0
297	63.583	63.583	0.029	0.0	0.0	0.0
300	63.583	63.583	0.029	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.583	63.583	0.028	0.0	0.0	0.0
306	63.582	63.582	0.028	0.0	0.0	0.0
309	63.581	63.582	0.027	0.0	0.0	0.0
312	63.581	63.581	0.027	0.0	0.0	0.0
315	63.581	63.581	0.027	0.0	0.0	0.0
318	63.580	63.580	0.026	0.0	0.0	0.0
321	63.579	63.580	0.025	0.0	0.0	0.0
324	63.579	63.579	0.025	0.0	0.0	0.0
327	63.579	63.579	0.025	0.0	0.0	0.0
330	63.578	63.578	0.024	0.0	0.0	0.0
333	63.578	63.578	0.024	0.0	0.0	0.0
336	63.577	63.578	0.023	0.0	0.0	0.0
339	63.577	63.577	0.023	0.0	0.0	0.0
342	63.577	63.577	0.022	0.0	0.0	0.0
345	63.576	63.576	0.022	0.0	0.0	0.0
348	63.576	63.576	0.022	0.0	0.0	0.0
351	63.575	63.575	0.021	0.0	0.0	0.0
354	63.575	63.575	0.021	0.0	0.0	0.0
357	63.574	63.574	0.020	0.0	0.0	0.0
360	63.574	63.574	0.020	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.251	63.100	-0.109	0.0	0.0	0.0
6	63.253	63.100	-0.107	0.0	0.0	0.0
9	63.255	63.100	-0.105	0.0	0.0	0.0
12	63.257	63.100	-0.103	0.0	0.0	0.0
15	63.259	63.101	-0.101	0.0	0.1	0.0
18	63.262	63.102	-0.098	0.0	0.1	0.0
21	63.264	63.104	-0.096	0.0	0.1	0.0
24	63.267	63.105	-0.093	0.0	0.2	0.0
27	63.269	63.107	-0.091	0.0	0.2	0.0
30	63.272	63.110	-0.088	0.0	0.2	0.1
33	63.274	63.113	-0.086	0.0	0.2	0.1
36	63.277	63.116	-0.083	0.0	0.3	0.1
39	63.279	63.119	-0.081	0.0	0.3	0.1
42	63.282	63.123	-0.078	0.0	0.3	0.1
45	63.285	63.126	-0.075	0.0	0.3	0.1
48	63.288	63.129	-0.072	0.0	0.3	0.1
51	63.291	63.133	-0.069	0.0	0.3	0.1
54	63.295	63.137	-0.065	0.0	0.3	0.1
57	63.299	63.140	-0.061	0.0	0.3	0.1
60	63.303	63.144	-0.057	0.0	0.3	0.1
63	63.308	63.148	-0.052	0.0	0.3	0.1
66	63.313	63.152	-0.047	0.0	0.3	0.1
69	63.320	63.156	-0.040	0.0	0.3	0.1
72	63.328	63.161	-0.032	0.0	0.3	0.2
75	63.339	63.167	-0.021	0.0	0.3	0.2
78	63.351	63.173	-0.009	0.0	0.3	0.2
81	63.366	63.180	0.006	0.0	0.3	0.2
84	63.383	63.187	0.023	0.0	0.3	0.2
87	63.404	63.196	0.044	0.0	0.4	0.2
90	63.427	63.205	0.067	0.0	0.4	0.2
93	63.451	63.216	0.091	0.0	0.4	0.3
96	63.475	63.227	0.115	0.0	0.4	0.3
99	63.495	63.238	0.135	0.0	0.4	0.3
102	63.512	63.250	0.152	0.0	0.4	0.3
105	63.526	63.260	0.166	0.0	0.4	0.2
108	63.538	63.270	0.178	0.0	0.4	0.3
111	63.548	63.281	0.188	0.0	0.4	0.3
114	63.555	63.292	0.195	0.0	0.4	0.3
117	63.562	63.303	0.202	0.0	0.4	0.3
120	63.567	63.314	0.207	0.0	0.4	0.3
123	63.571	63.325	0.211	0.0	0.4	0.3
126	63.575	63.337	0.215	0.0	0.4	0.3
129	63.578	63.348	0.218	0.0	0.4	0.3
132	63.580	63.359	0.220	0.0	0.4	0.3
135	63.583	63.370	0.223	0.0	0.4	0.3
138	63.585	63.381	0.225	0.0	0.4	0.3
141	63.587	63.391	0.227	0.0	0.4	0.3
144	63.588	63.401	0.228	0.0	0.4	0.3
147	63.590	63.410	0.230	0.0	0.3	0.3
150	63.592	63.418	0.232	0.0	0.2	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.593	63.426	0.233	0.0	0.1	0.2
156	63.595	63.434	0.235	0.0	0.1	0.2
159	63.596	63.442	0.236	0.0	0.1	0.2
162	63.598	63.449	0.238	0.0	0.0	0.2
165	63.599	63.455	0.239	0.0	0.0	0.2
168	63.600	63.462	0.240	0.0	0.0	0.2
171	63.602	63.468	0.242	0.0	0.0	0.2
174	63.603	63.473	0.243	0.0	0.0	0.2
177	63.604	63.479	0.244	0.0	0.0	0.2
180	63.605	63.484	0.245	0.0	0.0	0.2
183	63.606	63.489	0.246	0.0	0.0	0.2
186	63.605	63.493	0.245	0.0	0.0	0.2
189	63.604	63.497	0.244	0.0	0.0	0.2
192	63.603	63.501	0.243	0.0	0.0	0.2
195	63.603	63.505	0.243	0.0	0.0	0.2
198	63.602	63.508	0.242	0.0	0.0	0.1
201	63.601	63.511	0.241	0.0	0.0	0.1
204	63.600	63.513	0.240	0.0	0.0	0.1
207	63.599	63.516	0.239	0.0	0.0	0.1
210	63.599	63.518	0.239	0.0	0.0	0.1
213	63.598	63.519	0.238	0.0	0.0	0.1
216	63.598	63.521	0.238	0.0	0.0	0.1
219	63.597	63.523	0.237	0.0	0.0	0.1
222	63.596	63.524	0.236	0.0	0.0	0.1
225	63.596	63.525	0.236	0.0	0.0	0.1
228	63.595	63.526	0.235	0.0	0.0	0.1
231	63.595	63.527	0.235	0.0	0.0	0.1
234	63.594	63.528	0.234	0.0	0.0	0.1
237	63.593	63.529	0.233	0.0	0.0	0.1
240	63.593	63.529	0.233	0.0	0.0	0.1
243	63.592	63.530	0.232	0.0	0.0	0.1
246	63.592	63.530	0.232	0.0	0.0	0.1
249	63.591	63.531	0.231	0.0	0.0	0.1
252	63.591	63.531	0.231	0.0	0.0	0.1
255	63.590	63.531	0.230	0.0	0.0	0.1
258	63.590	63.531	0.230	0.0	0.0	0.1
261	63.589	63.531	0.229	0.0	0.0	0.1
264	63.589	63.531	0.229	0.0	0.0	0.1
267	63.588	63.531	0.228	0.0	0.0	0.1
270	63.588	63.531	0.228	0.0	0.0	0.1
273	63.587	63.531	0.227	0.0	0.0	0.1
276	63.587	63.531	0.227	0.0	0.0	0.1
279	63.586	63.531	0.226	0.0	0.0	0.1
282	63.586	63.531	0.226	0.0	0.0	0.1
285	63.585	63.531	0.225	0.0	0.0	0.1
288	63.585	63.531	0.225	0.0	0.0	0.1
291	63.584	63.530	0.224	0.0	0.0	0.1
294	63.584	63.530	0.224	0.0	0.0	0.1
297	63.583	63.530	0.223	0.0	0.0	0.1
300	63.583	63.530	0.223	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.583	63.529	0.223	0.0	0.0	0.1
306	63.582	63.529	0.222	0.0	0.0	0.1
309	63.582	63.529	0.222	0.0	0.0	0.1
312	63.581	63.528	0.221	0.0	0.0	0.1
315	63.581	63.528	0.221	0.0	0.0	0.1
318	63.580	63.528	0.220	0.0	0.0	0.1
321	63.580	63.527	0.220	0.0	0.0	0.1
324	63.579	63.527	0.219	0.0	0.0	0.1
327	63.579	63.527	0.219	0.0	0.0	0.1
330	63.578	63.526	0.218	0.0	0.0	0.1
333	63.578	63.526	0.218	0.0	0.0	0.1
336	63.578	63.525	0.218	0.0	0.0	0.1
339	63.577	63.525	0.217	0.0	0.0	0.1
342	63.577	63.525	0.217	0.0	0.0	0.1
345	63.576	63.524	0.216	0.0	0.0	0.1
348	63.576	63.524	0.216	0.0	0.0	0.1
351	63.575	63.523	0.215	0.0	0.0	0.1
354	63.575	63.523	0.215	0.0	0.0	0.1
357	63.574	63.523	0.214	0.0	0.0	0.1
360	63.574	63.522	0.214	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
9	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
15	63.101	63.096	-0.109	0.0	0.0	0.0
18	63.102	63.096	-0.108	0.0	0.0	0.0
21	63.104	63.096	-0.106	0.0	0.0	0.0
24	63.105	63.096	-0.105	0.0	0.0	0.0
27	63.107	63.096	-0.103	0.0	0.0	0.0
30	63.110	63.096	-0.100	0.0	0.0	0.0
33	63.113	63.096	-0.097	0.0	0.0	0.0
36	63.116	63.096	-0.094	0.0	0.0	0.0
39	63.119	63.096	-0.091	0.0	0.0	0.0
42	63.123	63.096	-0.087	0.0	0.0	0.0
45	63.126	63.096	-0.084	0.0	0.0	0.0
48	63.129	63.096	-0.081	0.0	0.0	0.0
51	63.133	63.096	-0.077	0.0	0.0	0.0
54	63.137	63.096	-0.073	0.0	0.0	0.0
57	63.140	63.096	-0.070	0.0	0.0	0.0
60	63.144	63.096	-0.066	0.0	0.0	0.0
63	63.148	63.096	-0.062	0.0	0.0	0.0
66	63.152	63.096	-0.058	0.0	0.0	0.0
69	63.156	63.096	-0.054	0.0	0.0	0.0
72	63.161	63.096	-0.049	0.0	0.0	0.0
75	63.167	63.096	-0.043	0.0	0.0	0.0
78	63.173	63.096	-0.037	0.0	0.0	0.0
81	63.180	63.096	-0.030	0.0	0.0	0.0
84	63.187	63.096	-0.023	0.0	0.0	0.0
87	63.196	63.096	-0.014	0.0	0.0	0.0
90	63.205	63.096	-0.005	0.0	0.0	0.0
93	63.216	63.096	0.006	0.0	0.0	0.0
96	63.227	63.096	0.017	0.0	0.0	0.0
99	63.238	63.096	0.028	0.0	0.0	0.0
102	63.250	63.096	0.040	0.0	0.0	0.0
105	63.260	63.096	0.050	0.0	0.0	0.0
108	63.270	63.096	0.060	0.0	0.0	0.0
111	63.281	63.096	0.071	0.0	0.0	0.0
114	63.292	63.096	0.082	0.0	0.0	0.0
117	63.303	63.096	0.093	0.0	0.0	0.0
120	63.314	63.096	0.104	0.0	0.0	0.0
123	63.325	63.096	0.115	0.0	0.0	0.0
126	63.337	63.096	0.127	0.0	0.1	0.0
129	63.348	63.096	0.138	0.0	0.1	0.0
132	63.359	63.096	0.149	0.0	0.1	0.0
135	63.370	63.096	0.160	0.0	0.1	0.0
138	63.381	63.096	0.171	0.0	0.1	0.0
141	63.391	63.096	0.181	0.0	0.1	0.0
144	63.401	63.096	0.191	0.0	0.1	0.0
147	63.410	63.096	0.200	0.0	0.1	0.0
150	63.418	63.096	0.208	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.426	63.096	0.216	0.0	0.1	0.0
156	63.434	63.096	0.224	0.0	0.1	0.0
159	63.442	63.096	0.232	0.0	0.1	0.0
162	63.449	63.096	0.239	0.0	0.1	0.0
165	63.455	63.096	0.245	0.0	0.1	0.0
168	63.462	63.096	0.252	0.0	0.1	0.0
171	63.468	63.096	0.258	0.0	0.1	0.0
174	63.473	63.096	0.263	0.0	0.1	0.0
177	63.479	63.096	0.269	0.0	0.1	0.0
180	63.484	63.096	0.274	0.0	0.1	0.0
183	63.489	63.096	0.279	0.0	0.1	0.0
186	63.493	63.096	0.283	0.0	0.1	0.0
189	63.497	63.096	0.287	0.0	0.1	0.0
192	63.501	63.096	0.291	0.0	0.1	0.0
195	63.505	63.096	0.295	0.0	0.1	0.0
198	63.508	63.096	0.298	0.0	0.1	0.0
201	63.511	63.096	0.301	0.0	0.1	0.0
204	63.513	63.096	0.303	0.0	0.1	0.0
207	63.516	63.096	0.306	0.0	0.1	0.0
210	63.518	63.096	0.308	0.0	0.1	0.0
213	63.519	63.096	0.309	0.0	0.1	0.0
216	63.521	63.096	0.311	0.0	0.1	0.0
219	63.523	63.096	0.313	0.0	0.1	0.0
222	63.524	63.096	0.314	0.0	0.1	0.0
225	63.525	63.096	0.315	0.0	0.1	0.0
228	63.526	63.096	0.316	0.0	0.1	0.0
231	63.527	63.096	0.317	0.0	0.1	0.0
234	63.528	63.096	0.318	0.0	0.1	0.0
237	63.529	63.096	0.319	0.0	0.1	0.0
240	63.529	63.096	0.319	0.0	0.1	0.0
243	63.530	63.096	0.320	0.0	0.1	0.0
246	63.530	63.096	0.320	0.0	0.1	0.0
249	63.531	63.096	0.321	0.0	0.1	0.0
252	63.531	63.096	0.321	0.0	0.1	0.0
255	63.531	63.096	0.321	0.0	0.1	0.0
258	63.531	63.096	0.321	0.0	0.1	0.0
261	63.531	63.096	0.321	0.0	0.1	0.0
264	63.531	63.096	0.321	0.0	0.1	0.0
267	63.531	63.096	0.321	0.0	0.1	0.0
270	63.531	63.096	0.321	0.0	0.1	0.0
273	63.531	63.096	0.321	0.0	0.1	0.0
276	63.531	63.096	0.321	0.0	0.1	0.0
279	63.531	63.096	0.321	0.0	0.1	0.0
282	63.531	63.096	0.321	0.0	0.1	0.0
285	63.531	63.096	0.321	0.0	0.1	0.0
288	63.531	63.096	0.321	0.0	0.1	0.0
291	63.530	63.096	0.320	0.0	0.1	0.0
294	63.530	63.096	0.320	0.0	0.1	0.0
297	63.530	63.096	0.320	0.0	0.1	0.0
300	63.530	63.096	0.320	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Summer
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.529	63.096	0.319	0.0	0.1	0.0
306	63.529	63.096	0.319	0.0	0.1	0.0
309	63.529	63.096	0.319	0.0	0.1	0.0
312	63.528	63.096	0.318	0.0	0.1	0.0
315	63.528	63.096	0.318	0.0	0.1	0.0
318	63.528	63.096	0.318	0.0	0.1	0.0
321	63.527	63.096	0.317	0.0	0.1	0.0
324	63.527	63.096	0.317	0.0	0.1	0.0
327	63.527	63.096	0.317	0.0	0.1	0.0
330	63.526	63.096	0.316	0.0	0.1	0.0
333	63.526	63.096	0.316	0.0	0.1	0.0
336	63.525	63.096	0.315	0.0	0.1	0.0
339	63.525	63.096	0.315	0.0	0.1	0.0
342	63.525	63.096	0.315	0.0	0.1	0.0
345	63.524	63.096	0.314	0.0	0.1	0.0
348	63.524	63.096	0.314	0.0	0.1	0.0
351	63.523	63.096	0.313	0.0	0.1	0.0
354	63.523	63.096	0.313	0.0	0.1	0.0
357	63.523	63.096	0.313	0.0	0.1	0.0
360	63.522	63.096	0.312	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	360
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	3

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	180
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 180 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.412	-0.098	0.000	0.03	0.0	0.8	OK
1.001	S1	63.608	0.003	0.000	0.22	0.0	1.5	SURCHARGED
2.000	RE2	65.413	-0.097	0.000	0.04	0.0	0.8	OK
2.001	S2	65.016	-0.094	0.000	0.05	0.0	1.5	OK
1.002	S3	63.607	0.053	0.000	0.42	0.0	3.0	SURCHARGED
1.003	S4	63.606	0.246	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.531	0.321	0.000	0.00	0.0	0.0	SURCHARGED

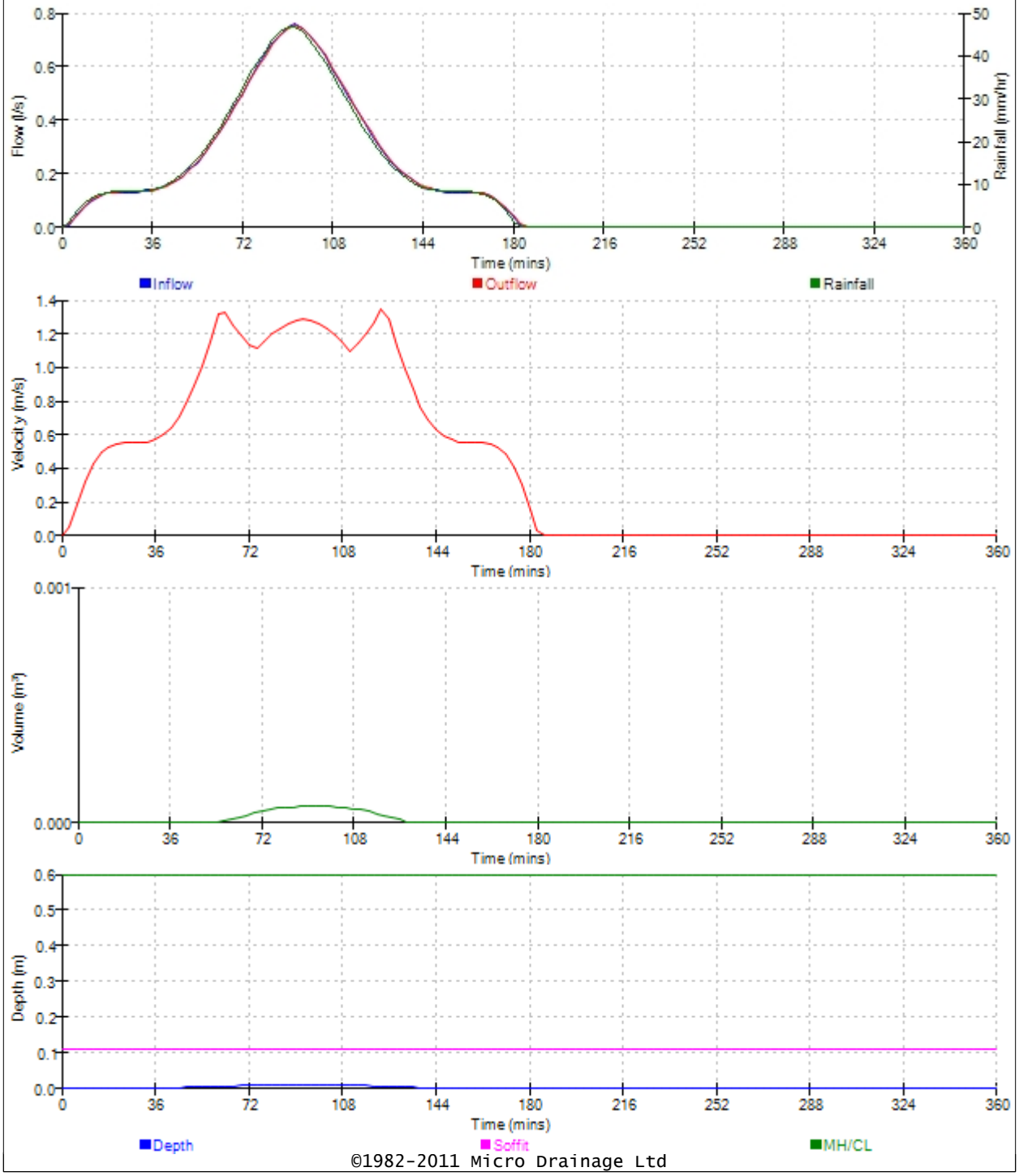
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Rainfall Hyetograph for 180 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
3	1.325	39	9.256	75	35.734	111	32.432	147	8.706
6	3.810	42	10.003	78	38.547	114	29.469	150	8.435
9	5.634	45	10.996	81	41.169	117	26.550	153	8.309
12	6.982	48	12.454	84	43.745	120	23.401	156	8.290
15	7.697	51	14.061	87	45.571	123	20.782	159	8.307
18	8.105	54	15.929	90	46.888	126	18.359	162	8.285
21	8.285	57	18.359	93	46.888	129	15.929	165	8.105
24	8.307	60	20.782	96	45.571	132	14.061	168	7.698
27	8.290	63	23.401	99	43.745	135	12.454	171	6.982
30	8.309	66	26.550	102	41.169	138	10.996	174	5.634
33	8.435	69	29.469	105	38.547	141	10.003	177	3.810
36	8.706	72	32.432	108	35.734	144	9.256	180	1.325

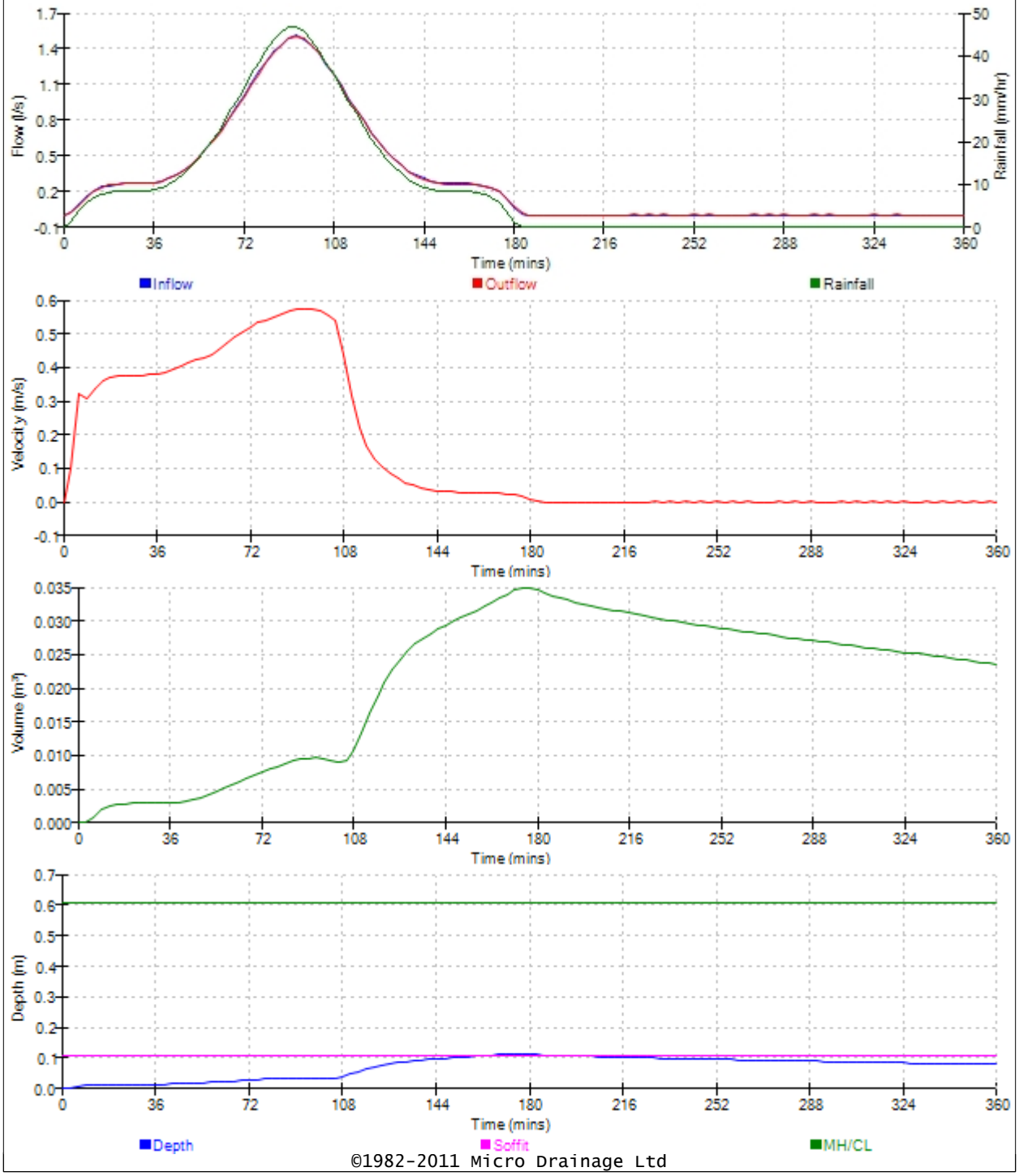
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Winter
Status: OK



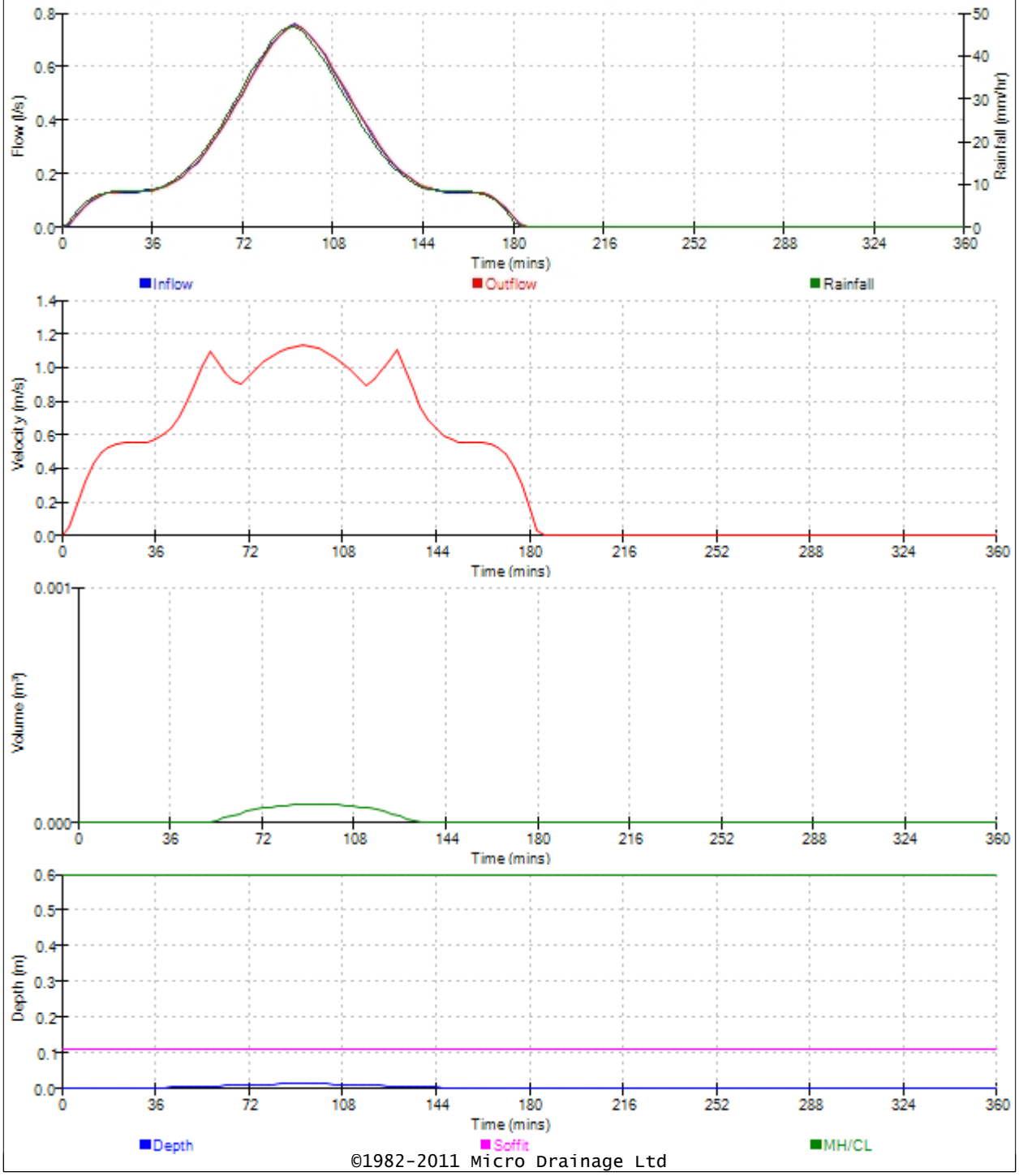
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Graphs for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Winter
Status: SURCHARGED



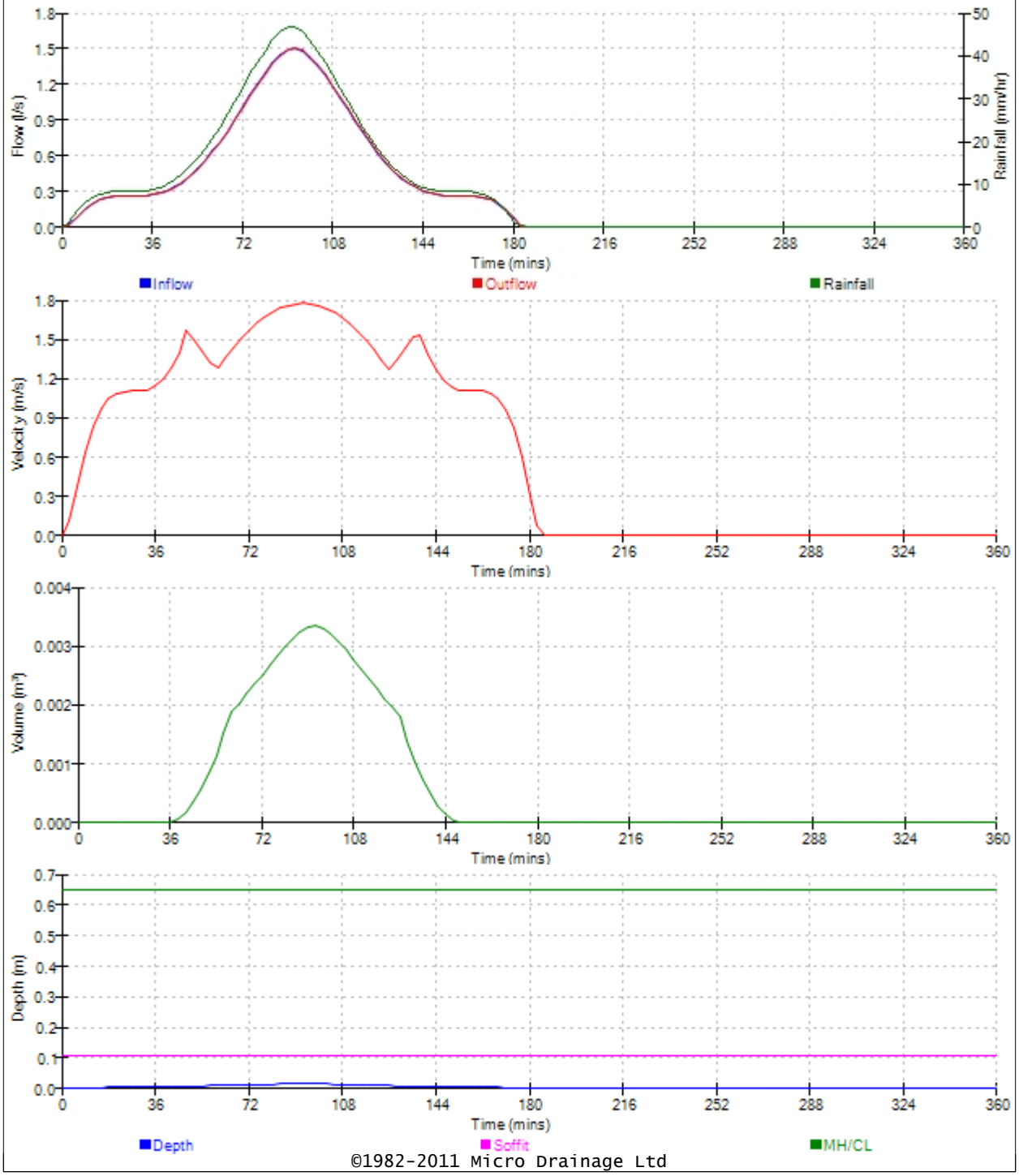
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Winter
Status: OK



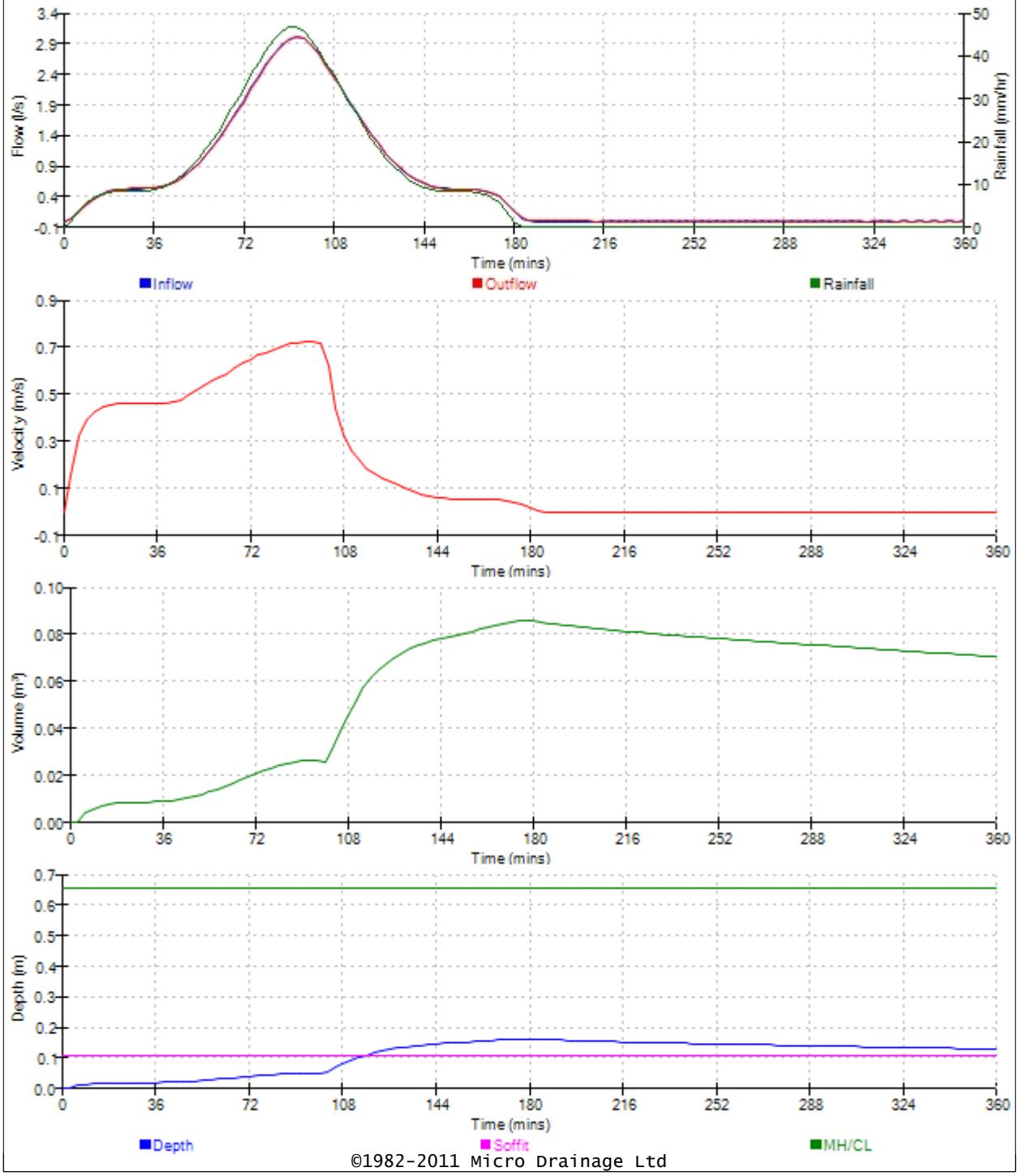
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Graphs for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Winter
Status: OK



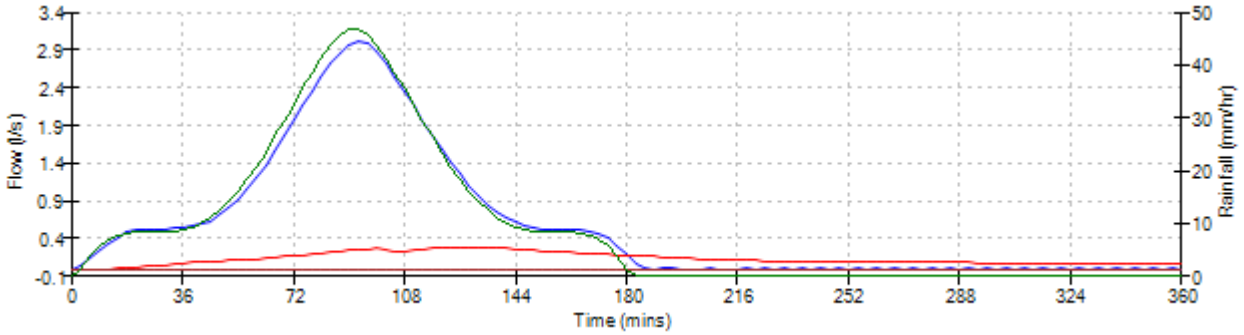
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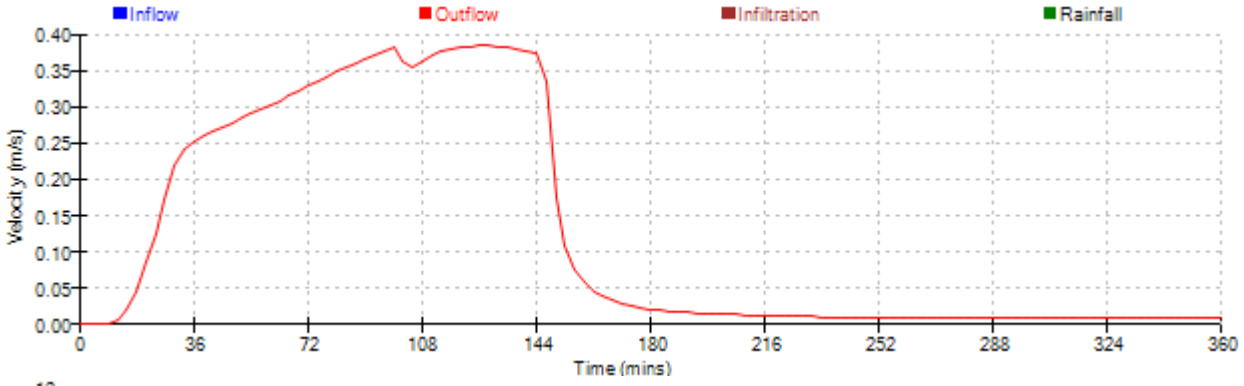
Graphs for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Winter
Status: SURCHARGED

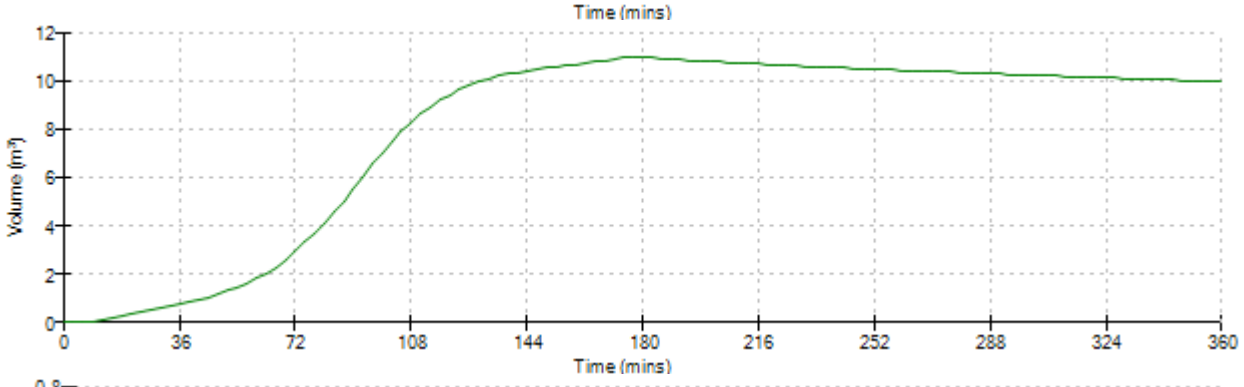


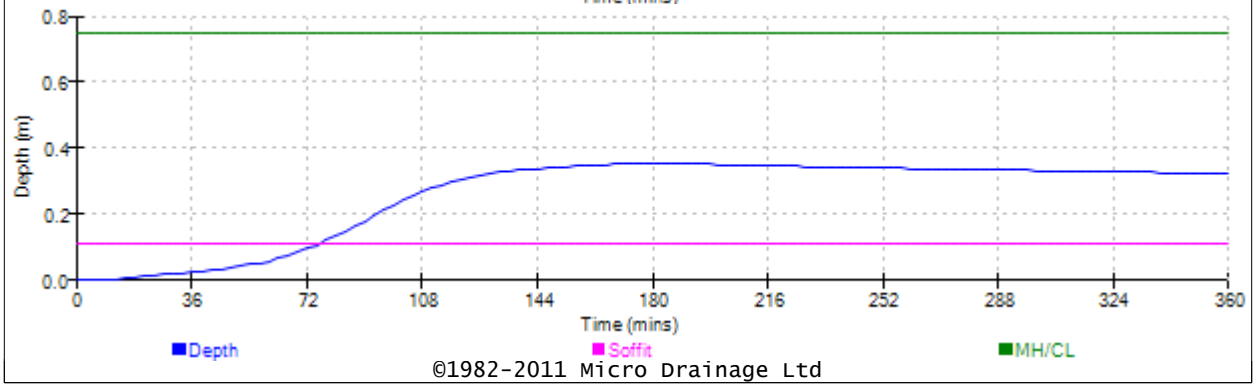
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Graphs for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Winter
Status: SURCHARGED



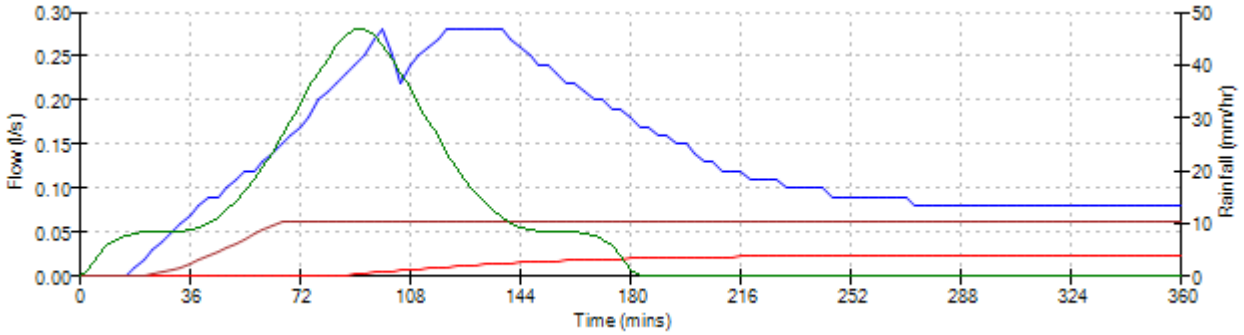


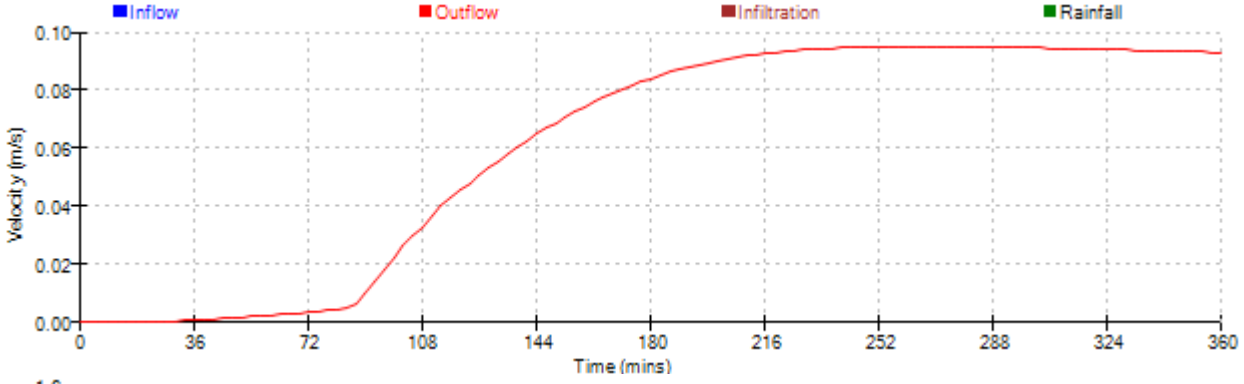


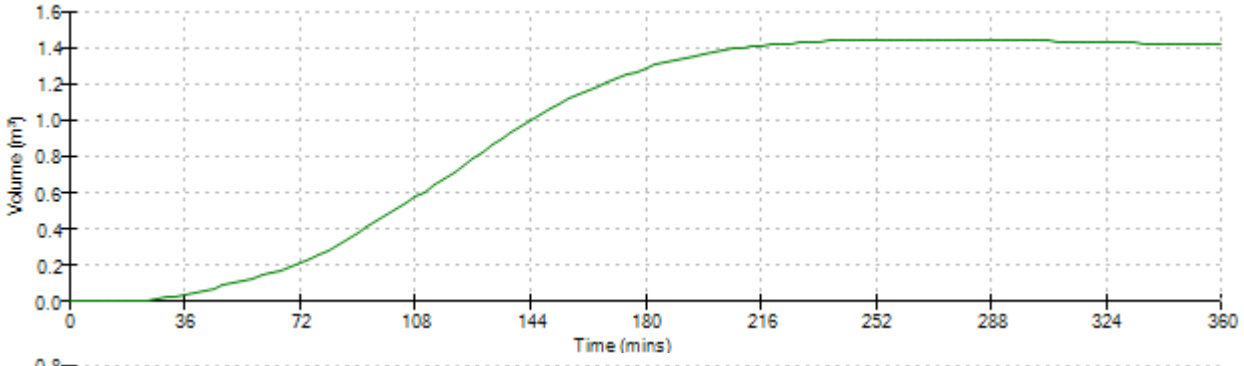


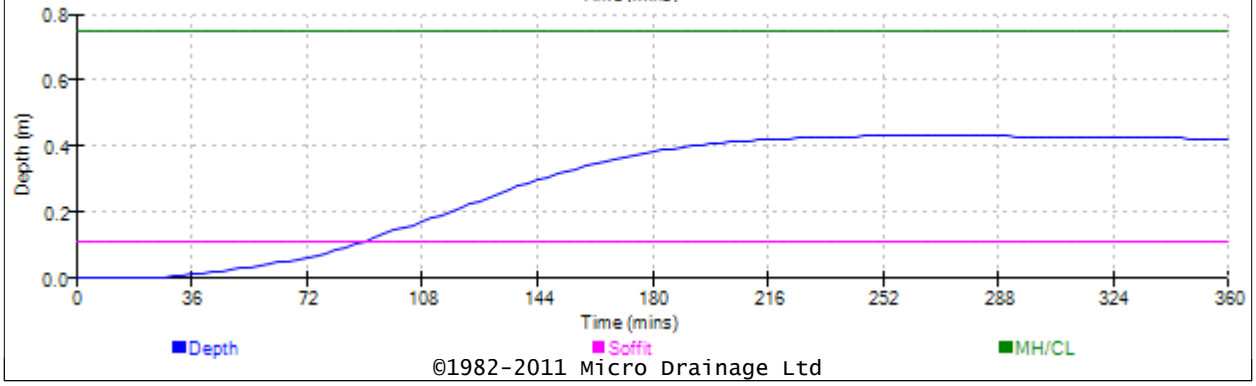
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.400	63.496	-0.110	0.0	0.1	0.0
6	65.401	63.502	-0.109	0.0	0.2	0.0
9	65.402	63.506	-0.108	0.0	0.3	0.1
12	65.402	63.507	-0.108	0.0	0.4	0.1
15	65.402	63.508	-0.108	0.0	0.5	0.1
18	65.403	63.508	-0.107	0.0	0.5	0.1
21	65.403	63.508	-0.107	0.0	0.5	0.1
24	65.403	63.508	-0.107	0.0	0.6	0.1
27	65.403	63.508	-0.107	0.0	0.6	0.1
30	65.403	63.508	-0.107	0.0	0.6	0.1
33	65.403	63.508	-0.107	0.0	0.6	0.1
36	65.403	63.508	-0.107	0.0	0.6	0.1
39	65.403	63.509	-0.107	0.0	0.6	0.1
42	65.403	63.509	-0.107	0.0	0.6	0.2
45	65.403	63.510	-0.107	0.0	0.7	0.2
48	65.404	63.511	-0.106	0.0	0.8	0.2
51	65.404	63.512	-0.106	0.0	0.9	0.2
54	65.405	63.514	-0.105	0.0	1.0	0.2
57	65.406	63.515	-0.104	0.0	1.2	0.3
60	65.407	63.517	-0.103	0.0	1.3	0.3
63	65.407	63.518	-0.103	0.0	1.3	0.4
66	65.408	63.520	-0.102	0.0	1.3	0.4
69	65.409	63.521	-0.101	0.0	1.2	0.4
72	65.410	63.522	-0.100	0.0	1.1	0.5
75	65.411	63.524	-0.099	0.0	1.1	0.5
78	65.411	63.525	-0.099	0.0	1.2	0.6
81	65.412	63.527	-0.098	0.0	1.2	0.6
84	65.412	63.528	-0.098	0.0	1.2	0.7
87	65.412	63.529	-0.098	0.0	1.3	0.7
90	65.412	63.529	-0.098	0.0	1.3	0.7
93	65.412	63.529	-0.098	0.0	1.3	0.8
96	65.412	63.529	-0.098	0.0	1.3	0.7
99	65.412	63.528	-0.098	0.0	1.3	0.7
102	65.412	63.527	-0.098	0.0	1.2	0.7
105	65.412	63.528	-0.098	0.0	1.2	0.6
108	65.411	63.533	-0.099	0.0	1.1	0.6
111	65.411	63.541	-0.099	0.0	1.1	0.6
114	65.410	63.550	-0.100	0.0	1.1	0.5
117	65.409	63.558	-0.101	0.0	1.2	0.5
120	65.408	63.565	-0.102	0.0	1.3	0.4
123	65.407	63.570	-0.103	0.0	1.3	0.4
126	65.406	63.575	-0.104	0.0	1.3	0.3
129	65.406	63.579	-0.104	0.0	1.1	0.3
132	65.405	63.583	-0.105	0.0	1.0	0.2
135	65.404	63.585	-0.106	0.0	0.9	0.2
138	65.404	63.588	-0.106	0.0	0.8	0.2
141	65.403	63.590	-0.107	0.0	0.7	0.2
144	65.403	63.591	-0.107	0.0	0.6	0.2
147	65.403	63.593	-0.107	0.0	0.6	0.1
150	65.403	63.595	-0.107	0.0	0.6	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.403	63.596	-0.107	0.0	0.6	0.1
156	65.403	63.598	-0.107	0.0	0.6	0.1
159	65.403	63.600	-0.107	0.0	0.6	0.1
162	65.403	63.602	-0.107	0.0	0.6	0.1
165	65.403	63.603	-0.107	0.0	0.5	0.1
168	65.403	63.605	-0.107	0.0	0.5	0.1
171	65.402	63.606	-0.108	0.0	0.5	0.1
174	65.402	63.607	-0.108	0.0	0.4	0.1
177	65.401	63.608	-0.109	0.0	0.3	0.1
180	65.401	63.607	-0.109	0.0	0.2	0.0
183	65.400	63.606	-0.110	0.0	0.0	0.0
186	65.400	63.604	-0.110	0.0	0.0	0.0
189	65.400	63.604	-0.110	0.0	0.0	0.0
192	65.400	63.603	-0.110	0.0	0.0	0.0
195	65.400	63.602	-0.110	0.0	0.0	0.0
198	65.400	63.601	-0.110	0.0	0.0	0.0
201	65.400	63.600	-0.110	0.0	0.0	0.0
204	65.400	63.600	-0.110	0.0	0.0	0.0
207	65.400	63.599	-0.110	0.0	0.0	0.0
210	65.400	63.598	-0.110	0.0	0.0	0.0
213	65.400	63.598	-0.110	0.0	0.0	0.0
216	65.400	63.597	-0.110	0.0	0.0	0.0
219	65.400	63.596	-0.110	0.0	0.0	0.0
222	65.400	63.596	-0.110	0.0	0.0	0.0
225	65.400	63.595	-0.110	0.0	0.0	0.0
228	65.400	63.594	-0.110	0.0	0.0	0.0
231	65.400	63.594	-0.110	0.0	0.0	0.0
234	65.400	63.593	-0.110	0.0	0.0	0.0
237	65.400	63.592	-0.110	0.0	0.0	0.0
240	65.400	63.592	-0.110	0.0	0.0	0.0
243	65.400	63.591	-0.110	0.0	0.0	0.0
246	65.400	63.591	-0.110	0.0	0.0	0.0
249	65.400	63.590	-0.110	0.0	0.0	0.0
252	65.400	63.590	-0.110	0.0	0.0	0.0
255	65.400	63.589	-0.110	0.0	0.0	0.0
258	65.400	63.589	-0.110	0.0	0.0	0.0
261	65.400	63.588	-0.110	0.0	0.0	0.0
264	65.400	63.588	-0.110	0.0	0.0	0.0
267	65.400	63.587	-0.110	0.0	0.0	0.0
270	65.400	63.587	-0.110	0.0	0.0	0.0
273	65.400	63.586	-0.110	0.0	0.0	0.0
276	65.400	63.586	-0.110	0.0	0.0	0.0
279	65.400	63.585	-0.110	0.0	0.0	0.0
282	65.400	63.585	-0.110	0.0	0.0	0.0
285	65.400	63.584	-0.110	0.0	0.0	0.0
288	65.400	63.584	-0.110	0.0	0.0	0.0
291	65.400	63.584	-0.110	0.0	0.0	0.0
294	65.400	63.583	-0.110	0.0	0.0	0.0
297	65.400	63.583	-0.110	0.0	0.0	0.0
300	65.400	63.582	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.400	63.582	-0.110	0.0	0.0	0.0
306	65.400	63.581	-0.110	0.0	0.0	0.0
309	65.400	63.581	-0.110	0.0	0.0	0.0
312	65.400	63.581	-0.110	0.0	0.0	0.0
315	65.400	63.580	-0.110	0.0	0.0	0.0
318	65.400	63.580	-0.110	0.0	0.0	0.0
321	65.400	63.579	-0.110	0.0	0.0	0.0
324	65.400	63.578	-0.110	0.0	0.0	0.0
327	65.400	63.578	-0.110	0.0	0.0	0.0
330	65.400	63.578	-0.110	0.0	0.0	0.0
333	65.400	63.577	-0.110	0.0	0.0	0.0
336	65.400	63.577	-0.110	0.0	0.0	0.0
339	65.400	63.577	-0.110	0.0	0.0	0.0
342	65.400	63.576	-0.110	0.0	0.0	0.0
345	65.400	63.575	-0.110	0.0	0.0	0.0
348	65.400	63.575	-0.110	0.0	0.0	0.0
351	65.400	63.575	-0.110	0.0	0.0	0.0
354	65.400	63.574	-0.110	0.0	0.0	0.0
357	65.400	63.574	-0.110	0.0	0.0	0.0
360	65.400	63.573	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.496	63.448	-0.108	0.0	0.1	0.0
6	63.502	63.456	-0.102	0.0	0.3	0.1
9	63.506	63.459	-0.098	0.0	0.3	0.1
12	63.507	63.461	-0.097	0.0	0.3	0.2
15	63.508	63.462	-0.097	0.0	0.4	0.2
18	63.508	63.463	-0.096	0.0	0.4	0.3
21	63.508	63.464	-0.096	0.0	0.4	0.3
24	63.508	63.464	-0.096	0.0	0.4	0.3
27	63.508	63.464	-0.096	0.0	0.4	0.3
30	63.508	63.464	-0.096	0.0	0.4	0.3
33	63.508	63.464	-0.096	0.0	0.4	0.3
36	63.508	63.464	-0.096	0.0	0.4	0.3
39	63.509	63.465	-0.095	0.0	0.4	0.3
42	63.509	63.466	-0.095	0.0	0.4	0.3
45	63.510	63.467	-0.094	0.0	0.4	0.3
48	63.511	63.468	-0.093	0.0	0.4	0.4
51	63.512	63.470	-0.092	0.0	0.4	0.4
54	63.514	63.471	-0.090	0.0	0.4	0.5
57	63.515	63.473	-0.089	0.0	0.4	0.6
60	63.517	63.475	-0.087	0.0	0.5	0.6
63	63.518	63.478	-0.086	0.0	0.5	0.7
66	63.520	63.480	-0.085	0.0	0.5	0.8
69	63.521	63.482	-0.083	0.0	0.5	0.9
72	63.522	63.484	-0.082	0.0	0.5	1.0
75	63.524	63.486	-0.080	0.0	0.5	1.1
78	63.525	63.488	-0.079	0.0	0.5	1.2
81	63.527	63.490	-0.077	0.0	0.5	1.3
84	63.528	63.491	-0.076	0.0	0.6	1.4
87	63.529	63.493	-0.076	0.0	0.6	1.4
90	63.529	63.494	-0.075	0.0	0.6	1.5
93	63.529	63.494	-0.075	0.0	0.6	1.5
96	63.529	63.493	-0.075	0.0	0.6	1.5
99	63.528	63.492	-0.076	0.0	0.6	1.4
102	63.527	63.501	-0.077	0.0	0.6	1.4
105	63.528	63.514	-0.076	0.0	0.5	1.3
108	63.533	63.526	-0.071	0.0	0.4	1.2
111	63.541	63.537	-0.063	0.0	0.3	1.1
114	63.550	63.546	-0.054	0.0	0.2	1.0
117	63.558	63.554	-0.046	0.0	0.2	0.9
120	63.565	63.561	-0.040	0.0	0.1	0.8
123	63.570	63.567	-0.034	0.0	0.1	0.7
126	63.575	63.573	-0.029	0.0	0.1	0.6
129	63.579	63.577	-0.025	0.0	0.1	0.5
132	63.583	63.581	-0.022	0.0	0.1	0.5
135	63.585	63.584	-0.019	0.0	0.0	0.4
138	63.588	63.586	-0.016	0.0	0.0	0.4
141	63.590	63.588	-0.014	0.0	0.0	0.3
144	63.591	63.590	-0.013	0.0	0.0	0.3
147	63.593	63.592	-0.011	0.0	0.0	0.3
150	63.595	63.594	-0.009	0.0	0.0	0.3

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.596	63.595	-0.008	0.0	0.0	0.3
156	63.598	63.597	-0.006	0.0	0.0	0.3
159	63.600	63.599	-0.004	0.0	0.0	0.3
162	63.602	63.601	-0.002	0.0	0.0	0.3
165	63.603	63.602	-0.001	0.0	0.0	0.3
168	63.605	63.604	0.001	0.0	0.0	0.2
171	63.606	63.605	0.002	0.0	0.0	0.2
174	63.607	63.607	0.003	0.0	0.0	0.2
177	63.608	63.607	0.003	0.0	0.0	0.2
180	63.607	63.607	0.003	0.0	0.0	0.1
183	63.606	63.606	0.002	0.0	0.0	0.0
186	63.604	63.605	0.000	0.0	0.0	0.0
189	63.604	63.604	-0.001	0.0	0.0	0.0
192	63.603	63.603	-0.001	0.0	0.0	0.0
195	63.602	63.602	-0.002	0.0	0.0	0.0
198	63.601	63.601	-0.003	0.0	0.0	0.0
201	63.600	63.600	-0.004	0.0	0.0	0.0
204	63.600	63.600	-0.004	0.0	0.0	0.0
207	63.599	63.599	-0.005	0.0	0.0	0.0
210	63.598	63.598	-0.006	0.0	0.0	0.0
213	63.598	63.598	-0.006	0.0	0.0	0.0
216	63.597	63.597	-0.007	0.0	0.0	0.0
219	63.596	63.596	-0.008	0.0	0.0	0.0
222	63.596	63.596	-0.009	0.0	0.0	0.0
225	63.595	63.595	-0.009	0.0	0.0	0.0
228	63.594	63.594	-0.010	0.0	0.0	0.0
231	63.594	63.594	-0.011	0.0	0.0	0.0
234	63.593	63.593	-0.011	0.0	0.0	0.0
237	63.592	63.593	-0.012	0.0	0.0	0.0
240	63.592	63.592	-0.012	0.0	0.0	0.0
243	63.591	63.592	-0.013	0.0	0.0	0.0
246	63.591	63.591	-0.013	0.0	0.0	0.0
249	63.590	63.591	-0.014	0.0	0.0	0.0
252	63.590	63.590	-0.014	0.0	0.0	0.0
255	63.589	63.590	-0.015	0.0	0.0	0.0
258	63.589	63.589	-0.015	0.0	0.0	0.0
261	63.588	63.589	-0.016	0.0	0.0	0.0
264	63.588	63.588	-0.016	0.0	0.0	0.0
267	63.587	63.588	-0.017	0.0	0.0	0.0
270	63.587	63.587	-0.017	0.0	0.0	0.0
273	63.586	63.587	-0.018	0.0	0.0	0.0
276	63.586	63.586	-0.018	0.0	0.0	0.0
279	63.585	63.586	-0.019	0.0	0.0	0.0
282	63.585	63.585	-0.019	0.0	0.0	0.0
285	63.584	63.585	-0.020	0.0	0.0	0.0
288	63.584	63.584	-0.020	0.0	0.0	0.0
291	63.584	63.584	-0.021	0.0	0.0	0.0
294	63.583	63.583	-0.021	0.0	0.0	0.0
297	63.583	63.583	-0.021	0.0	0.0	0.0
300	63.582	63.583	-0.022	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.582	63.582	-0.022	0.0	0.0	0.0
306	63.581	63.582	-0.023	0.0	0.0	0.0
309	63.581	63.581	-0.023	0.0	0.0	0.0
312	63.581	63.581	-0.024	0.0	0.0	0.0
315	63.580	63.580	-0.024	0.0	0.0	0.0
318	63.580	63.580	-0.024	0.0	0.0	0.0
321	63.579	63.579	-0.025	0.0	0.0	0.0
324	63.578	63.579	-0.026	0.0	0.0	0.0
327	63.578	63.578	-0.026	0.0	0.0	0.0
330	63.578	63.578	-0.026	0.0	0.0	0.0
333	63.577	63.577	-0.027	0.0	0.0	0.0
336	63.577	63.577	-0.027	0.0	0.0	0.0
339	63.577	63.577	-0.028	0.0	0.0	0.0
342	63.576	63.576	-0.028	0.0	0.0	0.0
345	63.575	63.576	-0.029	0.0	0.0	0.0
348	63.575	63.575	-0.029	0.0	0.0	0.0
351	63.575	63.575	-0.029	0.0	0.0	0.0
354	63.574	63.574	-0.030	0.0	0.0	0.0
357	63.574	63.574	-0.030	0.0	0.0	0.0
360	63.573	63.574	-0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.400	65.001	-0.110	0.0	0.1	0.0
6	65.401	65.002	-0.109	0.0	0.2	0.0
9	65.402	65.003	-0.108	0.0	0.3	0.1
12	65.403	65.004	-0.107	0.0	0.4	0.1
15	65.403	65.004	-0.107	0.0	0.5	0.1
18	65.403	65.005	-0.107	0.0	0.5	0.1
21	65.403	65.005	-0.107	0.0	0.5	0.1
24	65.403	65.005	-0.107	0.0	0.6	0.1
27	65.403	65.005	-0.107	0.0	0.6	0.1
30	65.403	65.005	-0.107	0.0	0.6	0.1
33	65.403	65.005	-0.107	0.0	0.6	0.1
36	65.403	65.005	-0.107	0.0	0.6	0.1
39	65.404	65.005	-0.106	0.0	0.6	0.1
42	65.404	65.006	-0.106	0.0	0.6	0.2
45	65.404	65.006	-0.106	0.0	0.7	0.2
48	65.405	65.007	-0.105	0.0	0.8	0.2
51	65.405	65.008	-0.105	0.0	0.9	0.2
54	65.406	65.009	-0.104	0.0	1.0	0.2
57	65.407	65.010	-0.103	0.0	1.1	0.3
60	65.408	65.011	-0.102	0.0	1.0	0.3
63	65.409	65.012	-0.101	0.0	1.0	0.4
66	65.410	65.012	-0.100	0.0	0.9	0.4
69	65.411	65.013	-0.099	0.0	0.9	0.5
72	65.412	65.013	-0.098	0.0	1.0	0.5
75	65.412	65.014	-0.098	0.0	1.0	0.5
78	65.412	65.014	-0.098	0.0	1.0	0.6
81	65.413	65.015	-0.097	0.0	1.1	0.6
84	65.413	65.015	-0.097	0.0	1.1	0.7
87	65.413	65.016	-0.097	0.0	1.1	0.7
90	65.413	65.016	-0.097	0.0	1.1	0.7
93	65.413	65.016	-0.097	0.0	1.1	0.8
96	65.413	65.016	-0.097	0.0	1.1	0.7
99	65.413	65.015	-0.097	0.0	1.1	0.7
102	65.413	65.015	-0.097	0.0	1.1	0.7
105	65.413	65.015	-0.097	0.0	1.1	0.6
108	65.412	65.014	-0.098	0.0	1.0	0.6
111	65.412	65.014	-0.098	0.0	1.0	0.6
114	65.411	65.013	-0.099	0.0	0.9	0.5
117	65.411	65.012	-0.099	0.0	0.9	0.5
120	65.410	65.012	-0.100	0.0	0.9	0.4
123	65.409	65.011	-0.101	0.0	1.0	0.4
126	65.408	65.011	-0.102	0.0	1.0	0.3
129	65.407	65.010	-0.103	0.0	1.1	0.3
132	65.406	65.008	-0.104	0.0	1.0	0.2
135	65.405	65.007	-0.105	0.0	0.9	0.2
138	65.405	65.007	-0.105	0.0	0.8	0.2
141	65.404	65.006	-0.106	0.0	0.7	0.2
144	65.404	65.005	-0.106	0.0	0.6	0.2
147	65.404	65.005	-0.106	0.0	0.6	0.1
150	65.403	65.005	-0.107	0.0	0.6	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.403	65.005	-0.107	0.0	0.6	0.1
156	65.403	65.005	-0.107	0.0	0.6	0.1
159	65.403	65.005	-0.107	0.0	0.6	0.1
162	65.403	65.005	-0.107	0.0	0.6	0.1
165	65.403	65.005	-0.107	0.0	0.5	0.1
168	65.403	65.004	-0.107	0.0	0.5	0.1
171	65.403	65.004	-0.107	0.0	0.5	0.1
174	65.402	65.003	-0.108	0.0	0.4	0.1
177	65.402	65.003	-0.108	0.0	0.3	0.1
180	65.401	65.001	-0.109	0.0	0.2	0.0
183	65.400	65.000	-0.110	0.0	0.0	0.0
186	65.400	65.000	-0.110	0.0	0.0	0.0
189	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
195	65.400	65.000	-0.110	0.0	0.0	0.0
198	65.400	65.000	-0.110	0.0	0.0	0.0
201	65.400	65.000	-0.110	0.0	0.0	0.0
204	65.400	65.000	-0.110	0.0	0.0	0.0
207	65.400	65.000	-0.110	0.0	0.0	0.0
210	65.400	65.000	-0.110	0.0	0.0	0.0
213	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
219	65.400	65.000	-0.110	0.0	0.0	0.0
222	65.400	65.000	-0.110	0.0	0.0	0.0
225	65.400	65.000	-0.110	0.0	0.0	0.0
228	65.400	65.000	-0.110	0.0	0.0	0.0
231	65.400	65.000	-0.110	0.0	0.0	0.0
234	65.400	65.000	-0.110	0.0	0.0	0.0
237	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
243	65.400	65.000	-0.110	0.0	0.0	0.0
246	65.400	65.000	-0.110	0.0	0.0	0.0
249	65.400	65.000	-0.110	0.0	0.0	0.0
252	65.400	65.000	-0.110	0.0	0.0	0.0
255	65.400	65.000	-0.110	0.0	0.0	0.0
258	65.400	65.000	-0.110	0.0	0.0	0.0
261	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
267	65.400	65.000	-0.110	0.0	0.0	0.0
270	65.400	65.000	-0.110	0.0	0.0	0.0
273	65.400	65.000	-0.110	0.0	0.0	0.0
276	65.400	65.000	-0.110	0.0	0.0	0.0
279	65.400	65.000	-0.110	0.0	0.0	0.0
282	65.400	65.000	-0.110	0.0	0.0	0.0
285	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
291	65.400	65.000	-0.110	0.0	0.0	0.0
294	65.400	65.000	-0.110	0.0	0.0	0.0
297	65.400	65.000	-0.110	0.0	0.0	0.0
300	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.400	65.000	-0.110	0.0	0.0	0.0
306	65.400	65.000	-0.110	0.0	0.0	0.0
309	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
315	65.400	65.000	-0.110	0.0	0.0	0.0
318	65.400	65.000	-0.110	0.0	0.0	0.0
321	65.400	65.000	-0.110	0.0	0.0	0.0
324	65.400	65.000	-0.110	0.0	0.0	0.0
327	65.400	65.000	-0.110	0.0	0.0	0.0
330	65.400	65.000	-0.110	0.0	0.0	0.0
333	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
339	65.400	65.000	-0.110	0.0	0.0	0.0
342	65.400	65.000	-0.110	0.0	0.0	0.0
345	65.400	65.000	-0.110	0.0	0.0	0.0
348	65.400	65.000	-0.110	0.0	0.0	0.0
351	65.400	65.000	-0.110	0.0	0.0	0.0
354	65.400	65.000	-0.110	0.0	0.0	0.0
357	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	65.001	63.448	-0.109	0.0	0.1	0.0
6	65.002	63.456	-0.108	0.0	0.4	0.1
9	65.003	63.459	-0.107	0.0	0.6	0.2
12	65.004	63.461	-0.106	0.0	0.8	0.2
15	65.004	63.462	-0.106	0.0	1.0	0.2
18	65.005	63.463	-0.105	0.0	1.0	0.3
21	65.005	63.464	-0.105	0.0	1.1	0.3
24	65.005	63.464	-0.105	0.0	1.1	0.3
27	65.005	63.464	-0.105	0.0	1.1	0.3
30	65.005	63.464	-0.105	0.0	1.1	0.3
33	65.005	63.464	-0.105	0.0	1.1	0.3
36	65.005	63.464	-0.105	0.0	1.1	0.3
39	65.005	63.465	-0.105	0.0	1.2	0.3
42	65.006	63.466	-0.104	0.0	1.3	0.3
45	65.006	63.467	-0.104	0.0	1.4	0.3
48	65.007	63.468	-0.103	0.0	1.6	0.4
51	65.008	63.470	-0.102	0.0	1.5	0.4
54	65.009	63.471	-0.101	0.0	1.4	0.5
57	65.010	63.473	-0.100	0.0	1.3	0.6
60	65.011	63.475	-0.099	0.0	1.3	0.6
63	65.012	63.478	-0.098	0.0	1.4	0.7
66	65.012	63.480	-0.098	0.0	1.4	0.8
69	65.013	63.482	-0.097	0.0	1.5	0.9
72	65.013	63.484	-0.097	0.0	1.6	1.0
75	65.014	63.486	-0.096	0.0	1.6	1.1
78	65.014	63.488	-0.096	0.0	1.7	1.2
81	65.015	63.490	-0.095	0.0	1.7	1.3
84	65.015	63.491	-0.095	0.0	1.7	1.4
87	65.016	63.493	-0.094	0.0	1.8	1.4
90	65.016	63.494	-0.094	0.0	1.8	1.5
93	65.016	63.494	-0.094	0.0	1.8	1.5
96	65.016	63.493	-0.094	0.0	1.8	1.5
99	65.015	63.492	-0.095	0.0	1.8	1.4
102	65.015	63.501	-0.095	0.0	1.7	1.4
105	65.015	63.514	-0.095	0.0	1.7	1.3
108	65.014	63.526	-0.096	0.0	1.7	1.2
111	65.014	63.537	-0.096	0.0	1.6	1.1
114	65.013	63.546	-0.097	0.0	1.6	1.0
117	65.012	63.554	-0.098	0.0	1.5	0.9
120	65.012	63.561	-0.098	0.0	1.4	0.8
123	65.011	63.567	-0.099	0.0	1.3	0.7
126	65.011	63.573	-0.099	0.0	1.3	0.6
129	65.010	63.577	-0.100	0.0	1.3	0.6
132	65.008	63.581	-0.102	0.0	1.4	0.5
135	65.007	63.584	-0.103	0.0	1.5	0.4
138	65.007	63.586	-0.103	0.0	1.5	0.4
141	65.006	63.588	-0.104	0.0	1.4	0.3
144	65.005	63.590	-0.105	0.0	1.3	0.3
147	65.005	63.592	-0.105	0.0	1.2	0.3
150	65.005	63.594	-0.105	0.0	1.1	0.3

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	65.005	63.595	-0.105	0.0	1.1	0.3
156	65.005	63.597	-0.105	0.0	1.1	0.3
159	65.005	63.599	-0.105	0.0	1.1	0.3
162	65.005	63.601	-0.105	0.0	1.1	0.3
165	65.005	63.602	-0.105	0.0	1.1	0.3
168	65.004	63.604	-0.106	0.0	1.0	0.3
171	65.004	63.605	-0.106	0.0	1.0	0.2
174	65.003	63.607	-0.107	0.0	0.8	0.2
177	65.003	63.607	-0.107	0.0	0.6	0.2
180	65.001	63.607	-0.109	0.0	0.3	0.1
183	65.000	63.606	-0.110	0.0	0.1	0.0
186	65.000	63.605	-0.110	0.0	0.0	0.0
189	65.000	63.604	-0.110	0.0	0.0	0.0
192	65.000	63.603	-0.110	0.0	0.0	0.0
195	65.000	63.602	-0.110	0.0	0.0	0.0
198	65.000	63.601	-0.110	0.0	0.0	0.0
201	65.000	63.600	-0.110	0.0	0.0	0.0
204	65.000	63.600	-0.110	0.0	0.0	0.0
207	65.000	63.599	-0.110	0.0	0.0	0.0
210	65.000	63.598	-0.110	0.0	0.0	0.0
213	65.000	63.598	-0.110	0.0	0.0	0.0
216	65.000	63.597	-0.110	0.0	0.0	0.0
219	65.000	63.596	-0.110	0.0	0.0	0.0
222	65.000	63.596	-0.110	0.0	0.0	0.0
225	65.000	63.595	-0.110	0.0	0.0	0.0
228	65.000	63.594	-0.110	0.0	0.0	0.0
231	65.000	63.594	-0.110	0.0	0.0	0.0
234	65.000	63.593	-0.110	0.0	0.0	0.0
237	65.000	63.593	-0.110	0.0	0.0	0.0
240	65.000	63.592	-0.110	0.0	0.0	0.0
243	65.000	63.592	-0.110	0.0	0.0	0.0
246	65.000	63.591	-0.110	0.0	0.0	0.0
249	65.000	63.591	-0.110	0.0	0.0	0.0
252	65.000	63.590	-0.110	0.0	0.0	0.0
255	65.000	63.590	-0.110	0.0	0.0	0.0
258	65.000	63.589	-0.110	0.0	0.0	0.0
261	65.000	63.589	-0.110	0.0	0.0	0.0
264	65.000	63.588	-0.110	0.0	0.0	0.0
267	65.000	63.588	-0.110	0.0	0.0	0.0
270	65.000	63.587	-0.110	0.0	0.0	0.0
273	65.000	63.587	-0.110	0.0	0.0	0.0
276	65.000	63.586	-0.110	0.0	0.0	0.0
279	65.000	63.586	-0.110	0.0	0.0	0.0
282	65.000	63.585	-0.110	0.0	0.0	0.0
285	65.000	63.585	-0.110	0.0	0.0	0.0
288	65.000	63.584	-0.110	0.0	0.0	0.0
291	65.000	63.584	-0.110	0.0	0.0	0.0
294	65.000	63.583	-0.110	0.0	0.0	0.0
297	65.000	63.583	-0.110	0.0	0.0	0.0
300	65.000	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	65.000	63.582	-0.110	0.0	0.0	0.0
306	65.000	63.582	-0.110	0.0	0.0	0.0
309	65.000	63.581	-0.110	0.0	0.0	0.0
312	65.000	63.581	-0.110	0.0	0.0	0.0
315	65.000	63.580	-0.110	0.0	0.0	0.0
318	65.000	63.580	-0.110	0.0	0.0	0.0
321	65.000	63.579	-0.110	0.0	0.0	0.0
324	65.000	63.579	-0.110	0.0	0.0	0.0
327	65.000	63.578	-0.110	0.0	0.0	0.0
330	65.000	63.578	-0.110	0.0	0.0	0.0
333	65.000	63.577	-0.110	0.0	0.0	0.0
336	65.000	63.577	-0.110	0.0	0.0	0.0
339	65.000	63.577	-0.110	0.0	0.0	0.0
342	65.000	63.576	-0.110	0.0	0.0	0.0
345	65.000	63.576	-0.110	0.0	0.0	0.0
348	65.000	63.575	-0.110	0.0	0.0	0.0
351	65.000	63.575	-0.110	0.0	0.0	0.0
354	65.000	63.574	-0.110	0.0	0.0	0.0
357	65.000	63.574	-0.110	0.0	0.0	0.0
360	65.000	63.574	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.448	63.250	-0.106	0.0	0.2	0.0
6	63.456	63.251	-0.098	0.0	0.3	0.1
9	63.459	63.252	-0.095	0.0	0.4	0.3
12	63.461	63.253	-0.093	0.0	0.4	0.4
15	63.462	63.256	-0.092	0.0	0.4	0.4
18	63.463	63.259	-0.091	0.0	0.5	0.5
21	63.464	63.261	-0.090	0.0	0.5	0.5
24	63.464	63.264	-0.090	0.0	0.5	0.5
27	63.464	63.267	-0.090	0.0	0.5	0.5
30	63.464	63.270	-0.090	0.0	0.5	0.5
33	63.464	63.273	-0.090	0.0	0.5	0.5
36	63.464	63.276	-0.090	0.0	0.5	0.5
39	63.465	63.278	-0.089	0.0	0.5	0.6
42	63.466	63.281	-0.088	0.0	0.5	0.6
45	63.467	63.284	-0.087	0.0	0.5	0.7
48	63.468	63.289	-0.086	0.0	0.5	0.7
51	63.470	63.293	-0.085	0.0	0.5	0.8
54	63.471	63.298	-0.083	0.0	0.5	0.9
57	63.473	63.303	-0.081	0.0	0.6	1.1
60	63.475	63.310	-0.079	0.0	0.6	1.2
63	63.478	63.317	-0.077	0.0	0.6	1.4
66	63.480	63.325	-0.074	0.0	0.6	1.6
69	63.482	63.336	-0.072	0.0	0.6	1.8
72	63.484	63.346	-0.070	0.0	0.7	2.0
75	63.486	63.358	-0.068	0.0	0.7	2.2
78	63.488	63.370	-0.066	0.0	0.7	2.4
81	63.490	63.384	-0.064	0.0	0.7	2.5
84	63.491	63.399	-0.063	0.0	0.7	2.7
87	63.493	63.414	-0.061	0.0	0.7	2.9
90	63.494	63.430	-0.060	0.0	0.7	3.0
93	63.494	63.446	-0.060	0.0	0.7	3.0
96	63.493	63.463	-0.061	0.0	0.7	3.0
99	63.492	63.478	-0.062	0.0	0.7	2.9
102	63.501	63.493	-0.053	0.0	0.6	2.7
105	63.514	63.506	-0.040	0.0	0.4	2.5
108	63.526	63.519	-0.028	0.0	0.3	2.4
111	63.537	63.530	-0.017	0.0	0.3	2.2
114	63.546	63.540	-0.008	0.0	0.2	2.0
117	63.554	63.549	0.000	0.0	0.2	1.8
120	63.561	63.556	0.007	0.0	0.2	1.6
123	63.567	63.563	0.013	0.0	0.1	1.4
126	63.573	63.569	0.018	0.0	0.1	1.3
129	63.577	63.573	0.023	0.0	0.1	1.1
132	63.581	63.578	0.026	0.0	0.1	1.0
135	63.584	63.581	0.029	0.0	0.1	0.9
138	63.586	63.584	0.032	0.0	0.1	0.8
141	63.588	63.586	0.034	0.0	0.1	0.7
144	63.590	63.588	0.036	0.0	0.1	0.6
147	63.592	63.590	0.038	0.0	0.1	0.6
150	63.594	63.592	0.040	0.0	0.1	0.5

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.595	63.593	0.041	0.0	0.1	0.5
156	63.597	63.595	0.043	0.0	0.1	0.5
159	63.599	63.597	0.045	0.0	0.1	0.5
162	63.601	63.599	0.046	0.0	0.1	0.5
165	63.602	63.601	0.048	0.0	0.1	0.5
168	63.604	63.602	0.050	0.0	0.1	0.5
171	63.605	63.604	0.051	0.0	0.0	0.5
174	63.607	63.605	0.052	0.0	0.0	0.4
177	63.607	63.606	0.053	0.0	0.0	0.3
180	63.607	63.606	0.052	0.0	0.0	0.2
183	63.606	63.606	0.052	0.0	0.0	0.1
186	63.605	63.605	0.050	0.0	0.0	0.0
189	63.604	63.604	0.050	0.0	0.0	0.0
192	63.603	63.603	0.049	0.0	0.0	0.0
195	63.602	63.602	0.048	0.0	0.0	0.0
198	63.601	63.601	0.047	0.0	0.0	0.0
201	63.600	63.601	0.046	0.0	0.0	0.0
204	63.600	63.600	0.046	0.0	0.0	0.0
207	63.599	63.599	0.045	0.0	0.0	0.0
210	63.598	63.598	0.044	0.0	0.0	0.0
213	63.598	63.598	0.043	0.0	0.0	0.0
216	63.597	63.597	0.043	0.0	0.0	0.0
219	63.596	63.596	0.042	0.0	0.0	0.0
222	63.596	63.596	0.042	0.0	0.0	0.0
225	63.595	63.595	0.041	0.0	0.0	0.0
228	63.594	63.595	0.040	0.0	0.0	0.0
231	63.594	63.594	0.040	0.0	0.0	0.0
234	63.593	63.593	0.039	0.0	0.0	0.0
237	63.593	63.593	0.039	0.0	0.0	0.0
240	63.592	63.592	0.038	0.0	0.0	0.0
243	63.592	63.592	0.038	0.0	0.0	0.0
246	63.591	63.591	0.037	0.0	0.0	0.0
249	63.591	63.591	0.037	0.0	0.0	0.0
252	63.590	63.590	0.036	0.0	0.0	0.0
255	63.590	63.590	0.035	0.0	0.0	0.0
258	63.589	63.589	0.035	0.0	0.0	0.0
261	63.589	63.589	0.034	0.0	0.0	0.0
264	63.588	63.588	0.034	0.0	0.0	0.0
267	63.588	63.588	0.033	0.0	0.0	0.0
270	63.587	63.587	0.033	0.0	0.0	0.0
273	63.587	63.587	0.033	0.0	0.0	0.0
276	63.586	63.586	0.032	0.0	0.0	0.0
279	63.586	63.586	0.032	0.0	0.0	0.0
282	63.585	63.585	0.031	0.0	0.0	0.0
285	63.585	63.585	0.031	0.0	0.0	0.0
288	63.584	63.584	0.030	0.0	0.0	0.0
291	63.584	63.584	0.030	0.0	0.0	0.0
294	63.583	63.583	0.029	0.0	0.0	0.0
297	63.583	63.583	0.029	0.0	0.0	0.0
300	63.583	63.583	0.028	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.582	63.582	0.028	0.0	0.0	0.0
306	63.582	63.582	0.028	0.0	0.0	0.0
309	63.581	63.581	0.027	0.0	0.0	0.0
312	63.581	63.581	0.027	0.0	0.0	0.0
315	63.580	63.580	0.026	0.0	0.0	0.0
318	63.580	63.580	0.026	0.0	0.0	0.0
321	63.579	63.579	0.025	0.0	0.0	0.0
324	63.579	63.579	0.024	0.0	0.0	0.0
327	63.578	63.578	0.024	0.0	0.0	0.0
330	63.578	63.578	0.024	0.0	0.0	0.0
333	63.577	63.578	0.023	0.0	0.0	0.0
336	63.577	63.577	0.023	0.0	0.0	0.0
339	63.577	63.577	0.022	0.0	0.0	0.0
342	63.576	63.576	0.022	0.0	0.0	0.0
345	63.576	63.576	0.022	0.0	0.0	0.0
348	63.575	63.575	0.021	0.0	0.0	0.0
351	63.575	63.575	0.021	0.0	0.0	0.0
354	63.574	63.574	0.020	0.0	0.0	0.0
357	63.574	63.574	0.020	0.0	0.0	0.0
360	63.574	63.574	0.019	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.250	63.100	-0.110	0.0	0.0	0.0
6	63.251	63.100	-0.109	0.0	0.0	0.0
9	63.252	63.100	-0.108	0.0	0.0	0.0
12	63.253	63.100	-0.107	0.0	0.0	0.0
15	63.256	63.100	-0.104	0.0	0.0	0.0
18	63.259	63.101	-0.101	0.0	0.0	0.0
21	63.261	63.101	-0.099	0.0	0.1	0.0
24	63.264	63.103	-0.096	0.0	0.1	0.0
27	63.267	63.105	-0.093	0.0	0.2	0.0
30	63.270	63.107	-0.090	0.0	0.2	0.1
33	63.273	63.110	-0.087	0.0	0.2	0.1
36	63.276	63.113	-0.084	0.0	0.3	0.1
39	63.278	63.116	-0.082	0.0	0.3	0.1
42	63.281	63.119	-0.079	0.0	0.3	0.1
45	63.284	63.123	-0.076	0.0	0.3	0.1
48	63.289	63.128	-0.071	0.0	0.3	0.1
51	63.293	63.131	-0.067	0.0	0.3	0.1
54	63.298	63.135	-0.062	0.0	0.3	0.1
57	63.303	63.139	-0.057	0.0	0.3	0.1
60	63.310	63.144	-0.050	0.0	0.3	0.1
63	63.317	63.148	-0.043	0.0	0.3	0.1
66	63.325	63.152	-0.035	0.0	0.3	0.2
69	63.336	63.159	-0.024	0.0	0.3	0.2
72	63.346	63.164	-0.014	0.0	0.3	0.2
75	63.358	63.171	-0.002	0.0	0.3	0.2
78	63.370	63.178	0.010	0.0	0.3	0.2
81	63.384	63.185	0.024	0.0	0.3	0.2
84	63.399	63.194	0.039	0.0	0.4	0.2
87	63.414	63.203	0.054	0.0	0.4	0.2
90	63.430	63.212	0.070	0.0	0.4	0.2
93	63.446	63.222	0.086	0.0	0.4	0.3
96	63.463	63.234	0.103	0.0	0.4	0.3
99	63.478	63.245	0.118	0.0	0.4	0.3
102	63.493	63.255	0.133	0.0	0.4	0.2
105	63.506	63.263	0.146	0.0	0.4	0.2
108	63.519	63.272	0.159	0.0	0.4	0.2
111	63.530	63.281	0.170	0.0	0.4	0.3
114	63.540	63.291	0.180	0.0	0.4	0.3
117	63.549	63.302	0.189	0.0	0.4	0.3
120	63.556	63.313	0.196	0.0	0.4	0.3
123	63.563	63.324	0.203	0.0	0.4	0.3
126	63.569	63.335	0.209	0.0	0.4	0.3
129	63.573	63.346	0.213	0.0	0.4	0.3
132	63.578	63.357	0.218	0.0	0.4	0.3
135	63.581	63.368	0.221	0.0	0.4	0.3
138	63.584	63.379	0.224	0.0	0.4	0.3
141	63.586	63.389	0.226	0.0	0.4	0.3
144	63.588	63.399	0.228	0.0	0.4	0.3
147	63.590	63.408	0.230	0.0	0.3	0.3
150	63.592	63.417	0.232	0.0	0.2	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.593	63.425	0.233	0.0	0.1	0.2
156	63.595	63.433	0.235	0.0	0.1	0.2
159	63.597	63.440	0.237	0.0	0.1	0.2
162	63.599	63.448	0.239	0.0	0.0	0.2
165	63.601	63.454	0.241	0.0	0.0	0.2
168	63.602	63.461	0.242	0.0	0.0	0.2
171	63.604	63.467	0.244	0.0	0.0	0.2
174	63.605	63.473	0.245	0.0	0.0	0.2
177	63.606	63.479	0.246	0.0	0.0	0.2
180	63.606	63.484	0.246	0.0	0.0	0.2
183	63.606	63.489	0.246	0.0	0.0	0.2
186	63.605	63.493	0.245	0.0	0.0	0.2
189	63.604	63.498	0.244	0.0	0.0	0.2
192	63.603	63.501	0.243	0.0	0.0	0.2
195	63.602	63.504	0.242	0.0	0.0	0.2
198	63.601	63.508	0.241	0.0	0.0	0.1
201	63.601	63.511	0.241	0.0	0.0	0.1
204	63.600	63.513	0.240	0.0	0.0	0.1
207	63.599	63.516	0.239	0.0	0.0	0.1
210	63.598	63.518	0.238	0.0	0.0	0.1
213	63.598	63.519	0.238	0.0	0.0	0.1
216	63.597	63.521	0.237	0.0	0.0	0.1
219	63.596	63.522	0.236	0.0	0.0	0.1
222	63.596	63.524	0.236	0.0	0.0	0.1
225	63.595	63.525	0.235	0.0	0.0	0.1
228	63.595	63.526	0.235	0.0	0.0	0.1
231	63.594	63.527	0.234	0.0	0.0	0.1
234	63.593	63.528	0.233	0.0	0.0	0.1
237	63.593	63.528	0.233	0.0	0.0	0.1
240	63.592	63.529	0.232	0.0	0.0	0.1
243	63.592	63.529	0.232	0.0	0.0	0.1
246	63.591	63.530	0.231	0.0	0.0	0.1
249	63.591	63.530	0.231	0.0	0.0	0.1
252	63.590	63.530	0.230	0.0	0.0	0.1
255	63.590	63.531	0.230	0.0	0.0	0.1
258	63.589	63.531	0.229	0.0	0.0	0.1
261	63.589	63.531	0.229	0.0	0.0	0.1
264	63.588	63.531	0.228	0.0	0.0	0.1
267	63.588	63.531	0.228	0.0	0.0	0.1
270	63.587	63.531	0.227	0.0	0.0	0.1
273	63.587	63.531	0.227	0.0	0.0	0.1
276	63.586	63.531	0.226	0.0	0.0	0.1
279	63.586	63.531	0.226	0.0	0.0	0.1
282	63.585	63.530	0.225	0.0	0.0	0.1
285	63.585	63.530	0.225	0.0	0.0	0.1
288	63.584	63.530	0.224	0.0	0.0	0.1
291	63.584	63.530	0.224	0.0	0.0	0.1
294	63.583	63.530	0.223	0.0	0.0	0.1
297	63.583	63.529	0.223	0.0	0.0	0.1
300	63.583	63.529	0.223	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.582	63.529	0.222	0.0	0.0	0.1
306	63.582	63.528	0.222	0.0	0.0	0.1
309	63.581	63.528	0.221	0.0	0.0	0.1
312	63.581	63.528	0.221	0.0	0.0	0.1
315	63.580	63.528	0.220	0.0	0.0	0.1
318	63.580	63.527	0.220	0.0	0.0	0.1
321	63.579	63.527	0.219	0.0	0.0	0.1
324	63.579	63.526	0.219	0.0	0.0	0.1
327	63.578	63.526	0.218	0.0	0.0	0.1
330	63.578	63.526	0.218	0.0	0.0	0.1
333	63.578	63.525	0.218	0.0	0.0	0.1
336	63.577	63.525	0.217	0.0	0.0	0.1
339	63.577	63.525	0.217	0.0	0.0	0.1
342	63.576	63.524	0.216	0.0	0.0	0.1
345	63.576	63.524	0.216	0.0	0.0	0.1
348	63.575	63.523	0.215	0.0	0.0	0.1
351	63.575	63.523	0.215	0.0	0.0	0.1
354	63.574	63.523	0.214	0.0	0.0	0.1
357	63.574	63.522	0.214	0.0	0.0	0.1
360	63.574	63.522	0.214	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
9	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
15	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.101	63.096	-0.109	0.0	0.0	0.0
21	63.101	63.096	-0.109	0.0	0.0	0.0
24	63.103	63.096	-0.107	0.0	0.0	0.0
27	63.105	63.096	-0.105	0.0	0.0	0.0
30	63.107	63.096	-0.103	0.0	0.0	0.0
33	63.110	63.096	-0.100	0.0	0.0	0.0
36	63.113	63.096	-0.097	0.0	0.0	0.0
39	63.116	63.096	-0.094	0.0	0.0	0.0
42	63.119	63.096	-0.091	0.0	0.0	0.0
45	63.123	63.096	-0.087	0.0	0.0	0.0
48	63.128	63.096	-0.082	0.0	0.0	0.0
51	63.131	63.096	-0.079	0.0	0.0	0.0
54	63.135	63.096	-0.075	0.0	0.0	0.0
57	63.139	63.096	-0.071	0.0	0.0	0.0
60	63.144	63.096	-0.066	0.0	0.0	0.0
63	63.148	63.096	-0.062	0.0	0.0	0.0
66	63.152	63.096	-0.058	0.0	0.0	0.0
69	63.159	63.096	-0.051	0.0	0.0	0.0
72	63.164	63.096	-0.046	0.0	0.0	0.0
75	63.171	63.096	-0.039	0.0	0.0	0.0
78	63.178	63.096	-0.032	0.0	0.0	0.0
81	63.185	63.096	-0.025	0.0	0.0	0.0
84	63.194	63.096	-0.016	0.0	0.0	0.0
87	63.203	63.096	-0.007	0.0	0.0	0.0
90	63.212	63.096	0.002	0.0	0.0	0.0
93	63.222	63.096	0.012	0.0	0.0	0.0
96	63.234	63.096	0.024	0.0	0.0	0.0
99	63.245	63.096	0.035	0.0	0.0	0.0
102	63.255	63.096	0.045	0.0	0.0	0.0
105	63.263	63.096	0.053	0.0	0.0	0.0
108	63.272	63.096	0.062	0.0	0.0	0.0
111	63.281	63.096	0.071	0.0	0.0	0.0
114	63.291	63.096	0.081	0.0	0.0	0.0
117	63.302	63.096	0.092	0.0	0.0	0.0
120	63.313	63.096	0.103	0.0	0.0	0.0
123	63.324	63.096	0.114	0.0	0.0	0.0
126	63.335	63.096	0.125	0.0	0.1	0.0
129	63.346	63.096	0.136	0.0	0.1	0.0
132	63.357	63.096	0.147	0.0	0.1	0.0
135	63.368	63.096	0.158	0.0	0.1	0.0
138	63.379	63.096	0.169	0.0	0.1	0.0
141	63.389	63.096	0.179	0.0	0.1	0.0
144	63.399	63.096	0.189	0.0	0.1	0.0
147	63.408	63.096	0.198	0.0	0.1	0.0
150	63.417	63.096	0.207	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
153	63.425	63.096	0.215	0.0	0.1	0.0
156	63.433	63.096	0.223	0.0	0.1	0.0
159	63.440	63.096	0.230	0.0	0.1	0.0
162	63.448	63.096	0.238	0.0	0.1	0.0
165	63.454	63.096	0.244	0.0	0.1	0.0
168	63.461	63.096	0.251	0.0	0.1	0.0
171	63.467	63.096	0.257	0.0	0.1	0.0
174	63.473	63.096	0.263	0.0	0.1	0.0
177	63.479	63.096	0.269	0.0	0.1	0.0
180	63.484	63.096	0.274	0.0	0.1	0.0
183	63.489	63.096	0.279	0.0	0.1	0.0
186	63.493	63.096	0.283	0.0	0.1	0.0
189	63.498	63.096	0.288	0.0	0.1	0.0
192	63.501	63.096	0.291	0.0	0.1	0.0
195	63.504	63.096	0.294	0.0	0.1	0.0
198	63.508	63.096	0.298	0.0	0.1	0.0
201	63.511	63.096	0.301	0.0	0.1	0.0
204	63.513	63.096	0.303	0.0	0.1	0.0
207	63.516	63.096	0.306	0.0	0.1	0.0
210	63.518	63.096	0.308	0.0	0.1	0.0
213	63.519	63.096	0.309	0.0	0.1	0.0
216	63.521	63.096	0.311	0.0	0.1	0.0
219	63.522	63.096	0.312	0.0	0.1	0.0
222	63.524	63.096	0.314	0.0	0.1	0.0
225	63.525	63.096	0.315	0.0	0.1	0.0
228	63.526	63.096	0.316	0.0	0.1	0.0
231	63.527	63.096	0.317	0.0	0.1	0.0
234	63.528	63.096	0.318	0.0	0.1	0.0
237	63.528	63.096	0.318	0.0	0.1	0.0
240	63.529	63.096	0.319	0.0	0.1	0.0
243	63.529	63.096	0.319	0.0	0.1	0.0
246	63.530	63.096	0.320	0.0	0.1	0.0
249	63.530	63.096	0.320	0.0	0.1	0.0
252	63.530	63.096	0.320	0.0	0.1	0.0
255	63.531	63.096	0.321	0.0	0.1	0.0
258	63.531	63.096	0.321	0.0	0.1	0.0
261	63.531	63.096	0.321	0.0	0.1	0.0
264	63.531	63.096	0.321	0.0	0.1	0.0
267	63.531	63.096	0.321	0.0	0.1	0.0
270	63.531	63.096	0.321	0.0	0.1	0.0
273	63.531	63.096	0.321	0.0	0.1	0.0
276	63.531	63.096	0.321	0.0	0.1	0.0
279	63.531	63.096	0.321	0.0	0.1	0.0
282	63.530	63.096	0.320	0.0	0.1	0.0
285	63.530	63.096	0.320	0.0	0.1	0.0
288	63.530	63.096	0.320	0.0	0.1	0.0
291	63.530	63.096	0.320	0.0	0.1	0.0
294	63.530	63.096	0.320	0.0	0.1	0.0
297	63.529	63.096	0.319	0.0	0.1	0.0
300	63.529	63.096	0.319	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
303	63.529	63.096	0.319	0.0	0.1	0.0
306	63.528	63.096	0.318	0.0	0.1	0.0
309	63.528	63.096	0.318	0.0	0.1	0.0
312	63.528	63.096	0.318	0.0	0.1	0.0
315	63.528	63.096	0.318	0.0	0.1	0.0
318	63.527	63.096	0.317	0.0	0.1	0.0
321	63.527	63.096	0.317	0.0	0.1	0.0
324	63.526	63.096	0.316	0.0	0.1	0.0
327	63.526	63.096	0.316	0.0	0.1	0.0
330	63.526	63.096	0.316	0.0	0.1	0.0
333	63.525	63.096	0.315	0.0	0.1	0.0
336	63.525	63.096	0.315	0.0	0.1	0.0
339	63.525	63.096	0.315	0.0	0.1	0.0
342	63.524	63.096	0.314	0.0	0.1	0.0
345	63.524	63.096	0.314	0.0	0.1	0.0
348	63.523	63.096	0.313	0.0	0.1	0.0
351	63.523	63.096	0.313	0.0	0.1	0.0
354	63.523	63.096	0.313	0.0	0.1	0.0
357	63.522	63.096	0.312	0.0	0.1	0.0
360	63.522	63.096	0.312	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	480
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	4

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	240
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 240 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.413	-0.097	0.000	0.04	0.0	0.9	OK
1.001	S1	63.623	0.019	0.000	0.27	0.0	1.8	SURCHARGED
2.000	RE2	65.415	-0.095	0.000	0.04	0.0	0.9	OK
2.001	S2	65.018	-0.092	0.000	0.06	0.0	1.8	OK
1.002	S3	63.622	0.068	0.000	0.51	0.0	3.7	SURCHARGED
1.003	S4	63.622	0.262	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.552	0.342	0.000	0.00	0.0	0.0	SURCHARGED

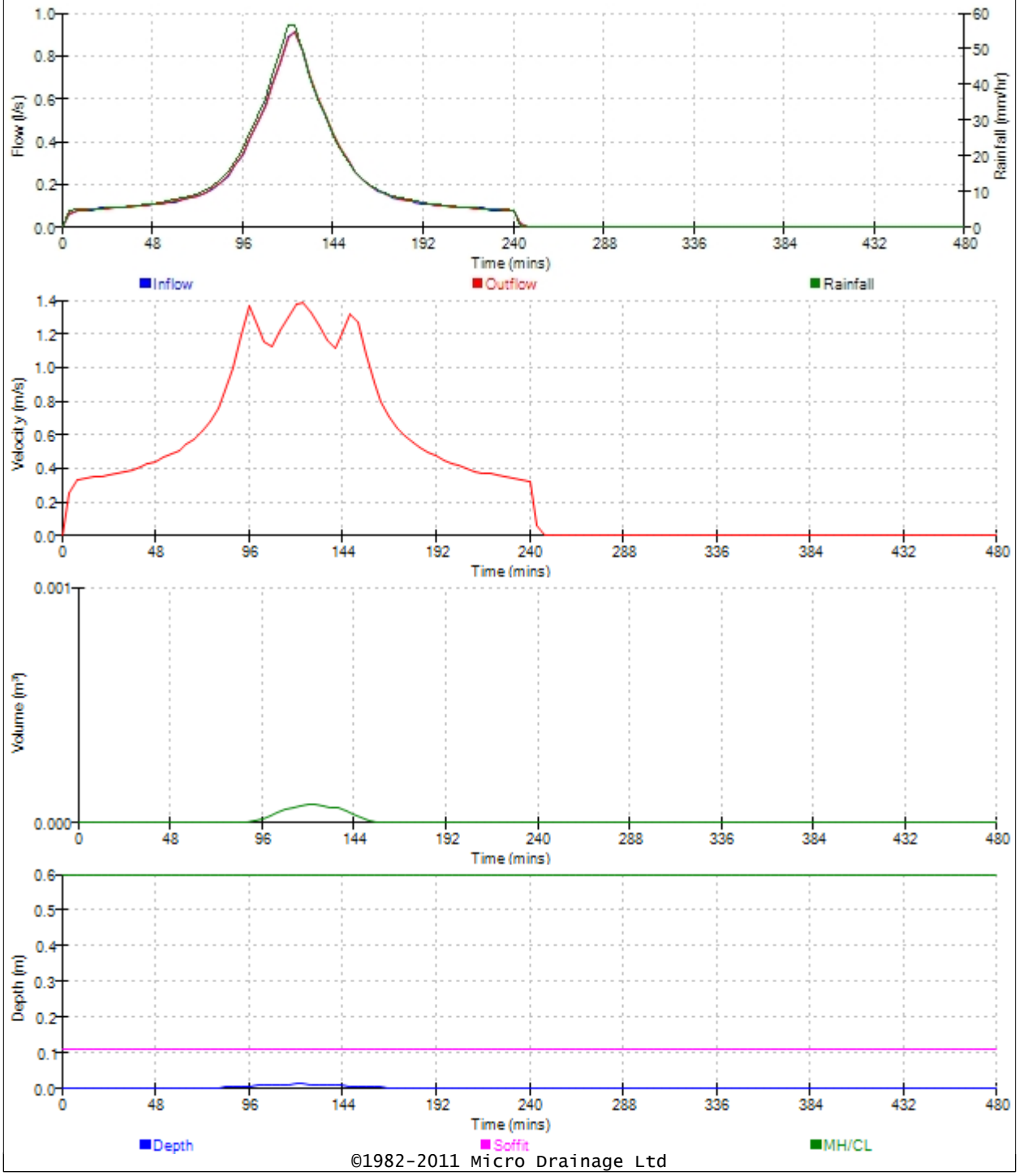
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Rainfall Hyetograph for 240 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
4	4.861	52	7.022	100	26.587	148	21.846	196	6.692
8	4.981	56	7.382	104	31.208	152	18.455	200	6.452
12	5.101	60	7.742	108	36.190	156	15.514	204	6.212
16	5.251	64	8.222	112	42.671	160	13.234	208	5.942
20	5.371	68	8.732	116	49.273	164	11.703	212	5.731
24	5.491	72	9.422	120	56.775	168	10.443	216	5.611
28	5.611	76	10.443	124	56.775	172	9.422	220	5.492
32	5.732	80	11.703	128	49.273	176	8.732	224	5.371
36	5.942	84	13.234	132	42.671	180	8.222	228	5.251
40	6.212	88	15.514	136	36.190	184	7.742	232	5.101
44	6.452	92	18.455	140	31.208	188	7.382	236	4.981
48	6.692	96	21.846	144	26.587	192	7.022	240	4.861

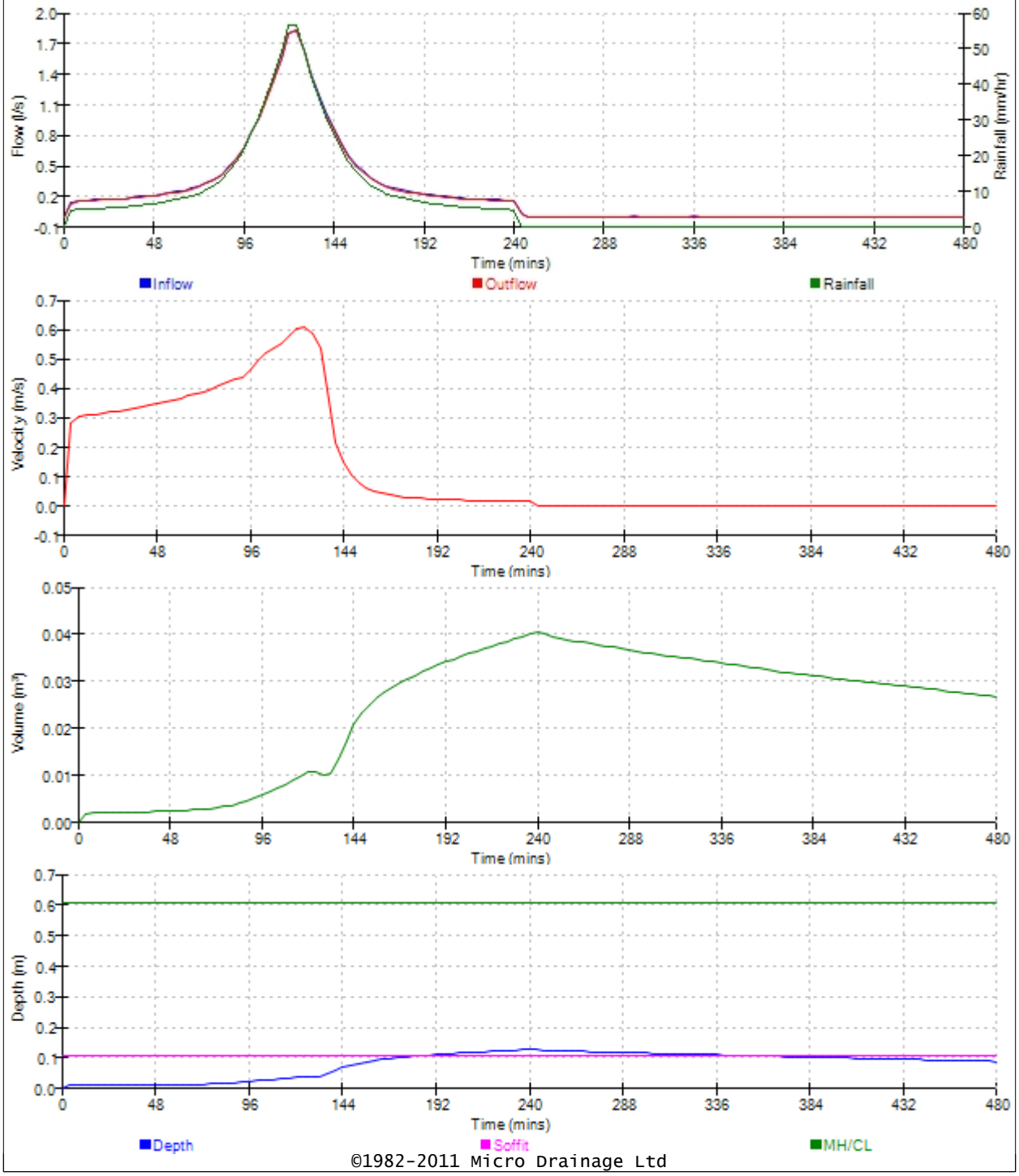
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Summer
Status: OK



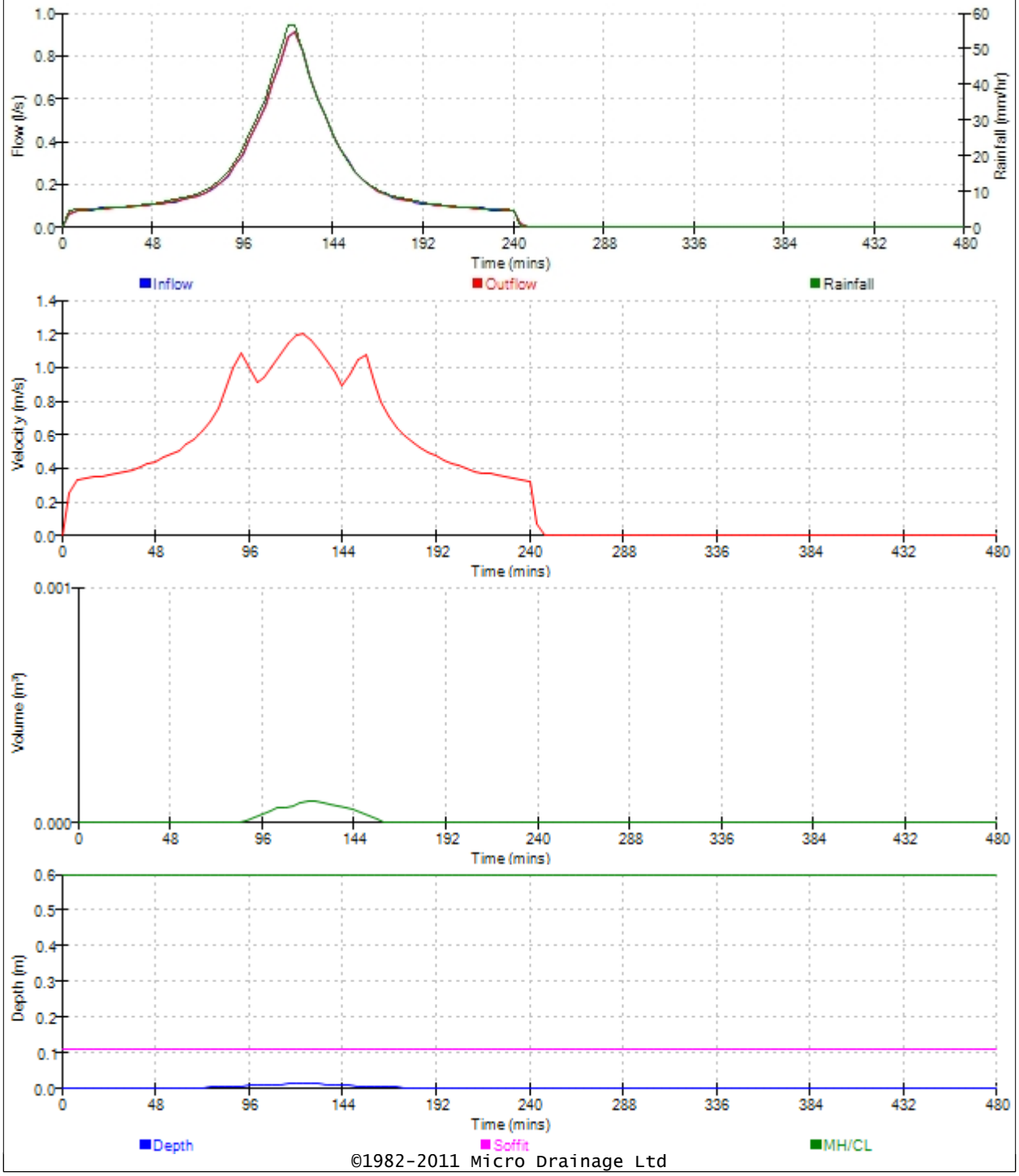
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Graphs for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Summer
Status: SURCHARGED



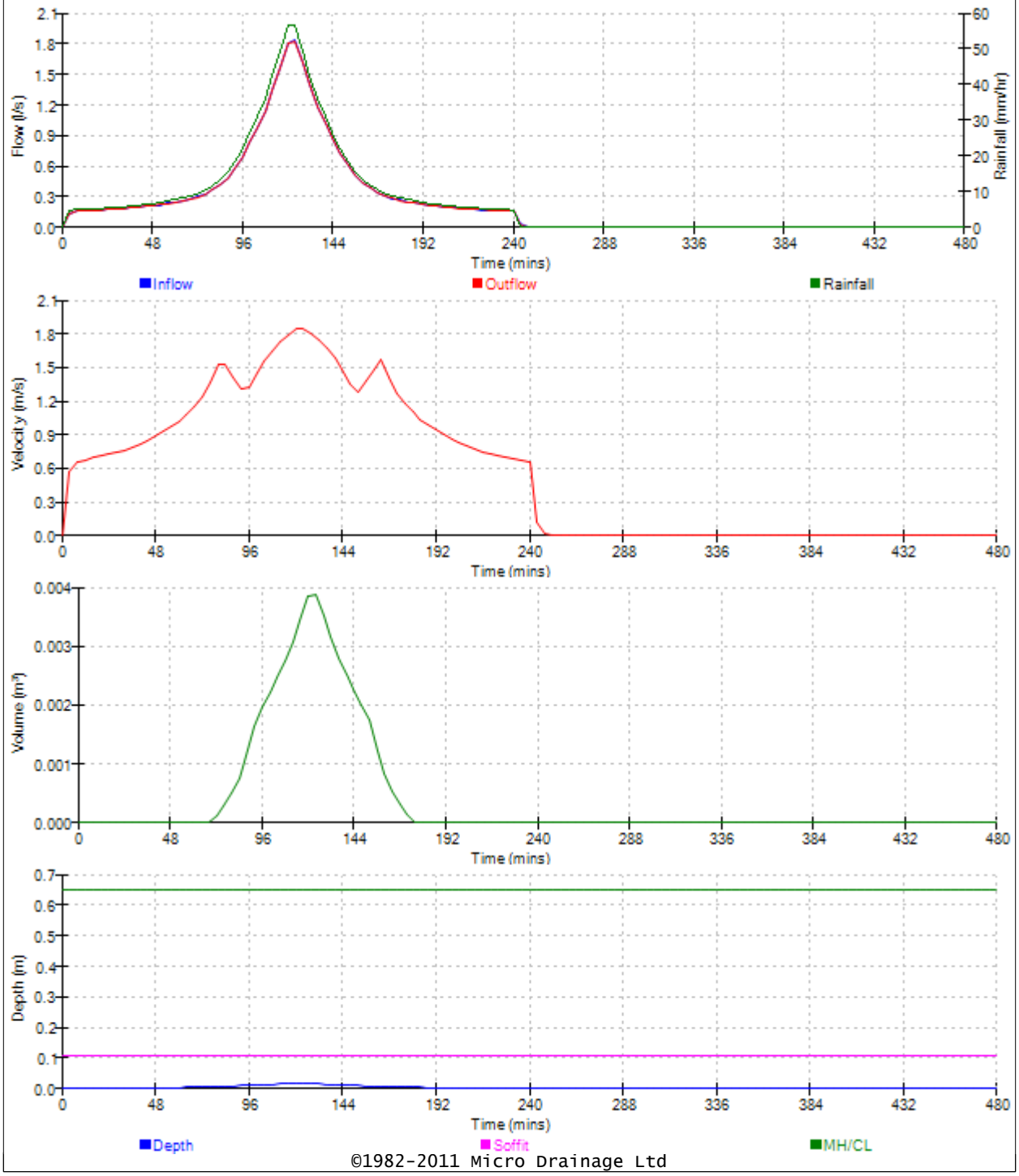
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Summer
Status: OK



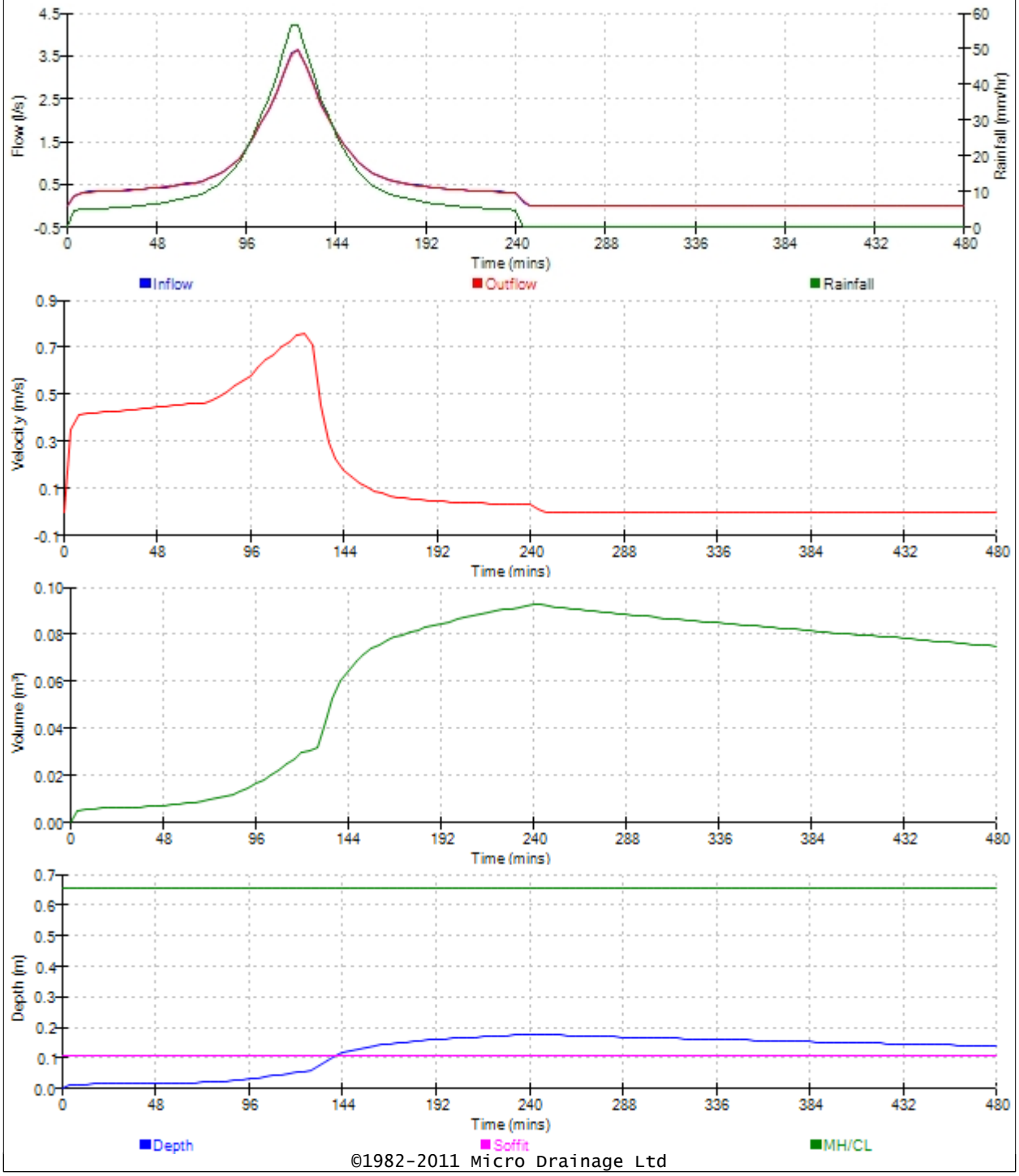
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Graphs for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Summer
Status: OK



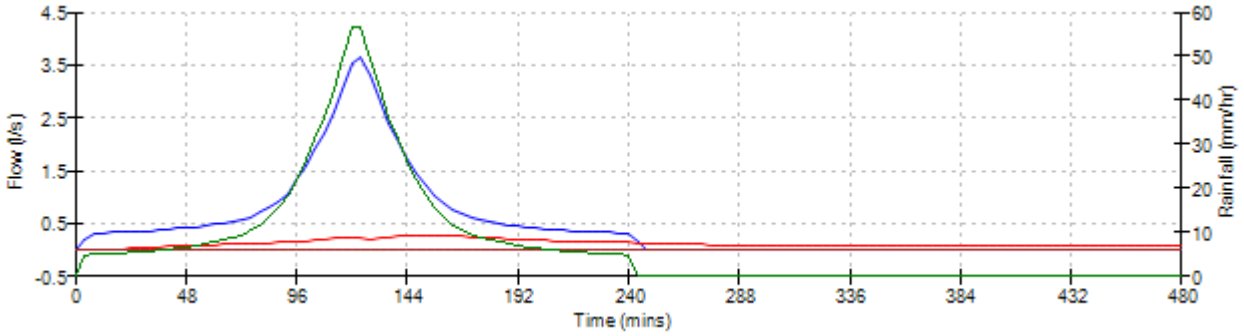
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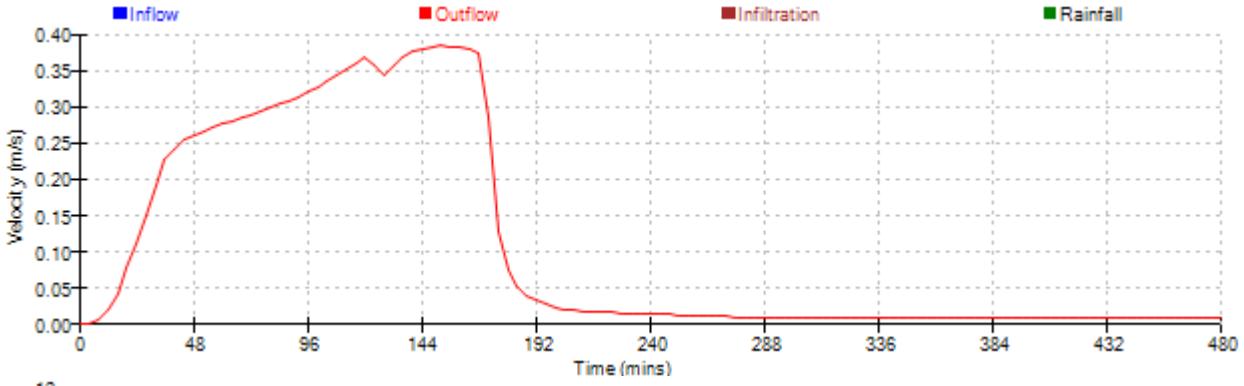
Graphs for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Summer
Status: SURCHARGED

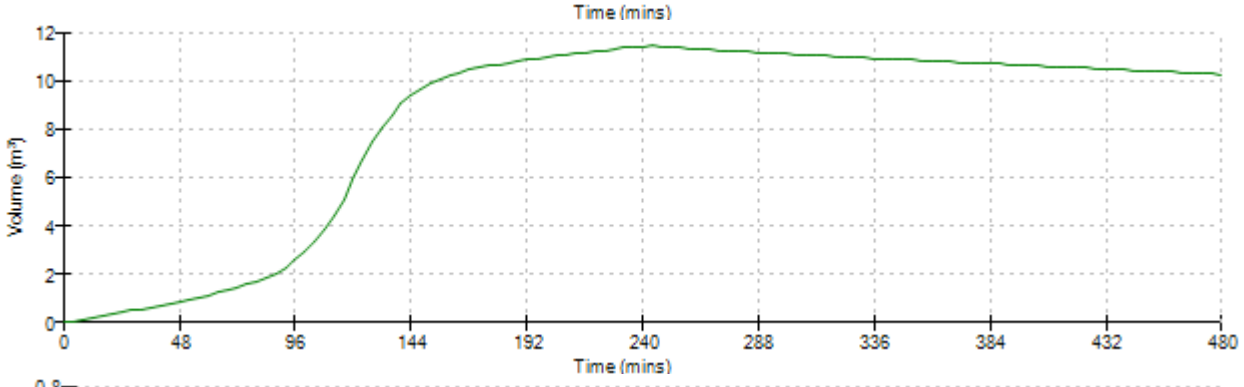


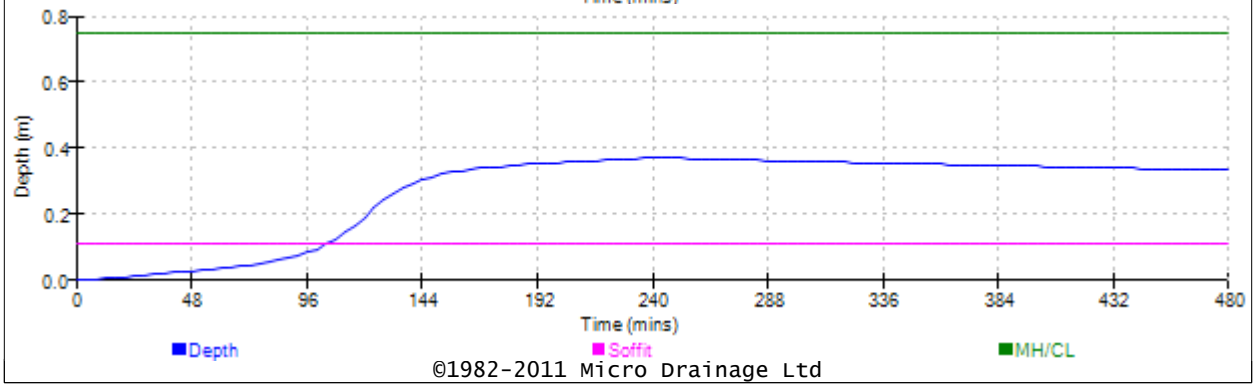
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Graphs for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Summer
Status: SURCHARGED



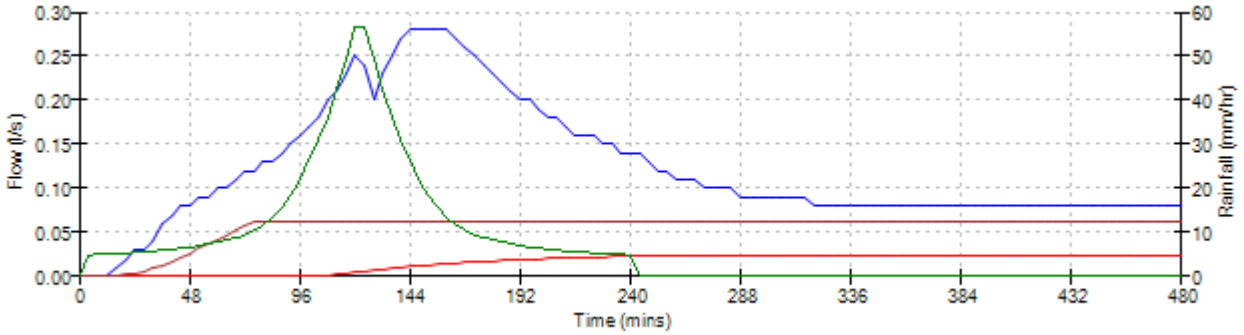


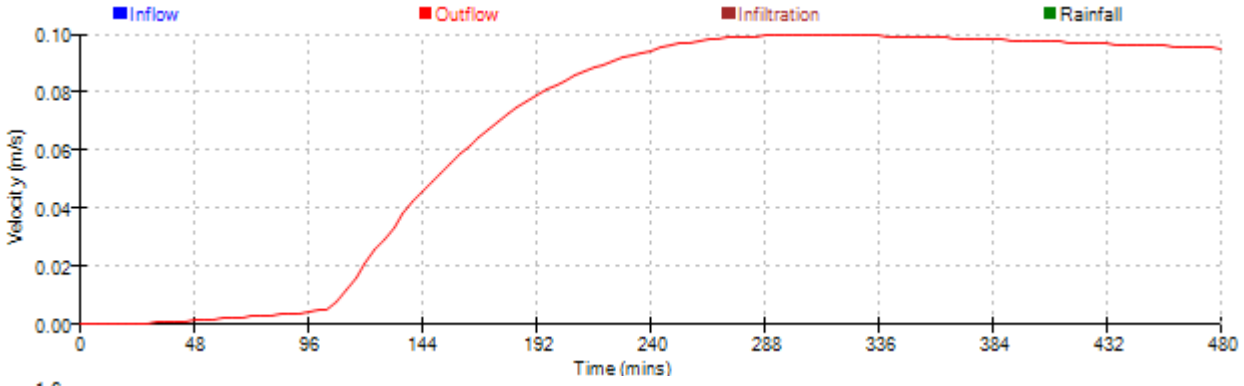


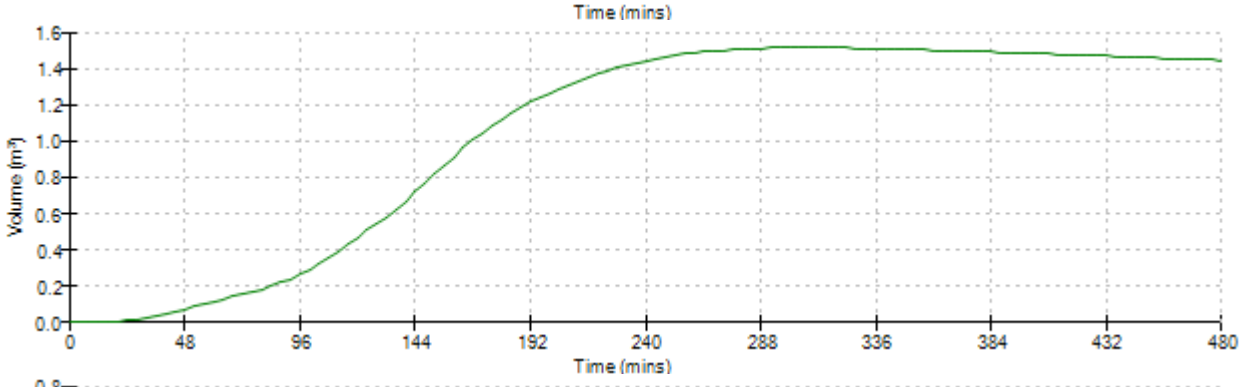


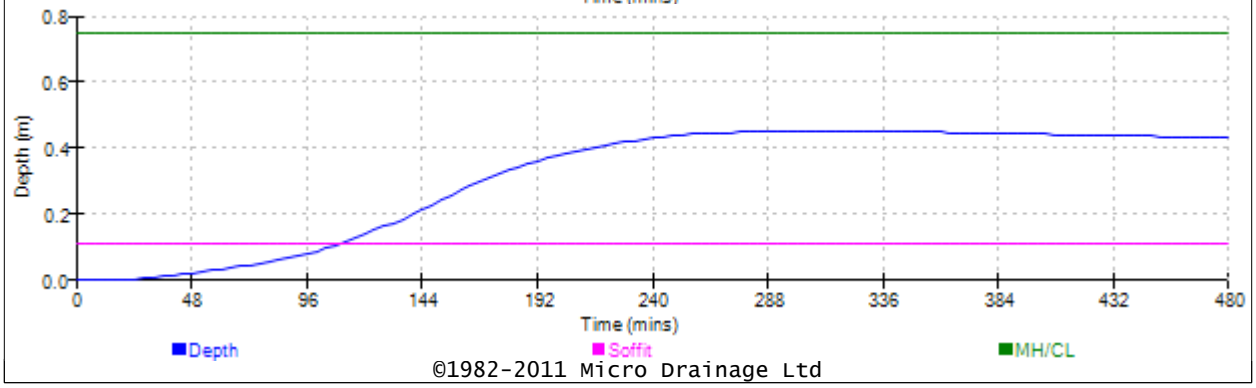
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.401	63.505	-0.109	0.0	0.3	0.1
8	65.402	63.506	-0.108	0.0	0.3	0.1
12	65.402	63.506	-0.108	0.0	0.3	0.1
16	65.402	63.506	-0.108	0.0	0.3	0.1
20	65.402	63.506	-0.108	0.0	0.4	0.1
24	65.402	63.506	-0.108	0.0	0.4	0.1
28	65.402	63.506	-0.108	0.0	0.4	0.1
32	65.402	63.506	-0.108	0.0	0.4	0.1
36	65.402	63.506	-0.108	0.0	0.4	0.1
40	65.402	63.507	-0.108	0.0	0.4	0.1
44	65.402	63.507	-0.108	0.0	0.4	0.1
48	65.402	63.507	-0.108	0.0	0.4	0.1
52	65.402	63.507	-0.108	0.0	0.5	0.1
56	65.402	63.507	-0.108	0.0	0.5	0.1
60	65.403	63.508	-0.107	0.0	0.5	0.1
64	65.403	63.508	-0.107	0.0	0.5	0.1
68	65.403	63.508	-0.107	0.0	0.6	0.1
72	65.403	63.509	-0.107	0.0	0.6	0.1
76	65.403	63.510	-0.107	0.0	0.7	0.2
80	65.404	63.511	-0.106	0.0	0.8	0.2
84	65.404	63.512	-0.106	0.0	0.9	0.2
88	65.405	63.514	-0.105	0.0	1.0	0.2
92	65.406	63.516	-0.104	0.0	1.2	0.3
96	65.407	63.518	-0.103	0.0	1.4	0.3
100	65.408	63.520	-0.102	0.0	1.2	0.4
104	65.410	63.522	-0.100	0.0	1.2	0.5
108	65.411	63.525	-0.099	0.0	1.1	0.6
112	65.412	63.528	-0.098	0.0	1.2	0.7
116	65.412	63.530	-0.098	0.0	1.3	0.8
120	65.413	63.533	-0.097	0.0	1.4	0.9
124	65.413	63.533	-0.097	0.0	1.4	0.9
128	65.413	63.531	-0.097	0.0	1.3	0.8
132	65.412	63.532	-0.098	0.0	1.3	0.7
136	65.411	63.542	-0.099	0.0	1.2	0.6
140	65.411	63.554	-0.099	0.0	1.1	0.5
144	65.409	63.564	-0.101	0.0	1.2	0.4
148	65.407	63.572	-0.103	0.0	1.3	0.4
152	65.406	63.578	-0.104	0.0	1.3	0.3
156	65.405	63.583	-0.105	0.0	1.1	0.3
160	65.404	63.587	-0.106	0.0	0.9	0.2
164	65.404	63.590	-0.106	0.0	0.8	0.2
168	65.403	63.593	-0.107	0.0	0.7	0.2
172	65.403	63.595	-0.107	0.0	0.6	0.2
176	65.403	63.598	-0.107	0.0	0.6	0.1
180	65.403	63.600	-0.107	0.0	0.6	0.1
184	65.403	63.602	-0.107	0.0	0.5	0.1
188	65.402	63.604	-0.108	0.0	0.5	0.1
192	65.402	63.605	-0.108	0.0	0.5	0.1
196	65.402	63.607	-0.108	0.0	0.5	0.1
200	65.402	63.609	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.402	63.610	-0.108	0.0	0.4	0.1
208	65.402	63.612	-0.108	0.0	0.4	0.1
212	65.402	63.613	-0.108	0.0	0.4	0.1
216	65.402	63.615	-0.108	0.0	0.4	0.1
220	65.402	63.616	-0.108	0.0	0.4	0.1
224	65.402	63.618	-0.108	0.0	0.4	0.1
228	65.402	63.619	-0.108	0.0	0.4	0.1
232	65.402	63.620	-0.108	0.0	0.3	0.1
236	65.402	63.622	-0.108	0.0	0.3	0.1
240	65.402	63.623	-0.108	0.0	0.3	0.1
244	65.400	63.622	-0.110	0.0	0.1	0.0
248	65.400	63.620	-0.110	0.0	0.0	0.0
252	65.400	63.619	-0.110	0.0	0.0	0.0
256	65.400	63.619	-0.110	0.0	0.0	0.0
260	65.400	63.618	-0.110	0.0	0.0	0.0
264	65.400	63.617	-0.110	0.0	0.0	0.0
268	65.400	63.616	-0.110	0.0	0.0	0.0
272	65.400	63.615	-0.110	0.0	0.0	0.0
276	65.400	63.615	-0.110	0.0	0.0	0.0
280	65.400	63.614	-0.110	0.0	0.0	0.0
284	65.400	63.613	-0.110	0.0	0.0	0.0
288	65.400	63.612	-0.110	0.0	0.0	0.0
292	65.400	63.612	-0.110	0.0	0.0	0.0
296	65.400	63.611	-0.110	0.0	0.0	0.0
300	65.400	63.611	-0.110	0.0	0.0	0.0
304	65.400	63.610	-0.110	0.0	0.0	0.0
308	65.400	63.609	-0.110	0.0	0.0	0.0
312	65.400	63.608	-0.110	0.0	0.0	0.0
316	65.400	63.608	-0.110	0.0	0.0	0.0
320	65.400	63.607	-0.110	0.0	0.0	0.0
324	65.400	63.607	-0.110	0.0	0.0	0.0
328	65.400	63.606	-0.110	0.0	0.0	0.0
332	65.400	63.605	-0.110	0.0	0.0	0.0
336	65.400	63.605	-0.110	0.0	0.0	0.0
340	65.400	63.604	-0.110	0.0	0.0	0.0
344	65.400	63.603	-0.110	0.0	0.0	0.0
348	65.400	63.603	-0.110	0.0	0.0	0.0
352	65.400	63.602	-0.110	0.0	0.0	0.0
356	65.400	63.602	-0.110	0.0	0.0	0.0
360	65.400	63.601	-0.110	0.0	0.0	0.0
364	65.400	63.600	-0.110	0.0	0.0	0.0
368	65.400	63.600	-0.110	0.0	0.0	0.0
372	65.400	63.599	-0.110	0.0	0.0	0.0
376	65.400	63.598	-0.110	0.0	0.0	0.0
380	65.400	63.598	-0.110	0.0	0.0	0.0
384	65.400	63.597	-0.110	0.0	0.0	0.0
388	65.400	63.597	-0.110	0.0	0.0	0.0
392	65.400	63.596	-0.110	0.0	0.0	0.0
396	65.400	63.595	-0.110	0.0	0.0	0.0
400	65.400	63.595	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.400	63.594	-0.110	0.0	0.0	0.0
408	65.400	63.594	-0.110	0.0	0.0	0.0
412	65.400	63.593	-0.110	0.0	0.0	0.0
416	65.400	63.593	-0.110	0.0	0.0	0.0
420	65.400	63.592	-0.110	0.0	0.0	0.0
424	65.400	63.591	-0.110	0.0	0.0	0.0
428	65.400	63.591	-0.110	0.0	0.0	0.0
432	65.400	63.590	-0.110	0.0	0.0	0.0
436	65.400	63.589	-0.110	0.0	0.0	0.0
440	65.400	63.589	-0.110	0.0	0.0	0.0
444	65.400	63.588	-0.110	0.0	0.0	0.0
448	65.400	63.588	-0.110	0.0	0.0	0.0
452	65.400	63.587	-0.110	0.0	0.0	0.0
456	65.400	63.587	-0.110	0.0	0.0	0.0
460	65.400	63.586	-0.110	0.0	0.0	0.0
464	65.400	63.585	-0.110	0.0	0.0	0.0
468	65.400	63.585	-0.110	0.0	0.0	0.0
472	65.400	63.584	-0.110	0.0	0.0	0.0
476	65.400	63.584	-0.110	0.0	0.0	0.0
480	65.400	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.505	63.458	-0.099	0.0	0.3	0.1
8	63.506	63.459	-0.099	0.0	0.3	0.2
12	63.506	63.459	-0.098	0.0	0.3	0.2
16	63.506	63.459	-0.098	0.0	0.3	0.2
20	63.506	63.460	-0.098	0.0	0.3	0.2
24	63.506	63.460	-0.098	0.0	0.3	0.2
28	63.506	63.460	-0.098	0.0	0.3	0.2
32	63.506	63.460	-0.098	0.0	0.3	0.2
36	63.506	63.460	-0.098	0.0	0.3	0.2
40	63.507	63.461	-0.098	0.0	0.3	0.2
44	63.507	63.461	-0.097	0.0	0.3	0.2
48	63.507	63.461	-0.097	0.0	0.3	0.2
52	63.507	63.462	-0.097	0.0	0.4	0.2
56	63.507	63.462	-0.097	0.0	0.4	0.2
60	63.508	63.463	-0.096	0.0	0.4	0.2
64	63.508	63.464	-0.096	0.0	0.4	0.3
68	63.508	63.464	-0.096	0.0	0.4	0.3
72	63.509	63.465	-0.095	0.0	0.4	0.3
76	63.510	63.467	-0.094	0.0	0.4	0.3
80	63.511	63.468	-0.093	0.0	0.4	0.4
84	63.512	63.469	-0.092	0.0	0.4	0.4
88	63.514	63.471	-0.090	0.0	0.4	0.5
92	63.516	63.474	-0.088	0.0	0.4	0.6
96	63.518	63.477	-0.086	0.0	0.5	0.7
100	63.520	63.480	-0.084	0.0	0.5	0.8
104	63.522	63.483	-0.082	0.0	0.5	1.0
108	63.525	63.487	-0.080	0.0	0.5	1.1
112	63.528	63.491	-0.077	0.0	0.6	1.3
116	63.530	63.495	-0.074	0.0	0.6	1.6
120	63.533	63.499	-0.071	0.0	0.6	1.8
124	63.533	63.500	-0.071	0.0	0.6	1.8
128	63.531	63.503	-0.074	0.0	0.6	1.6
132	63.532	63.522	-0.072	0.0	0.5	1.4
136	63.542	63.537	-0.062	0.0	0.4	1.2
140	63.554	63.550	-0.050	0.0	0.2	1.0
144	63.564	63.560	-0.040	0.0	0.1	0.9
148	63.572	63.569	-0.033	0.0	0.1	0.7
152	63.578	63.575	-0.026	0.0	0.1	0.6
156	63.583	63.580	-0.021	0.0	0.1	0.5
160	63.587	63.585	-0.018	0.0	0.1	0.4
164	63.590	63.588	-0.014	0.0	0.0	0.4
168	63.593	63.591	-0.011	0.0	0.0	0.3
172	63.595	63.594	-0.009	0.0	0.0	0.3
176	63.598	63.596	-0.007	0.0	0.0	0.3
180	63.600	63.599	-0.004	0.0	0.0	0.3
184	63.602	63.601	-0.002	0.0	0.0	0.2
188	63.604	63.603	0.000	0.0	0.0	0.2
192	63.605	63.605	0.001	0.0	0.0	0.2
196	63.607	63.606	0.003	0.0	0.0	0.2
200	63.609	63.608	0.005	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.610	63.610	0.006	0.0	0.0	0.2
208	63.612	63.611	0.008	0.0	0.0	0.2
212	63.613	63.613	0.009	0.0	0.0	0.2
216	63.615	63.614	0.011	0.0	0.0	0.2
220	63.616	63.616	0.012	0.0	0.0	0.2
224	63.618	63.617	0.014	0.0	0.0	0.2
228	63.619	63.618	0.015	0.0	0.0	0.2
232	63.620	63.620	0.016	0.0	0.0	0.2
236	63.622	63.621	0.018	0.0	0.0	0.2
240	63.623	63.622	0.019	0.0	0.0	0.2
244	63.622	63.622	0.018	0.0	0.0	0.0
248	63.620	63.621	0.016	0.0	0.0	0.0
252	63.619	63.620	0.015	0.0	0.0	0.0
256	63.619	63.619	0.014	0.0	0.0	0.0
260	63.618	63.618	0.014	0.0	0.0	0.0
264	63.617	63.617	0.013	0.0	0.0	0.0
268	63.616	63.616	0.012	0.0	0.0	0.0
272	63.615	63.616	0.011	0.0	0.0	0.0
276	63.615	63.615	0.011	0.0	0.0	0.0
280	63.614	63.614	0.010	0.0	0.0	0.0
284	63.613	63.613	0.009	0.0	0.0	0.0
288	63.612	63.613	0.008	0.0	0.0	0.0
292	63.612	63.612	0.008	0.0	0.0	0.0
296	63.611	63.611	0.007	0.0	0.0	0.0
300	63.611	63.611	0.006	0.0	0.0	0.0
304	63.610	63.610	0.006	0.0	0.0	0.0
308	63.609	63.609	0.005	0.0	0.0	0.0
312	63.608	63.609	0.004	0.0	0.0	0.0
316	63.608	63.608	0.004	0.0	0.0	0.0
320	63.607	63.607	0.003	0.0	0.0	0.0
324	63.607	63.607	0.002	0.0	0.0	0.0
328	63.606	63.606	0.002	0.0	0.0	0.0
332	63.605	63.606	0.001	0.0	0.0	0.0
336	63.605	63.605	0.001	0.0	0.0	0.0
340	63.604	63.604	0.000	0.0	0.0	0.0
344	63.603	63.604	-0.001	0.0	0.0	0.0
348	63.603	63.603	-0.001	0.0	0.0	0.0
352	63.602	63.603	-0.002	0.0	0.0	0.0
356	63.602	63.602	-0.002	0.0	0.0	0.0
360	63.601	63.601	-0.003	0.0	0.0	0.0
364	63.600	63.601	-0.004	0.0	0.0	0.0
368	63.600	63.600	-0.005	0.0	0.0	0.0
372	63.599	63.599	-0.005	0.0	0.0	0.0
376	63.598	63.599	-0.006	0.0	0.0	0.0
380	63.598	63.598	-0.006	0.0	0.0	0.0
384	63.597	63.597	-0.007	0.0	0.0	0.0
388	63.597	63.597	-0.007	0.0	0.0	0.0
392	63.596	63.596	-0.008	0.0	0.0	0.0
396	63.595	63.595	-0.009	0.0	0.0	0.0
400	63.595	63.595	-0.009	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.594	63.595	-0.010	0.0	0.0	0.0
408	63.594	63.594	-0.010	0.0	0.0	0.0
412	63.593	63.593	-0.011	0.0	0.0	0.0
416	63.593	63.593	-0.012	0.0	0.0	0.0
420	63.592	63.592	-0.012	0.0	0.0	0.0
424	63.591	63.591	-0.013	0.0	0.0	0.0
428	63.591	63.591	-0.013	0.0	0.0	0.0
432	63.590	63.590	-0.014	0.0	0.0	0.0
436	63.589	63.590	-0.015	0.0	0.0	0.0
440	63.589	63.589	-0.015	0.0	0.0	0.0
444	63.588	63.588	-0.016	0.0	0.0	0.0
448	63.588	63.588	-0.016	0.0	0.0	0.0
452	63.587	63.587	-0.017	0.0	0.0	0.0
456	63.587	63.587	-0.018	0.0	0.0	0.0
460	63.586	63.586	-0.018	0.0	0.0	0.0
464	63.585	63.586	-0.019	0.0	0.0	0.0
468	63.585	63.585	-0.019	0.0	0.0	0.0
472	63.584	63.584	-0.020	0.0	0.0	0.0
476	63.584	63.584	-0.020	0.0	0.0	0.0
480	63.583	63.583	-0.021	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.402	65.002	-0.108	0.0	0.3	0.1
8	65.402	65.003	-0.108	0.0	0.3	0.1
12	65.402	65.003	-0.108	0.0	0.3	0.1
16	65.402	65.003	-0.108	0.0	0.3	0.1
20	65.402	65.003	-0.108	0.0	0.4	0.1
24	65.402	65.003	-0.108	0.0	0.4	0.1
28	65.402	65.003	-0.108	0.0	0.4	0.1
32	65.402	65.003	-0.108	0.0	0.4	0.1
36	65.402	65.003	-0.108	0.0	0.4	0.1
40	65.402	65.004	-0.108	0.0	0.4	0.1
44	65.403	65.004	-0.107	0.0	0.4	0.1
48	65.403	65.004	-0.107	0.0	0.4	0.1
52	65.403	65.004	-0.107	0.0	0.5	0.1
56	65.403	65.004	-0.107	0.0	0.5	0.1
60	65.403	65.004	-0.107	0.0	0.5	0.1
64	65.403	65.005	-0.107	0.0	0.5	0.1
68	65.403	65.005	-0.107	0.0	0.6	0.1
72	65.404	65.005	-0.106	0.0	0.6	0.1
76	65.404	65.006	-0.106	0.0	0.7	0.2
80	65.405	65.007	-0.105	0.0	0.8	0.2
84	65.405	65.007	-0.105	0.0	0.9	0.2
88	65.406	65.009	-0.104	0.0	1.0	0.2
92	65.407	65.010	-0.103	0.0	1.1	0.3
96	65.409	65.011	-0.101	0.0	1.0	0.3
100	65.410	65.012	-0.100	0.0	0.9	0.4
104	65.411	65.013	-0.099	0.0	0.9	0.5
108	65.412	65.014	-0.098	0.0	1.0	0.6
112	65.413	65.015	-0.097	0.0	1.1	0.7
116	65.414	65.016	-0.096	0.0	1.1	0.8
120	65.415	65.018	-0.095	0.0	1.2	0.9
124	65.415	65.018	-0.095	0.0	1.2	0.9
128	65.414	65.016	-0.096	0.0	1.2	0.8
132	65.413	65.015	-0.097	0.0	1.1	0.7
136	65.412	65.014	-0.098	0.0	1.0	0.6
140	65.412	65.013	-0.098	0.0	1.0	0.5
144	65.411	65.012	-0.099	0.0	0.9	0.4
148	65.409	65.012	-0.101	0.0	1.0	0.4
152	65.408	65.011	-0.102	0.0	1.0	0.3
156	65.407	65.009	-0.103	0.0	1.1	0.3
160	65.406	65.008	-0.104	0.0	0.9	0.2
164	65.405	65.007	-0.105	0.0	0.8	0.2
168	65.404	65.006	-0.106	0.0	0.7	0.2
172	65.404	65.005	-0.106	0.0	0.6	0.2
176	65.404	65.005	-0.106	0.0	0.6	0.1
180	65.403	65.005	-0.107	0.0	0.6	0.1
184	65.403	65.004	-0.107	0.0	0.5	0.1
188	65.403	65.004	-0.107	0.0	0.5	0.1
192	65.403	65.004	-0.107	0.0	0.5	0.1
196	65.403	65.004	-0.107	0.0	0.5	0.1
200	65.403	65.004	-0.107	0.0	0.4	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.403	65.004	-0.107	0.0	0.4	0.1
208	65.402	65.003	-0.108	0.0	0.4	0.1
212	65.402	65.003	-0.108	0.0	0.4	0.1
216	65.402	65.003	-0.108	0.0	0.4	0.1
220	65.402	65.003	-0.108	0.0	0.4	0.1
224	65.402	65.003	-0.108	0.0	0.4	0.1
228	65.402	65.003	-0.108	0.0	0.4	0.1
232	65.402	65.003	-0.108	0.0	0.3	0.1
236	65.402	65.003	-0.108	0.0	0.3	0.1
240	65.402	65.003	-0.108	0.0	0.3	0.1
244	65.400	65.000	-0.110	0.0	0.1	0.0
248	65.400	65.000	-0.110	0.0	0.0	0.0
252	65.400	65.000	-0.110	0.0	0.0	0.0
256	65.400	65.000	-0.110	0.0	0.0	0.0
260	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
268	65.400	65.000	-0.110	0.0	0.0	0.0
272	65.400	65.000	-0.110	0.0	0.0	0.0
276	65.400	65.000	-0.110	0.0	0.0	0.0
280	65.400	65.000	-0.110	0.0	0.0	0.0
284	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
292	65.400	65.000	-0.110	0.0	0.0	0.0
296	65.400	65.000	-0.110	0.0	0.0	0.0
300	65.400	65.000	-0.110	0.0	0.0	0.0
304	65.400	65.000	-0.110	0.0	0.0	0.0
308	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
316	65.400	65.000	-0.110	0.0	0.0	0.0
320	65.400	65.000	-0.110	0.0	0.0	0.0
324	65.400	65.000	-0.110	0.0	0.0	0.0
328	65.400	65.000	-0.110	0.0	0.0	0.0
332	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
340	65.400	65.000	-0.110	0.0	0.0	0.0
344	65.400	65.000	-0.110	0.0	0.0	0.0
348	65.400	65.000	-0.110	0.0	0.0	0.0
352	65.400	65.000	-0.110	0.0	0.0	0.0
356	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
364	65.400	65.000	-0.110	0.0	0.0	0.0
368	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
376	65.400	65.000	-0.110	0.0	0.0	0.0
380	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
388	65.400	65.000	-0.110	0.0	0.0	0.0
392	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
412	65.400	65.000	-0.110	0.0	0.0	0.0
416	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
424	65.400	65.000	-0.110	0.0	0.0	0.0
428	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
436	65.400	65.000	-0.110	0.0	0.0	0.0
440	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
448	65.400	65.000	-0.110	0.0	0.0	0.0
452	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
460	65.400	65.000	-0.110	0.0	0.0	0.0
464	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
472	65.400	65.000	-0.110	0.0	0.0	0.0
476	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.002	63.458	-0.108	0.0	0.6	0.1
8	65.003	63.459	-0.107	0.0	0.7	0.2
12	65.003	63.459	-0.107	0.0	0.7	0.2
16	65.003	63.459	-0.107	0.0	0.7	0.2
20	65.003	63.460	-0.107	0.0	0.7	0.2
24	65.003	63.460	-0.107	0.0	0.7	0.2
28	65.003	63.460	-0.107	0.0	0.7	0.2
32	65.003	63.460	-0.107	0.0	0.8	0.2
36	65.003	63.460	-0.107	0.0	0.8	0.2
40	65.004	63.461	-0.106	0.0	0.8	0.2
44	65.004	63.461	-0.106	0.0	0.9	0.2
48	65.004	63.461	-0.106	0.0	0.9	0.2
52	65.004	63.462	-0.106	0.0	0.9	0.2
56	65.004	63.462	-0.106	0.0	1.0	0.2
60	65.004	63.463	-0.106	0.0	1.0	0.2
64	65.005	63.464	-0.105	0.0	1.1	0.3
68	65.005	63.464	-0.105	0.0	1.1	0.3
72	65.005	63.465	-0.105	0.0	1.2	0.3
76	65.006	63.467	-0.104	0.0	1.4	0.3
80	65.007	63.468	-0.103	0.0	1.5	0.4
84	65.007	63.469	-0.103	0.0	1.5	0.4
88	65.009	63.471	-0.101	0.0	1.4	0.5
92	65.010	63.474	-0.100	0.0	1.3	0.6
96	65.011	63.477	-0.099	0.0	1.3	0.7
100	65.012	63.480	-0.098	0.0	1.5	0.8
104	65.013	63.483	-0.097	0.0	1.6	1.0
108	65.014	63.487	-0.096	0.0	1.6	1.1
112	65.015	63.491	-0.095	0.0	1.7	1.3
116	65.016	63.495	-0.094	0.0	1.8	1.6
120	65.018	63.499	-0.092	0.0	1.8	1.8
124	65.018	63.500	-0.092	0.0	1.9	1.8
128	65.016	63.503	-0.094	0.0	1.8	1.6
132	65.015	63.522	-0.095	0.0	1.7	1.4
136	65.014	63.537	-0.096	0.0	1.7	1.2
140	65.013	63.550	-0.097	0.0	1.6	1.0
144	65.012	63.560	-0.098	0.0	1.5	0.9
148	65.012	63.569	-0.098	0.0	1.4	0.7
152	65.011	63.575	-0.099	0.0	1.3	0.6
156	65.009	63.580	-0.101	0.0	1.4	0.5
160	65.008	63.585	-0.102	0.0	1.5	0.4
164	65.007	63.588	-0.103	0.0	1.6	0.4
168	65.006	63.591	-0.104	0.0	1.4	0.3
172	65.005	63.594	-0.105	0.0	1.3	0.3
176	65.005	63.596	-0.105	0.0	1.2	0.3
180	65.005	63.599	-0.105	0.0	1.1	0.3
184	65.004	63.601	-0.106	0.0	1.0	0.3
188	65.004	63.603	-0.106	0.0	1.0	0.2
192	65.004	63.605	-0.106	0.0	0.9	0.2
196	65.004	63.606	-0.106	0.0	0.9	0.2
200	65.004	63.608	-0.106	0.0	0.9	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.004	63.610	-0.106	0.0	0.8	0.2
208	65.003	63.611	-0.107	0.0	0.8	0.2
212	65.003	63.613	-0.107	0.0	0.8	0.2
216	65.003	63.614	-0.107	0.0	0.7	0.2
220	65.003	63.616	-0.107	0.0	0.7	0.2
224	65.003	63.617	-0.107	0.0	0.7	0.2
228	65.003	63.618	-0.107	0.0	0.7	0.2
232	65.003	63.620	-0.107	0.0	0.7	0.2
236	65.003	63.621	-0.107	0.0	0.7	0.2
240	65.003	63.622	-0.107	0.0	0.7	0.2
244	65.000	63.622	-0.110	0.0	0.1	0.0
248	65.000	63.621	-0.110	0.0	0.0	0.0
252	65.000	63.620	-0.110	0.0	0.0	0.0
256	65.000	63.619	-0.110	0.0	0.0	0.0
260	65.000	63.618	-0.110	0.0	0.0	0.0
264	65.000	63.617	-0.110	0.0	0.0	0.0
268	65.000	63.616	-0.110	0.0	0.0	0.0
272	65.000	63.616	-0.110	0.0	0.0	0.0
276	65.000	63.615	-0.110	0.0	0.0	0.0
280	65.000	63.614	-0.110	0.0	0.0	0.0
284	65.000	63.613	-0.110	0.0	0.0	0.0
288	65.000	63.613	-0.110	0.0	0.0	0.0
292	65.000	63.612	-0.110	0.0	0.0	0.0
296	65.000	63.611	-0.110	0.0	0.0	0.0
300	65.000	63.611	-0.110	0.0	0.0	0.0
304	65.000	63.610	-0.110	0.0	0.0	0.0
308	65.000	63.609	-0.110	0.0	0.0	0.0
312	65.000	63.609	-0.110	0.0	0.0	0.0
316	65.000	63.608	-0.110	0.0	0.0	0.0
320	65.000	63.607	-0.110	0.0	0.0	0.0
324	65.000	63.607	-0.110	0.0	0.0	0.0
328	65.000	63.606	-0.110	0.0	0.0	0.0
332	65.000	63.606	-0.110	0.0	0.0	0.0
336	65.000	63.605	-0.110	0.0	0.0	0.0
340	65.000	63.604	-0.110	0.0	0.0	0.0
344	65.000	63.604	-0.110	0.0	0.0	0.0
348	65.000	63.603	-0.110	0.0	0.0	0.0
352	65.000	63.603	-0.110	0.0	0.0	0.0
356	65.000	63.602	-0.110	0.0	0.0	0.0
360	65.000	63.601	-0.110	0.0	0.0	0.0
364	65.000	63.601	-0.110	0.0	0.0	0.0
368	65.000	63.600	-0.110	0.0	0.0	0.0
372	65.000	63.599	-0.110	0.0	0.0	0.0
376	65.000	63.599	-0.110	0.0	0.0	0.0
380	65.000	63.598	-0.110	0.0	0.0	0.0
384	65.000	63.597	-0.110	0.0	0.0	0.0
388	65.000	63.597	-0.110	0.0	0.0	0.0
392	65.000	63.596	-0.110	0.0	0.0	0.0
396	65.000	63.595	-0.110	0.0	0.0	0.0
400	65.000	63.595	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.000	63.595	-0.110	0.0	0.0	0.0
408	65.000	63.594	-0.110	0.0	0.0	0.0
412	65.000	63.593	-0.110	0.0	0.0	0.0
416	65.000	63.593	-0.110	0.0	0.0	0.0
420	65.000	63.592	-0.110	0.0	0.0	0.0
424	65.000	63.591	-0.110	0.0	0.0	0.0
428	65.000	63.591	-0.110	0.0	0.0	0.0
432	65.000	63.590	-0.110	0.0	0.0	0.0
436	65.000	63.590	-0.110	0.0	0.0	0.0
440	65.000	63.589	-0.110	0.0	0.0	0.0
444	65.000	63.588	-0.110	0.0	0.0	0.0
448	65.000	63.588	-0.110	0.0	0.0	0.0
452	65.000	63.587	-0.110	0.0	0.0	0.0
456	65.000	63.587	-0.110	0.0	0.0	0.0
460	65.000	63.586	-0.110	0.0	0.0	0.0
464	65.000	63.586	-0.110	0.0	0.0	0.0
468	65.000	63.585	-0.110	0.0	0.0	0.0
472	65.000	63.584	-0.110	0.0	0.0	0.0
476	65.000	63.584	-0.110	0.0	0.0	0.0
480	65.000	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.458	63.252	-0.096	0.0	0.4	0.2
8	63.459	63.254	-0.095	0.0	0.4	0.3
12	63.459	63.256	-0.095	0.0	0.4	0.3
16	63.459	63.258	-0.095	0.0	0.4	0.3
20	63.460	63.261	-0.095	0.0	0.4	0.3
24	63.460	63.263	-0.094	0.0	0.4	0.4
28	63.460	63.266	-0.094	0.0	0.4	0.4
32	63.460	63.268	-0.094	0.0	0.4	0.4
36	63.460	63.271	-0.094	0.0	0.4	0.4
40	63.461	63.273	-0.093	0.0	0.4	0.4
44	63.461	63.276	-0.093	0.0	0.4	0.4
48	63.461	63.279	-0.093	0.0	0.4	0.4
52	63.462	63.281	-0.092	0.0	0.4	0.4
56	63.462	63.284	-0.092	0.0	0.5	0.5
60	63.463	63.287	-0.091	0.0	0.5	0.5
64	63.464	63.290	-0.090	0.0	0.5	0.5
68	63.464	63.294	-0.090	0.0	0.5	0.5
72	63.465	63.297	-0.089	0.0	0.5	0.6
76	63.467	63.301	-0.088	0.0	0.5	0.6
80	63.468	63.306	-0.086	0.0	0.5	0.7
84	63.469	63.311	-0.085	0.0	0.5	0.8
88	63.471	63.317	-0.083	0.0	0.5	0.9
92	63.474	63.324	-0.080	0.0	0.6	1.1
96	63.477	63.334	-0.077	0.0	0.6	1.3
100	63.480	63.346	-0.074	0.0	0.6	1.6
104	63.483	63.359	-0.071	0.0	0.6	1.9
108	63.487	63.375	-0.067	0.0	0.7	2.2
112	63.491	63.395	-0.063	0.0	0.7	2.6
116	63.495	63.417	-0.059	0.0	0.7	3.1
120	63.499	63.442	-0.055	0.0	0.8	3.5
124	63.500	63.469	-0.054	0.0	0.8	3.7
128	63.503	63.493	-0.051	0.0	0.7	3.3
132	63.522	63.513	-0.032	0.0	0.5	2.8
136	63.537	63.530	-0.017	0.0	0.3	2.4
140	63.550	63.543	-0.004	0.0	0.2	2.0
144	63.560	63.555	0.006	0.0	0.2	1.7
148	63.569	63.564	0.014	0.0	0.2	1.4
152	63.575	63.571	0.021	0.0	0.1	1.2
156	63.580	63.577	0.026	0.0	0.1	1.0
160	63.585	63.582	0.031	0.0	0.1	0.9
164	63.588	63.586	0.034	0.0	0.1	0.8
168	63.591	63.589	0.037	0.0	0.1	0.7
172	63.594	63.592	0.040	0.0	0.1	0.6
176	63.596	63.595	0.042	0.0	0.1	0.6
180	63.599	63.597	0.044	0.0	0.1	0.5
184	63.601	63.599	0.047	0.0	0.1	0.5
188	63.603	63.601	0.049	0.0	0.0	0.5
192	63.605	63.603	0.050	0.0	0.0	0.4
196	63.606	63.605	0.052	0.0	0.0	0.4
200	63.608	63.607	0.054	0.0	0.0	0.4

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.610	63.608	0.055	0.0	0.0	0.4
208	63.611	63.610	0.057	0.0	0.0	0.4
212	63.613	63.611	0.058	0.0	0.0	0.4
216	63.614	63.613	0.060	0.0	0.0	0.4
220	63.616	63.614	0.061	0.0	0.0	0.3
224	63.617	63.616	0.063	0.0	0.0	0.3
228	63.618	63.617	0.064	0.0	0.0	0.3
232	63.620	63.619	0.066	0.0	0.0	0.3
236	63.621	63.620	0.067	0.0	0.0	0.3
240	63.622	63.621	0.068	0.0	0.0	0.3
244	63.622	63.622	0.068	0.0	0.0	0.1
248	63.621	63.621	0.067	0.0	0.0	0.0
252	63.620	63.620	0.066	0.0	0.0	0.0
256	63.619	63.619	0.065	0.0	0.0	0.0
260	63.618	63.618	0.064	0.0	0.0	0.0
264	63.617	63.617	0.063	0.0	0.0	0.0
268	63.616	63.617	0.062	0.0	0.0	0.0
272	63.616	63.616	0.062	0.0	0.0	0.0
276	63.615	63.615	0.061	0.0	0.0	0.0
280	63.614	63.614	0.060	0.0	0.0	0.0
284	63.613	63.614	0.059	0.0	0.0	0.0
288	63.613	63.613	0.059	0.0	0.0	0.0
292	63.612	63.612	0.058	0.0	0.0	0.0
296	63.611	63.611	0.057	0.0	0.0	0.0
300	63.611	63.611	0.057	0.0	0.0	0.0
304	63.610	63.610	0.056	0.0	0.0	0.0
308	63.609	63.609	0.055	0.0	0.0	0.0
312	63.609	63.609	0.055	0.0	0.0	0.0
316	63.608	63.608	0.054	0.0	0.0	0.0
320	63.607	63.608	0.053	0.0	0.0	0.0
324	63.607	63.607	0.053	0.0	0.0	0.0
328	63.606	63.606	0.052	0.0	0.0	0.0
332	63.606	63.606	0.052	0.0	0.0	0.0
336	63.605	63.605	0.051	0.0	0.0	0.0
340	63.604	63.604	0.050	0.0	0.0	0.0
344	63.604	63.604	0.050	0.0	0.0	0.0
348	63.603	63.603	0.049	0.0	0.0	0.0
352	63.603	63.603	0.049	0.0	0.0	0.0
356	63.602	63.602	0.048	0.0	0.0	0.0
360	63.601	63.601	0.047	0.0	0.0	0.0
364	63.601	63.601	0.047	0.0	0.0	0.0
368	63.600	63.600	0.046	0.0	0.0	0.0
372	63.599	63.599	0.045	0.0	0.0	0.0
376	63.599	63.599	0.045	0.0	0.0	0.0
380	63.598	63.598	0.044	0.0	0.0	0.0
384	63.597	63.598	0.043	0.0	0.0	0.0
388	63.597	63.597	0.043	0.0	0.0	0.0
392	63.596	63.596	0.042	0.0	0.0	0.0
396	63.595	63.596	0.041	0.0	0.0	0.0
400	63.595	63.595	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.595	63.595	0.041	0.0	0.0	0.0
408	63.594	63.594	0.040	0.0	0.0	0.0
412	63.593	63.593	0.039	0.0	0.0	0.0
416	63.593	63.593	0.039	0.0	0.0	0.0
420	63.592	63.592	0.038	0.0	0.0	0.0
424	63.591	63.592	0.037	0.0	0.0	0.0
428	63.591	63.591	0.037	0.0	0.0	0.0
432	63.590	63.590	0.036	0.0	0.0	0.0
436	63.590	63.590	0.035	0.0	0.0	0.0
440	63.589	63.589	0.035	0.0	0.0	0.0
444	63.588	63.589	0.034	0.0	0.0	0.0
448	63.588	63.588	0.034	0.0	0.0	0.0
452	63.587	63.588	0.033	0.0	0.0	0.0
456	63.587	63.587	0.033	0.0	0.0	0.0
460	63.586	63.586	0.032	0.0	0.0	0.0
464	63.586	63.586	0.031	0.0	0.0	0.0
468	63.585	63.585	0.031	0.0	0.0	0.0
472	63.584	63.585	0.030	0.0	0.0	0.0
476	63.584	63.584	0.029	0.0	0.0	0.0
480	63.583	63.583	0.029	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.252	63.100	-0.108	0.0	0.0	0.0
8	63.254	63.100	-0.106	0.0	0.0	0.0
12	63.256	63.100	-0.104	0.0	0.0	0.0
16	63.258	63.101	-0.102	0.0	0.0	0.0
20	63.261	63.102	-0.099	0.0	0.1	0.0
24	63.263	63.104	-0.097	0.0	0.1	0.0
28	63.266	63.106	-0.094	0.0	0.1	0.0
32	63.268	63.108	-0.092	0.0	0.2	0.0
36	63.271	63.111	-0.089	0.0	0.2	0.1
40	63.273	63.115	-0.087	0.0	0.2	0.1
44	63.276	63.119	-0.084	0.0	0.3	0.1
48	63.279	63.123	-0.081	0.0	0.3	0.1
52	63.281	63.127	-0.079	0.0	0.3	0.1
56	63.284	63.131	-0.076	0.0	0.3	0.1
60	63.287	63.135	-0.073	0.0	0.3	0.1
64	63.290	63.139	-0.070	0.0	0.3	0.1
68	63.294	63.143	-0.066	0.0	0.3	0.1
72	63.297	63.147	-0.063	0.0	0.3	0.1
76	63.301	63.151	-0.059	0.0	0.3	0.1
80	63.306	63.156	-0.054	0.0	0.3	0.1
84	63.311	63.161	-0.049	0.0	0.3	0.1
88	63.317	63.166	-0.043	0.0	0.3	0.1
92	63.324	63.172	-0.036	0.0	0.3	0.2
96	63.334	63.180	-0.026	0.0	0.3	0.2
100	63.346	63.188	-0.014	0.0	0.3	0.2
104	63.359	63.196	-0.001	0.0	0.3	0.2
108	63.375	63.206	0.015	0.0	0.3	0.2
112	63.395	63.217	0.035	0.0	0.4	0.2
116	63.417	63.229	0.057	0.0	0.4	0.2
120	63.442	63.242	0.082	0.0	0.4	0.2
124	63.469	63.254	0.109	0.0	0.4	0.2
128	63.493	63.263	0.133	0.0	0.3	0.2
132	63.513	63.274	0.153	0.0	0.4	0.2
136	63.530	63.286	0.170	0.0	0.4	0.2
140	63.543	63.300	0.183	0.0	0.4	0.3
144	63.555	63.314	0.195	0.0	0.4	0.3
148	63.564	63.329	0.204	0.0	0.4	0.3
152	63.571	63.344	0.211	0.0	0.4	0.3
156	63.577	63.359	0.217	0.0	0.4	0.3
160	63.582	63.373	0.222	0.0	0.4	0.3
164	63.586	63.387	0.226	0.0	0.4	0.3
168	63.589	63.400	0.229	0.0	0.4	0.3
172	63.592	63.412	0.232	0.0	0.3	0.3
176	63.595	63.424	0.235	0.0	0.1	0.2
180	63.597	63.435	0.237	0.0	0.1	0.2
184	63.599	63.445	0.239	0.0	0.1	0.2
188	63.601	63.454	0.241	0.0	0.0	0.2
192	63.603	63.463	0.243	0.0	0.0	0.2
196	63.605	63.470	0.245	0.0	0.0	0.2
200	63.607	63.478	0.247	0.0	0.0	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.608	63.485	0.248	0.0	0.0	0.2
208	63.610	63.491	0.250	0.0	0.0	0.2
212	63.611	63.498	0.251	0.0	0.0	0.2
216	63.613	63.503	0.253	0.0	0.0	0.2
220	63.614	63.509	0.254	0.0	0.0	0.2
224	63.616	63.514	0.256	0.0	0.0	0.2
228	63.617	63.519	0.257	0.0	0.0	0.2
232	63.619	63.523	0.259	0.0	0.0	0.1
236	63.620	63.527	0.260	0.0	0.0	0.1
240	63.621	63.530	0.261	0.0	0.0	0.1
244	63.622	63.534	0.262	0.0	0.0	0.1
248	63.621	63.537	0.261	0.0	0.0	0.1
252	63.620	63.540	0.260	0.0	0.0	0.1
256	63.619	63.542	0.259	0.0	0.0	0.1
260	63.618	63.544	0.258	0.0	0.0	0.1
264	63.617	63.545	0.257	0.0	0.0	0.1
268	63.617	63.547	0.257	0.0	0.0	0.1
272	63.616	63.548	0.256	0.0	0.0	0.1
276	63.615	63.549	0.255	0.0	0.0	0.1
280	63.614	63.550	0.254	0.0	0.0	0.1
284	63.614	63.551	0.254	0.0	0.0	0.1
288	63.613	63.551	0.253	0.0	0.0	0.1
292	63.612	63.552	0.252	0.0	0.0	0.1
296	63.611	63.552	0.251	0.0	0.0	0.1
300	63.611	63.552	0.251	0.0	0.0	0.1
304	63.610	63.552	0.250	0.0	0.0	0.1
308	63.609	63.552	0.249	0.0	0.0	0.1
312	63.609	63.552	0.249	0.0	0.0	0.1
316	63.608	63.552	0.248	0.0	0.0	0.1
320	63.608	63.552	0.248	0.0	0.0	0.1
324	63.607	63.552	0.247	0.0	0.0	0.1
328	63.606	63.551	0.246	0.0	0.0	0.1
332	63.606	63.551	0.246	0.0	0.0	0.1
336	63.605	63.551	0.245	0.0	0.0	0.1
340	63.604	63.550	0.244	0.0	0.0	0.1
344	63.604	63.550	0.244	0.0	0.0	0.1
348	63.603	63.549	0.243	0.0	0.0	0.1
352	63.603	63.549	0.243	0.0	0.0	0.1
356	63.602	63.549	0.242	0.0	0.0	0.1
360	63.601	63.548	0.241	0.0	0.0	0.1
364	63.601	63.548	0.241	0.0	0.0	0.1
368	63.600	63.547	0.240	0.0	0.0	0.1
372	63.599	63.547	0.239	0.0	0.0	0.1
376	63.599	63.546	0.239	0.0	0.0	0.1
380	63.598	63.546	0.238	0.0	0.0	0.1
384	63.598	63.545	0.238	0.0	0.0	0.1
388	63.597	63.544	0.237	0.0	0.0	0.1
392	63.596	63.544	0.236	0.0	0.0	0.1
396	63.596	63.543	0.236	0.0	0.0	0.1
400	63.595	63.543	0.235	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.595	63.542	0.235	0.0	0.0	0.1
408	63.594	63.542	0.234	0.0	0.0	0.1
412	63.593	63.541	0.233	0.0	0.0	0.1
416	63.593	63.541	0.233	0.0	0.0	0.1
420	63.592	63.540	0.232	0.0	0.0	0.1
424	63.592	63.539	0.232	0.0	0.0	0.1
428	63.591	63.539	0.231	0.0	0.0	0.1
432	63.590	63.538	0.230	0.0	0.0	0.1
436	63.590	63.538	0.230	0.0	0.0	0.1
440	63.589	63.537	0.229	0.0	0.0	0.1
444	63.589	63.537	0.229	0.0	0.0	0.1
448	63.588	63.536	0.228	0.0	0.0	0.1
452	63.588	63.536	0.228	0.0	0.0	0.1
456	63.587	63.535	0.227	0.0	0.0	0.1
460	63.586	63.534	0.226	0.0	0.0	0.1
464	63.586	63.534	0.226	0.0	0.0	0.1
468	63.585	63.533	0.225	0.0	0.0	0.1
472	63.585	63.533	0.225	0.0	0.0	0.1
476	63.584	63.532	0.224	0.0	0.0	0.1
480	63.583	63.532	0.223	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
16	63.101	63.096	-0.109	0.0	0.0	0.0
20	63.102	63.096	-0.108	0.0	0.0	0.0
24	63.104	63.096	-0.106	0.0	0.0	0.0
28	63.106	63.096	-0.104	0.0	0.0	0.0
32	63.108	63.096	-0.102	0.0	0.0	0.0
36	63.111	63.096	-0.099	0.0	0.0	0.0
40	63.115	63.096	-0.095	0.0	0.0	0.0
44	63.119	63.096	-0.091	0.0	0.0	0.0
48	63.123	63.096	-0.087	0.0	0.0	0.0
52	63.127	63.096	-0.083	0.0	0.0	0.0
56	63.131	63.096	-0.079	0.0	0.0	0.0
60	63.135	63.096	-0.075	0.0	0.0	0.0
64	63.139	63.096	-0.071	0.0	0.0	0.0
68	63.143	63.096	-0.067	0.0	0.0	0.0
72	63.147	63.096	-0.063	0.0	0.0	0.0
76	63.151	63.096	-0.059	0.0	0.0	0.0
80	63.156	63.096	-0.054	0.0	0.0	0.0
84	63.161	63.096	-0.049	0.0	0.0	0.0
88	63.166	63.096	-0.044	0.0	0.0	0.0
92	63.172	63.096	-0.038	0.0	0.0	0.0
96	63.180	63.096	-0.030	0.0	0.0	0.0
100	63.188	63.096	-0.022	0.0	0.0	0.0
104	63.196	63.096	-0.014	0.0	0.0	0.0
108	63.206	63.096	-0.004	0.0	0.0	0.0
112	63.217	63.096	0.007	0.0	0.0	0.0
116	63.229	63.096	0.019	0.0	0.0	0.0
120	63.242	63.096	0.032	0.0	0.0	0.0
124	63.254	63.096	0.044	0.0	0.0	0.0
128	63.263	63.096	0.053	0.0	0.0	0.0
132	63.274	63.096	0.064	0.0	0.0	0.0
136	63.286	63.096	0.076	0.0	0.0	0.0
140	63.300	63.096	0.090	0.0	0.0	0.0
144	63.314	63.096	0.104	0.0	0.0	0.0
148	63.329	63.096	0.119	0.0	0.0	0.0
152	63.344	63.096	0.134	0.0	0.1	0.0
156	63.359	63.096	0.149	0.0	0.1	0.0
160	63.373	63.096	0.163	0.0	0.1	0.0
164	63.387	63.096	0.177	0.0	0.1	0.0
168	63.400	63.096	0.190	0.0	0.1	0.0
172	63.412	63.096	0.202	0.0	0.1	0.0
176	63.424	63.096	0.214	0.0	0.1	0.0
180	63.435	63.096	0.225	0.0	0.1	0.0
184	63.445	63.096	0.235	0.0	0.1	0.0
188	63.454	63.096	0.244	0.0	0.1	0.0
192	63.463	63.096	0.253	0.0	0.1	0.0
196	63.470	63.096	0.260	0.0	0.1	0.0
200	63.478	63.096	0.268	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.485	63.096	0.275	0.0	0.1	0.0
208	63.491	63.096	0.281	0.0	0.1	0.0
212	63.498	63.096	0.288	0.0	0.1	0.0
216	63.503	63.096	0.293	0.0	0.1	0.0
220	63.509	63.096	0.299	0.0	0.1	0.0
224	63.514	63.096	0.304	0.0	0.1	0.0
228	63.519	63.096	0.309	0.0	0.1	0.0
232	63.523	63.096	0.313	0.0	0.1	0.0
236	63.527	63.096	0.317	0.0	0.1	0.0
240	63.530	63.096	0.320	0.0	0.1	0.0
244	63.534	63.096	0.324	0.0	0.1	0.0
248	63.537	63.096	0.327	0.0	0.1	0.0
252	63.540	63.096	0.330	0.0	0.1	0.0
256	63.542	63.096	0.332	0.0	0.1	0.0
260	63.544	63.096	0.334	0.0	0.1	0.0
264	63.545	63.096	0.335	0.0	0.1	0.0
268	63.547	63.096	0.337	0.0	0.1	0.0
272	63.548	63.096	0.338	0.0	0.1	0.0
276	63.549	63.096	0.339	0.0	0.1	0.0
280	63.550	63.096	0.340	0.0	0.1	0.0
284	63.551	63.096	0.341	0.0	0.1	0.0
288	63.551	63.096	0.341	0.0	0.1	0.0
292	63.552	63.096	0.342	0.0	0.1	0.0
296	63.552	63.096	0.342	0.0	0.1	0.0
300	63.552	63.096	0.342	0.0	0.1	0.0
304	63.552	63.096	0.342	0.0	0.1	0.0
308	63.552	63.096	0.342	0.0	0.1	0.0
312	63.552	63.096	0.342	0.0	0.1	0.0
316	63.552	63.096	0.342	0.0	0.1	0.0
320	63.552	63.096	0.342	0.0	0.1	0.0
324	63.552	63.096	0.342	0.0	0.1	0.0
328	63.551	63.096	0.341	0.0	0.1	0.0
332	63.551	63.096	0.341	0.0	0.1	0.0
336	63.551	63.096	0.341	0.0	0.1	0.0
340	63.550	63.096	0.340	0.0	0.1	0.0
344	63.550	63.096	0.340	0.0	0.1	0.0
348	63.549	63.096	0.339	0.0	0.1	0.0
352	63.549	63.096	0.339	0.0	0.1	0.0
356	63.549	63.096	0.339	0.0	0.1	0.0
360	63.548	63.096	0.338	0.0	0.1	0.0
364	63.548	63.096	0.338	0.0	0.1	0.0
368	63.547	63.096	0.337	0.0	0.1	0.0
372	63.547	63.096	0.337	0.0	0.1	0.0
376	63.546	63.096	0.336	0.0	0.1	0.0
380	63.546	63.096	0.336	0.0	0.1	0.0
384	63.545	63.096	0.335	0.0	0.1	0.0
388	63.544	63.096	0.334	0.0	0.1	0.0
392	63.544	63.096	0.334	0.0	0.1	0.0
396	63.543	63.096	0.333	0.0	0.1	0.0
400	63.543	63.096	0.333	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Summer
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.542	63.096	0.332	0.0	0.1	0.0
408	63.542	63.096	0.332	0.0	0.1	0.0
412	63.541	63.096	0.331	0.0	0.1	0.0
416	63.541	63.096	0.331	0.0	0.1	0.0
420	63.540	63.096	0.330	0.0	0.1	0.0
424	63.539	63.096	0.329	0.0	0.1	0.0
428	63.539	63.096	0.329	0.0	0.1	0.0
432	63.538	63.096	0.328	0.0	0.1	0.0
436	63.538	63.096	0.328	0.0	0.1	0.0
440	63.537	63.096	0.327	0.0	0.1	0.0
444	63.537	63.096	0.327	0.0	0.1	0.0
448	63.536	63.096	0.326	0.0	0.1	0.0
452	63.536	63.096	0.326	0.0	0.1	0.0
456	63.535	63.096	0.325	0.0	0.1	0.0
460	63.534	63.096	0.324	0.0	0.1	0.0
464	63.534	63.096	0.324	0.0	0.1	0.0
468	63.533	63.096	0.323	0.0	0.1	0.0
472	63.533	63.096	0.323	0.0	0.1	0.0
476	63.532	63.096	0.322	0.0	0.1	0.0
480	63.532	63.096	0.322	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	480
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	4

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	240
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 240 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.411	-0.099	0.000	0.02	0.0	0.6	OK
1.001	S1	63.623	0.019	0.000	0.18	0.0	1.2	SURCHARGED
2.000	RE2	65.412	-0.098	0.000	0.03	0.0	0.6	OK
2.001	S2	65.014	-0.096	0.000	0.04	0.0	1.2	OK
1.002	S3	63.623	0.069	0.000	0.34	0.0	2.4	SURCHARGED
1.003	S4	63.622	0.262	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.552	0.342	0.000	0.00	0.0	0.0	SURCHARGED

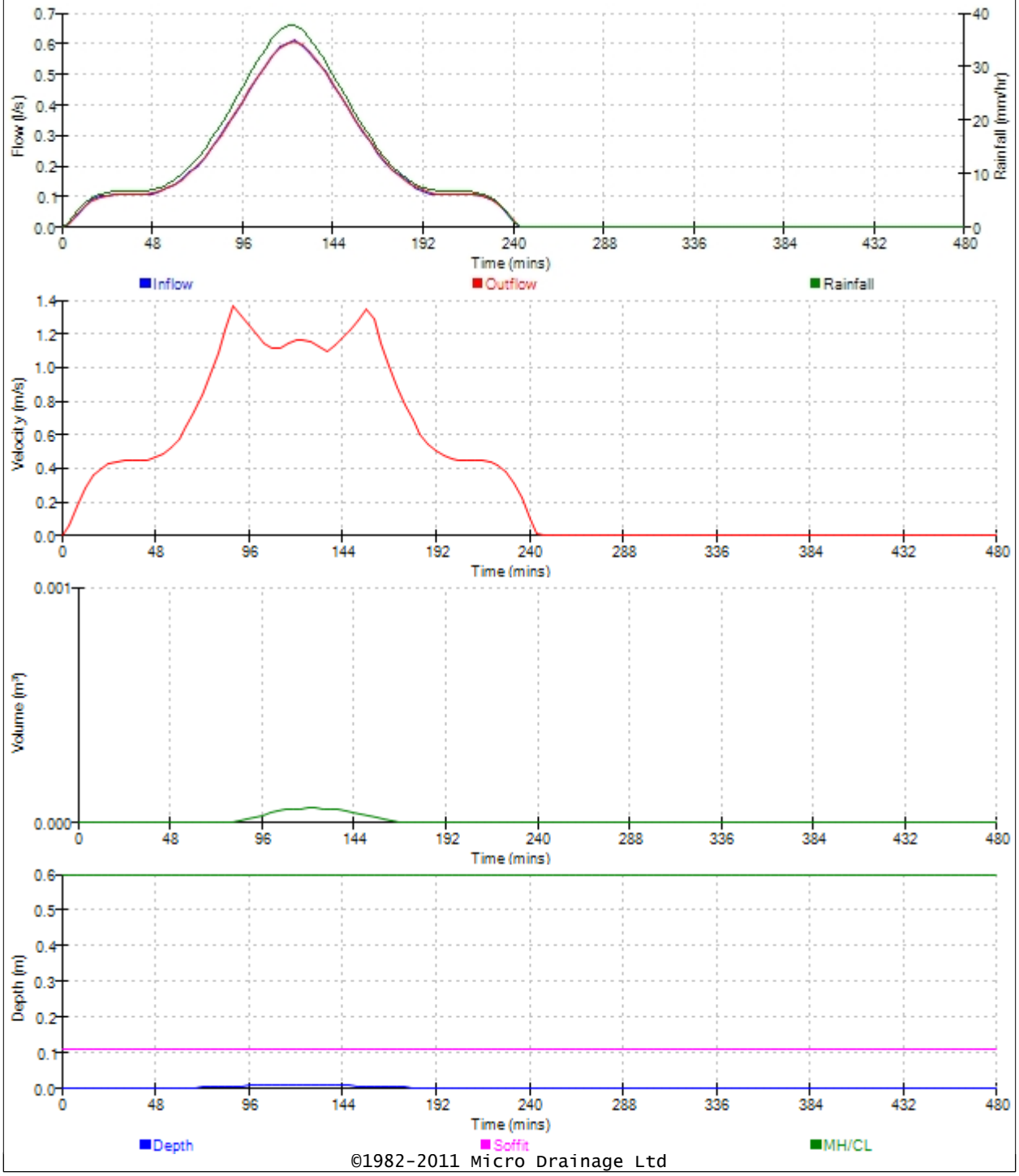
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Rainfall Hyetograph for 240 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
4	1.067	52	7.450	100	28.762	148	26.104	196	7.007
8	3.067	56	8.052	104	31.026	152	23.719	200	6.789
12	4.535	60	8.851	108	33.137	156	21.370	204	6.688
16	5.620	64	10.024	112	35.210	160	18.835	208	6.672
20	6.196	68	11.317	116	36.680	164	16.727	212	6.686
24	6.523	72	12.821	120	37.739	168	14.777	216	6.668
28	6.668	76	14.777	124	37.739	172	12.821	220	6.523
32	6.686	80	16.727	128	36.680	176	11.317	224	6.196
36	6.672	84	18.835	132	35.210	180	10.024	228	5.620
40	6.688	88	21.370	136	33.137	184	8.851	232	4.535
44	6.789	92	23.719	140	31.026	188	8.052	236	3.067
48	7.007	96	26.104	144	28.762	192	7.450	240	1.066

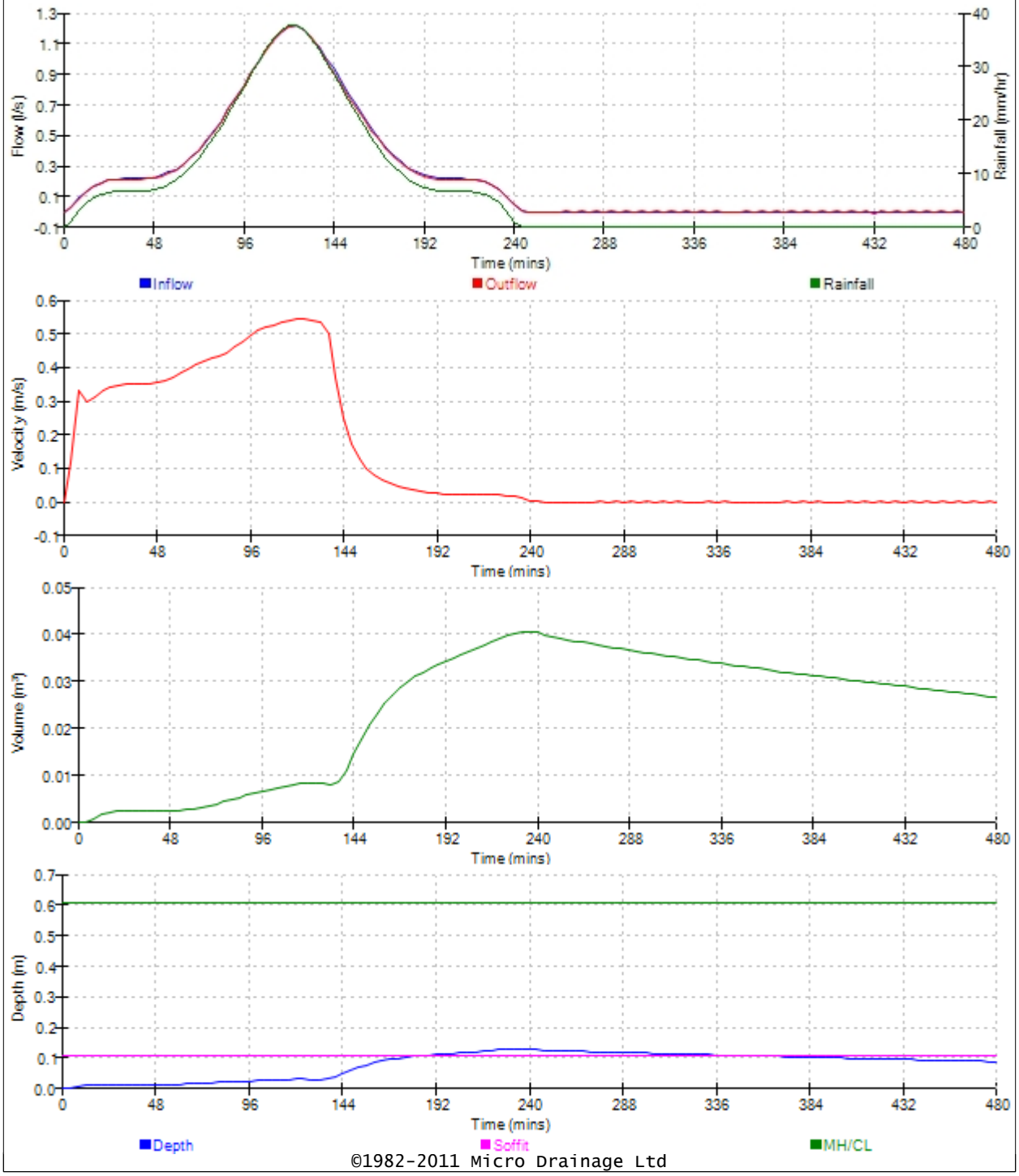
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Winter
Status: OK



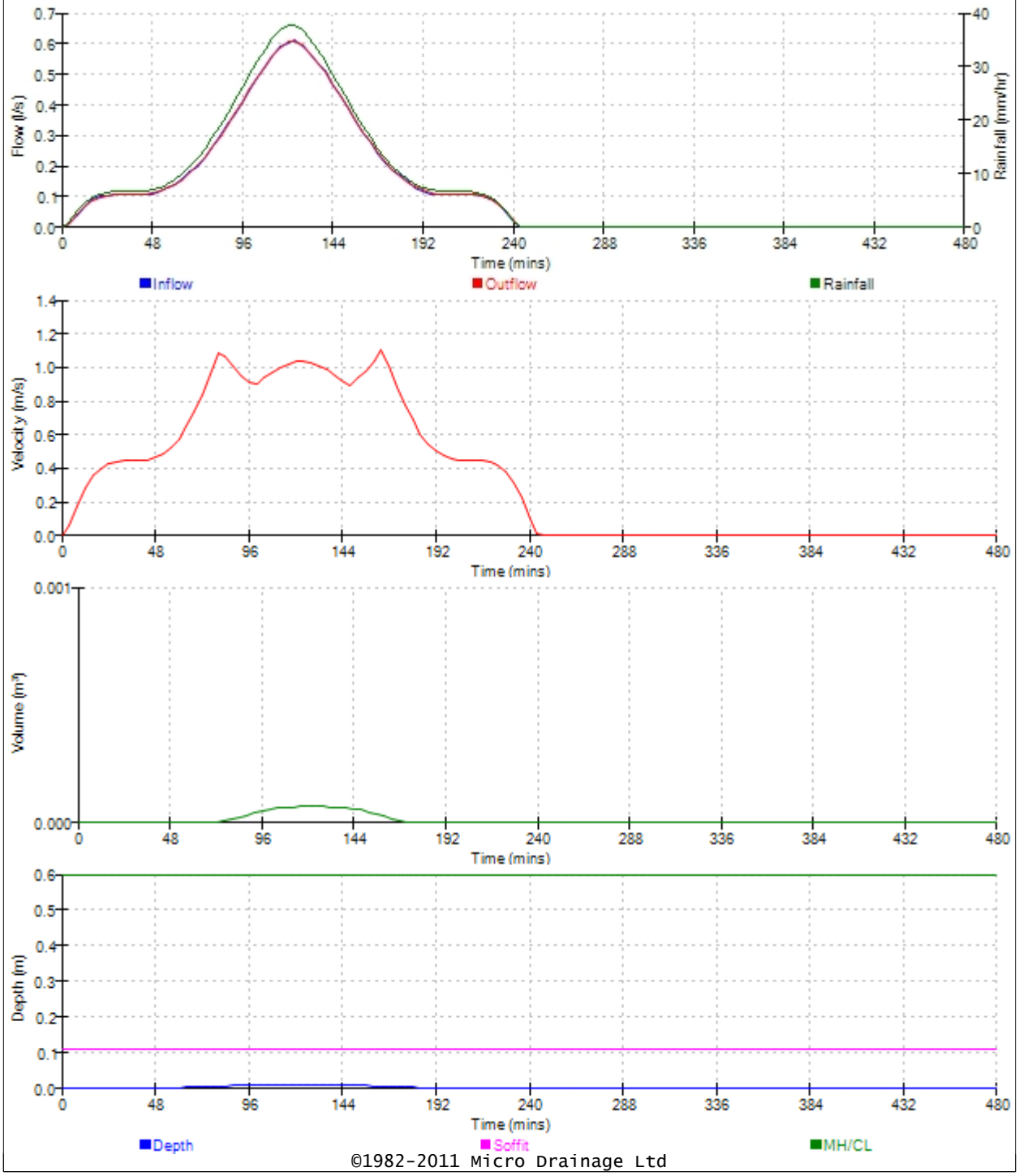
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Graphs for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Winter
Status: SURCHARGED



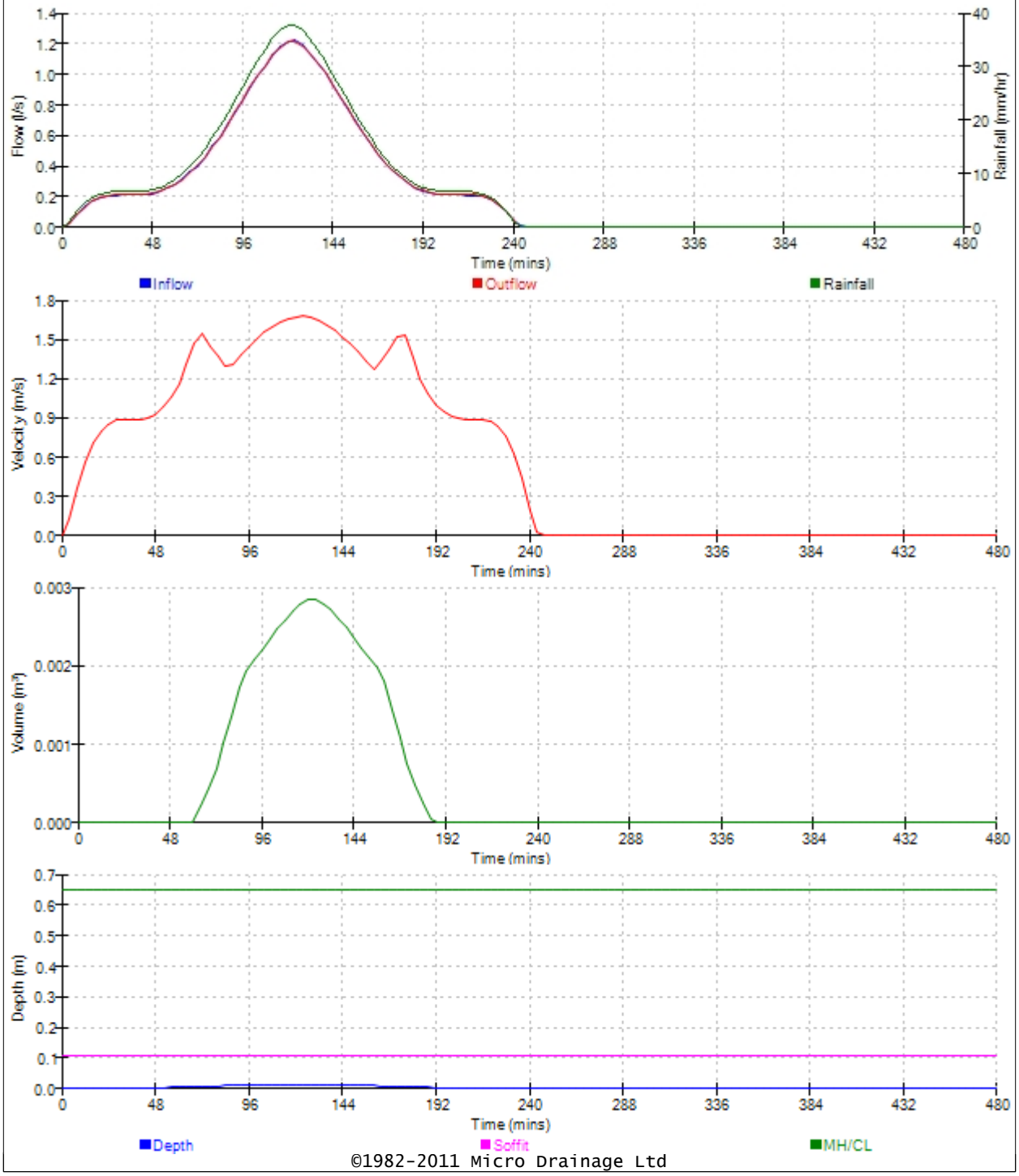
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Winter
Status: OK



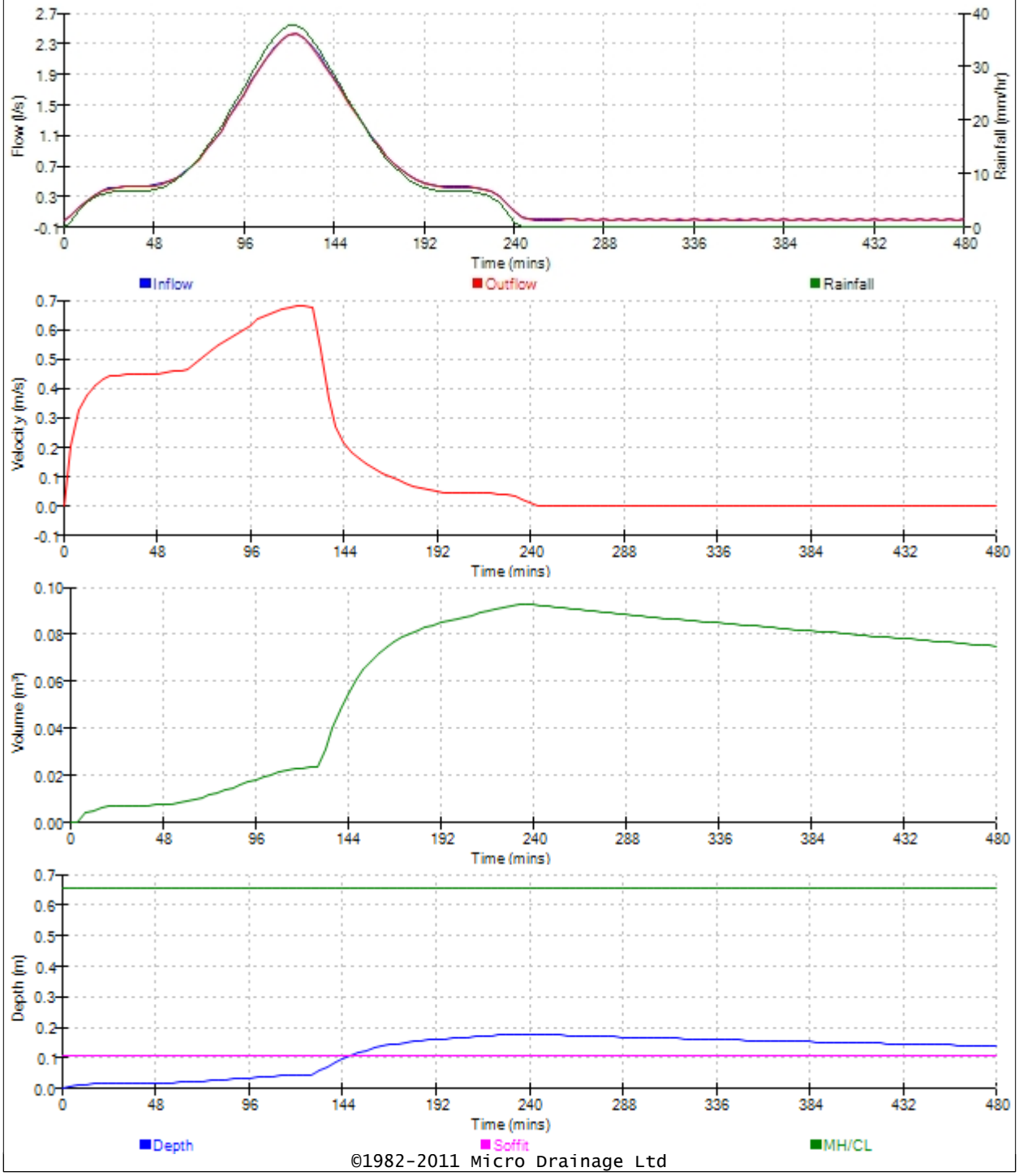
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Graphs for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Winter
Status: OK



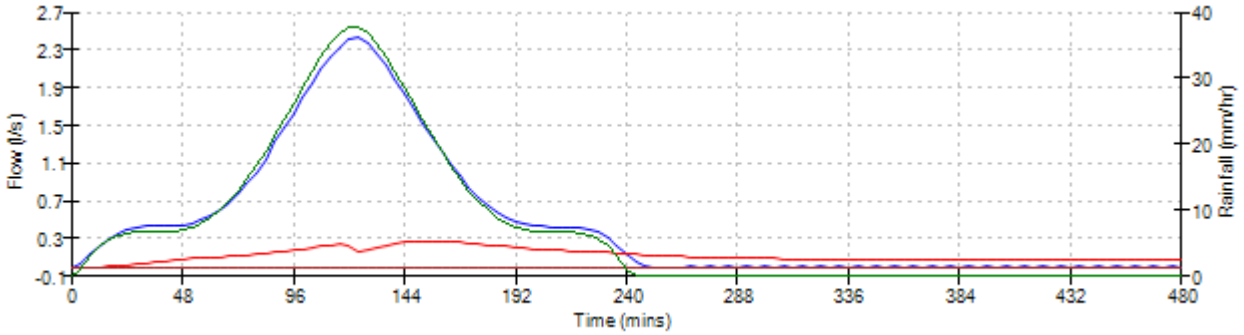
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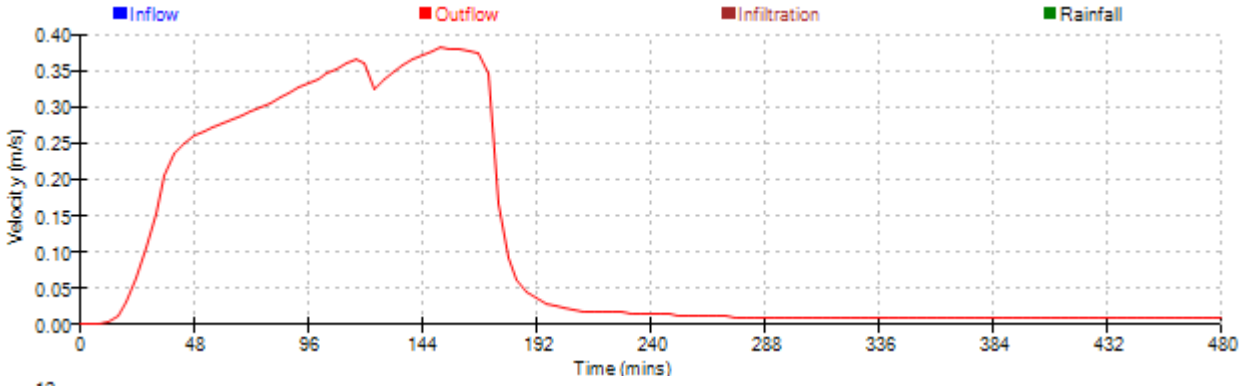
Graphs for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Winter
Status: SURCHARGED

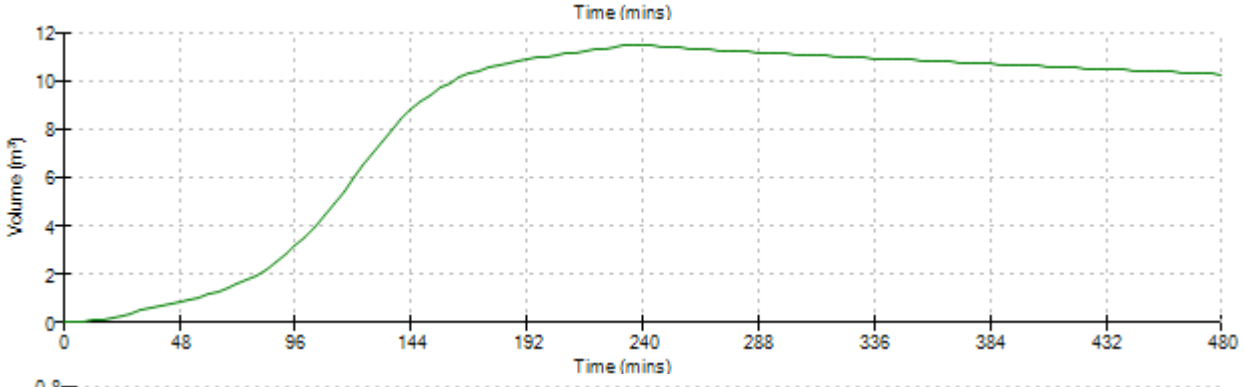


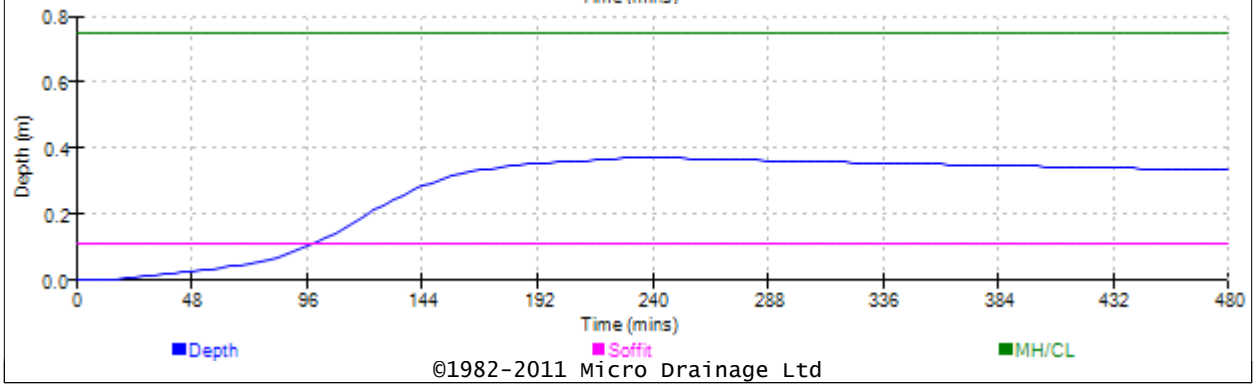
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Graphs for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Winter
Status: SURCHARGED



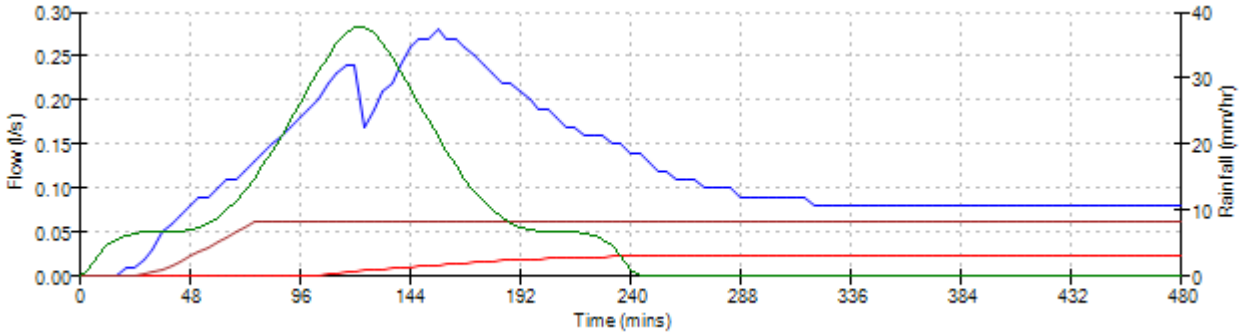


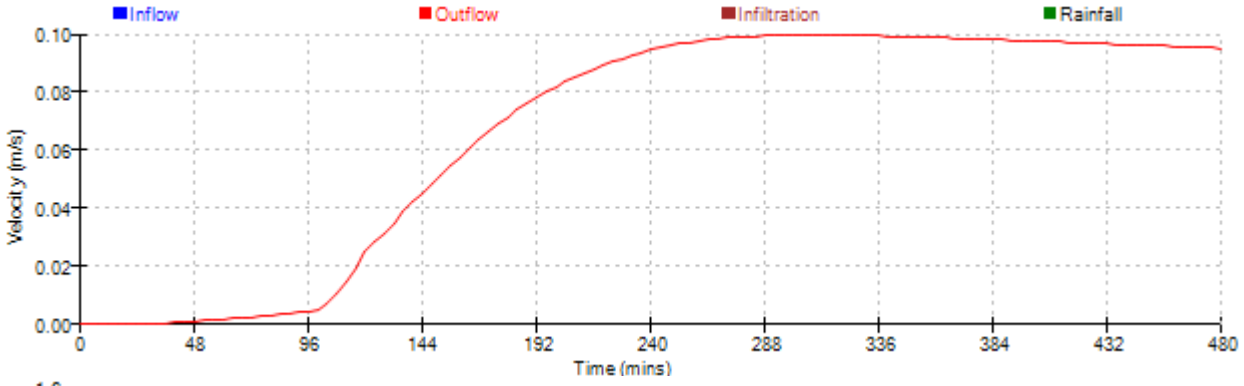


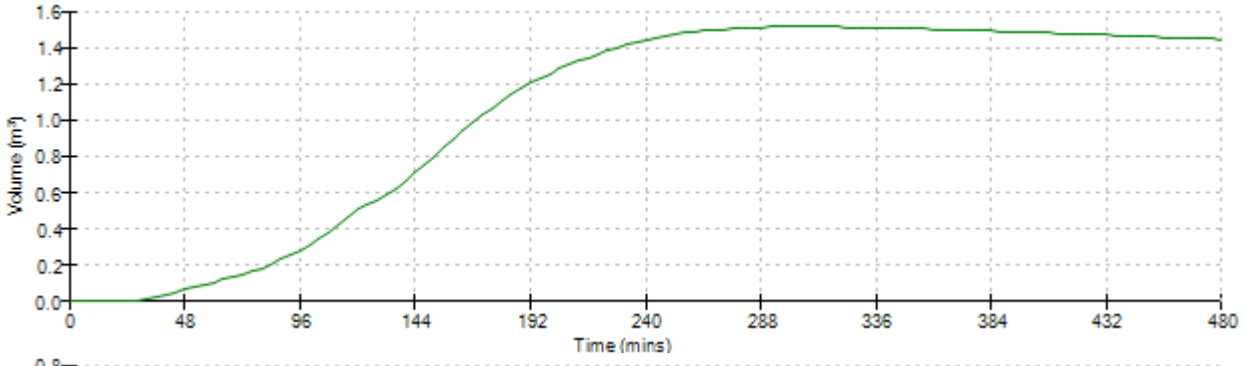


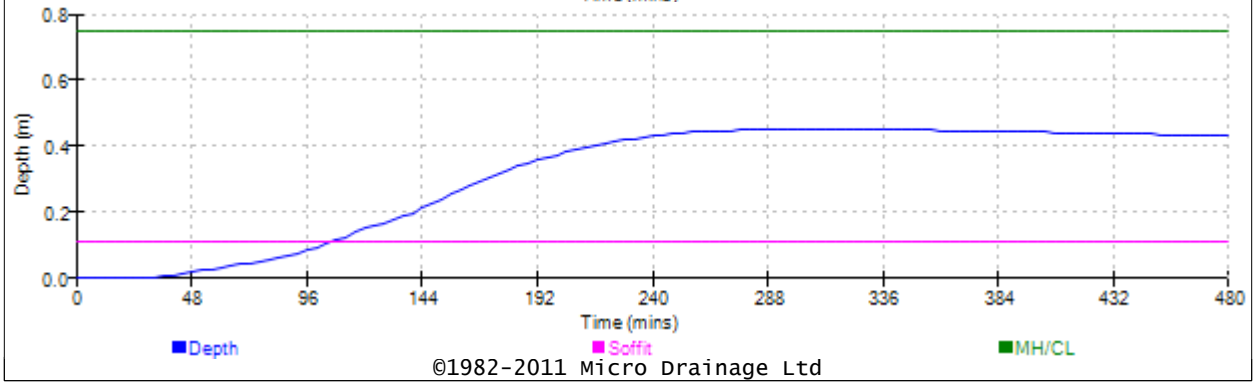
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.400	63.497	-0.110	0.0	0.1	0.0
8	65.401	63.501	-0.109	0.0	0.2	0.0
12	65.401	63.505	-0.109	0.0	0.3	0.1
16	65.402	63.506	-0.108	0.0	0.4	0.1
20	65.402	63.507	-0.108	0.0	0.4	0.1
24	65.402	63.507	-0.108	0.0	0.4	0.1
28	65.402	63.507	-0.108	0.0	0.4	0.1
32	65.402	63.507	-0.108	0.0	0.4	0.1
36	65.402	63.507	-0.108	0.0	0.4	0.1
40	65.402	63.507	-0.108	0.0	0.4	0.1
44	65.402	63.507	-0.108	0.0	0.5	0.1
48	65.402	63.507	-0.108	0.0	0.5	0.1
52	65.402	63.507	-0.108	0.0	0.5	0.1
56	65.403	63.508	-0.107	0.0	0.5	0.1
60	65.403	63.509	-0.107	0.0	0.6	0.1
64	65.403	63.509	-0.107	0.0	0.7	0.2
68	65.404	63.510	-0.106	0.0	0.7	0.2
72	65.404	63.512	-0.106	0.0	0.8	0.2
76	65.405	63.513	-0.105	0.0	1.0	0.2
80	65.405	63.515	-0.105	0.0	1.1	0.3
84	65.406	63.516	-0.104	0.0	1.2	0.3
88	65.407	63.517	-0.103	0.0	1.4	0.3
92	65.408	63.519	-0.102	0.0	1.3	0.4
96	65.408	63.520	-0.102	0.0	1.2	0.4
100	65.409	63.521	-0.101	0.0	1.2	0.5
104	65.410	63.522	-0.100	0.0	1.1	0.5
108	65.411	63.523	-0.099	0.0	1.1	0.5
112	65.411	63.524	-0.099	0.0	1.1	0.6
116	65.411	63.525	-0.099	0.0	1.1	0.6
120	65.411	63.525	-0.099	0.0	1.2	0.6
124	65.411	63.526	-0.099	0.0	1.2	0.6
128	65.411	63.525	-0.099	0.0	1.2	0.6
132	65.411	63.524	-0.099	0.0	1.1	0.6
136	65.411	63.527	-0.099	0.0	1.1	0.5
140	65.410	63.534	-0.100	0.0	1.1	0.5
144	65.410	63.545	-0.100	0.0	1.2	0.5
148	65.409	63.555	-0.101	0.0	1.2	0.4
152	65.408	63.564	-0.102	0.0	1.3	0.4
156	65.407	63.572	-0.103	0.0	1.3	0.4
160	65.406	63.579	-0.104	0.0	1.3	0.3
164	65.406	63.584	-0.104	0.0	1.1	0.3
168	65.405	63.589	-0.105	0.0	1.0	0.2
172	65.404	63.593	-0.106	0.0	0.9	0.2
176	65.404	63.597	-0.106	0.0	0.8	0.2
180	65.403	63.599	-0.107	0.0	0.7	0.2
184	65.403	63.602	-0.107	0.0	0.6	0.1
188	65.403	63.604	-0.107	0.0	0.5	0.1
192	65.402	63.606	-0.108	0.0	0.5	0.1
196	65.402	63.608	-0.108	0.0	0.5	0.1
200	65.402	63.609	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.402	63.611	-0.108	0.0	0.4	0.1
208	65.402	63.613	-0.108	0.0	0.4	0.1
212	65.402	63.615	-0.108	0.0	0.4	0.1
216	65.402	63.617	-0.108	0.0	0.4	0.1
220	65.402	63.619	-0.108	0.0	0.4	0.1
224	65.402	63.621	-0.108	0.0	0.4	0.1
228	65.402	63.622	-0.108	0.0	0.4	0.1
232	65.402	63.623	-0.108	0.0	0.3	0.1
236	65.401	63.623	-0.109	0.0	0.2	0.1
240	65.400	63.623	-0.110	0.0	0.1	0.0
244	65.400	63.621	-0.110	0.0	0.0	0.0
248	65.400	63.620	-0.110	0.0	0.0	0.0
252	65.400	63.619	-0.110	0.0	0.0	0.0
256	65.400	63.618	-0.110	0.0	0.0	0.0
260	65.400	63.617	-0.110	0.0	0.0	0.0
264	65.400	63.617	-0.110	0.0	0.0	0.0
268	65.400	63.616	-0.110	0.0	0.0	0.0
272	65.400	63.615	-0.110	0.0	0.0	0.0
276	65.400	63.615	-0.110	0.0	0.0	0.0
280	65.400	63.614	-0.110	0.0	0.0	0.0
284	65.400	63.613	-0.110	0.0	0.0	0.0
288	65.400	63.612	-0.110	0.0	0.0	0.0
292	65.400	63.611	-0.110	0.0	0.0	0.0
296	65.400	63.611	-0.110	0.0	0.0	0.0
300	65.400	63.610	-0.110	0.0	0.0	0.0
304	65.400	63.610	-0.110	0.0	0.0	0.0
308	65.400	63.609	-0.110	0.0	0.0	0.0
312	65.400	63.609	-0.110	0.0	0.0	0.0
316	65.400	63.608	-0.110	0.0	0.0	0.0
320	65.400	63.607	-0.110	0.0	0.0	0.0
324	65.400	63.606	-0.110	0.0	0.0	0.0
328	65.400	63.606	-0.110	0.0	0.0	0.0
332	65.400	63.605	-0.110	0.0	0.0	0.0
336	65.400	63.605	-0.110	0.0	0.0	0.0
340	65.400	63.604	-0.110	0.0	0.0	0.0
344	65.400	63.603	-0.110	0.0	0.0	0.0
348	65.400	63.603	-0.110	0.0	0.0	0.0
352	65.400	63.602	-0.110	0.0	0.0	0.0
356	65.400	63.602	-0.110	0.0	0.0	0.0
360	65.400	63.601	-0.110	0.0	0.0	0.0
364	65.400	63.600	-0.110	0.0	0.0	0.0
368	65.400	63.600	-0.110	0.0	0.0	0.0
372	65.400	63.599	-0.110	0.0	0.0	0.0
376	65.400	63.598	-0.110	0.0	0.0	0.0
380	65.400	63.598	-0.110	0.0	0.0	0.0
384	65.400	63.597	-0.110	0.0	0.0	0.0
388	65.400	63.597	-0.110	0.0	0.0	0.0
392	65.400	63.596	-0.110	0.0	0.0	0.0
396	65.400	63.595	-0.110	0.0	0.0	0.0
400	65.400	63.595	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.400	63.594	-0.110	0.0	0.0	0.0
408	65.400	63.594	-0.110	0.0	0.0	0.0
412	65.400	63.593	-0.110	0.0	0.0	0.0
416	65.400	63.592	-0.110	0.0	0.0	0.0
420	65.400	63.592	-0.110	0.0	0.0	0.0
424	65.400	63.591	-0.110	0.0	0.0	0.0
428	65.400	63.590	-0.110	0.0	0.0	0.0
432	65.400	63.590	-0.110	0.0	0.0	0.0
436	65.400	63.589	-0.110	0.0	0.0	0.0
440	65.400	63.589	-0.110	0.0	0.0	0.0
444	65.400	63.588	-0.110	0.0	0.0	0.0
448	65.400	63.588	-0.110	0.0	0.0	0.0
452	65.400	63.587	-0.110	0.0	0.0	0.0
456	65.400	63.587	-0.110	0.0	0.0	0.0
460	65.400	63.586	-0.110	0.0	0.0	0.0
464	65.400	63.585	-0.110	0.0	0.0	0.0
468	65.400	63.585	-0.110	0.0	0.0	0.0
472	65.400	63.584	-0.110	0.0	0.0	0.0
476	65.400	63.583	-0.110	0.0	0.0	0.0
480	65.400	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.497	63.449	-0.108	0.0	0.1	0.0
8	63.501	63.456	-0.103	0.0	0.3	0.1
12	63.505	63.458	-0.099	0.0	0.3	0.1
16	63.506	63.460	-0.098	0.0	0.3	0.2
20	63.507	63.461	-0.098	0.0	0.3	0.2
24	63.507	63.461	-0.097	0.0	0.3	0.2
28	63.507	63.461	-0.097	0.0	0.3	0.2
32	63.507	63.462	-0.097	0.0	0.3	0.2
36	63.507	63.461	-0.097	0.0	0.3	0.2
40	63.507	63.462	-0.097	0.0	0.3	0.2
44	63.507	63.462	-0.097	0.0	0.4	0.2
48	63.507	63.462	-0.097	0.0	0.4	0.2
52	63.507	63.463	-0.097	0.0	0.4	0.2
56	63.508	63.463	-0.096	0.0	0.4	0.3
60	63.509	63.465	-0.096	0.0	0.4	0.3
64	63.509	63.466	-0.095	0.0	0.4	0.3
68	63.510	63.467	-0.094	0.0	0.4	0.4
72	63.512	63.469	-0.093	0.0	0.4	0.4
76	63.513	63.470	-0.091	0.0	0.4	0.5
80	63.515	63.472	-0.089	0.0	0.4	0.5
84	63.516	63.474	-0.088	0.0	0.4	0.6
88	63.517	63.476	-0.087	0.0	0.5	0.7
92	63.519	63.478	-0.086	0.0	0.5	0.8
96	63.520	63.480	-0.084	0.0	0.5	0.8
100	63.521	63.482	-0.083	0.0	0.5	0.9
104	63.522	63.483	-0.082	0.0	0.5	1.0
108	63.523	63.485	-0.081	0.0	0.5	1.1
112	63.524	63.486	-0.080	0.0	0.5	1.1
116	63.525	63.487	-0.079	0.0	0.5	1.2
120	63.525	63.488	-0.079	0.0	0.5	1.2
124	63.526	63.488	-0.079	0.0	0.5	1.2
128	63.525	63.489	-0.079	0.0	0.5	1.2
132	63.524	63.502	-0.080	0.0	0.5	1.1
136	63.527	63.516	-0.077	0.0	0.5	1.1
140	63.534	63.529	-0.070	0.0	0.4	1.0
144	63.545	63.541	-0.059	0.0	0.3	0.9
148	63.555	63.552	-0.049	0.0	0.2	0.8
152	63.564	63.561	-0.040	0.0	0.1	0.8
156	63.572	63.569	-0.032	0.0	0.1	0.7
160	63.579	63.576	-0.026	0.0	0.1	0.6
164	63.584	63.582	-0.020	0.0	0.1	0.5
168	63.589	63.587	-0.015	0.0	0.1	0.5
172	63.593	63.591	-0.011	0.0	0.0	0.4
176	63.597	63.595	-0.008	0.0	0.0	0.4
180	63.599	63.598	-0.005	0.0	0.0	0.3
184	63.602	63.601	-0.002	0.0	0.0	0.3
188	63.604	63.603	0.000	0.0	0.0	0.3
192	63.606	63.605	0.002	0.0	0.0	0.2
196	63.608	63.607	0.003	0.0	0.0	0.2
200	63.609	63.608	0.005	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.611	63.610	0.007	0.0	0.0	0.2
208	63.613	63.612	0.009	0.0	0.0	0.2
212	63.615	63.614	0.011	0.0	0.0	0.2
216	63.617	63.616	0.013	0.0	0.0	0.2
220	63.619	63.618	0.015	0.0	0.0	0.2
224	63.621	63.620	0.017	0.0	0.0	0.2
228	63.622	63.621	0.018	0.0	0.0	0.2
232	63.623	63.622	0.019	0.0	0.0	0.1
236	63.623	63.623	0.019	0.0	0.0	0.1
240	63.623	63.622	0.018	0.0	0.0	0.0
244	63.621	63.621	0.017	0.0	0.0	0.0
248	63.620	63.620	0.016	0.0	0.0	0.0
252	63.619	63.619	0.015	0.0	0.0	0.0
256	63.618	63.619	0.014	0.0	0.0	0.0
260	63.617	63.618	0.013	0.0	0.0	0.0
264	63.617	63.617	0.013	0.0	0.0	0.0
268	63.616	63.616	0.012	0.0	0.0	0.0
272	63.615	63.615	0.011	0.0	0.0	0.0
276	63.615	63.615	0.011	0.0	0.0	0.0
280	63.614	63.614	0.010	0.0	0.0	0.0
284	63.613	63.613	0.009	0.0	0.0	0.0
288	63.612	63.613	0.008	0.0	0.0	0.0
292	63.611	63.612	0.007	0.0	0.0	0.0
296	63.611	63.611	0.007	0.0	0.0	0.0
300	63.610	63.611	0.006	0.0	0.0	0.0
304	63.610	63.610	0.006	0.0	0.0	0.0
308	63.609	63.609	0.005	0.0	0.0	0.0
312	63.609	63.609	0.004	0.0	0.0	0.0
316	63.608	63.608	0.004	0.0	0.0	0.0
320	63.607	63.607	0.003	0.0	0.0	0.0
324	63.606	63.607	0.002	0.0	0.0	0.0
328	63.606	63.606	0.002	0.0	0.0	0.0
332	63.605	63.605	0.001	0.0	0.0	0.0
336	63.605	63.605	0.001	0.0	0.0	0.0
340	63.604	63.604	0.000	0.0	0.0	0.0
344	63.603	63.603	-0.001	0.0	0.0	0.0
348	63.603	63.603	-0.002	0.0	0.0	0.0
352	63.602	63.602	-0.002	0.0	0.0	0.0
356	63.602	63.602	-0.003	0.0	0.0	0.0
360	63.601	63.601	-0.003	0.0	0.0	0.0
364	63.600	63.600	-0.004	0.0	0.0	0.0
368	63.600	63.600	-0.005	0.0	0.0	0.0
372	63.599	63.599	-0.005	0.0	0.0	0.0
376	63.598	63.598	-0.006	0.0	0.0	0.0
380	63.598	63.598	-0.006	0.0	0.0	0.0
384	63.597	63.597	-0.007	0.0	0.0	0.0
388	63.597	63.597	-0.007	0.0	0.0	0.0
392	63.596	63.596	-0.008	0.0	0.0	0.0
396	63.595	63.596	-0.009	0.0	0.0	0.0
400	63.595	63.595	-0.009	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.594	63.594	-0.010	0.0	0.0	0.0
408	63.594	63.594	-0.011	0.0	0.0	0.0
412	63.593	63.593	-0.011	0.0	0.0	0.0
416	63.592	63.592	-0.012	0.0	0.0	0.0
420	63.592	63.592	-0.012	0.0	0.0	0.0
424	63.591	63.591	-0.013	0.0	0.0	0.0
428	63.590	63.591	-0.014	0.0	0.0	0.0
432	63.590	63.590	-0.014	0.0	0.0	0.0
436	63.589	63.590	-0.015	0.0	0.0	0.0
440	63.589	63.589	-0.015	0.0	0.0	0.0
444	63.588	63.588	-0.016	0.0	0.0	0.0
448	63.588	63.588	-0.017	0.0	0.0	0.0
452	63.587	63.587	-0.017	0.0	0.0	0.0
456	63.587	63.587	-0.017	0.0	0.0	0.0
460	63.586	63.586	-0.018	0.0	0.0	0.0
464	63.585	63.585	-0.019	0.0	0.0	0.0
468	63.585	63.585	-0.020	0.0	0.0	0.0
472	63.584	63.584	-0.020	0.0	0.0	0.0
476	63.583	63.584	-0.021	0.0	0.0	0.0
480	63.583	63.583	-0.021	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.400	65.001	-0.110	0.0	0.1	0.0
8	65.401	65.002	-0.109	0.0	0.2	0.0
12	65.402	65.002	-0.108	0.0	0.3	0.1
16	65.402	65.003	-0.108	0.0	0.4	0.1
20	65.402	65.003	-0.108	0.0	0.4	0.1
24	65.403	65.004	-0.107	0.0	0.4	0.1
28	65.403	65.004	-0.107	0.0	0.4	0.1
32	65.403	65.004	-0.107	0.0	0.4	0.1
36	65.403	65.004	-0.107	0.0	0.4	0.1
40	65.403	65.004	-0.107	0.0	0.4	0.1
44	65.403	65.004	-0.107	0.0	0.5	0.1
48	65.403	65.004	-0.107	0.0	0.5	0.1
52	65.403	65.004	-0.107	0.0	0.5	0.1
56	65.403	65.005	-0.107	0.0	0.5	0.1
60	65.404	65.005	-0.106	0.0	0.6	0.1
64	65.404	65.006	-0.106	0.0	0.7	0.2
68	65.404	65.006	-0.106	0.0	0.7	0.2
72	65.405	65.007	-0.105	0.0	0.8	0.2
76	65.406	65.008	-0.104	0.0	1.0	0.2
80	65.407	65.009	-0.103	0.0	1.1	0.3
84	65.407	65.011	-0.103	0.0	1.1	0.3
88	65.408	65.011	-0.102	0.0	1.0	0.3
92	65.409	65.012	-0.101	0.0	1.0	0.4
96	65.410	65.012	-0.100	0.0	0.9	0.4
100	65.411	65.013	-0.099	0.0	0.9	0.5
104	65.411	65.013	-0.099	0.0	0.9	0.5
108	65.412	65.013	-0.098	0.0	1.0	0.5
112	65.412	65.014	-0.098	0.0	1.0	0.6
116	65.412	65.014	-0.098	0.0	1.0	0.6
120	65.412	65.014	-0.098	0.0	1.0	0.6
124	65.412	65.014	-0.098	0.0	1.0	0.6
128	65.412	65.014	-0.098	0.0	1.0	0.6
132	65.412	65.014	-0.098	0.0	1.0	0.6
136	65.412	65.014	-0.098	0.0	1.0	0.5
140	65.412	65.013	-0.098	0.0	1.0	0.5
144	65.411	65.013	-0.099	0.0	0.9	0.5
148	65.411	65.012	-0.099	0.0	0.9	0.4
152	65.410	65.012	-0.100	0.0	0.9	0.4
156	65.409	65.011	-0.101	0.0	1.0	0.4
160	65.408	65.011	-0.102	0.0	1.0	0.3
164	65.407	65.010	-0.103	0.0	1.1	0.3
168	65.406	65.009	-0.104	0.0	1.0	0.2
172	65.405	65.007	-0.105	0.0	0.9	0.2
176	65.405	65.007	-0.105	0.0	0.8	0.2
180	65.404	65.006	-0.106	0.0	0.7	0.2
184	65.404	65.005	-0.106	0.0	0.6	0.1
188	65.403	65.005	-0.107	0.0	0.5	0.1
192	65.403	65.004	-0.107	0.0	0.5	0.1
196	65.403	65.004	-0.107	0.0	0.5	0.1
200	65.403	65.004	-0.107	0.0	0.5	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.403	65.004	-0.107	0.0	0.4	0.1
208	65.403	65.004	-0.107	0.0	0.4	0.1
212	65.403	65.004	-0.107	0.0	0.4	0.1
216	65.403	65.004	-0.107	0.0	0.4	0.1
220	65.403	65.004	-0.107	0.0	0.4	0.1
224	65.403	65.004	-0.107	0.0	0.4	0.1
228	65.402	65.003	-0.108	0.0	0.4	0.1
232	65.402	65.003	-0.108	0.0	0.3	0.1
236	65.401	65.002	-0.109	0.0	0.2	0.1
240	65.401	65.001	-0.109	0.0	0.1	0.0
244	65.400	65.000	-0.110	0.0	0.0	0.0
248	65.400	65.000	-0.110	0.0	0.0	0.0
252	65.400	65.000	-0.110	0.0	0.0	0.0
256	65.400	65.000	-0.110	0.0	0.0	0.0
260	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
268	65.400	65.000	-0.110	0.0	0.0	0.0
272	65.400	65.000	-0.110	0.0	0.0	0.0
276	65.400	65.000	-0.110	0.0	0.0	0.0
280	65.400	65.000	-0.110	0.0	0.0	0.0
284	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
292	65.400	65.000	-0.110	0.0	0.0	0.0
296	65.400	65.000	-0.110	0.0	0.0	0.0
300	65.400	65.000	-0.110	0.0	0.0	0.0
304	65.400	65.000	-0.110	0.0	0.0	0.0
308	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
316	65.400	65.000	-0.110	0.0	0.0	0.0
320	65.400	65.000	-0.110	0.0	0.0	0.0
324	65.400	65.000	-0.110	0.0	0.0	0.0
328	65.400	65.000	-0.110	0.0	0.0	0.0
332	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
340	65.400	65.000	-0.110	0.0	0.0	0.0
344	65.400	65.000	-0.110	0.0	0.0	0.0
348	65.400	65.000	-0.110	0.0	0.0	0.0
352	65.400	65.000	-0.110	0.0	0.0	0.0
356	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
364	65.400	65.000	-0.110	0.0	0.0	0.0
368	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
376	65.400	65.000	-0.110	0.0	0.0	0.0
380	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
388	65.400	65.000	-0.110	0.0	0.0	0.0
392	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
412	65.400	65.000	-0.110	0.0	0.0	0.0
416	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
424	65.400	65.000	-0.110	0.0	0.0	0.0
428	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
436	65.400	65.000	-0.110	0.0	0.0	0.0
440	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
448	65.400	65.000	-0.110	0.0	0.0	0.0
452	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
460	65.400	65.000	-0.110	0.0	0.0	0.0
464	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
472	65.400	65.000	-0.110	0.0	0.0	0.0
476	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	65.001	63.449	-0.109	0.0	0.1	0.0
8	65.002	63.456	-0.108	0.0	0.4	0.1
12	65.002	63.458	-0.108	0.0	0.6	0.1
16	65.003	63.460	-0.107	0.0	0.7	0.2
20	65.003	63.461	-0.107	0.0	0.8	0.2
24	65.004	63.461	-0.106	0.0	0.9	0.2
28	65.004	63.461	-0.106	0.0	0.9	0.2
32	65.004	63.462	-0.106	0.0	0.9	0.2
36	65.004	63.461	-0.106	0.0	0.9	0.2
40	65.004	63.462	-0.106	0.0	0.9	0.2
44	65.004	63.462	-0.106	0.0	0.9	0.2
48	65.004	63.462	-0.106	0.0	0.9	0.2
52	65.004	63.463	-0.106	0.0	1.0	0.2
56	65.005	63.463	-0.105	0.0	1.1	0.3
60	65.005	63.465	-0.105	0.0	1.2	0.3
64	65.006	63.466	-0.104	0.0	1.3	0.3
68	65.006	63.467	-0.104	0.0	1.5	0.4
72	65.007	63.469	-0.103	0.0	1.5	0.4
76	65.008	63.470	-0.102	0.0	1.4	0.5
80	65.009	63.472	-0.101	0.0	1.4	0.5
84	65.011	63.474	-0.099	0.0	1.3	0.6
88	65.011	63.476	-0.099	0.0	1.3	0.7
92	65.012	63.478	-0.098	0.0	1.4	0.8
96	65.012	63.480	-0.098	0.0	1.4	0.8
100	65.013	63.482	-0.097	0.0	1.5	0.9
104	65.013	63.483	-0.097	0.0	1.6	1.0
108	65.013	63.485	-0.097	0.0	1.6	1.1
112	65.014	63.486	-0.096	0.0	1.6	1.1
116	65.014	63.487	-0.096	0.0	1.7	1.2
120	65.014	63.488	-0.096	0.0	1.7	1.2
124	65.014	63.488	-0.096	0.0	1.7	1.2
128	65.014	63.489	-0.096	0.0	1.7	1.2
132	65.014	63.502	-0.096	0.0	1.6	1.1
136	65.014	63.516	-0.096	0.0	1.6	1.1
140	65.013	63.529	-0.097	0.0	1.6	1.0
144	65.013	63.541	-0.097	0.0	1.5	0.9
148	65.012	63.552	-0.098	0.0	1.5	0.9
152	65.012	63.561	-0.098	0.0	1.4	0.8
156	65.011	63.569	-0.099	0.0	1.3	0.7
160	65.011	63.576	-0.099	0.0	1.3	0.6
164	65.010	63.582	-0.100	0.0	1.3	0.5
168	65.009	63.587	-0.101	0.0	1.4	0.5
172	65.007	63.591	-0.103	0.0	1.5	0.4
176	65.007	63.595	-0.103	0.0	1.5	0.4
180	65.006	63.598	-0.104	0.0	1.4	0.3
184	65.005	63.601	-0.105	0.0	1.2	0.3
188	65.005	63.603	-0.105	0.0	1.1	0.3
192	65.004	63.605	-0.106	0.0	1.0	0.2
196	65.004	63.607	-0.106	0.0	0.9	0.2
200	65.004	63.608	-0.106	0.0	0.9	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	65.004	63.610	-0.106	0.0	0.9	0.2
208	65.004	63.612	-0.106	0.0	0.9	0.2
212	65.004	63.614	-0.106	0.0	0.9	0.2
216	65.004	63.616	-0.106	0.0	0.9	0.2
220	65.004	63.618	-0.106	0.0	0.9	0.2
224	65.004	63.620	-0.106	0.0	0.8	0.2
228	65.003	63.621	-0.107	0.0	0.8	0.2
232	65.003	63.622	-0.107	0.0	0.6	0.2
236	65.002	63.623	-0.108	0.0	0.4	0.1
240	65.001	63.622	-0.109	0.0	0.2	0.0
244	65.000	63.621	-0.110	0.0	0.0	0.0
248	65.000	63.620	-0.110	0.0	0.0	0.0
252	65.000	63.619	-0.110	0.0	0.0	0.0
256	65.000	63.619	-0.110	0.0	0.0	0.0
260	65.000	63.618	-0.110	0.0	0.0	0.0
264	65.000	63.617	-0.110	0.0	0.0	0.0
268	65.000	63.616	-0.110	0.0	0.0	0.0
272	65.000	63.615	-0.110	0.0	0.0	0.0
276	65.000	63.615	-0.110	0.0	0.0	0.0
280	65.000	63.614	-0.110	0.0	0.0	0.0
284	65.000	63.613	-0.110	0.0	0.0	0.0
288	65.000	63.613	-0.110	0.0	0.0	0.0
292	65.000	63.612	-0.110	0.0	0.0	0.0
296	65.000	63.611	-0.110	0.0	0.0	0.0
300	65.000	63.611	-0.110	0.0	0.0	0.0
304	65.000	63.610	-0.110	0.0	0.0	0.0
308	65.000	63.609	-0.110	0.0	0.0	0.0
312	65.000	63.609	-0.110	0.0	0.0	0.0
316	65.000	63.608	-0.110	0.0	0.0	0.0
320	65.000	63.607	-0.110	0.0	0.0	0.0
324	65.000	63.607	-0.110	0.0	0.0	0.0
328	65.000	63.606	-0.110	0.0	0.0	0.0
332	65.000	63.605	-0.110	0.0	0.0	0.0
336	65.000	63.605	-0.110	0.0	0.0	0.0
340	65.000	63.604	-0.110	0.0	0.0	0.0
344	65.000	63.603	-0.110	0.0	0.0	0.0
348	65.000	63.603	-0.110	0.0	0.0	0.0
352	65.000	63.602	-0.110	0.0	0.0	0.0
356	65.000	63.602	-0.110	0.0	0.0	0.0
360	65.000	63.601	-0.110	0.0	0.0	0.0
364	65.000	63.600	-0.110	0.0	0.0	0.0
368	65.000	63.600	-0.110	0.0	0.0	0.0
372	65.000	63.599	-0.110	0.0	0.0	0.0
376	65.000	63.598	-0.110	0.0	0.0	0.0
380	65.000	63.598	-0.110	0.0	0.0	0.0
384	65.000	63.597	-0.110	0.0	0.0	0.0
388	65.000	63.597	-0.110	0.0	0.0	0.0
392	65.000	63.596	-0.110	0.0	0.0	0.0
396	65.000	63.596	-0.110	0.0	0.0	0.0
400	65.000	63.595	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	65.000	63.594	-0.110	0.0	0.0	0.0
408	65.000	63.594	-0.110	0.0	0.0	0.0
412	65.000	63.593	-0.110	0.0	0.0	0.0
416	65.000	63.592	-0.110	0.0	0.0	0.0
420	65.000	63.592	-0.110	0.0	0.0	0.0
424	65.000	63.591	-0.110	0.0	0.0	0.0
428	65.000	63.591	-0.110	0.0	0.0	0.0
432	65.000	63.590	-0.110	0.0	0.0	0.0
436	65.000	63.590	-0.110	0.0	0.0	0.0
440	65.000	63.589	-0.110	0.0	0.0	0.0
444	65.000	63.588	-0.110	0.0	0.0	0.0
448	65.000	63.588	-0.110	0.0	0.0	0.0
452	65.000	63.587	-0.110	0.0	0.0	0.0
456	65.000	63.587	-0.110	0.0	0.0	0.0
460	65.000	63.586	-0.110	0.0	0.0	0.0
464	65.000	63.585	-0.110	0.0	0.0	0.0
468	65.000	63.585	-0.110	0.0	0.0	0.0
472	65.000	63.584	-0.110	0.0	0.0	0.0
476	65.000	63.584	-0.110	0.0	0.0	0.0
480	65.000	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.449	63.250	-0.105	0.0	0.2	0.0
8	63.456	63.251	-0.098	0.0	0.3	0.2
12	63.458	63.253	-0.096	0.0	0.4	0.2
16	63.460	63.254	-0.095	0.0	0.4	0.3
20	63.461	63.257	-0.094	0.0	0.4	0.4
24	63.461	63.260	-0.093	0.0	0.4	0.4
28	63.461	63.263	-0.093	0.0	0.4	0.4
32	63.462	63.266	-0.093	0.0	0.4	0.4
36	63.461	63.269	-0.093	0.0	0.4	0.4
40	63.462	63.272	-0.093	0.0	0.4	0.4
44	63.462	63.275	-0.092	0.0	0.4	0.4
48	63.462	63.279	-0.092	0.0	0.4	0.4
52	63.463	63.281	-0.092	0.0	0.5	0.5
56	63.463	63.285	-0.091	0.0	0.5	0.5
60	63.465	63.288	-0.090	0.0	0.5	0.5
64	63.466	63.292	-0.088	0.0	0.5	0.6
68	63.467	63.296	-0.087	0.0	0.5	0.7
72	63.469	63.301	-0.085	0.0	0.5	0.8
76	63.470	63.307	-0.084	0.0	0.5	0.9
80	63.472	63.314	-0.082	0.0	0.5	1.0
84	63.474	63.321	-0.080	0.0	0.6	1.2
88	63.476	63.332	-0.078	0.0	0.6	1.3
92	63.478	63.342	-0.076	0.0	0.6	1.5
96	63.480	63.353	-0.074	0.0	0.6	1.6
100	63.482	63.366	-0.072	0.0	0.6	1.8
104	63.483	63.379	-0.071	0.0	0.6	2.0
108	63.485	63.394	-0.069	0.0	0.7	2.1
112	63.486	63.409	-0.068	0.0	0.7	2.2
116	63.487	63.427	-0.067	0.0	0.7	2.3
120	63.488	63.444	-0.066	0.0	0.7	2.4
124	63.488	63.461	-0.066	0.0	0.7	2.4
128	63.489	63.479	-0.065	0.0	0.7	2.4
132	63.502	63.494	-0.052	0.0	0.5	2.3
136	63.516	63.509	-0.038	0.0	0.4	2.1
140	63.529	63.523	-0.025	0.0	0.3	2.0
144	63.541	63.535	-0.013	0.0	0.2	1.8
148	63.552	63.546	-0.003	0.0	0.2	1.7
152	63.561	63.556	0.007	0.0	0.2	1.5
156	63.569	63.565	0.015	0.0	0.1	1.4
160	63.576	63.572	0.022	0.0	0.1	1.2
164	63.582	63.579	0.028	0.0	0.1	1.1
168	63.587	63.584	0.033	0.0	0.1	1.0
172	63.591	63.589	0.037	0.0	0.1	0.8
176	63.595	63.593	0.041	0.0	0.1	0.7
180	63.598	63.596	0.044	0.0	0.1	0.7
184	63.601	63.599	0.046	0.0	0.1	0.6
188	63.603	63.601	0.049	0.0	0.1	0.5
192	63.605	63.603	0.051	0.0	0.1	0.5
196	63.607	63.605	0.052	0.0	0.0	0.5
200	63.608	63.607	0.054	0.0	0.0	0.4

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.610	63.609	0.056	0.0	0.0	0.4
208	63.612	63.611	0.058	0.0	0.0	0.4
212	63.614	63.613	0.060	0.0	0.0	0.4
216	63.616	63.615	0.062	0.0	0.0	0.4
220	63.618	63.617	0.064	0.0	0.0	0.4
224	63.620	63.619	0.066	0.0	0.0	0.4
228	63.621	63.620	0.067	0.0	0.0	0.4
232	63.622	63.622	0.068	0.0	0.0	0.3
236	63.623	63.622	0.069	0.0	0.0	0.2
240	63.622	63.622	0.068	0.0	0.0	0.1
244	63.621	63.621	0.067	0.0	0.0	0.0
248	63.620	63.621	0.066	0.0	0.0	0.0
252	63.619	63.620	0.065	0.0	0.0	0.0
256	63.619	63.619	0.064	0.0	0.0	0.0
260	63.618	63.618	0.064	0.0	0.0	0.0
264	63.617	63.617	0.063	0.0	0.0	0.0
268	63.616	63.617	0.062	0.0	0.0	0.0
272	63.615	63.616	0.061	0.0	0.0	0.0
276	63.615	63.615	0.061	0.0	0.0	0.0
280	63.614	63.614	0.060	0.0	0.0	0.0
284	63.613	63.613	0.059	0.0	0.0	0.0
288	63.613	63.613	0.059	0.0	0.0	0.0
292	63.612	63.612	0.058	0.0	0.0	0.0
296	63.611	63.611	0.057	0.0	0.0	0.0
300	63.611	63.611	0.056	0.0	0.0	0.0
304	63.610	63.610	0.056	0.0	0.0	0.0
308	63.609	63.609	0.055	0.0	0.0	0.0
312	63.609	63.609	0.055	0.0	0.0	0.0
316	63.608	63.608	0.054	0.0	0.0	0.0
320	63.607	63.607	0.053	0.0	0.0	0.0
324	63.607	63.607	0.052	0.0	0.0	0.0
328	63.606	63.606	0.052	0.0	0.0	0.0
332	63.605	63.606	0.051	0.0	0.0	0.0
336	63.605	63.605	0.051	0.0	0.0	0.0
340	63.604	63.604	0.050	0.0	0.0	0.0
344	63.603	63.604	0.049	0.0	0.0	0.0
348	63.603	63.603	0.049	0.0	0.0	0.0
352	63.602	63.602	0.048	0.0	0.0	0.0
356	63.602	63.602	0.048	0.0	0.0	0.0
360	63.601	63.601	0.047	0.0	0.0	0.0
364	63.600	63.601	0.046	0.0	0.0	0.0
368	63.600	63.600	0.046	0.0	0.0	0.0
372	63.599	63.599	0.045	0.0	0.0	0.0
376	63.598	63.599	0.044	0.0	0.0	0.0
380	63.598	63.598	0.044	0.0	0.0	0.0
384	63.597	63.598	0.043	0.0	0.0	0.0
388	63.597	63.597	0.043	0.0	0.0	0.0
392	63.596	63.596	0.042	0.0	0.0	0.0
396	63.596	63.596	0.041	0.0	0.0	0.0
400	63.595	63.595	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.594	63.595	0.040	0.0	0.0	0.0
408	63.594	63.594	0.040	0.0	0.0	0.0
412	63.593	63.593	0.039	0.0	0.0	0.0
416	63.592	63.593	0.038	0.0	0.0	0.0
420	63.592	63.592	0.038	0.0	0.0	0.0
424	63.591	63.592	0.037	0.0	0.0	0.0
428	63.591	63.591	0.037	0.0	0.0	0.0
432	63.590	63.590	0.036	0.0	0.0	0.0
436	63.590	63.590	0.036	0.0	0.0	0.0
440	63.589	63.589	0.035	0.0	0.0	0.0
444	63.588	63.589	0.034	0.0	0.0	0.0
448	63.588	63.588	0.034	0.0	0.0	0.0
452	63.587	63.587	0.033	0.0	0.0	0.0
456	63.587	63.587	0.033	0.0	0.0	0.0
460	63.586	63.586	0.032	0.0	0.0	0.0
464	63.585	63.586	0.031	0.0	0.0	0.0
468	63.585	63.585	0.031	0.0	0.0	0.0
472	63.584	63.584	0.030	0.0	0.0	0.0
476	63.584	63.584	0.030	0.0	0.0	0.0
480	63.583	63.583	0.029	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.250	63.100	-0.110	0.0	0.0	0.0
8	63.251	63.100	-0.109	0.0	0.0	0.0
12	63.253	63.100	-0.107	0.0	0.0	0.0
16	63.254	63.100	-0.106	0.0	0.0	0.0
20	63.257	63.100	-0.103	0.0	0.0	0.0
24	63.260	63.101	-0.100	0.0	0.1	0.0
28	63.263	63.103	-0.097	0.0	0.1	0.0
32	63.266	63.105	-0.094	0.0	0.2	0.0
36	63.269	63.107	-0.091	0.0	0.2	0.0
40	63.272	63.111	-0.088	0.0	0.2	0.1
44	63.275	63.114	-0.085	0.0	0.3	0.1
48	63.279	63.120	-0.081	0.0	0.3	0.1
52	63.281	63.124	-0.079	0.0	0.3	0.1
56	63.285	63.128	-0.075	0.0	0.3	0.1
60	63.288	63.133	-0.072	0.0	0.3	0.1
64	63.292	63.137	-0.068	0.0	0.3	0.1
68	63.296	63.142	-0.064	0.0	0.3	0.1
72	63.301	63.146	-0.059	0.0	0.3	0.1
76	63.307	63.151	-0.053	0.0	0.3	0.1
80	63.314	63.156	-0.046	0.0	0.3	0.1
84	63.321	63.162	-0.039	0.0	0.3	0.1
88	63.332	63.169	-0.028	0.0	0.3	0.2
92	63.342	63.177	-0.018	0.0	0.3	0.2
96	63.353	63.185	-0.007	0.0	0.3	0.2
100	63.366	63.194	0.006	0.0	0.3	0.2
104	63.379	63.204	0.019	0.0	0.3	0.2
108	63.394	63.215	0.034	0.0	0.4	0.2
112	63.409	63.226	0.049	0.0	0.4	0.2
116	63.427	63.239	0.067	0.0	0.4	0.2
120	63.444	63.252	0.084	0.0	0.4	0.2
124	63.461	63.259	0.101	0.0	0.3	0.2
128	63.479	63.267	0.119	0.0	0.3	0.2
132	63.494	63.276	0.134	0.0	0.3	0.2
136	63.509	63.287	0.149	0.0	0.4	0.2
140	63.523	63.299	0.163	0.0	0.4	0.2
144	63.535	63.312	0.175	0.0	0.4	0.3
148	63.546	63.326	0.186	0.0	0.4	0.3
152	63.556	63.340	0.196	0.0	0.4	0.3
156	63.565	63.354	0.205	0.0	0.4	0.3
160	63.572	63.368	0.212	0.0	0.4	0.3
164	63.579	63.382	0.219	0.0	0.4	0.3
168	63.584	63.395	0.224	0.0	0.4	0.3
172	63.589	63.408	0.229	0.0	0.3	0.3
176	63.593	63.419	0.233	0.0	0.2	0.2
180	63.596	63.430	0.236	0.0	0.1	0.2
184	63.599	63.441	0.239	0.0	0.1	0.2
188	63.601	63.450	0.241	0.0	0.0	0.2
192	63.603	63.459	0.243	0.0	0.0	0.2
196	63.605	63.467	0.245	0.0	0.0	0.2
200	63.607	63.475	0.247	0.0	0.0	0.2

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.609	63.482	0.249	0.0	0.0	0.2
208	63.611	63.489	0.251	0.0	0.0	0.2
212	63.613	63.496	0.253	0.0	0.0	0.2
216	63.615	63.502	0.255	0.0	0.0	0.2
220	63.617	63.507	0.257	0.0	0.0	0.2
224	63.619	63.513	0.259	0.0	0.0	0.2
228	63.620	63.518	0.260	0.0	0.0	0.2
232	63.622	63.523	0.262	0.0	0.0	0.2
236	63.622	63.527	0.262	0.0	0.0	0.1
240	63.622	63.530	0.262	0.0	0.0	0.1
244	63.621	63.534	0.261	0.0	0.0	0.1
248	63.621	63.537	0.261	0.0	0.0	0.1
252	63.620	63.540	0.260	0.0	0.0	0.1
256	63.619	63.542	0.259	0.0	0.0	0.1
260	63.618	63.544	0.258	0.0	0.0	0.1
264	63.617	63.546	0.257	0.0	0.0	0.1
268	63.617	63.547	0.257	0.0	0.0	0.1
272	63.616	63.548	0.256	0.0	0.0	0.1
276	63.615	63.549	0.255	0.0	0.0	0.1
280	63.614	63.550	0.254	0.0	0.0	0.1
284	63.613	63.551	0.253	0.0	0.0	0.1
288	63.613	63.551	0.253	0.0	0.0	0.1
292	63.612	63.551	0.252	0.0	0.0	0.1
296	63.611	63.552	0.251	0.0	0.0	0.1
300	63.611	63.552	0.251	0.0	0.0	0.1
304	63.610	63.552	0.250	0.0	0.0	0.1
308	63.609	63.552	0.249	0.0	0.0	0.1
312	63.609	63.552	0.249	0.0	0.0	0.1
316	63.608	63.552	0.248	0.0	0.0	0.1
320	63.607	63.552	0.247	0.0	0.0	0.1
324	63.607	63.551	0.247	0.0	0.0	0.1
328	63.606	63.551	0.246	0.0	0.0	0.1
332	63.606	63.551	0.246	0.0	0.0	0.1
336	63.605	63.551	0.245	0.0	0.0	0.1
340	63.604	63.550	0.244	0.0	0.0	0.1
344	63.604	63.550	0.244	0.0	0.0	0.1
348	63.603	63.549	0.243	0.0	0.0	0.1
352	63.602	63.549	0.242	0.0	0.0	0.1
356	63.602	63.548	0.242	0.0	0.0	0.1
360	63.601	63.548	0.241	0.0	0.0	0.1
364	63.601	63.547	0.241	0.0	0.0	0.1
368	63.600	63.547	0.240	0.0	0.0	0.1
372	63.599	63.546	0.239	0.0	0.0	0.1
376	63.599	63.546	0.239	0.0	0.0	0.1
380	63.598	63.545	0.238	0.0	0.0	0.1
384	63.598	63.545	0.238	0.0	0.0	0.1
388	63.597	63.544	0.237	0.0	0.0	0.1
392	63.596	63.544	0.236	0.0	0.0	0.1
396	63.596	63.543	0.236	0.0	0.0	0.1
400	63.595	63.543	0.235	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.595	63.542	0.235	0.0	0.0	0.1
408	63.594	63.542	0.234	0.0	0.0	0.1
412	63.593	63.541	0.233	0.0	0.0	0.1
416	63.593	63.541	0.233	0.0	0.0	0.1
420	63.592	63.540	0.232	0.0	0.0	0.1
424	63.592	63.539	0.232	0.0	0.0	0.1
428	63.591	63.539	0.231	0.0	0.0	0.1
432	63.590	63.538	0.230	0.0	0.0	0.1
436	63.590	63.538	0.230	0.0	0.0	0.1
440	63.589	63.537	0.229	0.0	0.0	0.1
444	63.589	63.537	0.229	0.0	0.0	0.1
448	63.588	63.536	0.228	0.0	0.0	0.1
452	63.587	63.535	0.227	0.0	0.0	0.1
456	63.587	63.535	0.227	0.0	0.0	0.1
460	63.586	63.534	0.226	0.0	0.0	0.1
464	63.586	63.534	0.226	0.0	0.0	0.1
468	63.585	63.533	0.225	0.0	0.0	0.1
472	63.584	63.533	0.224	0.0	0.0	0.1
476	63.584	63.532	0.224	0.0	0.0	0.1
480	63.583	63.531	0.223	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4	63.100	63.096	-0.110	0.0	0.0	0.0
8	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
16	63.100	63.096	-0.110	0.0	0.0	0.0
20	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.101	63.096	-0.109	0.0	0.0	0.0
28	63.103	63.096	-0.107	0.0	0.0	0.0
32	63.105	63.096	-0.105	0.0	0.0	0.0
36	63.107	63.096	-0.103	0.0	0.0	0.0
40	63.111	63.096	-0.099	0.0	0.0	0.0
44	63.114	63.096	-0.096	0.0	0.0	0.0
48	63.120	63.096	-0.090	0.0	0.0	0.0
52	63.124	63.096	-0.086	0.0	0.0	0.0
56	63.128	63.096	-0.082	0.0	0.0	0.0
60	63.133	63.096	-0.077	0.0	0.0	0.0
64	63.137	63.096	-0.073	0.0	0.0	0.0
68	63.142	63.096	-0.068	0.0	0.0	0.0
72	63.146	63.096	-0.064	0.0	0.0	0.0
76	63.151	63.096	-0.059	0.0	0.0	0.0
80	63.156	63.096	-0.054	0.0	0.0	0.0
84	63.162	63.096	-0.048	0.0	0.0	0.0
88	63.169	63.096	-0.041	0.0	0.0	0.0
92	63.177	63.096	-0.033	0.0	0.0	0.0
96	63.185	63.096	-0.025	0.0	0.0	0.0
100	63.194	63.096	-0.016	0.0	0.0	0.0
104	63.204	63.096	-0.006	0.0	0.0	0.0
108	63.215	63.096	0.005	0.0	0.0	0.0
112	63.226	63.096	0.016	0.0	0.0	0.0
116	63.239	63.096	0.029	0.0	0.0	0.0
120	63.252	63.096	0.042	0.0	0.0	0.0
124	63.259	63.096	0.049	0.0	0.0	0.0
128	63.267	63.096	0.057	0.0	0.0	0.0
132	63.276	63.096	0.066	0.0	0.0	0.0
136	63.287	63.096	0.077	0.0	0.0	0.0
140	63.299	63.096	0.089	0.0	0.0	0.0
144	63.312	63.096	0.102	0.0	0.0	0.0
148	63.326	63.096	0.116	0.0	0.0	0.0
152	63.340	63.096	0.130	0.0	0.1	0.0
156	63.354	63.096	0.144	0.0	0.1	0.0
160	63.368	63.096	0.158	0.0	0.1	0.0
164	63.382	63.096	0.172	0.0	0.1	0.0
168	63.395	63.096	0.185	0.0	0.1	0.0
172	63.408	63.096	0.198	0.0	0.1	0.0
176	63.419	63.096	0.209	0.0	0.1	0.0
180	63.430	63.096	0.220	0.0	0.1	0.0
184	63.441	63.096	0.231	0.0	0.1	0.0
188	63.450	63.096	0.240	0.0	0.1	0.0
192	63.459	63.096	0.249	0.0	0.1	0.0
196	63.467	63.096	0.257	0.0	0.1	0.0
200	63.475	63.096	0.265	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
204	63.482	63.096	0.272	0.0	0.1	0.0
208	63.489	63.096	0.279	0.0	0.1	0.0
212	63.496	63.096	0.286	0.0	0.1	0.0
216	63.502	63.096	0.292	0.0	0.1	0.0
220	63.507	63.096	0.297	0.0	0.1	0.0
224	63.513	63.096	0.303	0.0	0.1	0.0
228	63.518	63.096	0.308	0.0	0.1	0.0
232	63.523	63.096	0.313	0.0	0.1	0.0
236	63.527	63.096	0.317	0.0	0.1	0.0
240	63.530	63.096	0.320	0.0	0.1	0.0
244	63.534	63.096	0.324	0.0	0.1	0.0
248	63.537	63.096	0.327	0.0	0.1	0.0
252	63.540	63.096	0.330	0.0	0.1	0.0
256	63.542	63.096	0.332	0.0	0.1	0.0
260	63.544	63.096	0.334	0.0	0.1	0.0
264	63.546	63.096	0.336	0.0	0.1	0.0
268	63.547	63.096	0.337	0.0	0.1	0.0
272	63.548	63.096	0.338	0.0	0.1	0.0
276	63.549	63.096	0.339	0.0	0.1	0.0
280	63.550	63.096	0.340	0.0	0.1	0.0
284	63.551	63.096	0.341	0.0	0.1	0.0
288	63.551	63.096	0.341	0.0	0.1	0.0
292	63.551	63.096	0.341	0.0	0.1	0.0
296	63.552	63.096	0.342	0.0	0.1	0.0
300	63.552	63.096	0.342	0.0	0.1	0.0
304	63.552	63.096	0.342	0.0	0.1	0.0
308	63.552	63.096	0.342	0.0	0.1	0.0
312	63.552	63.096	0.342	0.0	0.1	0.0
316	63.552	63.096	0.342	0.0	0.1	0.0
320	63.552	63.096	0.342	0.0	0.1	0.0
324	63.551	63.096	0.341	0.0	0.1	0.0
328	63.551	63.096	0.341	0.0	0.1	0.0
332	63.551	63.096	0.341	0.0	0.1	0.0
336	63.551	63.096	0.341	0.0	0.1	0.0
340	63.550	63.096	0.340	0.0	0.1	0.0
344	63.550	63.096	0.340	0.0	0.1	0.0
348	63.549	63.096	0.339	0.0	0.1	0.0
352	63.549	63.096	0.339	0.0	0.1	0.0
356	63.548	63.096	0.338	0.0	0.1	0.0
360	63.548	63.096	0.338	0.0	0.1	0.0
364	63.547	63.096	0.337	0.0	0.1	0.0
368	63.547	63.096	0.337	0.0	0.1	0.0
372	63.546	63.096	0.336	0.0	0.1	0.0
376	63.546	63.096	0.336	0.0	0.1	0.0
380	63.545	63.096	0.335	0.0	0.1	0.0
384	63.545	63.096	0.335	0.0	0.1	0.0
388	63.544	63.096	0.334	0.0	0.1	0.0
392	63.544	63.096	0.334	0.0	0.1	0.0
396	63.543	63.096	0.333	0.0	0.1	0.0
400	63.543	63.096	0.333	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
404	63.542	63.096	0.332	0.0	0.1	0.0
408	63.542	63.096	0.332	0.0	0.1	0.0
412	63.541	63.096	0.331	0.0	0.1	0.0
416	63.541	63.096	0.331	0.0	0.1	0.0
420	63.540	63.096	0.330	0.0	0.1	0.0
424	63.539	63.096	0.329	0.0	0.1	0.0
428	63.539	63.096	0.329	0.0	0.1	0.0
432	63.538	63.096	0.328	0.0	0.1	0.0
436	63.538	63.096	0.328	0.0	0.1	0.0
440	63.537	63.096	0.327	0.0	0.1	0.0
444	63.537	63.096	0.327	0.0	0.1	0.0
448	63.536	63.096	0.326	0.0	0.1	0.0
452	63.535	63.096	0.325	0.0	0.1	0.0
456	63.535	63.096	0.325	0.0	0.1	0.0
460	63.534	63.096	0.324	0.0	0.1	0.0
464	63.534	63.096	0.324	0.0	0.1	0.0
468	63.533	63.096	0.323	0.0	0.1	0.0
472	63.533	63.096	0.323	0.0	0.1	0.0
476	63.532	63.096	0.322	0.0	0.1	0.0
480	63.531	63.096	0.321	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	360
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m)	63.250	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr)	0.04461	Diameter/Width (m)	1.2
Safety Factor	2.0	Length (m)	8.5
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	63.100		

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Summary of Results for 360 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.412	-0.098	0.000	0.03	0.0	0.7	OK
1.001	S1	63.648	0.044	0.000	0.20	0.0	1.3	SURCHARGED
2.000	RE2	65.413	-0.097	0.000	0.03	0.0	0.7	OK
2.001	S2	65.015	-0.095	0.000	0.05	0.0	1.3	OK
1.002	S3	63.648	0.094	0.000	0.38	0.0	2.7	SURCHARGED
1.003	S4	63.647	0.287	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.582	0.372	0.000	0.01	0.0	0.0	SURCHARGED

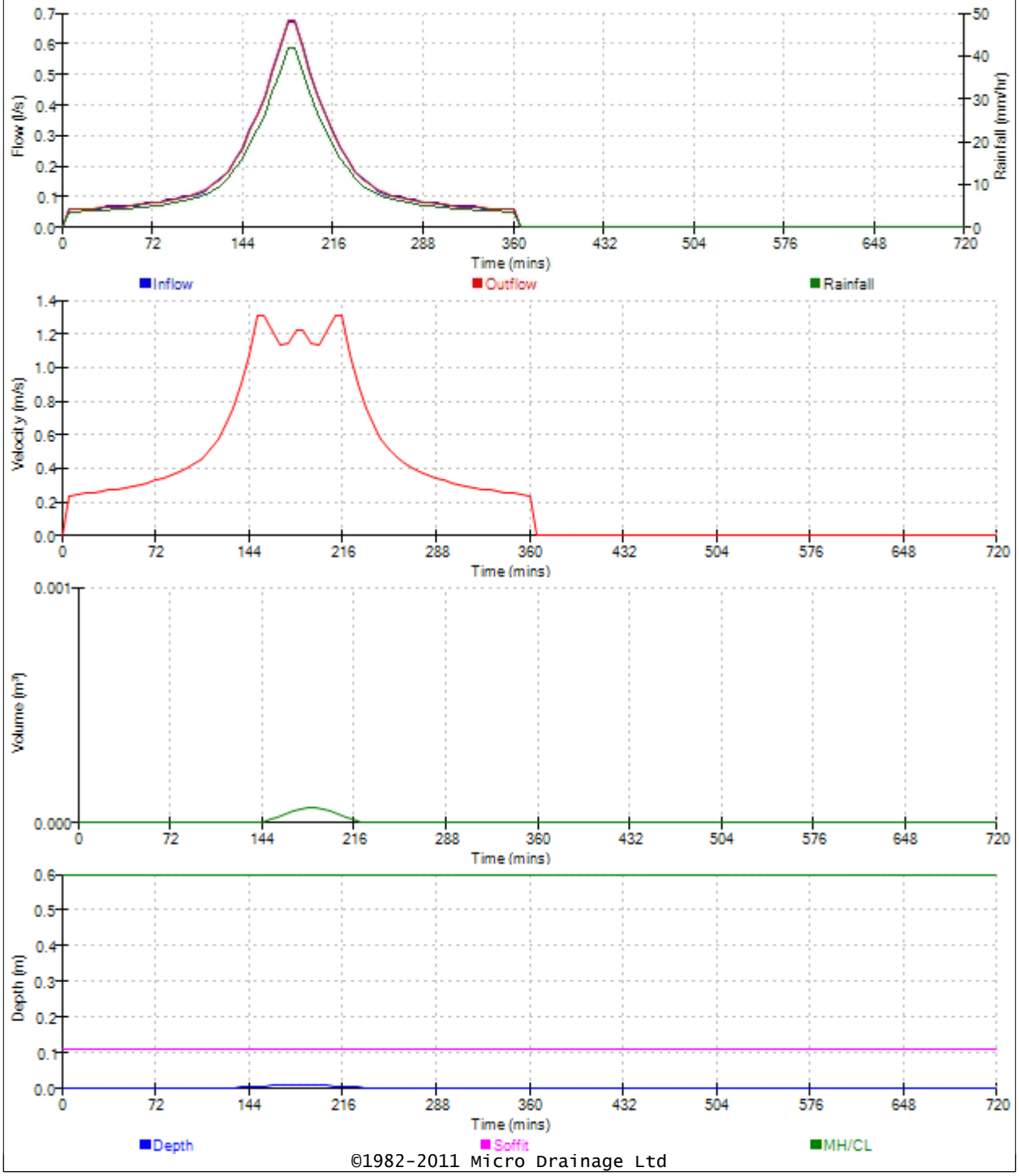
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Rainfall Hyetograph for 360 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6	3.584	78	5.177	150	19.601	222	16.106	294	4.934
12	3.673	84	5.442	156	23.008	228	13.606	300	4.757
18	3.761	90	5.708	162	26.681	234	11.438	306	4.580
24	3.872	96	6.062	168	31.460	240	9.756	312	4.381
30	3.960	102	6.438	174	36.327	246	8.628	318	4.226
36	4.049	108	6.947	180	41.858	252	7.699	324	4.137
42	4.137	114	7.699	186	41.858	258	6.947	330	4.049
48	4.226	120	8.628	192	36.327	264	6.438	336	3.960
54	4.380	126	9.756	198	31.460	270	6.062	342	3.872
60	4.580	132	11.438	204	26.681	276	5.708	348	3.761
66	4.757	138	13.606	210	23.008	282	5.442	354	3.673
72	4.934	144	16.106	216	19.601	288	5.177	360	3.584

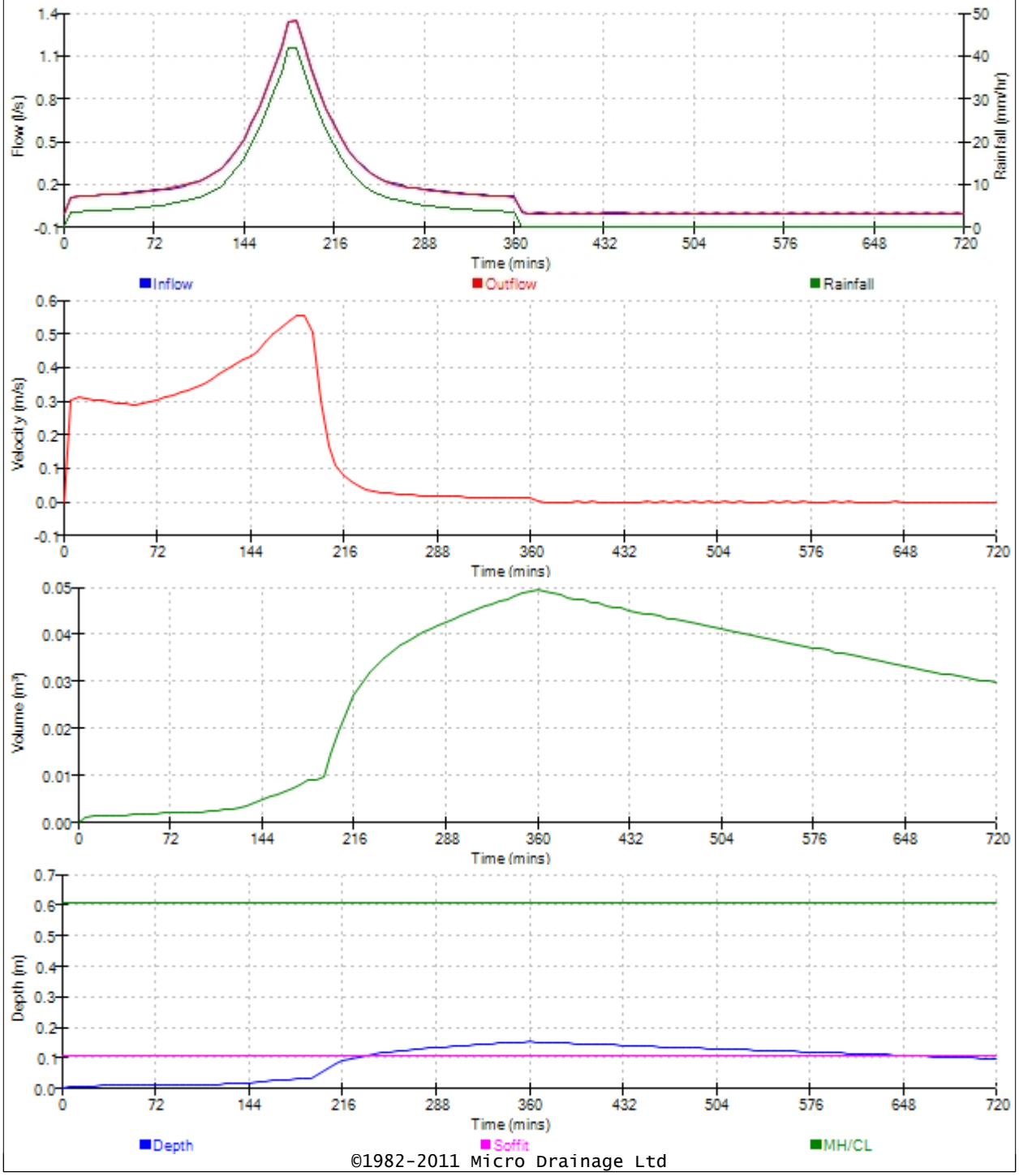
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Status: OK



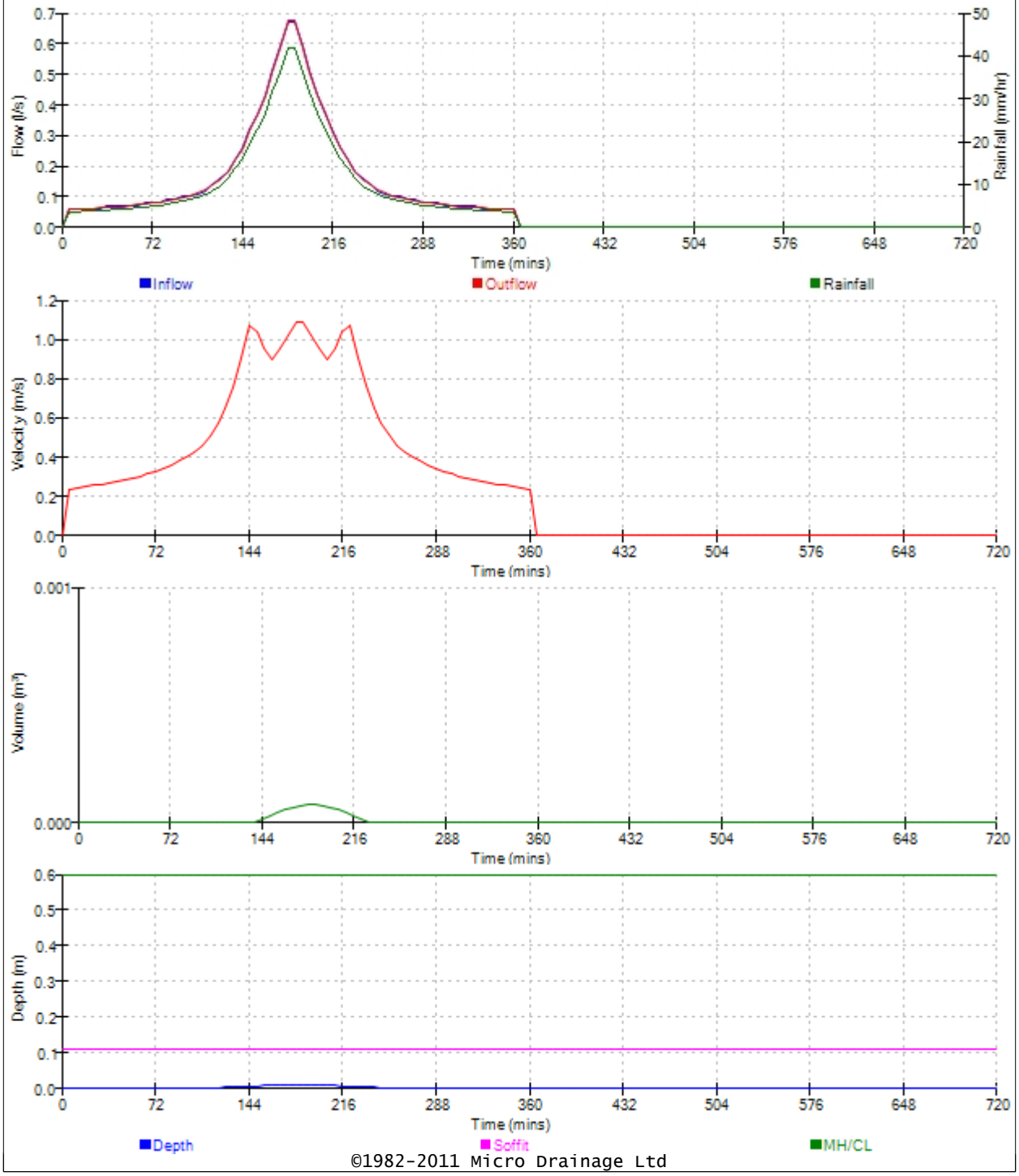
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Graphs for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Status: SURCHARGED



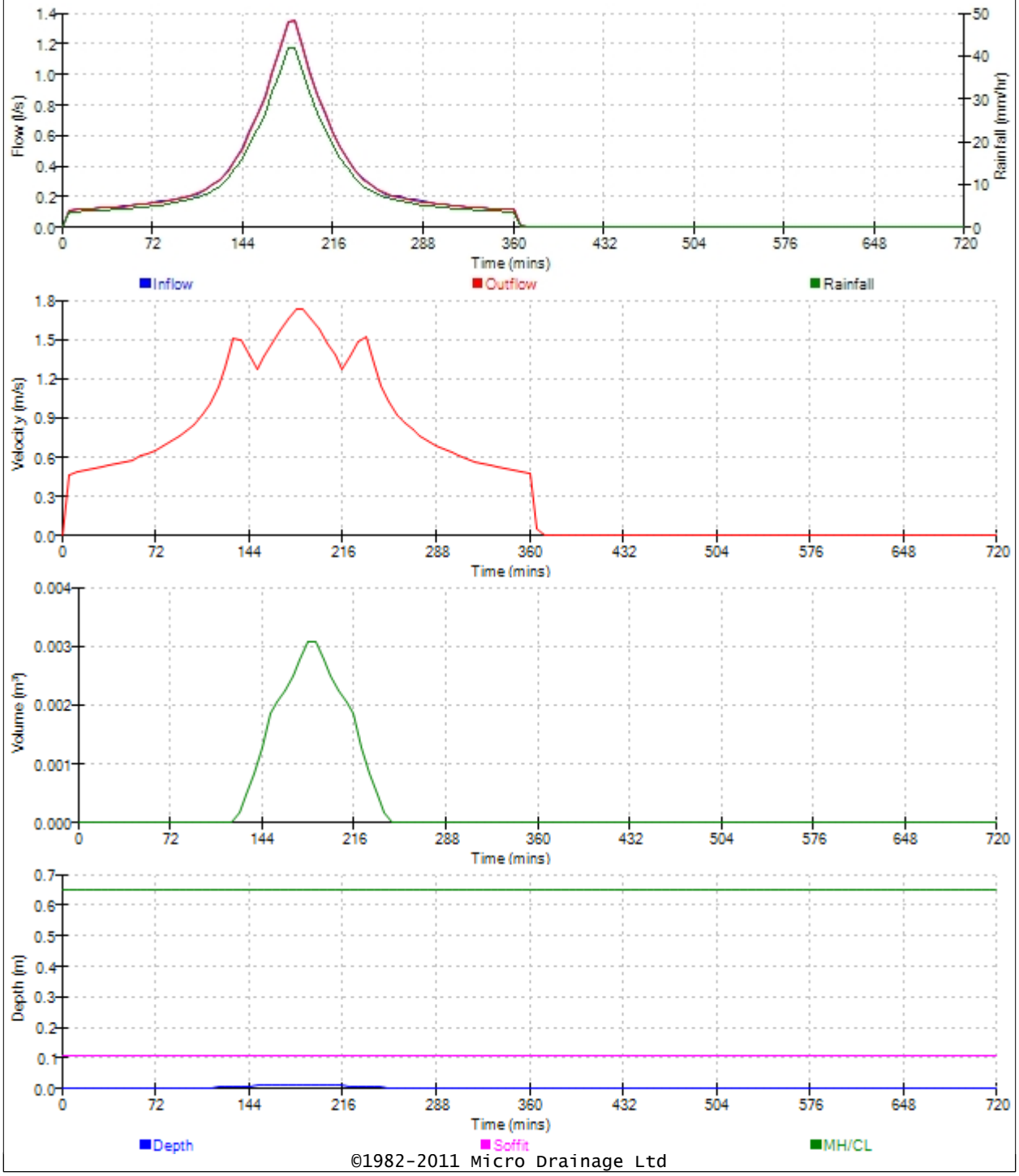
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Status: OK



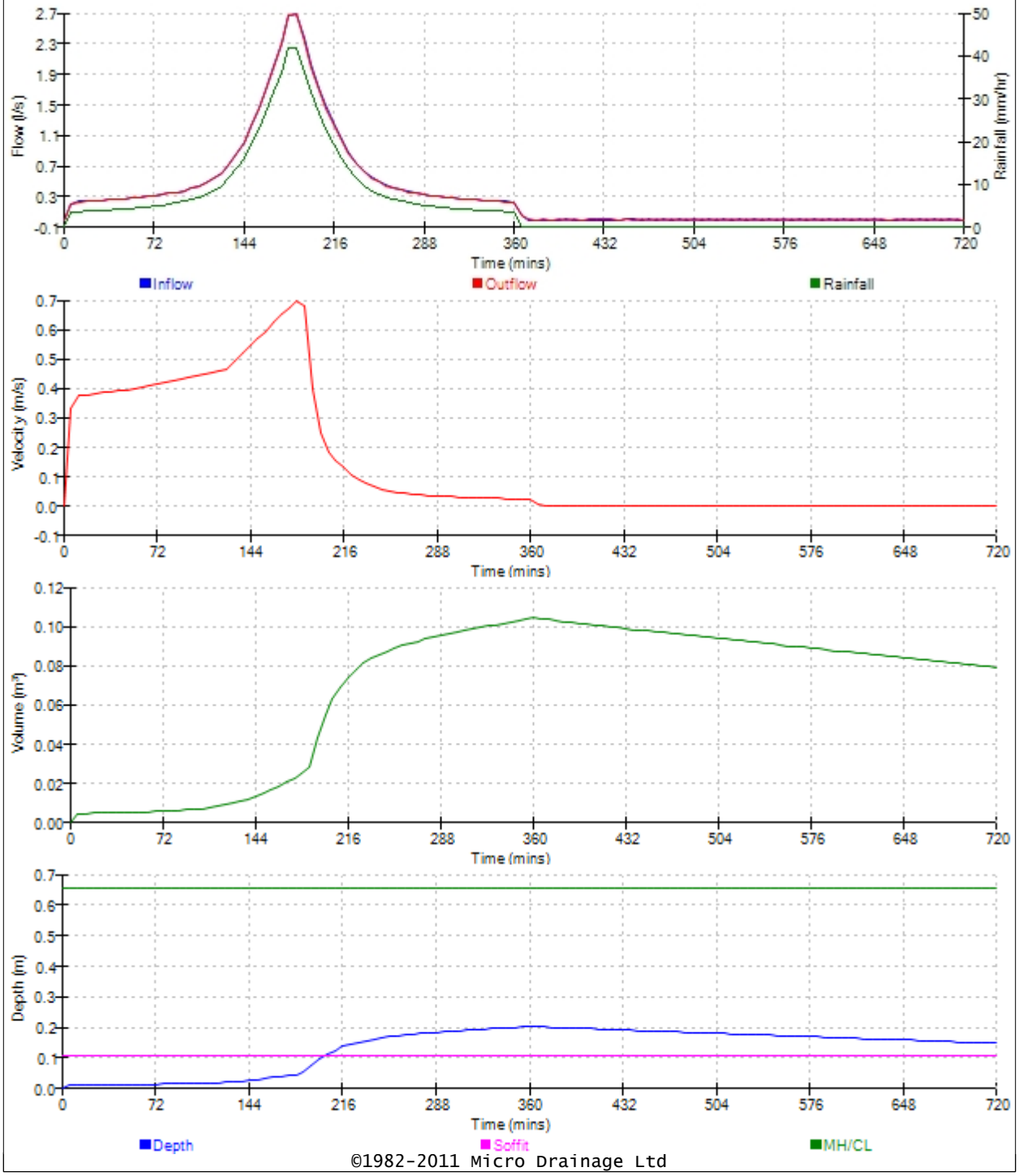
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Graphs for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Status: OK



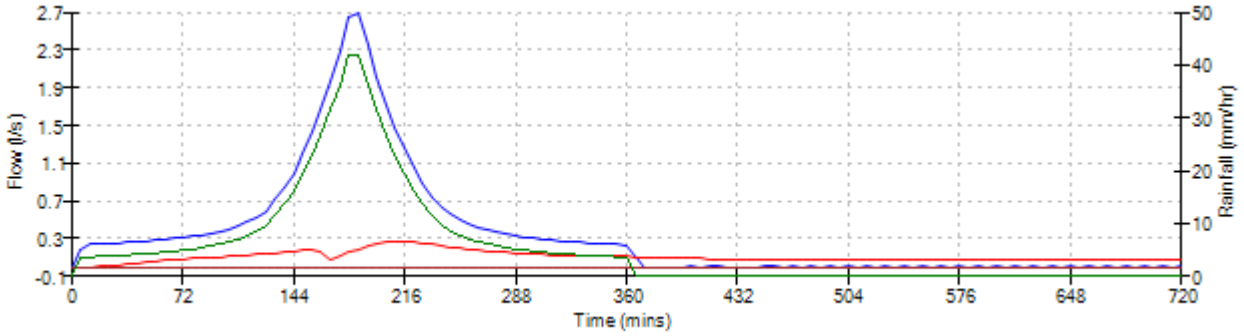
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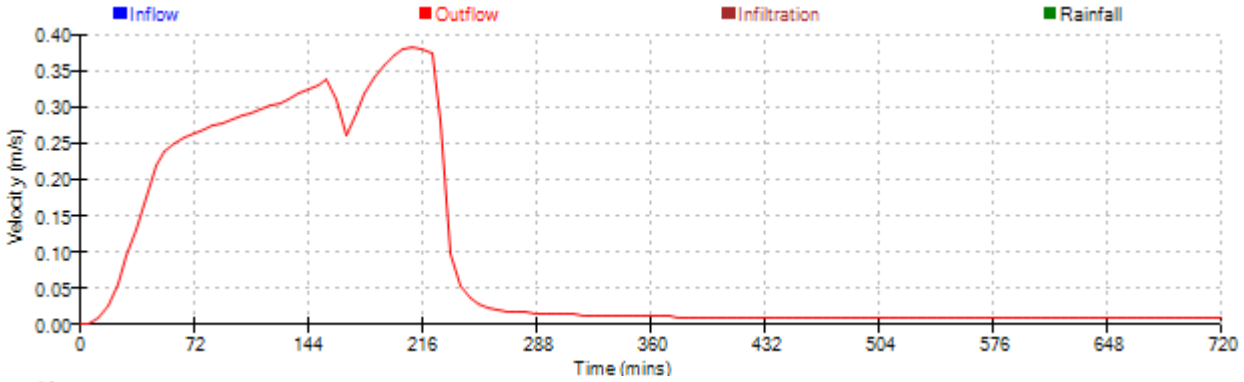
Graphs for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Status: SURCHARGED

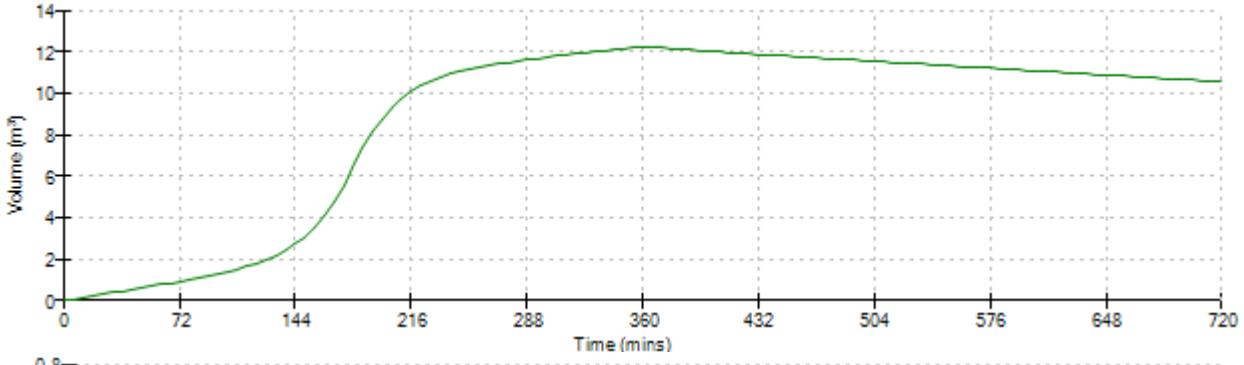


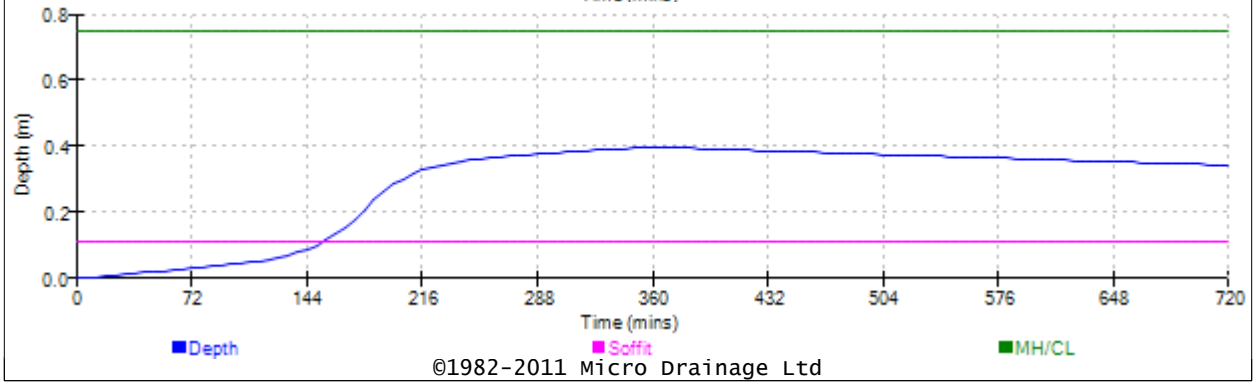
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Graphs for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Status: SURCHARGED



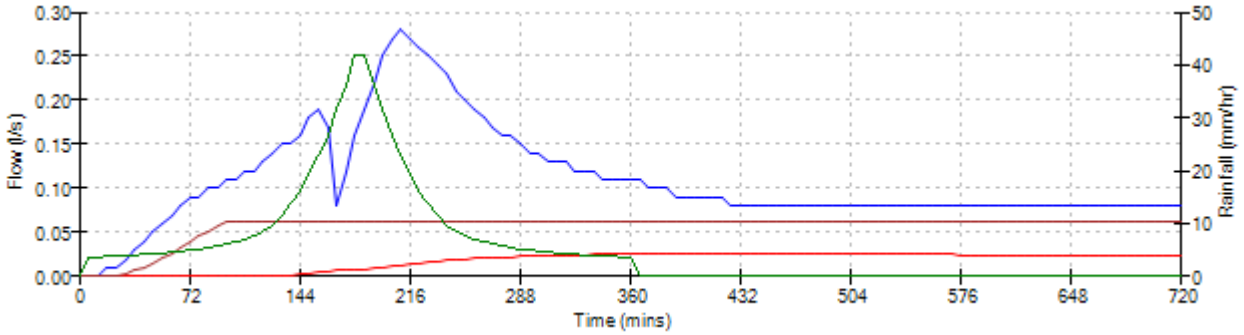


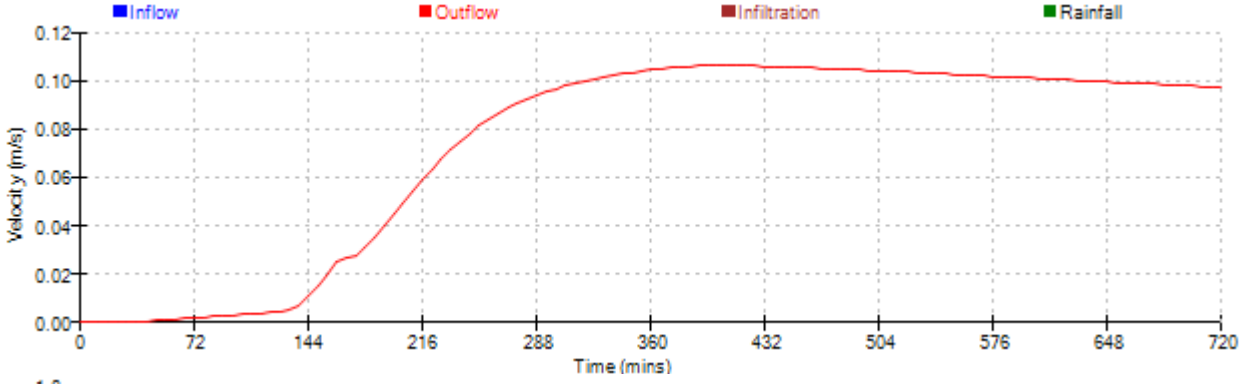


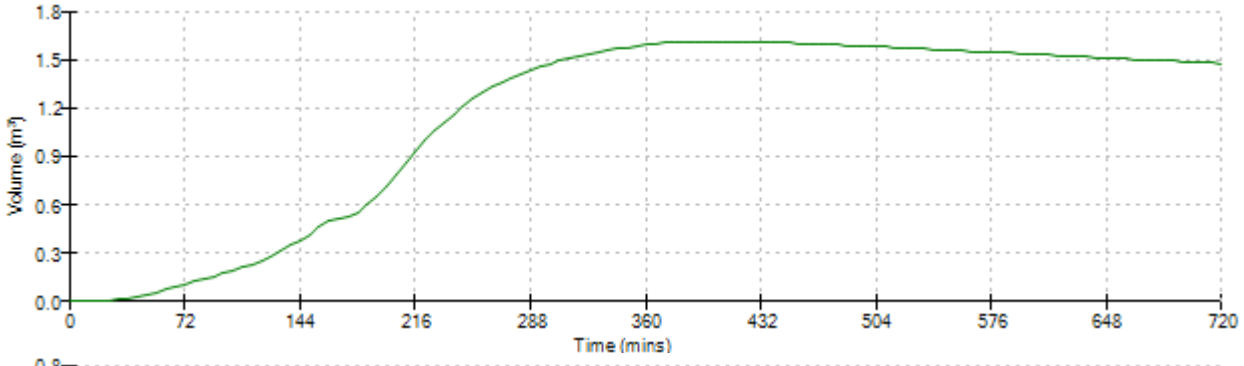


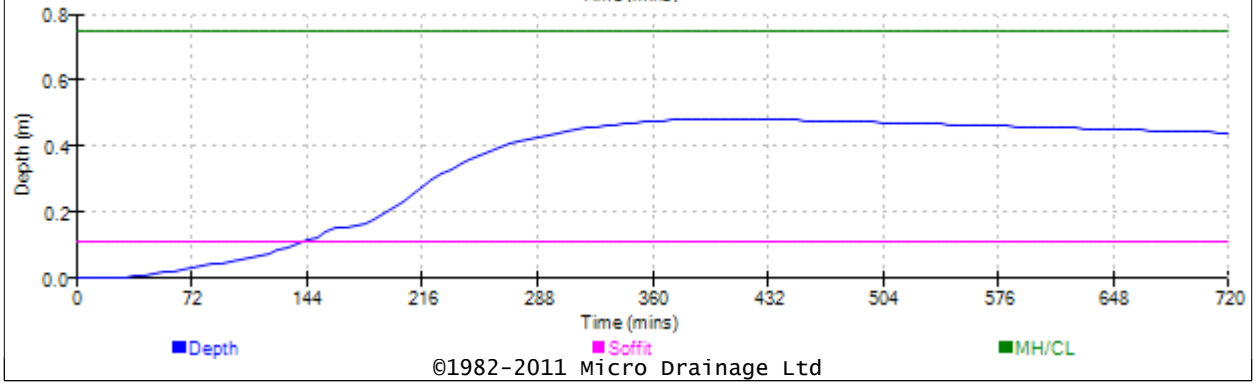
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.401	63.503	-0.109	0.0	0.2	0.1
12	65.401	63.503	-0.109	0.0	0.2	0.1
18	65.401	63.504	-0.109	0.0	0.3	0.1
24	65.401	63.504	-0.109	0.0	0.3	0.1
30	65.401	63.504	-0.109	0.0	0.3	0.1
36	65.401	63.504	-0.109	0.0	0.3	0.1
42	65.401	63.504	-0.109	0.0	0.3	0.1
48	65.401	63.505	-0.109	0.0	0.3	0.1
54	65.401	63.505	-0.109	0.0	0.3	0.1
60	65.402	63.505	-0.108	0.0	0.3	0.1
66	65.402	63.505	-0.108	0.0	0.3	0.1
72	65.402	63.506	-0.108	0.0	0.3	0.1
78	65.402	63.506	-0.108	0.0	0.3	0.1
84	65.402	63.506	-0.108	0.0	0.4	0.1
90	65.402	63.506	-0.108	0.0	0.4	0.1
96	65.402	63.506	-0.108	0.0	0.4	0.1
102	65.402	63.507	-0.108	0.0	0.4	0.1
108	65.402	63.507	-0.108	0.0	0.5	0.1
114	65.403	63.508	-0.107	0.0	0.5	0.1
120	65.403	63.508	-0.107	0.0	0.6	0.1
126	65.403	63.509	-0.107	0.0	0.6	0.2
132	65.404	63.511	-0.106	0.0	0.8	0.2
138	65.404	63.512	-0.106	0.0	0.9	0.2
144	65.405	63.514	-0.105	0.0	1.1	0.3
150	65.406	63.517	-0.104	0.0	1.3	0.3
156	65.408	63.518	-0.102	0.0	1.3	0.4
162	65.409	63.520	-0.101	0.0	1.2	0.4
168	65.410	63.522	-0.100	0.0	1.1	0.5
174	65.411	63.525	-0.099	0.0	1.1	0.6
180	65.412	63.527	-0.098	0.0	1.2	0.7
186	65.412	63.527	-0.098	0.0	1.2	0.7
192	65.411	63.530	-0.099	0.0	1.1	0.6
198	65.410	63.545	-0.100	0.0	1.1	0.5
204	65.409	63.560	-0.101	0.0	1.2	0.4
210	65.408	63.573	-0.102	0.0	1.3	0.4
216	65.406	63.584	-0.104	0.0	1.3	0.3
222	65.405	63.592	-0.105	0.0	1.1	0.3
228	65.404	63.599	-0.106	0.0	0.9	0.2
234	65.404	63.604	-0.106	0.0	0.8	0.2
240	65.403	63.608	-0.107	0.0	0.6	0.2
246	65.403	63.612	-0.107	0.0	0.6	0.1
252	65.403	63.615	-0.107	0.0	0.5	0.1
258	65.402	63.618	-0.108	0.0	0.5	0.1
264	65.402	63.620	-0.108	0.0	0.4	0.1
270	65.402	63.623	-0.108	0.0	0.4	0.1
276	65.402	63.625	-0.108	0.0	0.4	0.1
282	65.402	63.627	-0.108	0.0	0.4	0.1
288	65.402	63.629	-0.108	0.0	0.3	0.1
294	65.402	63.631	-0.108	0.0	0.3	0.1
300	65.402	63.633	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.401	63.635	-0.109	0.0	0.3	0.1
312	65.401	63.636	-0.109	0.0	0.3	0.1
318	65.401	63.638	-0.109	0.0	0.3	0.1
324	65.401	63.640	-0.109	0.0	0.3	0.1
330	65.401	63.641	-0.109	0.0	0.3	0.1
336	65.401	63.642	-0.109	0.0	0.3	0.1
342	65.401	63.644	-0.109	0.0	0.3	0.1
348	65.401	63.645	-0.109	0.0	0.3	0.1
354	65.401	63.647	-0.109	0.0	0.2	0.1
360	65.401	63.648	-0.109	0.0	0.2	0.1
366	65.400	63.647	-0.110	0.0	0.0	0.0
372	65.400	63.646	-0.110	0.0	0.0	0.0
378	65.400	63.645	-0.110	0.0	0.0	0.0
384	65.400	63.643	-0.110	0.0	0.0	0.0
390	65.400	63.642	-0.110	0.0	0.0	0.0
396	65.400	63.642	-0.110	0.0	0.0	0.0
402	65.400	63.640	-0.110	0.0	0.0	0.0
408	65.400	63.640	-0.110	0.0	0.0	0.0
414	65.400	63.639	-0.110	0.0	0.0	0.0
420	65.400	63.637	-0.110	0.0	0.0	0.0
426	65.400	63.637	-0.110	0.0	0.0	0.0
432	65.400	63.635	-0.110	0.0	0.0	0.0
438	65.400	63.634	-0.110	0.0	0.0	0.0
444	65.400	63.633	-0.110	0.0	0.0	0.0
450	65.400	63.633	-0.110	0.0	0.0	0.0
456	65.400	63.632	-0.110	0.0	0.0	0.0
462	65.400	63.631	-0.110	0.0	0.0	0.0
468	65.400	63.630	-0.110	0.0	0.0	0.0
474	65.400	63.629	-0.110	0.0	0.0	0.0
480	65.400	63.628	-0.110	0.0	0.0	0.0
486	65.400	63.627	-0.110	0.0	0.0	0.0
492	65.400	63.627	-0.110	0.0	0.0	0.0
498	65.400	63.626	-0.110	0.0	0.0	0.0
504	65.400	63.625	-0.110	0.0	0.0	0.0
510	65.400	63.624	-0.110	0.0	0.0	0.0
516	65.400	63.623	-0.110	0.0	0.0	0.0
522	65.400	63.622	-0.110	0.0	0.0	0.0
528	65.400	63.621	-0.110	0.0	0.0	0.0
534	65.400	63.620	-0.110	0.0	0.0	0.0
540	65.400	63.619	-0.110	0.0	0.0	0.0
546	65.400	63.619	-0.110	0.0	0.0	0.0
552	65.400	63.617	-0.110	0.0	0.0	0.0
558	65.400	63.617	-0.110	0.0	0.0	0.0
564	65.400	63.616	-0.110	0.0	0.0	0.0
570	65.400	63.615	-0.110	0.0	0.0	0.0
576	65.400	63.614	-0.110	0.0	0.0	0.0
582	65.400	63.613	-0.110	0.0	0.0	0.0
588	65.400	63.612	-0.110	0.0	0.0	0.0
594	65.400	63.611	-0.110	0.0	0.0	0.0
600	65.400	63.610	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	63.610	-0.110	0.0	0.0	0.0
612	65.400	63.608	-0.110	0.0	0.0	0.0
618	65.400	63.608	-0.110	0.0	0.0	0.0
624	65.400	63.607	-0.110	0.0	0.0	0.0
630	65.400	63.606	-0.110	0.0	0.0	0.0
636	65.400	63.605	-0.110	0.0	0.0	0.0
642	65.400	63.604	-0.110	0.0	0.0	0.0
648	65.400	63.603	-0.110	0.0	0.0	0.0
654	65.400	63.602	-0.110	0.0	0.0	0.0
660	65.400	63.602	-0.110	0.0	0.0	0.0
666	65.400	63.600	-0.110	0.0	0.0	0.0
672	65.400	63.599	-0.110	0.0	0.0	0.0
678	65.400	63.598	-0.110	0.0	0.0	0.0
684	65.400	63.598	-0.110	0.0	0.0	0.0
690	65.400	63.597	-0.110	0.0	0.0	0.0
696	65.400	63.596	-0.110	0.0	0.0	0.0
702	65.400	63.595	-0.110	0.0	0.0	0.0
708	65.400	63.594	-0.110	0.0	0.0	0.0
714	65.400	63.593	-0.110	0.0	0.0	0.0
720	65.400	63.592	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.503	63.457	-0.101	0.0	0.3	0.1
12	63.503	63.457	-0.101	0.0	0.3	0.1
18	63.504	63.457	-0.101	0.0	0.3	0.1
24	63.504	63.457	-0.100	0.0	0.3	0.1
30	63.504	63.457	-0.100	0.0	0.3	0.1
36	63.504	63.458	-0.100	0.0	0.3	0.1
42	63.504	63.458	-0.100	0.0	0.3	0.1
48	63.505	63.458	-0.099	0.0	0.3	0.1
54	63.505	63.458	-0.099	0.0	0.3	0.1
60	63.505	63.458	-0.099	0.0	0.3	0.1
66	63.505	63.459	-0.099	0.0	0.3	0.2
72	63.506	63.459	-0.099	0.0	0.3	0.2
78	63.506	63.459	-0.098	0.0	0.3	0.2
84	63.506	63.460	-0.098	0.0	0.3	0.2
90	63.506	63.460	-0.098	0.0	0.3	0.2
96	63.506	63.461	-0.098	0.0	0.3	0.2
102	63.507	63.461	-0.097	0.0	0.3	0.2
108	63.507	63.462	-0.097	0.0	0.4	0.2
114	63.508	63.463	-0.096	0.0	0.4	0.2
120	63.508	63.464	-0.096	0.0	0.4	0.3
126	63.509	63.466	-0.095	0.0	0.4	0.3
132	63.511	63.468	-0.093	0.0	0.4	0.4
138	63.512	63.470	-0.092	0.0	0.4	0.4
144	63.514	63.472	-0.090	0.0	0.4	0.5
150	63.517	63.475	-0.087	0.0	0.4	0.6
156	63.518	63.478	-0.086	0.0	0.5	0.7
162	63.520	63.481	-0.084	0.0	0.5	0.9
168	63.522	63.484	-0.082	0.0	0.5	1.0
174	63.525	63.487	-0.079	0.0	0.5	1.2
180	63.527	63.491	-0.077	0.0	0.6	1.3
186	63.527	63.497	-0.077	0.0	0.6	1.3
192	63.530	63.521	-0.074	0.0	0.5	1.2
198	63.545	63.541	-0.059	0.0	0.3	1.0
204	63.560	63.557	-0.044	0.0	0.2	0.8
210	63.573	63.570	-0.031	0.0	0.1	0.7
216	63.584	63.581	-0.020	0.0	0.1	0.6
222	63.592	63.590	-0.012	0.0	0.1	0.5
228	63.599	63.597	-0.005	0.0	0.0	0.4
234	63.604	63.602	0.000	0.0	0.0	0.4
240	63.608	63.607	0.004	0.0	0.0	0.3
246	63.612	63.611	0.008	0.0	0.0	0.3
252	63.615	63.614	0.011	0.0	0.0	0.2
258	63.618	63.617	0.014	0.0	0.0	0.2
264	63.620	63.619	0.016	0.0	0.0	0.2
270	63.623	63.622	0.019	0.0	0.0	0.2
276	63.625	63.624	0.021	0.0	0.0	0.2
282	63.627	63.626	0.023	0.0	0.0	0.2
288	63.629	63.628	0.025	0.0	0.0	0.2
294	63.631	63.630	0.027	0.0	0.0	0.2
300	63.633	63.632	0.029	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.635	63.634	0.030	0.0	0.0	0.1
312	63.636	63.636	0.032	0.0	0.0	0.1
318	63.638	63.637	0.034	0.0	0.0	0.1
324	63.640	63.639	0.035	0.0	0.0	0.1
330	63.641	63.640	0.037	0.0	0.0	0.1
336	63.642	63.642	0.038	0.0	0.0	0.1
342	63.644	63.643	0.040	0.0	0.0	0.1
348	63.645	63.645	0.041	0.0	0.0	0.1
354	63.647	63.646	0.043	0.0	0.0	0.1
360	63.648	63.648	0.044	0.0	0.0	0.1
366	63.647	63.647	0.043	0.0	0.0	0.0
372	63.646	63.646	0.042	0.0	0.0	0.0
378	63.645	63.645	0.040	0.0	0.0	0.0
384	63.643	63.644	0.039	0.0	0.0	0.0
390	63.642	63.643	0.038	0.0	0.0	0.0
396	63.642	63.642	0.038	0.0	0.0	0.0
402	63.640	63.641	0.036	0.0	0.0	0.0
408	63.640	63.640	0.036	0.0	0.0	0.0
414	63.639	63.639	0.034	0.0	0.0	0.0
420	63.637	63.637	0.033	0.0	0.0	0.0
426	63.637	63.637	0.033	0.0	0.0	0.0
432	63.635	63.635	0.031	0.0	0.0	0.0
438	63.634	63.634	0.030	0.0	0.0	0.0
444	63.633	63.634	0.029	0.0	0.0	0.0
450	63.633	63.633	0.029	0.0	0.0	0.0
456	63.632	63.632	0.028	0.0	0.0	0.0
462	63.631	63.631	0.027	0.0	0.0	0.0
468	63.630	63.631	0.026	0.0	0.0	0.0
474	63.629	63.629	0.025	0.0	0.0	0.0
480	63.628	63.629	0.024	0.0	0.0	0.0
486	63.627	63.628	0.023	0.0	0.0	0.0
492	63.627	63.627	0.022	0.0	0.0	0.0
498	63.626	63.626	0.022	0.0	0.0	0.0
504	63.625	63.625	0.021	0.0	0.0	0.0
510	63.624	63.624	0.020	0.0	0.0	0.0
516	63.623	63.623	0.019	0.0	0.0	0.0
522	63.622	63.622	0.018	0.0	0.0	0.0
528	63.621	63.621	0.017	0.0	0.0	0.0
534	63.620	63.621	0.016	0.0	0.0	0.0
540	63.619	63.620	0.015	0.0	0.0	0.0
546	63.619	63.619	0.015	0.0	0.0	0.0
552	63.617	63.618	0.013	0.0	0.0	0.0
558	63.617	63.616	0.012	0.0	0.0	0.0
564	63.616	63.616	0.012	0.0	0.0	0.0
570	63.615	63.615	0.011	0.0	0.0	0.0
576	63.614	63.614	0.010	0.0	0.0	0.0
582	63.613	63.613	0.009	0.0	0.0	0.0
588	63.612	63.612	0.008	0.0	0.0	0.0
594	63.611	63.611	0.006	0.0	0.0	0.0
600	63.610	63.610	0.006	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.610	0.006	0.0	0.0	0.0
612	63.608	63.609	0.004	0.0	0.0	0.0
618	63.608	63.608	0.004	0.0	0.0	0.0
624	63.607	63.607	0.003	0.0	0.0	0.0
630	63.606	63.606	0.002	0.0	0.0	0.0
636	63.605	63.605	0.001	0.0	0.0	0.0
642	63.604	63.604	0.000	0.0	0.0	0.0
648	63.603	63.603	-0.001	0.0	0.0	0.0
654	63.602	63.603	-0.002	0.0	0.0	0.0
660	63.602	63.601	-0.003	0.0	0.0	0.0
666	63.600	63.600	-0.004	0.0	0.0	0.0
672	63.599	63.600	-0.005	0.0	0.0	0.0
678	63.598	63.599	-0.006	0.0	0.0	0.0
684	63.598	63.598	-0.006	0.0	0.0	0.0
690	63.597	63.597	-0.007	0.0	0.0	0.0
696	63.596	63.596	-0.008	0.0	0.0	0.0
702	63.595	63.595	-0.009	0.0	0.0	0.0
708	63.594	63.594	-0.010	0.0	0.0	0.0
714	63.593	63.593	-0.011	0.0	0.0	0.0
720	63.592	63.592	-0.012	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.401	65.002	-0.109	0.0	0.2	0.1
12	65.401	65.002	-0.109	0.0	0.2	0.1
18	65.402	65.002	-0.108	0.0	0.3	0.1
24	65.402	65.002	-0.108	0.0	0.3	0.1
30	65.402	65.002	-0.108	0.0	0.3	0.1
36	65.402	65.002	-0.108	0.0	0.3	0.1
42	65.402	65.002	-0.108	0.0	0.3	0.1
48	65.402	65.002	-0.108	0.0	0.3	0.1
54	65.402	65.002	-0.108	0.0	0.3	0.1
60	65.402	65.003	-0.108	0.0	0.3	0.1
66	65.402	65.003	-0.108	0.0	0.3	0.1
72	65.402	65.003	-0.108	0.0	0.3	0.1
78	65.402	65.003	-0.108	0.0	0.3	0.1
84	65.402	65.003	-0.108	0.0	0.4	0.1
90	65.402	65.003	-0.108	0.0	0.4	0.1
96	65.402	65.003	-0.108	0.0	0.4	0.1
102	65.403	65.004	-0.107	0.0	0.4	0.1
108	65.403	65.004	-0.107	0.0	0.5	0.1
114	65.403	65.004	-0.107	0.0	0.5	0.1
120	65.404	65.005	-0.106	0.0	0.6	0.1
126	65.404	65.006	-0.106	0.0	0.6	0.2
132	65.405	65.007	-0.105	0.0	0.8	0.2
138	65.406	65.008	-0.104	0.0	0.9	0.2
144	65.407	65.009	-0.103	0.0	1.1	0.3
150	65.408	65.011	-0.102	0.0	1.0	0.3
156	65.409	65.012	-0.101	0.0	1.0	0.4
162	65.411	65.012	-0.099	0.0	0.9	0.4
168	65.412	65.013	-0.098	0.0	1.0	0.5
174	65.412	65.014	-0.098	0.0	1.0	0.6
180	65.413	65.015	-0.097	0.0	1.1	0.7
186	65.413	65.015	-0.097	0.0	1.1	0.7
192	65.412	65.014	-0.098	0.0	1.0	0.6
198	65.412	65.013	-0.098	0.0	1.0	0.5
204	65.411	65.012	-0.099	0.0	0.9	0.4
210	65.409	65.012	-0.101	0.0	1.0	0.4
216	65.408	65.011	-0.102	0.0	1.0	0.3
222	65.407	65.009	-0.103	0.0	1.1	0.3
228	65.406	65.008	-0.104	0.0	0.9	0.2
234	65.405	65.007	-0.105	0.0	0.8	0.2
240	65.404	65.006	-0.106	0.0	0.6	0.2
246	65.403	65.005	-0.107	0.0	0.6	0.1
252	65.403	65.004	-0.107	0.0	0.5	0.1
258	65.403	65.004	-0.107	0.0	0.5	0.1
264	65.403	65.004	-0.107	0.0	0.4	0.1
270	65.402	65.003	-0.108	0.0	0.4	0.1
276	65.402	65.003	-0.108	0.0	0.4	0.1
282	65.402	65.003	-0.108	0.0	0.4	0.1
288	65.402	65.003	-0.108	0.0	0.3	0.1
294	65.402	65.003	-0.108	0.0	0.3	0.1
300	65.402	65.003	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.402	65.003	-0.108	0.0	0.3	0.1
312	65.402	65.002	-0.108	0.0	0.3	0.1
318	65.402	65.002	-0.108	0.0	0.3	0.1
324	65.402	65.002	-0.108	0.0	0.3	0.1
330	65.402	65.002	-0.108	0.0	0.3	0.1
336	65.402	65.002	-0.108	0.0	0.3	0.1
342	65.402	65.002	-0.108	0.0	0.3	0.1
348	65.402	65.002	-0.108	0.0	0.3	0.1
354	65.401	65.002	-0.109	0.0	0.2	0.1
360	65.401	65.002	-0.109	0.0	0.2	0.1
366	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
378	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
390	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
402	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
414	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
426	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
438	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
450	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
462	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
474	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
486	65.400	65.000	-0.110	0.0	0.0	0.0
492	65.400	65.000	-0.110	0.0	0.0	0.0
498	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
510	65.400	65.000	-0.110	0.0	0.0	0.0
516	65.400	65.000	-0.110	0.0	0.0	0.0
522	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
534	65.400	65.000	-0.110	0.0	0.0	0.0
540	65.400	65.000	-0.110	0.0	0.0	0.0
546	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
558	65.400	65.000	-0.110	0.0	0.0	0.0
564	65.400	65.000	-0.110	0.0	0.0	0.0
570	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
582	65.400	65.000	-0.110	0.0	0.0	0.0
588	65.400	65.000	-0.110	0.0	0.0	0.0
594	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	65.000	-0.110	0.0	0.0	0.0
612	65.400	65.000	-0.110	0.0	0.0	0.0
618	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
636	65.400	65.000	-0.110	0.0	0.0	0.0
642	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
654	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
666	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
678	65.400	65.000	-0.110	0.0	0.0	0.0
684	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
702	65.400	65.000	-0.110	0.0	0.0	0.0
708	65.400	65.000	-0.110	0.0	0.0	0.0
714	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.002	63.457	-0.108	0.0	0.5	0.1
12	65.002	63.457	-0.108	0.0	0.5	0.1
18	65.002	63.457	-0.108	0.0	0.5	0.1
24	65.002	63.457	-0.108	0.0	0.5	0.1
30	65.002	63.457	-0.108	0.0	0.5	0.1
36	65.002	63.458	-0.108	0.0	0.5	0.1
42	65.002	63.458	-0.108	0.0	0.5	0.1
48	65.002	63.458	-0.108	0.0	0.6	0.1
54	65.002	63.458	-0.108	0.0	0.6	0.1
60	65.003	63.458	-0.107	0.0	0.6	0.1
66	65.003	63.459	-0.107	0.0	0.6	0.2
72	65.003	63.459	-0.107	0.0	0.7	0.2
78	65.003	63.459	-0.107	0.0	0.7	0.2
84	65.003	63.460	-0.107	0.0	0.7	0.2
90	65.003	63.460	-0.107	0.0	0.8	0.2
96	65.003	63.461	-0.107	0.0	0.8	0.2
102	65.004	63.461	-0.106	0.0	0.9	0.2
108	65.004	63.462	-0.106	0.0	0.9	0.2
114	65.004	63.463	-0.106	0.0	1.0	0.2
120	65.005	63.464	-0.105	0.0	1.1	0.3
126	65.006	63.466	-0.104	0.0	1.3	0.3
132	65.007	63.468	-0.103	0.0	1.5	0.4
138	65.008	63.470	-0.102	0.0	1.5	0.4
144	65.009	63.472	-0.101	0.0	1.4	0.5
150	65.011	63.475	-0.099	0.0	1.3	0.6
156	65.012	63.478	-0.098	0.0	1.4	0.7
162	65.012	63.481	-0.098	0.0	1.5	0.9
168	65.013	63.484	-0.097	0.0	1.6	1.0
174	65.014	63.487	-0.096	0.0	1.7	1.2
180	65.015	63.491	-0.095	0.0	1.7	1.3
186	65.015	63.497	-0.095	0.0	1.7	1.3
192	65.014	63.521	-0.096	0.0	1.7	1.2
198	65.013	63.541	-0.097	0.0	1.6	1.0
204	65.012	63.557	-0.098	0.0	1.5	0.9
210	65.012	63.570	-0.098	0.0	1.4	0.7
216	65.011	63.581	-0.099	0.0	1.3	0.6
222	65.009	63.590	-0.101	0.0	1.4	0.5
228	65.008	63.597	-0.102	0.0	1.5	0.4
234	65.007	63.602	-0.103	0.0	1.5	0.4
240	65.006	63.607	-0.104	0.0	1.3	0.3
246	65.005	63.611	-0.105	0.0	1.2	0.3
252	65.004	63.614	-0.106	0.0	1.0	0.2
258	65.004	63.617	-0.106	0.0	0.9	0.2
264	65.004	63.619	-0.106	0.0	0.9	0.2
270	65.003	63.622	-0.107	0.0	0.8	0.2
276	65.003	63.624	-0.107	0.0	0.8	0.2
282	65.003	63.626	-0.107	0.0	0.7	0.2
288	65.003	63.628	-0.107	0.0	0.7	0.2
294	65.003	63.630	-0.107	0.0	0.7	0.2
300	65.003	63.632	-0.107	0.0	0.6	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.003	63.634	-0.107	0.0	0.6	0.1
312	65.002	63.636	-0.108	0.0	0.6	0.1
318	65.002	63.637	-0.108	0.0	0.6	0.1
324	65.002	63.639	-0.108	0.0	0.6	0.1
330	65.002	63.640	-0.108	0.0	0.5	0.1
336	65.002	63.642	-0.108	0.0	0.5	0.1
342	65.002	63.643	-0.108	0.0	0.5	0.1
348	65.002	63.645	-0.108	0.0	0.5	0.1
354	65.002	63.646	-0.108	0.0	0.5	0.1
360	65.002	63.648	-0.108	0.0	0.5	0.1
366	65.000	63.647	-0.110	0.0	0.0	0.0
372	65.000	63.646	-0.110	0.0	0.0	0.0
378	65.000	63.645	-0.110	0.0	0.0	0.0
384	65.000	63.644	-0.110	0.0	0.0	0.0
390	65.000	63.643	-0.110	0.0	0.0	0.0
396	65.000	63.642	-0.110	0.0	0.0	0.0
402	65.000	63.641	-0.110	0.0	0.0	0.0
408	65.000	63.640	-0.110	0.0	0.0	0.0
414	65.000	63.639	-0.110	0.0	0.0	0.0
420	65.000	63.637	-0.110	0.0	0.0	0.0
426	65.000	63.637	-0.110	0.0	0.0	0.0
432	65.000	63.635	-0.110	0.0	0.0	0.0
438	65.000	63.634	-0.110	0.0	0.0	0.0
444	65.000	63.634	-0.110	0.0	0.0	0.0
450	65.000	63.633	-0.110	0.0	0.0	0.0
456	65.000	63.632	-0.110	0.0	0.0	0.0
462	65.000	63.631	-0.110	0.0	0.0	0.0
468	65.000	63.631	-0.110	0.0	0.0	0.0
474	65.000	63.629	-0.110	0.0	0.0	0.0
480	65.000	63.629	-0.110	0.0	0.0	0.0
486	65.000	63.628	-0.110	0.0	0.0	0.0
492	65.000	63.627	-0.110	0.0	0.0	0.0
498	65.000	63.626	-0.110	0.0	0.0	0.0
504	65.000	63.625	-0.110	0.0	0.0	0.0
510	65.000	63.624	-0.110	0.0	0.0	0.0
516	65.000	63.623	-0.110	0.0	0.0	0.0
522	65.000	63.622	-0.110	0.0	0.0	0.0
528	65.000	63.621	-0.110	0.0	0.0	0.0
534	65.000	63.621	-0.110	0.0	0.0	0.0
540	65.000	63.620	-0.110	0.0	0.0	0.0
546	65.000	63.619	-0.110	0.0	0.0	0.0
552	65.000	63.618	-0.110	0.0	0.0	0.0
558	65.000	63.616	-0.110	0.0	0.0	0.0
564	65.000	63.616	-0.110	0.0	0.0	0.0
570	65.000	63.615	-0.110	0.0	0.0	0.0
576	65.000	63.614	-0.110	0.0	0.0	0.0
582	65.000	63.613	-0.110	0.0	0.0	0.0
588	65.000	63.612	-0.110	0.0	0.0	0.0
594	65.000	63.611	-0.110	0.0	0.0	0.0
600	65.000	63.610	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.000	63.610	-0.110	0.0	0.0	0.0
612	65.000	63.609	-0.110	0.0	0.0	0.0
618	65.000	63.608	-0.110	0.0	0.0	0.0
624	65.000	63.607	-0.110	0.0	0.0	0.0
630	65.000	63.606	-0.110	0.0	0.0	0.0
636	65.000	63.605	-0.110	0.0	0.0	0.0
642	65.000	63.604	-0.110	0.0	0.0	0.0
648	65.000	63.603	-0.110	0.0	0.0	0.0
654	65.000	63.603	-0.110	0.0	0.0	0.0
660	65.000	63.601	-0.110	0.0	0.0	0.0
666	65.000	63.600	-0.110	0.0	0.0	0.0
672	65.000	63.600	-0.110	0.0	0.0	0.0
678	65.000	63.599	-0.110	0.0	0.0	0.0
684	65.000	63.598	-0.110	0.0	0.0	0.0
690	65.000	63.597	-0.110	0.0	0.0	0.0
696	65.000	63.596	-0.110	0.0	0.0	0.0
702	65.000	63.595	-0.110	0.0	0.0	0.0
708	65.000	63.594	-0.110	0.0	0.0	0.0
714	65.000	63.593	-0.110	0.0	0.0	0.0
720	65.000	63.592	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.457	63.252	-0.097	0.0	0.3	0.2
12	63.457	63.255	-0.097	0.0	0.4	0.2
18	63.457	63.257	-0.097	0.0	0.4	0.2
24	63.457	63.260	-0.097	0.0	0.4	0.2
30	63.457	63.262	-0.097	0.0	0.4	0.3
36	63.458	63.265	-0.096	0.0	0.4	0.3
42	63.458	63.268	-0.096	0.0	0.4	0.3
48	63.458	63.270	-0.096	0.0	0.4	0.3
54	63.458	63.273	-0.096	0.0	0.4	0.3
60	63.458	63.275	-0.096	0.0	0.4	0.3
66	63.459	63.278	-0.095	0.0	0.4	0.3
72	63.459	63.280	-0.095	0.0	0.4	0.3
78	63.459	63.283	-0.095	0.0	0.4	0.3
84	63.460	63.286	-0.094	0.0	0.4	0.3
90	63.460	63.289	-0.094	0.0	0.4	0.4
96	63.461	63.292	-0.094	0.0	0.4	0.4
102	63.461	63.295	-0.093	0.0	0.4	0.4
108	63.462	63.299	-0.092	0.0	0.4	0.4
114	63.463	63.303	-0.091	0.0	0.5	0.5
120	63.464	63.308	-0.090	0.0	0.5	0.5
126	63.466	63.313	-0.088	0.0	0.5	0.6
132	63.468	63.321	-0.087	0.0	0.5	0.7
138	63.470	63.329	-0.085	0.0	0.5	0.9
144	63.472	63.338	-0.082	0.0	0.5	1.0
150	63.475	63.350	-0.079	0.0	0.6	1.2
156	63.478	63.365	-0.076	0.0	0.6	1.4
162	63.481	63.384	-0.074	0.0	0.6	1.7
168	63.484	63.406	-0.070	0.0	0.7	2.0
174	63.487	63.431	-0.067	0.0	0.7	2.3
180	63.491	63.460	-0.063	0.0	0.7	2.7
186	63.497	63.489	-0.057	0.0	0.7	2.7
192	63.521	63.514	-0.033	0.0	0.4	2.3
198	63.541	63.534	-0.013	0.0	0.2	2.0
204	63.557	63.551	0.003	0.0	0.2	1.7
210	63.570	63.566	0.016	0.0	0.2	1.5
216	63.581	63.577	0.027	0.0	0.1	1.2
222	63.590	63.587	0.036	0.0	0.1	1.0
228	63.597	63.594	0.043	0.0	0.1	0.9
234	63.602	63.600	0.048	0.0	0.1	0.7
240	63.607	63.605	0.053	0.0	0.1	0.6
246	63.611	63.609	0.056	0.0	0.1	0.6
252	63.614	63.612	0.060	0.0	0.1	0.5
258	63.617	63.615	0.063	0.0	0.0	0.4
264	63.619	63.618	0.065	0.0	0.0	0.4
270	63.622	63.621	0.068	0.0	0.0	0.4
276	63.624	63.623	0.070	0.0	0.0	0.4
282	63.626	63.625	0.072	0.0	0.0	0.3
288	63.628	63.627	0.074	0.0	0.0	0.3
294	63.630	63.629	0.076	0.0	0.0	0.3
300	63.632	63.631	0.078	0.0	0.0	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.634	63.633	0.080	0.0	0.0	0.3
312	63.636	63.635	0.082	0.0	0.0	0.3
318	63.637	63.636	0.083	0.0	0.0	0.3
324	63.639	63.638	0.085	0.0	0.0	0.3
330	63.640	63.639	0.086	0.0	0.0	0.3
336	63.642	63.641	0.088	0.0	0.0	0.3
342	63.643	63.643	0.089	0.0	0.0	0.2
348	63.645	63.644	0.091	0.0	0.0	0.2
354	63.646	63.646	0.092	0.0	0.0	0.2
360	63.648	63.647	0.094	0.0	0.0	0.2
366	63.647	63.647	0.093	0.0	0.0	0.1
372	63.646	63.646	0.092	0.0	0.0	0.0
378	63.645	63.645	0.091	0.0	0.0	0.0
384	63.644	63.644	0.090	0.0	0.0	0.0
390	63.643	63.643	0.089	0.0	0.0	0.0
396	63.642	63.642	0.087	0.0	0.0	0.0
402	63.641	63.641	0.086	0.0	0.0	0.0
408	63.640	63.640	0.086	0.0	0.0	0.0
414	63.639	63.639	0.084	0.0	0.0	0.0
420	63.637	63.638	0.083	0.0	0.0	0.0
426	63.637	63.637	0.083	0.0	0.0	0.0
432	63.635	63.636	0.081	0.0	0.0	0.0
438	63.634	63.635	0.080	0.0	0.0	0.0
444	63.634	63.634	0.080	0.0	0.0	0.0
450	63.633	63.633	0.079	0.0	0.0	0.0
456	63.632	63.633	0.078	0.0	0.0	0.0
462	63.631	63.632	0.077	0.0	0.0	0.0
468	63.631	63.631	0.077	0.0	0.0	0.0
474	63.629	63.630	0.075	0.0	0.0	0.0
480	63.629	63.629	0.075	0.0	0.0	0.0
486	63.628	63.628	0.073	0.0	0.0	0.0
492	63.627	63.627	0.073	0.0	0.0	0.0
498	63.626	63.626	0.072	0.0	0.0	0.0
504	63.625	63.625	0.071	0.0	0.0	0.0
510	63.624	63.624	0.070	0.0	0.0	0.0
516	63.623	63.623	0.069	0.0	0.0	0.0
522	63.622	63.622	0.068	0.0	0.0	0.0
528	63.621	63.622	0.067	0.0	0.0	0.0
534	63.621	63.621	0.067	0.0	0.0	0.0
540	63.620	63.620	0.065	0.0	0.0	0.0
546	63.619	63.619	0.065	0.0	0.0	0.0
552	63.618	63.618	0.064	0.0	0.0	0.0
558	63.616	63.617	0.062	0.0	0.0	0.0
564	63.616	63.616	0.062	0.0	0.0	0.0
570	63.615	63.615	0.061	0.0	0.0	0.0
576	63.614	63.614	0.060	0.0	0.0	0.0
582	63.613	63.613	0.059	0.0	0.0	0.0
588	63.612	63.612	0.058	0.0	0.0	0.0
594	63.611	63.612	0.057	0.0	0.0	0.0
600	63.610	63.611	0.056	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.610	0.056	0.0	0.0	0.0
612	63.609	63.609	0.055	0.0	0.0	0.0
618	63.608	63.608	0.054	0.0	0.0	0.0
624	63.607	63.607	0.053	0.0	0.0	0.0
630	63.606	63.606	0.052	0.0	0.0	0.0
636	63.605	63.605	0.051	0.0	0.0	0.0
642	63.604	63.604	0.050	0.0	0.0	0.0
648	63.603	63.603	0.049	0.0	0.0	0.0
654	63.603	63.603	0.048	0.0	0.0	0.0
660	63.601	63.602	0.047	0.0	0.0	0.0
666	63.600	63.601	0.046	0.0	0.0	0.0
672	63.600	63.600	0.046	0.0	0.0	0.0
678	63.599	63.599	0.044	0.0	0.0	0.0
684	63.598	63.598	0.044	0.0	0.0	0.0
690	63.597	63.597	0.043	0.0	0.0	0.0
696	63.596	63.596	0.042	0.0	0.0	0.0
702	63.595	63.595	0.041	0.0	0.0	0.0
708	63.594	63.594	0.040	0.0	0.0	0.0
714	63.593	63.594	0.039	0.0	0.0	0.0
720	63.592	63.593	0.038	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.252	63.100	-0.108	0.0	0.0	0.0
12	63.255	63.100	-0.105	0.0	0.0	0.0
18	63.257	63.101	-0.103	0.0	0.0	0.0
24	63.260	63.102	-0.100	0.0	0.1	0.0
30	63.262	63.104	-0.098	0.0	0.1	0.0
36	63.265	63.106	-0.095	0.0	0.1	0.0
42	63.268	63.110	-0.092	0.0	0.2	0.0
48	63.270	63.113	-0.090	0.0	0.2	0.1
54	63.273	63.118	-0.087	0.0	0.2	0.1
60	63.275	63.123	-0.085	0.0	0.3	0.1
66	63.278	63.128	-0.082	0.0	0.3	0.1
72	63.280	63.133	-0.080	0.0	0.3	0.1
78	63.283	63.138	-0.077	0.0	0.3	0.1
84	63.286	63.143	-0.074	0.0	0.3	0.1
90	63.289	63.147	-0.071	0.0	0.3	0.1
96	63.292	63.152	-0.068	0.0	0.3	0.1
102	63.295	63.157	-0.065	0.0	0.3	0.1
108	63.299	63.163	-0.061	0.0	0.3	0.1
114	63.303	63.170	-0.057	0.0	0.3	0.1
120	63.308	63.177	-0.052	0.0	0.3	0.1
126	63.313	63.184	-0.047	0.0	0.3	0.1
132	63.321	63.194	-0.039	0.0	0.3	0.1
138	63.329	63.204	-0.031	0.0	0.3	0.2
144	63.338	63.214	-0.022	0.0	0.3	0.2
150	63.350	63.226	-0.010	0.0	0.3	0.2
156	63.365	63.239	0.005	0.0	0.3	0.2
162	63.384	63.251	0.024	0.0	0.3	0.2
168	63.406	63.252	0.046	0.0	0.3	0.1
174	63.431	63.257	0.071	0.0	0.3	0.1
180	63.460	63.266	0.100	0.0	0.3	0.2
186	63.489	63.279	0.129	0.0	0.3	0.2
192	63.514	63.295	0.154	0.0	0.4	0.2
198	63.534	63.314	0.174	0.0	0.4	0.3
204	63.551	63.335	0.191	0.0	0.4	0.3
210	63.566	63.356	0.206	0.0	0.4	0.3
216	63.577	63.377	0.217	0.0	0.4	0.3
222	63.587	63.397	0.227	0.0	0.4	0.3
228	63.594	63.415	0.234	0.0	0.3	0.3
234	63.600	63.432	0.240	0.0	0.1	0.2
240	63.605	63.448	0.245	0.0	0.1	0.2
246	63.609	63.462	0.249	0.0	0.0	0.2
252	63.612	63.475	0.252	0.0	0.0	0.2
258	63.615	63.486	0.255	0.0	0.0	0.2
264	63.618	63.497	0.258	0.0	0.0	0.2
270	63.621	63.506	0.261	0.0	0.0	0.2
276	63.623	63.515	0.263	0.0	0.0	0.2
282	63.625	63.522	0.265	0.0	0.0	0.2
288	63.627	63.529	0.267	0.0	0.0	0.2
294	63.629	63.535	0.269	0.0	0.0	0.1
300	63.631	63.541	0.271	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.633	63.546	0.273	0.0	0.0	0.1
312	63.635	63.551	0.275	0.0	0.0	0.1
318	63.636	63.555	0.276	0.0	0.0	0.1
324	63.638	63.558	0.278	0.0	0.0	0.1
330	63.639	63.561	0.279	0.0	0.0	0.1
336	63.641	63.564	0.281	0.0	0.0	0.1
342	63.643	63.567	0.283	0.0	0.0	0.1
348	63.644	63.570	0.284	0.0	0.0	0.1
354	63.646	63.573	0.286	0.0	0.0	0.1
360	63.647	63.575	0.287	0.0	0.0	0.1
366	63.647	63.577	0.287	0.0	0.0	0.1
372	63.646	63.579	0.286	0.0	0.0	0.1
378	63.645	63.580	0.285	0.0	0.0	0.1
384	63.644	63.581	0.284	0.0	0.0	0.1
390	63.643	63.581	0.283	0.0	0.0	0.1
396	63.642	63.582	0.282	0.0	0.0	0.1
402	63.641	63.582	0.281	0.0	0.0	0.1
408	63.640	63.582	0.280	0.0	0.0	0.1
414	63.639	63.582	0.279	0.0	0.0	0.1
420	63.638	63.581	0.278	0.0	0.0	0.1
426	63.637	63.581	0.277	0.0	0.0	0.1
432	63.636	63.580	0.276	0.0	0.0	0.1
438	63.635	63.580	0.275	0.0	0.0	0.1
444	63.634	63.579	0.274	0.0	0.0	0.1
450	63.633	63.579	0.273	0.0	0.0	0.1
456	63.633	63.578	0.273	0.0	0.0	0.1
462	63.632	63.577	0.272	0.0	0.0	0.1
468	63.631	63.577	0.271	0.0	0.0	0.1
474	63.630	63.576	0.270	0.0	0.0	0.1
480	63.629	63.575	0.269	0.0	0.0	0.1
486	63.628	63.574	0.268	0.0	0.0	0.1
492	63.627	63.573	0.267	0.0	0.0	0.1
498	63.626	63.573	0.266	0.0	0.0	0.1
504	63.625	63.572	0.265	0.0	0.0	0.1
510	63.624	63.571	0.264	0.0	0.0	0.1
516	63.623	63.570	0.263	0.0	0.0	0.1
522	63.622	63.569	0.262	0.0	0.0	0.1
528	63.622	63.568	0.262	0.0	0.0	0.1
534	63.621	63.568	0.261	0.0	0.0	0.1
540	63.620	63.567	0.260	0.0	0.0	0.1
546	63.619	63.566	0.259	0.0	0.0	0.1
552	63.618	63.565	0.258	0.0	0.0	0.1
558	63.617	63.564	0.257	0.0	0.0	0.1
564	63.616	63.563	0.256	0.0	0.0	0.1
570	63.615	63.562	0.255	0.0	0.0	0.1
576	63.614	63.561	0.254	0.0	0.0	0.1
582	63.613	63.561	0.253	0.0	0.0	0.1
588	63.612	63.560	0.252	0.0	0.0	0.1
594	63.612	63.559	0.252	0.0	0.0	0.1
600	63.611	63.558	0.251	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.557	0.250	0.0	0.0	0.1
612	63.609	63.556	0.249	0.0	0.0	0.1
618	63.608	63.555	0.248	0.0	0.0	0.1
624	63.607	63.554	0.247	0.0	0.0	0.1
630	63.606	63.554	0.246	0.0	0.0	0.1
636	63.605	63.553	0.245	0.0	0.0	0.1
642	63.604	63.552	0.244	0.0	0.0	0.1
648	63.603	63.551	0.243	0.0	0.0	0.1
654	63.603	63.550	0.243	0.0	0.0	0.1
660	63.602	63.549	0.242	0.0	0.0	0.1
666	63.601	63.548	0.241	0.0	0.0	0.1
672	63.600	63.547	0.240	0.0	0.0	0.1
678	63.599	63.547	0.239	0.0	0.0	0.1
684	63.598	63.546	0.238	0.0	0.0	0.1
690	63.597	63.545	0.237	0.0	0.0	0.1
696	63.596	63.544	0.236	0.0	0.0	0.1
702	63.595	63.543	0.235	0.0	0.0	0.1
708	63.594	63.542	0.234	0.0	0.0	0.1
714	63.594	63.541	0.234	0.0	0.0	0.1
720	63.593	63.541	0.233	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.101	63.096	-0.109	0.0	0.0	0.0
24	63.102	63.096	-0.108	0.0	0.0	0.0
30	63.104	63.096	-0.106	0.0	0.0	0.0
36	63.106	63.096	-0.104	0.0	0.0	0.0
42	63.110	63.096	-0.100	0.0	0.0	0.0
48	63.113	63.096	-0.097	0.0	0.0	0.0
54	63.118	63.096	-0.092	0.0	0.0	0.0
60	63.123	63.096	-0.087	0.0	0.0	0.0
66	63.128	63.096	-0.082	0.0	0.0	0.0
72	63.133	63.096	-0.077	0.0	0.0	0.0
78	63.138	63.096	-0.072	0.0	0.0	0.0
84	63.143	63.096	-0.067	0.0	0.0	0.0
90	63.147	63.096	-0.063	0.0	0.0	0.0
96	63.152	63.096	-0.058	0.0	0.0	0.0
102	63.157	63.096	-0.053	0.0	0.0	0.0
108	63.163	63.096	-0.047	0.0	0.0	0.0
114	63.170	63.096	-0.040	0.0	0.0	0.0
120	63.177	63.096	-0.033	0.0	0.0	0.0
126	63.184	63.096	-0.026	0.0	0.0	0.0
132	63.194	63.096	-0.016	0.0	0.0	0.0
138	63.204	63.096	-0.006	0.0	0.0	0.0
144	63.214	63.096	0.004	0.0	0.0	0.0
150	63.226	63.096	0.016	0.0	0.0	0.0
156	63.239	63.096	0.029	0.0	0.0	0.0
162	63.251	63.096	0.041	0.0	0.0	0.0
168	63.252	63.096	0.042	0.0	0.0	0.0
174	63.257	63.096	0.047	0.0	0.0	0.0
180	63.266	63.096	0.056	0.0	0.0	0.0
186	63.279	63.096	0.069	0.0	0.0	0.0
192	63.295	63.096	0.085	0.0	0.0	0.0
198	63.314	63.096	0.104	0.0	0.0	0.0
204	63.335	63.096	0.125	0.0	0.0	0.0
210	63.356	63.096	0.146	0.0	0.1	0.0
216	63.377	63.096	0.167	0.0	0.1	0.0
222	63.397	63.096	0.187	0.0	0.1	0.0
228	63.415	63.096	0.205	0.0	0.1	0.0
234	63.432	63.096	0.222	0.0	0.1	0.0
240	63.448	63.096	0.238	0.0	0.1	0.0
246	63.462	63.096	0.252	0.0	0.1	0.0
252	63.475	63.096	0.265	0.0	0.1	0.0
258	63.486	63.096	0.276	0.0	0.1	0.0
264	63.497	63.096	0.287	0.0	0.1	0.0
270	63.506	63.096	0.296	0.0	0.1	0.0
276	63.515	63.096	0.305	0.0	0.1	0.0
282	63.522	63.096	0.312	0.0	0.1	0.0
288	63.529	63.096	0.319	0.0	0.1	0.0
294	63.535	63.096	0.325	0.0	0.1	0.0
300	63.541	63.096	0.331	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.546	63.096	0.336	0.0	0.1	0.0
312	63.551	63.096	0.341	0.0	0.1	0.0
318	63.555	63.096	0.345	0.0	0.1	0.0
324	63.558	63.096	0.348	0.0	0.1	0.0
330	63.561	63.096	0.351	0.0	0.1	0.0
336	63.564	63.096	0.354	0.0	0.1	0.0
342	63.567	63.096	0.357	0.0	0.1	0.0
348	63.570	63.096	0.360	0.0	0.1	0.0
354	63.573	63.096	0.363	0.0	0.1	0.0
360	63.575	63.096	0.365	0.0	0.1	0.0
366	63.577	63.096	0.367	0.0	0.1	0.0
372	63.579	63.096	0.369	0.0	0.1	0.0
378	63.580	63.096	0.370	0.0	0.1	0.0
384	63.581	63.096	0.371	0.0	0.1	0.0
390	63.581	63.096	0.371	0.0	0.1	0.0
396	63.582	63.096	0.372	0.0	0.1	0.0
402	63.582	63.096	0.372	0.0	0.1	0.0
408	63.582	63.096	0.372	0.0	0.1	0.0
414	63.582	63.096	0.372	0.0	0.1	0.0
420	63.581	63.096	0.371	0.0	0.1	0.0
426	63.581	63.096	0.371	0.0	0.1	0.0
432	63.580	63.096	0.370	0.0	0.1	0.0
438	63.580	63.096	0.370	0.0	0.1	0.0
444	63.579	63.096	0.369	0.0	0.1	0.0
450	63.579	63.096	0.369	0.0	0.1	0.0
456	63.578	63.096	0.368	0.0	0.1	0.0
462	63.577	63.096	0.367	0.0	0.1	0.0
468	63.577	63.096	0.367	0.0	0.1	0.0
474	63.576	63.096	0.366	0.0	0.1	0.0
480	63.575	63.096	0.365	0.0	0.1	0.0
486	63.574	63.096	0.364	0.0	0.1	0.0
492	63.573	63.096	0.363	0.0	0.1	0.0
498	63.573	63.096	0.363	0.0	0.1	0.0
504	63.572	63.096	0.362	0.0	0.1	0.0
510	63.571	63.096	0.361	0.0	0.1	0.0
516	63.570	63.096	0.360	0.0	0.1	0.0
522	63.569	63.096	0.359	0.0	0.1	0.0
528	63.568	63.096	0.358	0.0	0.1	0.0
534	63.568	63.096	0.358	0.0	0.1	0.0
540	63.567	63.096	0.357	0.0	0.1	0.0
546	63.566	63.096	0.356	0.0	0.1	0.0
552	63.565	63.096	0.355	0.0	0.1	0.0
558	63.564	63.096	0.354	0.0	0.1	0.0
564	63.563	63.096	0.353	0.0	0.1	0.0
570	63.562	63.096	0.352	0.0	0.1	0.0
576	63.561	63.096	0.351	0.0	0.1	0.0
582	63.561	63.096	0.351	0.0	0.1	0.0
588	63.560	63.096	0.350	0.0	0.1	0.0
594	63.559	63.096	0.349	0.0	0.1	0.0
600	63.558	63.096	0.348	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Summer
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.557	63.096	0.347	0.0	0.1	0.0
612	63.556	63.096	0.346	0.0	0.1	0.0
618	63.555	63.096	0.345	0.0	0.1	0.0
624	63.554	63.096	0.344	0.0	0.1	0.0
630	63.554	63.096	0.344	0.0	0.1	0.0
636	63.553	63.096	0.343	0.0	0.1	0.0
642	63.552	63.096	0.342	0.0	0.1	0.0
648	63.551	63.096	0.341	0.0	0.1	0.0
654	63.550	63.096	0.340	0.0	0.1	0.0
660	63.549	63.096	0.339	0.0	0.1	0.0
666	63.548	63.096	0.338	0.0	0.1	0.0
672	63.547	63.096	0.337	0.0	0.1	0.0
678	63.547	63.096	0.337	0.0	0.1	0.0
684	63.546	63.096	0.336	0.0	0.1	0.0
690	63.545	63.096	0.335	0.0	0.1	0.0
696	63.544	63.096	0.334	0.0	0.1	0.0
702	63.543	63.096	0.333	0.0	0.1	0.0
708	63.542	63.096	0.332	0.0	0.1	0.0
714	63.541	63.096	0.331	0.0	0.1	0.0
720	63.541	63.096	0.331	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	360
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 360 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.409	-0.101	0.000	0.02	0.0	0.4	OK
1.001	S1	63.649	0.045	0.000	0.13	0.0	0.9	SURCHARGED
2.000	RE2	65.411	-0.099	0.000	0.02	0.0	0.4	OK
2.001	S2	65.013	-0.097	0.000	0.03	0.0	0.9	OK
1.002	S3	63.649	0.095	0.000	0.25	0.0	1.8	SURCHARGED
1.003	S4	63.648	0.288	0.000	0.05	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.583	0.373	0.000	0.01	0.0	0.0	SURCHARGED

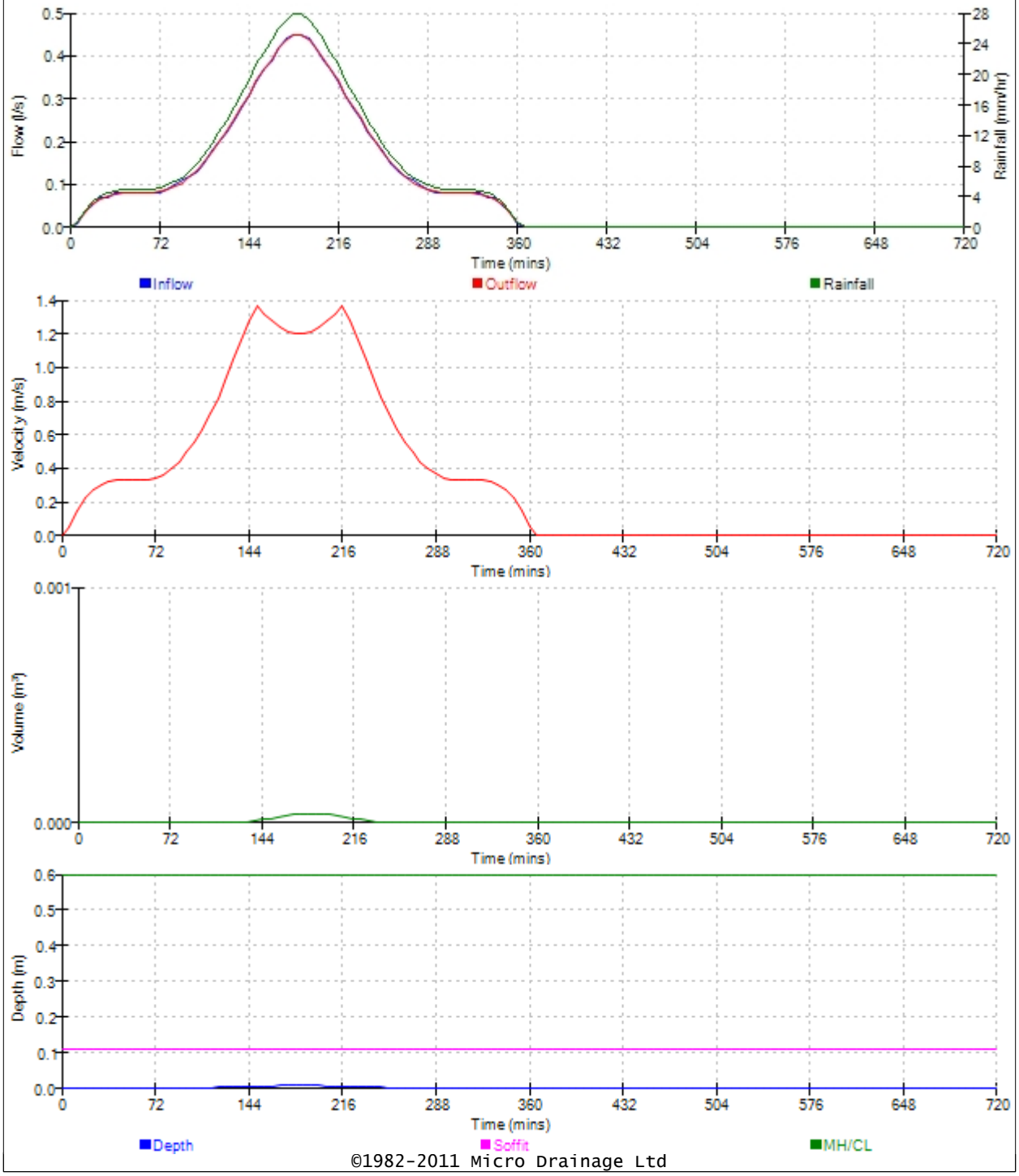
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Rainfall Hyetograph for 360 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6	0.786	78	5.492	150	21.205	222	19.245	294	5.166
12	2.261	84	5.936	156	22.874	228	17.487	300	5.005
18	3.343	90	6.525	162	24.430	234	15.755	306	4.930
24	4.143	96	7.391	168	25.958	240	13.886	312	4.919
30	4.568	102	8.344	174	27.042	246	12.332	318	4.930
36	4.809	108	9.453	180	27.824	252	10.894	324	4.916
42	4.916	114	10.894	186	27.824	258	9.453	330	4.809
48	4.929	120	12.332	192	27.042	264	8.344	336	4.568
54	4.919	126	13.886	198	25.958	270	7.391	342	4.143
60	4.930	132	15.755	204	24.430	276	6.525	348	3.344
66	5.005	138	17.487	210	22.874	282	5.936	354	2.261
72	5.166	144	19.245	216	21.205	288	5.492	360	0.786

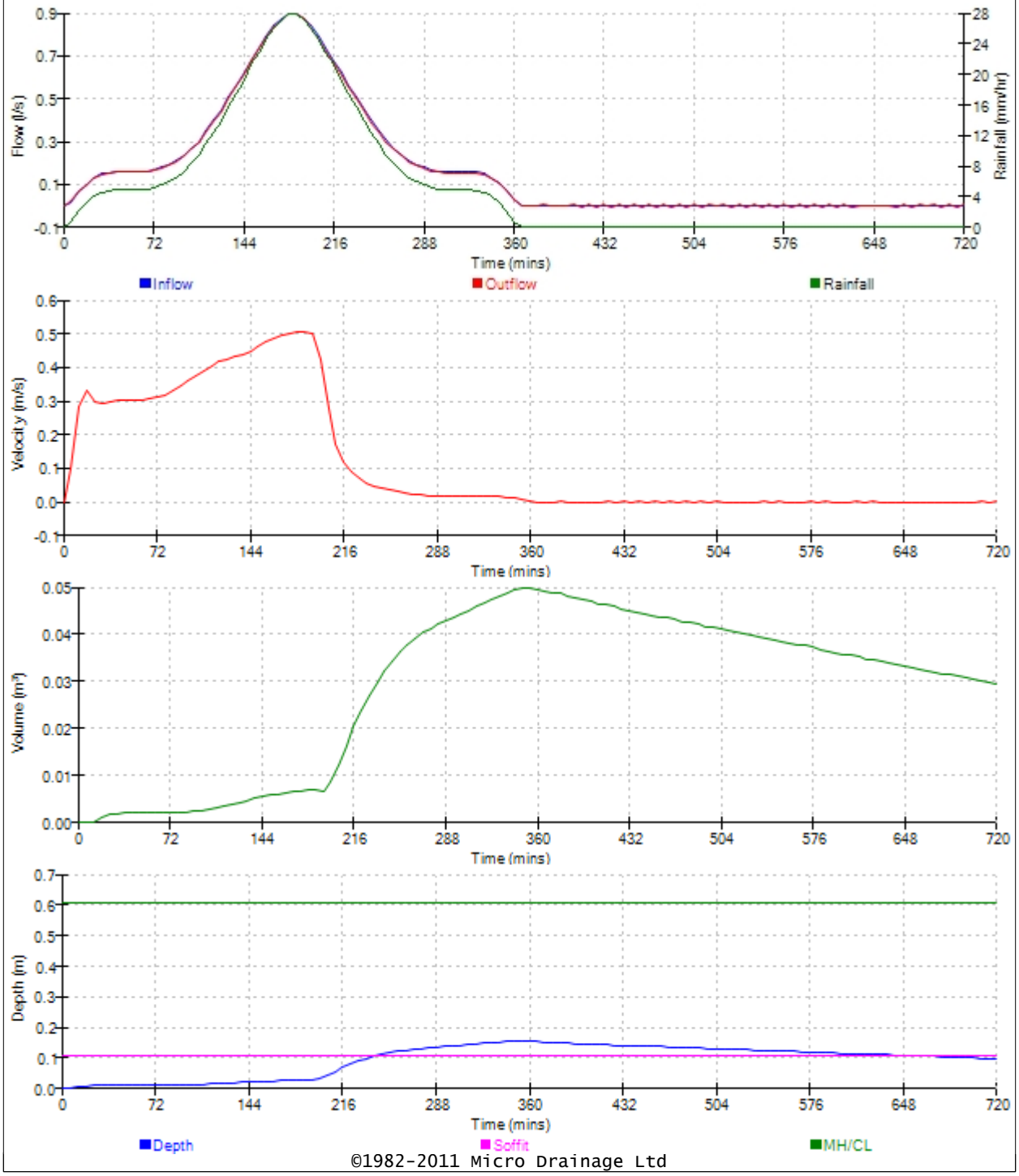
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Winter
Status: OK



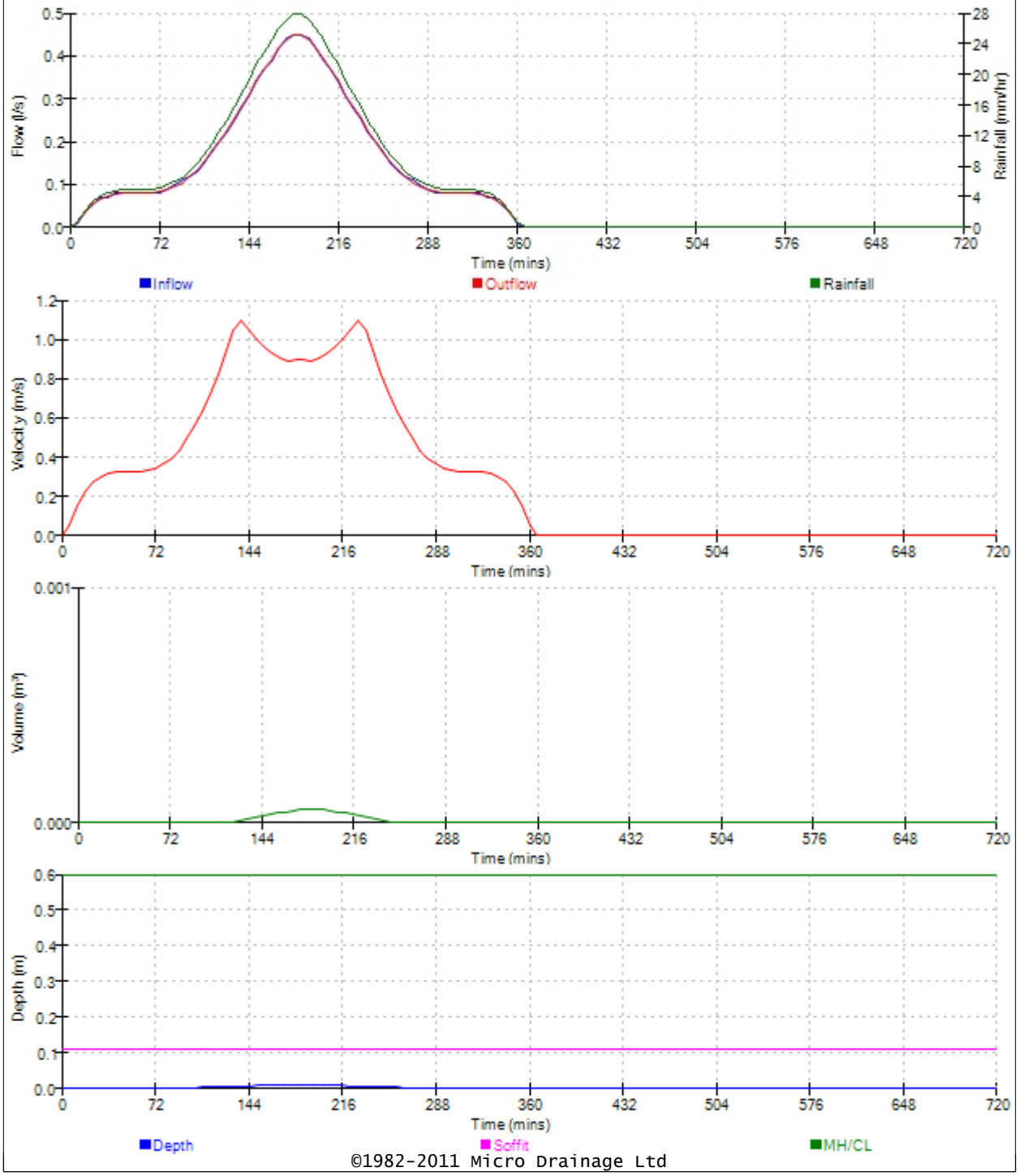
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Graphs for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Winter
Status: SURCHARGED



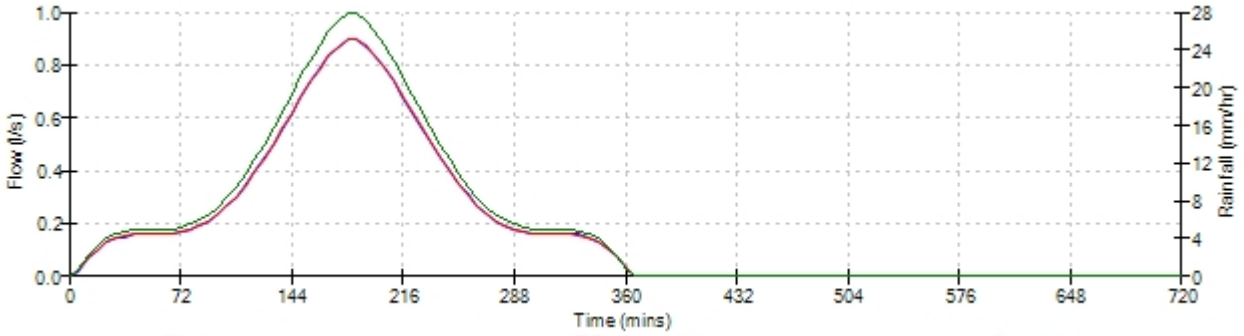
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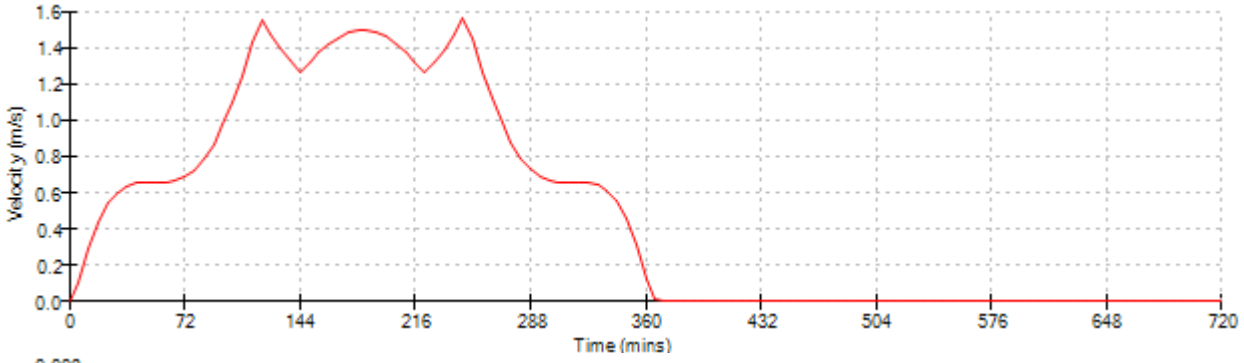
Graphs for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Winter
Status: OK

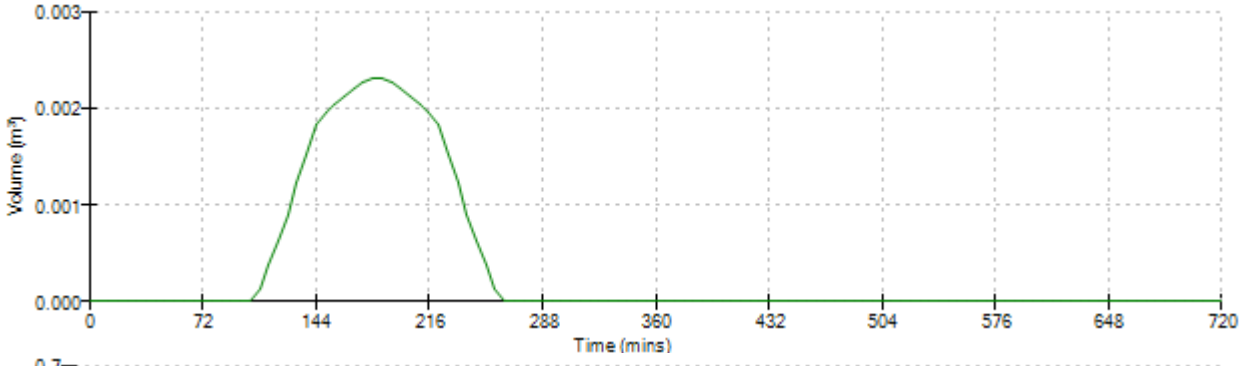


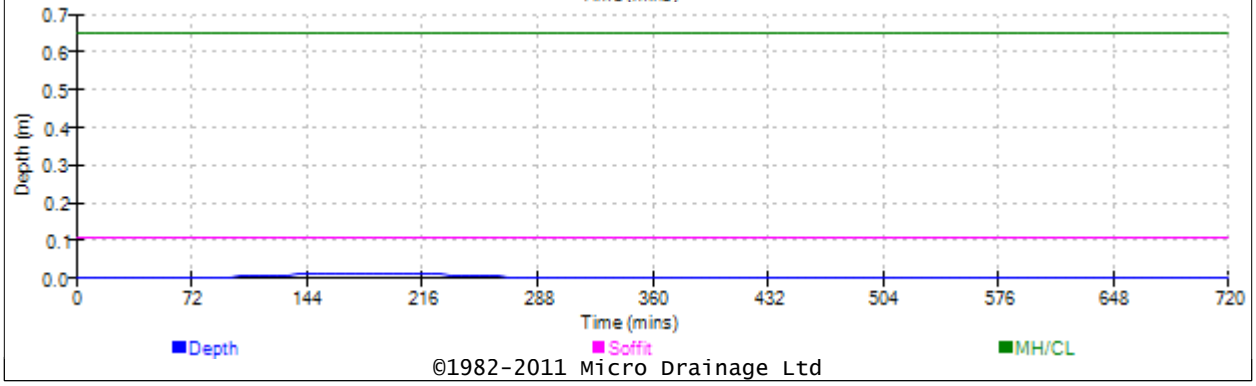
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Graphs for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Winter
Status: OK



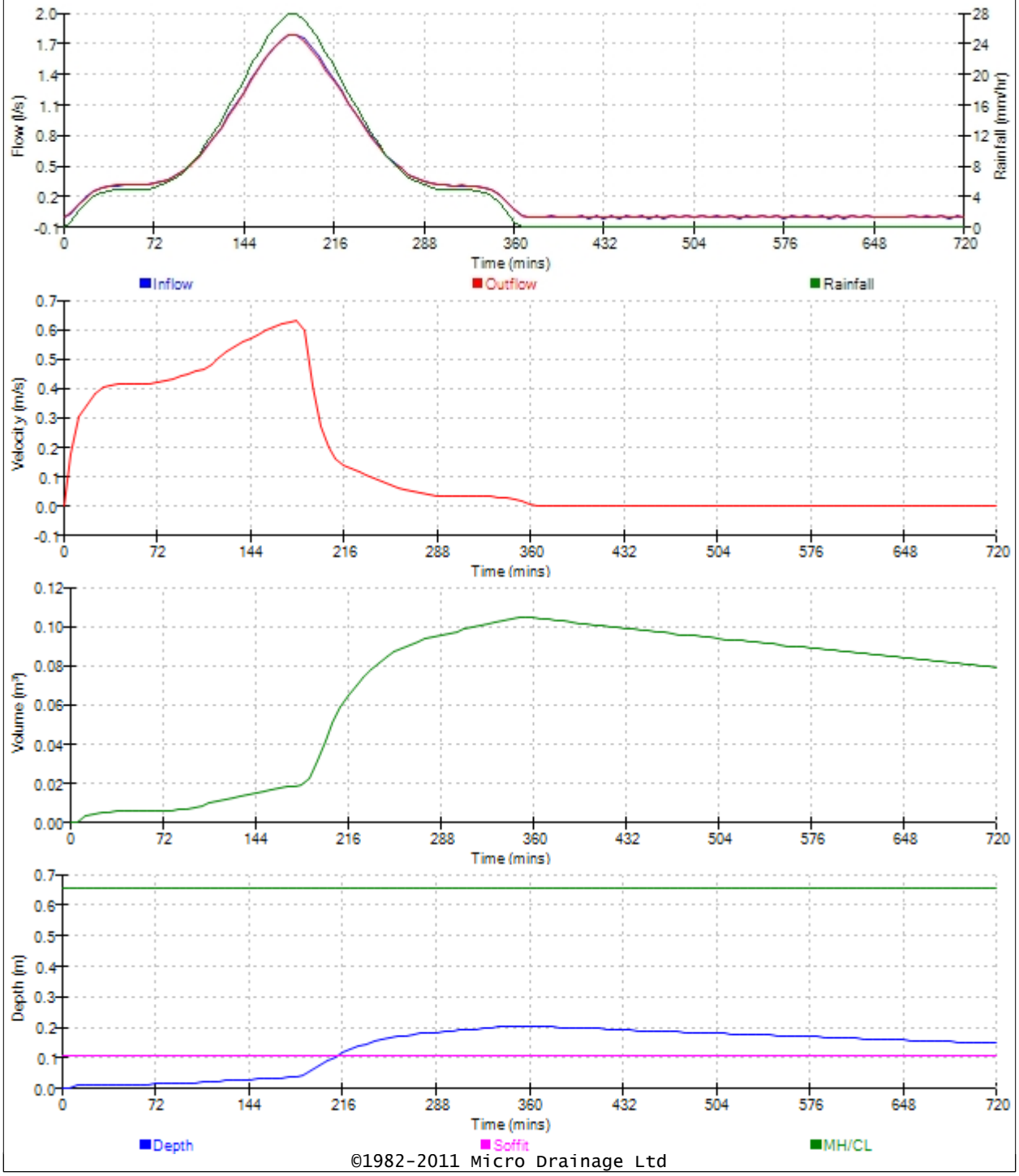






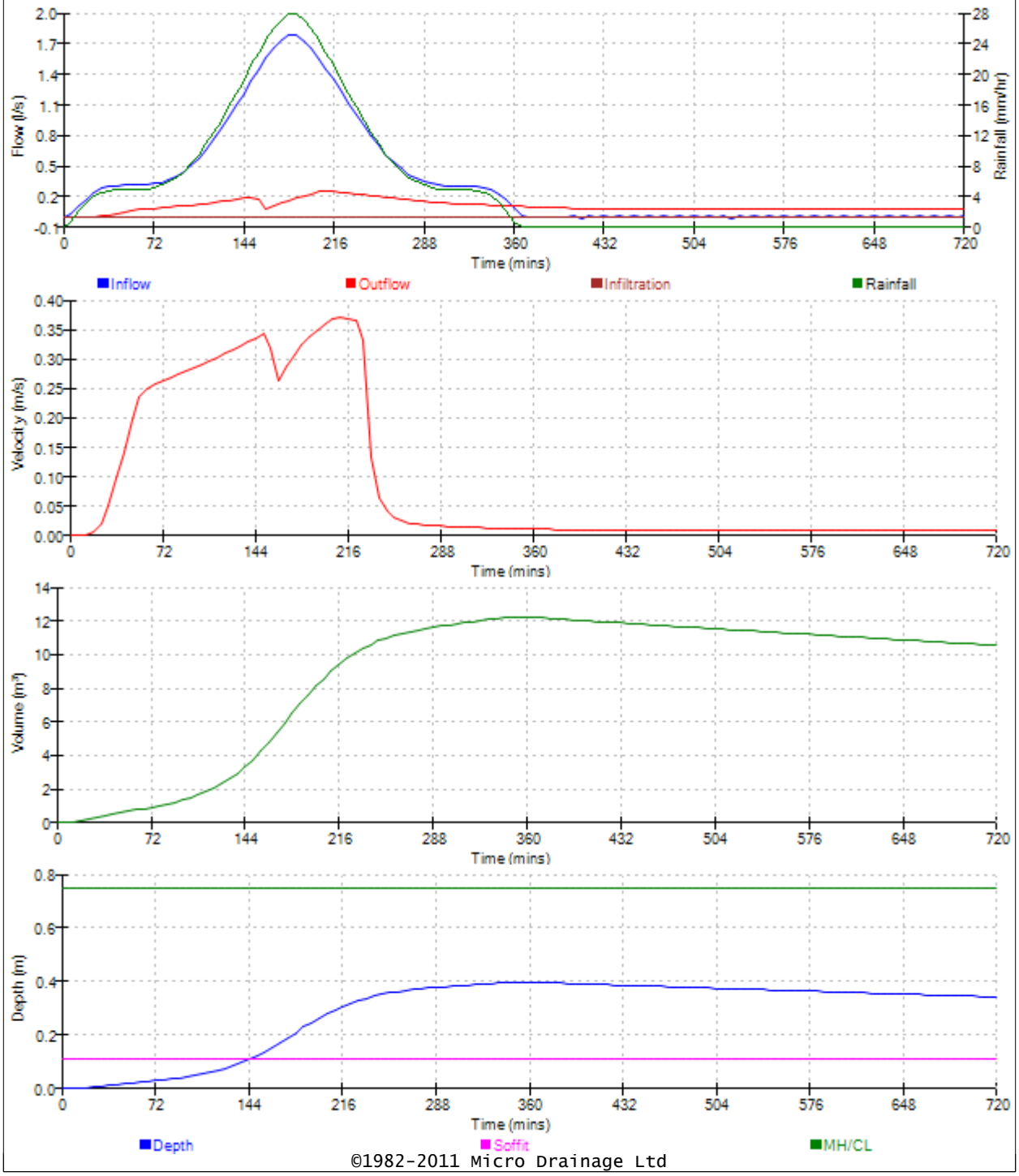
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Graphs for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Winter
Status: SURCHARGED



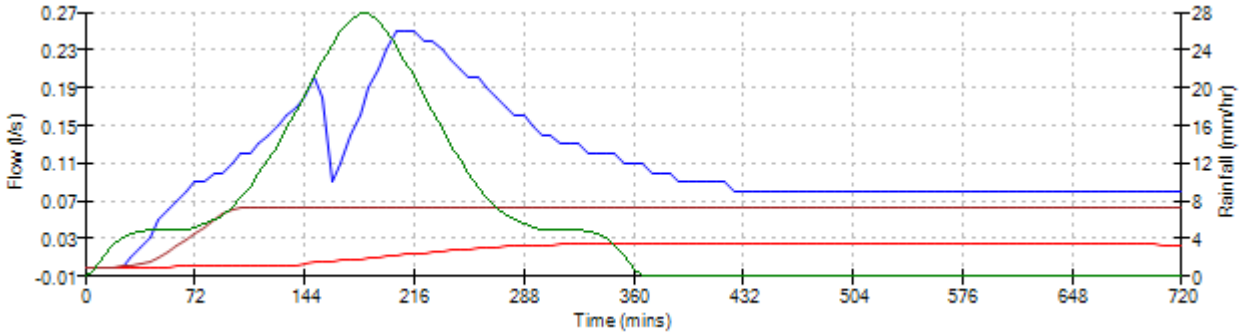
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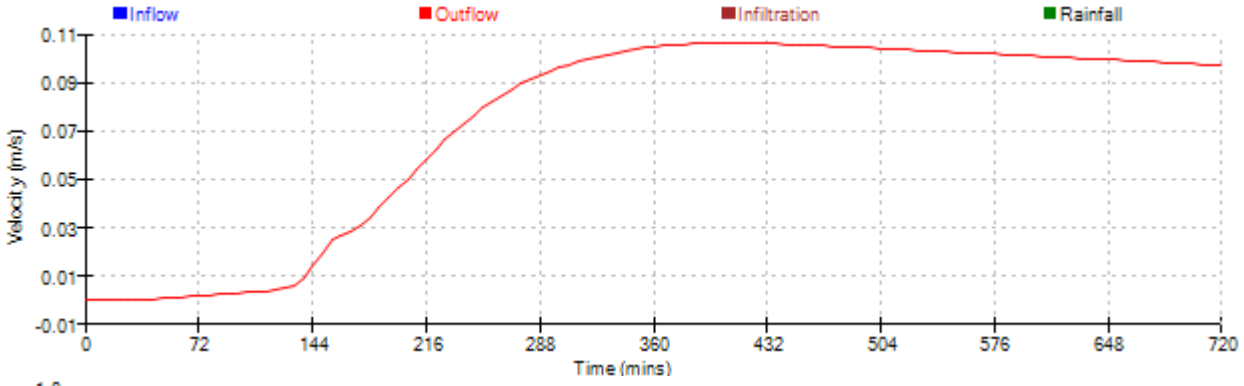
Graphs for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Winter
Status: SURCHARGED

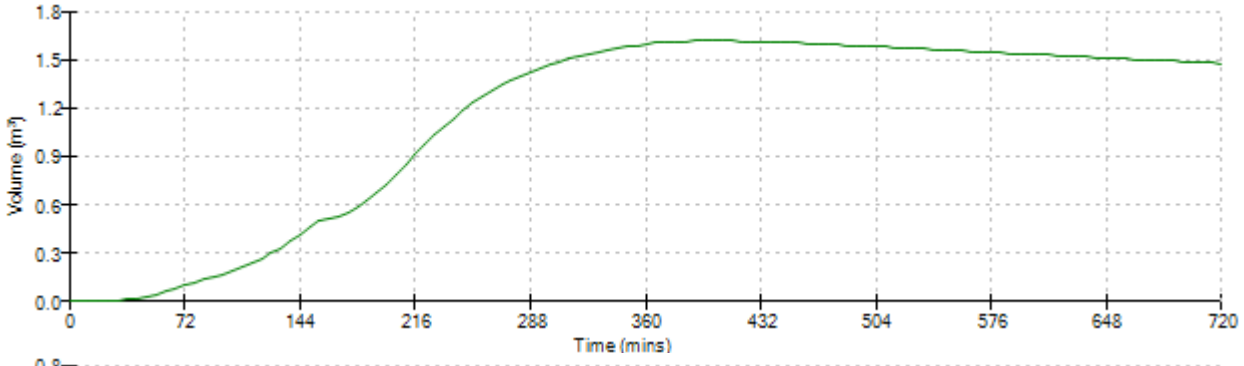


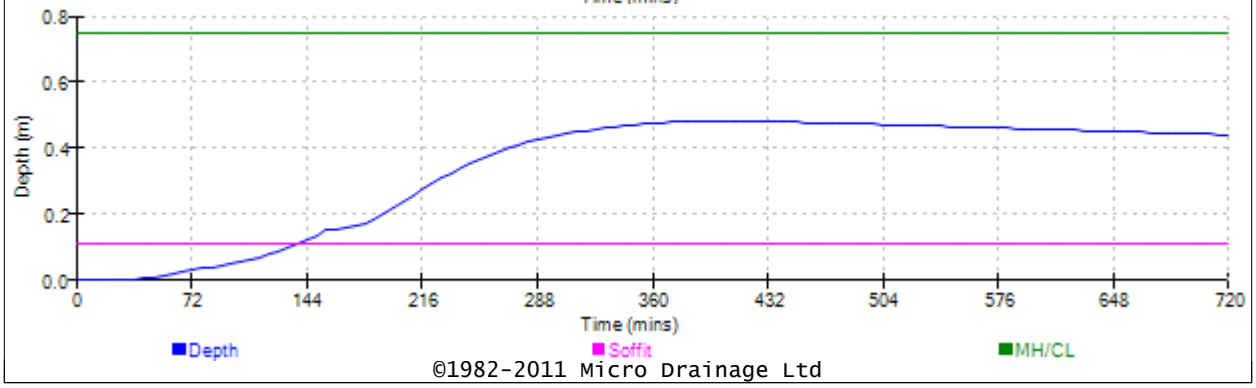
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.400	63.496	-0.110	0.0	0.1	0.0
12	65.401	63.500	-0.109	0.0	0.2	0.0
18	65.401	63.502	-0.109	0.0	0.2	0.1
24	65.401	63.504	-0.109	0.0	0.3	0.1
30	65.402	63.505	-0.108	0.0	0.3	0.1
36	65.402	63.505	-0.108	0.0	0.3	0.1
42	65.402	63.506	-0.108	0.0	0.3	0.1
48	65.402	63.506	-0.108	0.0	0.3	0.1
54	65.402	63.506	-0.108	0.0	0.3	0.1
60	65.402	63.506	-0.108	0.0	0.3	0.1
66	65.402	63.506	-0.108	0.0	0.3	0.1
72	65.402	63.506	-0.108	0.0	0.3	0.1
78	65.402	63.506	-0.108	0.0	0.4	0.1
84	65.402	63.506	-0.108	0.0	0.4	0.1
90	65.402	63.507	-0.108	0.0	0.4	0.1
96	65.402	63.507	-0.108	0.0	0.5	0.1
102	65.403	63.508	-0.107	0.0	0.6	0.1
108	65.403	63.509	-0.107	0.0	0.6	0.2
114	65.404	63.510	-0.106	0.0	0.7	0.2
120	65.404	63.511	-0.106	0.0	0.8	0.2
126	65.405	63.513	-0.105	0.0	0.9	0.2
132	65.405	63.514	-0.105	0.0	1.0	0.3
138	65.406	63.515	-0.104	0.0	1.2	0.3
144	65.406	63.517	-0.104	0.0	1.3	0.3
150	65.407	63.517	-0.103	0.0	1.4	0.3
156	65.407	63.518	-0.103	0.0	1.3	0.4
162	65.408	63.519	-0.102	0.0	1.3	0.4
168	65.408	63.520	-0.102	0.0	1.2	0.4
174	65.409	63.520	-0.101	0.0	1.2	0.4
180	65.409	63.521	-0.101	0.0	1.2	0.4
186	65.409	63.521	-0.101	0.0	1.2	0.4
192	65.409	63.520	-0.101	0.0	1.2	0.4
198	65.408	63.526	-0.102	0.0	1.2	0.4
204	65.408	63.537	-0.102	0.0	1.3	0.4
210	65.407	63.551	-0.103	0.0	1.3	0.4
216	65.407	63.563	-0.103	0.0	1.4	0.3
222	65.406	63.574	-0.104	0.0	1.3	0.3
228	65.406	63.584	-0.104	0.0	1.2	0.3
234	65.405	63.592	-0.105	0.0	1.0	0.3
240	65.405	63.600	-0.105	0.0	0.9	0.2
246	65.404	63.606	-0.106	0.0	0.8	0.2
252	65.404	63.611	-0.106	0.0	0.7	0.2
258	65.403	63.616	-0.107	0.0	0.6	0.2
264	65.403	63.620	-0.107	0.0	0.6	0.1
270	65.402	63.623	-0.108	0.0	0.5	0.1
276	65.402	63.625	-0.108	0.0	0.4	0.1
282	65.402	63.628	-0.108	0.0	0.4	0.1
288	65.402	63.630	-0.108	0.0	0.4	0.1
294	65.402	63.632	-0.108	0.0	0.3	0.1
300	65.402	63.634	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.402	63.636	-0.108	0.0	0.3	0.1
312	65.402	63.638	-0.108	0.0	0.3	0.1
318	65.402	63.640	-0.108	0.0	0.3	0.1
324	65.402	63.642	-0.108	0.0	0.3	0.1
330	65.402	63.644	-0.108	0.0	0.3	0.1
336	65.401	63.646	-0.109	0.0	0.3	0.1
342	65.401	63.648	-0.109	0.0	0.3	0.1
348	65.401	63.649	-0.109	0.0	0.2	0.1
354	65.401	63.649	-0.109	0.0	0.2	0.0
360	65.400	63.648	-0.110	0.0	0.1	0.0
366	65.400	63.647	-0.110	0.0	0.0	0.0
372	65.400	63.646	-0.110	0.0	0.0	0.0
378	65.400	63.646	-0.110	0.0	0.0	0.0
384	65.400	63.644	-0.110	0.0	0.0	0.0
390	65.400	63.643	-0.110	0.0	0.0	0.0
396	65.400	63.642	-0.110	0.0	0.0	0.0
402	65.400	63.641	-0.110	0.0	0.0	0.0
408	65.400	63.640	-0.110	0.0	0.0	0.0
414	65.400	63.640	-0.110	0.0	0.0	0.0
420	65.400	63.638	-0.110	0.0	0.0	0.0
426	65.400	63.637	-0.110	0.0	0.0	0.0
432	65.400	63.636	-0.110	0.0	0.0	0.0
438	65.400	63.635	-0.110	0.0	0.0	0.0
444	65.400	63.634	-0.110	0.0	0.0	0.0
450	65.400	63.633	-0.110	0.0	0.0	0.0
456	65.400	63.632	-0.110	0.0	0.0	0.0
462	65.400	63.631	-0.110	0.0	0.0	0.0
468	65.400	63.631	-0.110	0.0	0.0	0.0
474	65.400	63.629	-0.110	0.0	0.0	0.0
480	65.400	63.629	-0.110	0.0	0.0	0.0
486	65.400	63.627	-0.110	0.0	0.0	0.0
492	65.400	63.626	-0.110	0.0	0.0	0.0
498	65.400	63.626	-0.110	0.0	0.0	0.0
504	65.400	63.625	-0.110	0.0	0.0	0.0
510	65.400	63.624	-0.110	0.0	0.0	0.0
516	65.400	63.623	-0.110	0.0	0.0	0.0
522	65.400	63.622	-0.110	0.0	0.0	0.0
528	65.400	63.621	-0.110	0.0	0.0	0.0
534	65.400	63.620	-0.110	0.0	0.0	0.0
540	65.400	63.620	-0.110	0.0	0.0	0.0
546	65.400	63.618	-0.110	0.0	0.0	0.0
552	65.400	63.617	-0.110	0.0	0.0	0.0
558	65.400	63.616	-0.110	0.0	0.0	0.0
564	65.400	63.615	-0.110	0.0	0.0	0.0
570	65.400	63.615	-0.110	0.0	0.0	0.0
576	65.400	63.614	-0.110	0.0	0.0	0.0
582	65.400	63.613	-0.110	0.0	0.0	0.0
588	65.400	63.612	-0.110	0.0	0.0	0.0
594	65.400	63.611	-0.110	0.0	0.0	0.0
600	65.400	63.610	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	63.610	-0.110	0.0	0.0	0.0
612	65.400	63.609	-0.110	0.0	0.0	0.0
618	65.400	63.607	-0.110	0.0	0.0	0.0
624	65.400	63.607	-0.110	0.0	0.0	0.0
630	65.400	63.606	-0.110	0.0	0.0	0.0
636	65.400	63.605	-0.110	0.0	0.0	0.0
642	65.400	63.603	-0.110	0.0	0.0	0.0
648	65.400	63.603	-0.110	0.0	0.0	0.0
654	65.400	63.602	-0.110	0.0	0.0	0.0
660	65.400	63.601	-0.110	0.0	0.0	0.0
666	65.400	63.601	-0.110	0.0	0.0	0.0
672	65.400	63.600	-0.110	0.0	0.0	0.0
678	65.400	63.598	-0.110	0.0	0.0	0.0
684	65.400	63.598	-0.110	0.0	0.0	0.0
690	65.400	63.597	-0.110	0.0	0.0	0.0
696	65.400	63.596	-0.110	0.0	0.0	0.0
702	65.400	63.595	-0.110	0.0	0.0	0.0
708	65.400	63.594	-0.110	0.0	0.0	0.0
714	65.400	63.593	-0.110	0.0	0.0	0.0
720	65.400	63.592	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.496	63.448	-0.108	0.0	0.1	0.0
12	63.500	63.455	-0.104	0.0	0.3	0.1
18	63.502	63.457	-0.102	0.0	0.3	0.1
24	63.504	63.458	-0.100	0.0	0.3	0.1
30	63.505	63.458	-0.099	0.0	0.3	0.1
36	63.505	63.459	-0.099	0.0	0.3	0.2
42	63.506	63.459	-0.099	0.0	0.3	0.2
48	63.506	63.459	-0.099	0.0	0.3	0.2
54	63.506	63.459	-0.099	0.0	0.3	0.2
60	63.506	63.459	-0.099	0.0	0.3	0.2
66	63.506	63.459	-0.099	0.0	0.3	0.2
72	63.506	63.459	-0.098	0.0	0.3	0.2
78	63.506	63.460	-0.098	0.0	0.3	0.2
84	63.506	63.460	-0.098	0.0	0.3	0.2
90	63.507	63.461	-0.097	0.0	0.3	0.2
96	63.507	63.463	-0.097	0.0	0.4	0.2
102	63.508	63.464	-0.096	0.0	0.4	0.3
108	63.509	63.466	-0.095	0.0	0.4	0.3
114	63.510	63.467	-0.094	0.0	0.4	0.3
120	63.511	63.468	-0.093	0.0	0.4	0.4
126	63.513	63.470	-0.092	0.0	0.4	0.4
132	63.514	63.472	-0.090	0.0	0.4	0.5
138	63.515	63.473	-0.089	0.0	0.4	0.6
144	63.517	63.475	-0.088	0.0	0.4	0.6
150	63.517	63.477	-0.087	0.0	0.5	0.7
156	63.518	63.478	-0.086	0.0	0.5	0.7
162	63.519	63.479	-0.085	0.0	0.5	0.8
168	63.520	63.480	-0.084	0.0	0.5	0.8
174	63.520	63.481	-0.084	0.0	0.5	0.9
180	63.521	63.481	-0.083	0.0	0.5	0.9
186	63.521	63.487	-0.083	0.0	0.5	0.9
192	63.520	63.503	-0.084	0.0	0.5	0.9
198	63.526	63.519	-0.078	0.0	0.4	0.8
204	63.537	63.534	-0.067	0.0	0.3	0.8
210	63.551	63.548	-0.053	0.0	0.2	0.7
216	63.563	63.560	-0.041	0.0	0.1	0.7
222	63.574	63.571	-0.030	0.0	0.1	0.6
228	63.584	63.581	-0.020	0.0	0.1	0.6
234	63.592	63.590	-0.012	0.0	0.1	0.5
240	63.600	63.598	-0.004	0.0	0.0	0.4
246	63.606	63.604	0.002	0.0	0.0	0.4
252	63.611	63.610	0.007	0.0	0.0	0.3
258	63.616	63.614	0.012	0.0	0.0	0.3
264	63.620	63.618	0.015	0.0	0.0	0.3
270	63.623	63.622	0.019	0.0	0.0	0.2
276	63.625	63.624	0.021	0.0	0.0	0.2
282	63.628	63.627	0.024	0.0	0.0	0.2
288	63.630	63.629	0.026	0.0	0.0	0.2
294	63.632	63.631	0.028	0.0	0.0	0.2
300	63.634	63.633	0.030	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.636	63.635	0.032	0.0	0.0	0.2
312	63.638	63.637	0.034	0.0	0.0	0.2
318	63.640	63.639	0.036	0.0	0.0	0.2
324	63.642	63.641	0.038	0.0	0.0	0.2
330	63.644	63.644	0.040	0.0	0.0	0.2
336	63.646	63.646	0.042	0.0	0.0	0.1
342	63.648	63.647	0.044	0.0	0.0	0.1
348	63.649	63.648	0.045	0.0	0.0	0.1
354	63.649	63.649	0.045	0.0	0.0	0.1
360	63.648	63.648	0.044	0.0	0.0	0.0
366	63.647	63.647	0.043	0.0	0.0	0.0
372	63.646	63.646	0.042	0.0	0.0	0.0
378	63.646	63.646	0.042	0.0	0.0	0.0
384	63.644	63.644	0.040	0.0	0.0	0.0
390	63.643	63.643	0.039	0.0	0.0	0.0
396	63.642	63.642	0.038	0.0	0.0	0.0
402	63.641	63.641	0.037	0.0	0.0	0.0
408	63.640	63.640	0.036	0.0	0.0	0.0
414	63.640	63.640	0.035	0.0	0.0	0.0
420	63.638	63.638	0.034	0.0	0.0	0.0
426	63.637	63.637	0.032	0.0	0.0	0.0
432	63.636	63.636	0.032	0.0	0.0	0.0
438	63.635	63.635	0.031	0.0	0.0	0.0
444	63.634	63.634	0.030	0.0	0.0	0.0
450	63.633	63.633	0.029	0.0	0.0	0.0
456	63.632	63.632	0.028	0.0	0.0	0.0
462	63.631	63.632	0.027	0.0	0.0	0.0
468	63.631	63.630	0.026	0.0	0.0	0.0
474	63.629	63.629	0.025	0.0	0.0	0.0
480	63.629	63.629	0.024	0.0	0.0	0.0
486	63.627	63.628	0.023	0.0	0.0	0.0
492	63.626	63.627	0.022	0.0	0.0	0.0
498	63.626	63.626	0.022	0.0	0.0	0.0
504	63.625	63.625	0.021	0.0	0.0	0.0
510	63.624	63.624	0.019	0.0	0.0	0.0
516	63.623	63.623	0.019	0.0	0.0	0.0
522	63.622	63.622	0.018	0.0	0.0	0.0
528	63.621	63.621	0.017	0.0	0.0	0.0
534	63.620	63.621	0.016	0.0	0.0	0.0
540	63.620	63.619	0.015	0.0	0.0	0.0
546	63.618	63.619	0.014	0.0	0.0	0.0
552	63.617	63.618	0.013	0.0	0.0	0.0
558	63.616	63.616	0.012	0.0	0.0	0.0
564	63.615	63.616	0.011	0.0	0.0	0.0
570	63.615	63.615	0.011	0.0	0.0	0.0
576	63.614	63.614	0.010	0.0	0.0	0.0
582	63.613	63.613	0.009	0.0	0.0	0.0
588	63.612	63.612	0.008	0.0	0.0	0.0
594	63.611	63.611	0.007	0.0	0.0	0.0
600	63.610	63.610	0.006	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.610	0.005	0.0	0.0	0.0
612	63.609	63.609	0.005	0.0	0.0	0.0
618	63.607	63.608	0.003	0.0	0.0	0.0
624	63.607	63.607	0.002	0.0	0.0	0.0
630	63.606	63.606	0.001	0.0	0.0	0.0
636	63.605	63.605	0.001	0.0	0.0	0.0
642	63.603	63.604	-0.001	0.0	0.0	0.0
648	63.603	63.603	-0.001	0.0	0.0	0.0
654	63.602	63.602	-0.002	0.0	0.0	0.0
660	63.601	63.601	-0.003	0.0	0.0	0.0
666	63.601	63.600	-0.004	0.0	0.0	0.0
672	63.600	63.600	-0.005	0.0	0.0	0.0
678	63.598	63.599	-0.006	0.0	0.0	0.0
684	63.598	63.598	-0.006	0.0	0.0	0.0
690	63.597	63.597	-0.007	0.0	0.0	0.0
696	63.596	63.596	-0.008	0.0	0.0	0.0
702	63.595	63.595	-0.009	0.0	0.0	0.0
708	63.594	63.594	-0.010	0.0	0.0	0.0
714	63.593	63.593	-0.011	0.0	0.0	0.0
720	63.592	63.592	-0.012	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.400	65.000	-0.110	0.0	0.1	0.0
12	65.401	65.001	-0.109	0.0	0.1	0.0
18	65.401	65.002	-0.109	0.0	0.2	0.1
24	65.402	65.002	-0.108	0.0	0.3	0.1
30	65.402	65.003	-0.108	0.0	0.3	0.1
36	65.402	65.003	-0.108	0.0	0.3	0.1
42	65.402	65.003	-0.108	0.0	0.3	0.1
48	65.402	65.003	-0.108	0.0	0.3	0.1
54	65.402	65.003	-0.108	0.0	0.3	0.1
60	65.402	65.003	-0.108	0.0	0.3	0.1
66	65.402	65.003	-0.108	0.0	0.3	0.1
72	65.402	65.003	-0.108	0.0	0.3	0.1
78	65.402	65.003	-0.108	0.0	0.4	0.1
84	65.402	65.003	-0.108	0.0	0.4	0.1
90	65.403	65.004	-0.107	0.0	0.4	0.1
96	65.403	65.004	-0.107	0.0	0.5	0.1
102	65.403	65.005	-0.107	0.0	0.6	0.1
108	65.404	65.005	-0.106	0.0	0.6	0.2
114	65.404	65.006	-0.106	0.0	0.7	0.2
120	65.405	65.007	-0.105	0.0	0.8	0.2
126	65.406	65.008	-0.104	0.0	0.9	0.2
132	65.406	65.009	-0.104	0.0	1.0	0.3
138	65.407	65.010	-0.103	0.0	1.1	0.3
144	65.408	65.011	-0.102	0.0	1.0	0.3
150	65.409	65.011	-0.101	0.0	1.0	0.3
156	65.409	65.012	-0.101	0.0	1.0	0.4
162	65.410	65.012	-0.100	0.0	0.9	0.4
168	65.410	65.012	-0.100	0.0	0.9	0.4
174	65.411	65.012	-0.099	0.0	0.9	0.4
180	65.411	65.013	-0.099	0.0	0.9	0.4
186	65.411	65.013	-0.099	0.0	0.9	0.4
192	65.411	65.012	-0.099	0.0	0.9	0.4
198	65.410	65.012	-0.100	0.0	0.9	0.4
204	65.410	65.012	-0.100	0.0	0.9	0.4
210	65.409	65.012	-0.101	0.0	1.0	0.4
216	65.409	65.011	-0.101	0.0	1.0	0.3
222	65.408	65.011	-0.102	0.0	1.0	0.3
228	65.407	65.010	-0.103	0.0	1.1	0.3
234	65.406	65.009	-0.104	0.0	1.0	0.3
240	65.406	65.008	-0.104	0.0	0.9	0.2
246	65.405	65.007	-0.105	0.0	0.8	0.2
252	65.404	65.006	-0.106	0.0	0.7	0.2
258	65.404	65.005	-0.106	0.0	0.6	0.2
264	65.403	65.005	-0.107	0.0	0.6	0.1
270	65.403	65.004	-0.107	0.0	0.5	0.1
276	65.403	65.004	-0.107	0.0	0.4	0.1
282	65.402	65.003	-0.108	0.0	0.4	0.1
288	65.402	65.003	-0.108	0.0	0.4	0.1
294	65.402	65.003	-0.108	0.0	0.3	0.1
300	65.402	65.003	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.402	65.003	-0.108	0.0	0.3	0.1
312	65.402	65.003	-0.108	0.0	0.3	0.1
318	65.402	65.003	-0.108	0.0	0.3	0.1
324	65.402	65.003	-0.108	0.0	0.3	0.1
330	65.402	65.003	-0.108	0.0	0.3	0.1
336	65.402	65.003	-0.108	0.0	0.3	0.1
342	65.402	65.002	-0.108	0.0	0.3	0.1
348	65.401	65.002	-0.109	0.0	0.2	0.1
354	65.401	65.001	-0.109	0.0	0.2	0.0
360	65.400	65.000	-0.110	0.0	0.1	0.0
366	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
378	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
390	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
402	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
414	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
426	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
438	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
450	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
462	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
474	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
486	65.400	65.000	-0.110	0.0	0.0	0.0
492	65.400	65.000	-0.110	0.0	0.0	0.0
498	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
510	65.400	65.000	-0.110	0.0	0.0	0.0
516	65.400	65.000	-0.110	0.0	0.0	0.0
522	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
534	65.400	65.000	-0.110	0.0	0.0	0.0
540	65.400	65.000	-0.110	0.0	0.0	0.0
546	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
558	65.400	65.000	-0.110	0.0	0.0	0.0
564	65.400	65.000	-0.110	0.0	0.0	0.0
570	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
582	65.400	65.000	-0.110	0.0	0.0	0.0
588	65.400	65.000	-0.110	0.0	0.0	0.0
594	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.400	65.000	-0.110	0.0	0.0	0.0
612	65.400	65.000	-0.110	0.0	0.0	0.0
618	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
636	65.400	65.000	-0.110	0.0	0.0	0.0
642	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
654	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
666	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
678	65.400	65.000	-0.110	0.0	0.0	0.0
684	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
702	65.400	65.000	-0.110	0.0	0.0	0.0
708	65.400	65.000	-0.110	0.0	0.0	0.0
714	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	65.000	63.448	-0.110	0.0	0.1	0.0
12	65.001	63.455	-0.109	0.0	0.3	0.1
18	65.002	63.457	-0.108	0.0	0.4	0.1
24	65.002	63.458	-0.108	0.0	0.5	0.1
30	65.003	63.458	-0.107	0.0	0.6	0.1
36	65.003	63.459	-0.107	0.0	0.6	0.2
42	65.003	63.459	-0.107	0.0	0.7	0.2
48	65.003	63.459	-0.107	0.0	0.7	0.2
54	65.003	63.459	-0.107	0.0	0.7	0.2
60	65.003	63.459	-0.107	0.0	0.7	0.2
66	65.003	63.459	-0.107	0.0	0.7	0.2
72	65.003	63.459	-0.107	0.0	0.7	0.2
78	65.003	63.460	-0.107	0.0	0.7	0.2
84	65.003	63.460	-0.107	0.0	0.8	0.2
90	65.004	63.461	-0.106	0.0	0.9	0.2
96	65.004	63.463	-0.106	0.0	1.0	0.2
102	65.005	63.464	-0.105	0.0	1.1	0.3
108	65.005	63.466	-0.105	0.0	1.2	0.3
114	65.006	63.467	-0.104	0.0	1.4	0.3
120	65.007	63.468	-0.103	0.0	1.6	0.4
126	65.008	63.470	-0.102	0.0	1.5	0.4
132	65.009	63.472	-0.101	0.0	1.4	0.5
138	65.010	63.473	-0.100	0.0	1.3	0.6
144	65.011	63.475	-0.099	0.0	1.3	0.6
150	65.011	63.477	-0.099	0.0	1.3	0.7
156	65.012	63.478	-0.098	0.0	1.4	0.7
162	65.012	63.479	-0.098	0.0	1.4	0.8
168	65.012	63.480	-0.098	0.0	1.5	0.8
174	65.012	63.481	-0.098	0.0	1.5	0.9
180	65.013	63.481	-0.097	0.0	1.5	0.9
186	65.013	63.487	-0.097	0.0	1.5	0.9
192	65.012	63.503	-0.098	0.0	1.5	0.9
198	65.012	63.519	-0.098	0.0	1.5	0.8
204	65.012	63.534	-0.098	0.0	1.4	0.8
210	65.012	63.548	-0.098	0.0	1.4	0.7
216	65.011	63.560	-0.099	0.0	1.3	0.7
222	65.011	63.571	-0.099	0.0	1.3	0.6
228	65.010	63.581	-0.100	0.0	1.3	0.6
234	65.009	63.590	-0.101	0.0	1.4	0.5
240	65.008	63.598	-0.102	0.0	1.5	0.4
246	65.007	63.604	-0.103	0.0	1.6	0.4
252	65.006	63.610	-0.104	0.0	1.5	0.4
258	65.005	63.614	-0.105	0.0	1.3	0.3
264	65.005	63.618	-0.105	0.0	1.1	0.3
270	65.004	63.622	-0.106	0.0	1.0	0.2
276	65.004	63.624	-0.106	0.0	0.9	0.2
282	65.003	63.627	-0.107	0.0	0.8	0.2
288	65.003	63.629	-0.107	0.0	0.7	0.2
294	65.003	63.631	-0.107	0.0	0.7	0.2
300	65.003	63.633	-0.107	0.0	0.7	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	65.003	63.635	-0.107	0.0	0.7	0.2
312	65.003	63.637	-0.107	0.0	0.7	0.2
318	65.003	63.639	-0.107	0.0	0.7	0.2
324	65.003	63.641	-0.107	0.0	0.7	0.2
330	65.003	63.644	-0.107	0.0	0.6	0.2
336	65.003	63.646	-0.107	0.0	0.6	0.1
342	65.002	63.647	-0.108	0.0	0.6	0.1
348	65.002	63.648	-0.108	0.0	0.5	0.1
354	65.001	63.649	-0.109	0.0	0.3	0.1
360	65.000	63.648	-0.110	0.0	0.1	0.0
366	65.000	63.647	-0.110	0.0	0.0	0.0
372	65.000	63.646	-0.110	0.0	0.0	0.0
378	65.000	63.646	-0.110	0.0	0.0	0.0
384	65.000	63.644	-0.110	0.0	0.0	0.0
390	65.000	63.643	-0.110	0.0	0.0	0.0
396	65.000	63.642	-0.110	0.0	0.0	0.0
402	65.000	63.641	-0.110	0.0	0.0	0.0
408	65.000	63.640	-0.110	0.0	0.0	0.0
414	65.000	63.640	-0.110	0.0	0.0	0.0
420	65.000	63.638	-0.110	0.0	0.0	0.0
426	65.000	63.637	-0.110	0.0	0.0	0.0
432	65.000	63.636	-0.110	0.0	0.0	0.0
438	65.000	63.635	-0.110	0.0	0.0	0.0
444	65.000	63.634	-0.110	0.0	0.0	0.0
450	65.000	63.633	-0.110	0.0	0.0	0.0
456	65.000	63.632	-0.110	0.0	0.0	0.0
462	65.000	63.632	-0.110	0.0	0.0	0.0
468	65.000	63.630	-0.110	0.0	0.0	0.0
474	65.000	63.629	-0.110	0.0	0.0	0.0
480	65.000	63.629	-0.110	0.0	0.0	0.0
486	65.000	63.628	-0.110	0.0	0.0	0.0
492	65.000	63.627	-0.110	0.0	0.0	0.0
498	65.000	63.626	-0.110	0.0	0.0	0.0
504	65.000	63.625	-0.110	0.0	0.0	0.0
510	65.000	63.624	-0.110	0.0	0.0	0.0
516	65.000	63.623	-0.110	0.0	0.0	0.0
522	65.000	63.622	-0.110	0.0	0.0	0.0
528	65.000	63.621	-0.110	0.0	0.0	0.0
534	65.000	63.621	-0.110	0.0	0.0	0.0
540	65.000	63.619	-0.110	0.0	0.0	0.0
546	65.000	63.619	-0.110	0.0	0.0	0.0
552	65.000	63.618	-0.110	0.0	0.0	0.0
558	65.000	63.616	-0.110	0.0	0.0	0.0
564	65.000	63.616	-0.110	0.0	0.0	0.0
570	65.000	63.615	-0.110	0.0	0.0	0.0
576	65.000	63.614	-0.110	0.0	0.0	0.0
582	65.000	63.613	-0.110	0.0	0.0	0.0
588	65.000	63.612	-0.110	0.0	0.0	0.0
594	65.000	63.611	-0.110	0.0	0.0	0.0
600	65.000	63.610	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	65.000	63.610	-0.110	0.0	0.0	0.0
612	65.000	63.609	-0.110	0.0	0.0	0.0
618	65.000	63.608	-0.110	0.0	0.0	0.0
624	65.000	63.607	-0.110	0.0	0.0	0.0
630	65.000	63.606	-0.110	0.0	0.0	0.0
636	65.000	63.605	-0.110	0.0	0.0	0.0
642	65.000	63.604	-0.110	0.0	0.0	0.0
648	65.000	63.603	-0.110	0.0	0.0	0.0
654	65.000	63.602	-0.110	0.0	0.0	0.0
660	65.000	63.601	-0.110	0.0	0.0	0.0
666	65.000	63.600	-0.110	0.0	0.0	0.0
672	65.000	63.600	-0.110	0.0	0.0	0.0
678	65.000	63.599	-0.110	0.0	0.0	0.0
684	65.000	63.598	-0.110	0.0	0.0	0.0
690	65.000	63.597	-0.110	0.0	0.0	0.0
696	65.000	63.596	-0.110	0.0	0.0	0.0
702	65.000	63.595	-0.110	0.0	0.0	0.0
708	65.000	63.594	-0.110	0.0	0.0	0.0
714	65.000	63.593	-0.110	0.0	0.0	0.0
720	65.000	63.592	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.448	63.250	-0.106	0.0	0.2	0.0
12	63.455	63.252	-0.099	0.0	0.3	0.1
18	63.457	63.253	-0.098	0.0	0.3	0.2
24	63.458	63.256	-0.096	0.0	0.4	0.3
30	63.458	63.259	-0.096	0.0	0.4	0.3
36	63.459	63.263	-0.095	0.0	0.4	0.3
42	63.459	63.266	-0.095	0.0	0.4	0.3
48	63.459	63.269	-0.095	0.0	0.4	0.3
54	63.459	63.272	-0.095	0.0	0.4	0.3
60	63.459	63.275	-0.095	0.0	0.4	0.3
66	63.459	63.278	-0.095	0.0	0.4	0.3
72	63.459	63.281	-0.095	0.0	0.4	0.3
78	63.460	63.284	-0.094	0.0	0.4	0.3
84	63.460	63.287	-0.094	0.0	0.4	0.4
90	63.461	63.290	-0.093	0.0	0.4	0.4
96	63.463	63.294	-0.092	0.0	0.5	0.5
102	63.464	63.299	-0.090	0.0	0.5	0.5
108	63.466	63.304	-0.089	0.0	0.5	0.6
114	63.467	63.310	-0.087	0.0	0.5	0.7
120	63.468	63.318	-0.086	0.0	0.5	0.8
126	63.470	63.327	-0.084	0.0	0.5	0.9
132	63.472	63.336	-0.083	0.0	0.5	1.0
138	63.473	63.347	-0.081	0.0	0.6	1.1
144	63.475	63.359	-0.079	0.0	0.6	1.2
150	63.477	63.372	-0.078	0.0	0.6	1.3
156	63.478	63.388	-0.076	0.0	0.6	1.5
162	63.479	63.406	-0.075	0.0	0.6	1.6
168	63.480	63.424	-0.074	0.0	0.6	1.7
174	63.481	63.442	-0.073	0.0	0.6	1.7
180	63.481	63.461	-0.073	0.0	0.6	1.8
186	63.487	63.480	-0.067	0.0	0.6	1.8
192	63.503	63.497	-0.051	0.0	0.4	1.7
198	63.519	63.514	-0.035	0.0	0.3	1.6
204	63.534	63.529	-0.020	0.0	0.2	1.5
210	63.548	63.543	-0.006	0.0	0.2	1.4
216	63.560	63.556	0.006	0.0	0.1	1.3
222	63.571	63.567	0.017	0.0	0.1	1.2
228	63.581	63.578	0.027	0.0	0.1	1.1
234	63.590	63.587	0.036	0.0	0.1	1.0
240	63.598	63.595	0.044	0.0	0.1	0.9
246	63.604	63.602	0.050	0.0	0.1	0.8
252	63.610	63.608	0.056	0.0	0.1	0.7
258	63.614	63.613	0.060	0.0	0.1	0.6
264	63.618	63.617	0.064	0.0	0.1	0.5
270	63.622	63.620	0.068	0.0	0.0	0.5
276	63.624	63.623	0.070	0.0	0.0	0.4
282	63.627	63.626	0.073	0.0	0.0	0.4
288	63.629	63.628	0.075	0.0	0.0	0.4
294	63.631	63.630	0.077	0.0	0.0	0.3
300	63.633	63.632	0.079	0.0	0.0	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.635	63.634	0.081	0.0	0.0	0.3
312	63.637	63.636	0.083	0.0	0.0	0.3
318	63.639	63.638	0.085	0.0	0.0	0.3
324	63.641	63.640	0.087	0.0	0.0	0.3
330	63.644	63.643	0.089	0.0	0.0	0.3
336	63.646	63.645	0.091	0.0	0.0	0.3
342	63.647	63.646	0.093	0.0	0.0	0.3
348	63.648	63.648	0.094	0.0	0.0	0.2
354	63.649	63.648	0.095	0.0	0.0	0.2
360	63.648	63.648	0.094	0.0	0.0	0.1
366	63.647	63.647	0.093	0.0	0.0	0.0
372	63.646	63.646	0.092	0.0	0.0	0.0
378	63.646	63.645	0.092	0.0	0.0	0.0
384	63.644	63.644	0.090	0.0	0.0	0.0
390	63.643	63.643	0.089	0.0	0.0	0.0
396	63.642	63.642	0.088	0.0	0.0	0.0
402	63.641	63.641	0.087	0.0	0.0	0.0
408	63.640	63.640	0.086	0.0	0.0	0.0
414	63.640	63.639	0.086	0.0	0.0	0.0
420	63.638	63.638	0.084	0.0	0.0	0.0
426	63.637	63.637	0.083	0.0	0.0	0.0
432	63.636	63.636	0.082	0.0	0.0	0.0
438	63.635	63.635	0.081	0.0	0.0	0.0
444	63.634	63.634	0.080	0.0	0.0	0.0
450	63.633	63.633	0.079	0.0	0.0	0.0
456	63.632	63.632	0.078	0.0	0.0	0.0
462	63.632	63.632	0.078	0.0	0.0	0.0
468	63.630	63.631	0.076	0.0	0.0	0.0
474	63.629	63.630	0.075	0.0	0.0	0.0
480	63.629	63.629	0.074	0.0	0.0	0.0
486	63.628	63.628	0.073	0.0	0.0	0.0
492	63.627	63.627	0.073	0.0	0.0	0.0
498	63.626	63.626	0.072	0.0	0.0	0.0
504	63.625	63.625	0.071	0.0	0.0	0.0
510	63.624	63.624	0.070	0.0	0.0	0.0
516	63.623	63.623	0.069	0.0	0.0	0.0
522	63.622	63.622	0.068	0.0	0.0	0.0
528	63.621	63.621	0.067	0.0	0.0	0.0
534	63.621	63.621	0.067	0.0	0.0	0.0
540	63.619	63.620	0.065	0.0	0.0	0.0
546	63.619	63.619	0.065	0.0	0.0	0.0
552	63.618	63.618	0.064	0.0	0.0	0.0
558	63.616	63.617	0.062	0.0	0.0	0.0
564	63.616	63.616	0.062	0.0	0.0	0.0
570	63.615	63.615	0.061	0.0	0.0	0.0
576	63.614	63.614	0.060	0.0	0.0	0.0
582	63.613	63.613	0.059	0.0	0.0	0.0
588	63.612	63.612	0.058	0.0	0.0	0.0
594	63.611	63.611	0.057	0.0	0.0	0.0
600	63.610	63.611	0.056	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.610	0.056	0.0	0.0	0.0
612	63.609	63.609	0.054	0.0	0.0	0.0
618	63.608	63.608	0.053	0.0	0.0	0.0
624	63.607	63.607	0.053	0.0	0.0	0.0
630	63.606	63.606	0.052	0.0	0.0	0.0
636	63.605	63.605	0.051	0.0	0.0	0.0
642	63.604	63.604	0.050	0.0	0.0	0.0
648	63.603	63.603	0.049	0.0	0.0	0.0
654	63.602	63.602	0.048	0.0	0.0	0.0
660	63.601	63.602	0.047	0.0	0.0	0.0
666	63.600	63.601	0.046	0.0	0.0	0.0
672	63.600	63.600	0.045	0.0	0.0	0.0
678	63.599	63.599	0.044	0.0	0.0	0.0
684	63.598	63.598	0.044	0.0	0.0	0.0
690	63.597	63.597	0.043	0.0	0.0	0.0
696	63.596	63.596	0.042	0.0	0.0	0.0
702	63.595	63.595	0.041	0.0	0.0	0.0
708	63.594	63.594	0.040	0.0	0.0	0.0
714	63.593	63.593	0.039	0.0	0.0	0.0
720	63.592	63.593	0.038	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.250	63.100	-0.110	0.0	0.0	0.0
12	63.252	63.100	-0.108	0.0	0.0	0.0
18	63.253	63.100	-0.107	0.0	0.0	0.0
24	63.256	63.101	-0.104	0.0	0.0	0.0
30	63.259	63.102	-0.101	0.0	0.1	0.0
36	63.263	63.104	-0.097	0.0	0.1	0.0
42	63.266	63.106	-0.094	0.0	0.1	0.0
48	63.269	63.110	-0.091	0.0	0.2	0.0
54	63.272	63.115	-0.088	0.0	0.2	0.1
60	63.275	63.120	-0.085	0.0	0.2	0.1
66	63.278	63.125	-0.082	0.0	0.3	0.1
72	63.281	63.131	-0.079	0.0	0.3	0.1
78	63.284	63.136	-0.076	0.0	0.3	0.1
84	63.287	63.141	-0.073	0.0	0.3	0.1
90	63.290	63.146	-0.070	0.0	0.3	0.1
96	63.294	63.151	-0.066	0.0	0.3	0.1
102	63.299	63.157	-0.061	0.0	0.3	0.1
108	63.304	63.163	-0.056	0.0	0.3	0.1
114	63.310	63.171	-0.050	0.0	0.3	0.1
120	63.318	63.180	-0.042	0.0	0.3	0.1
126	63.327	63.190	-0.033	0.0	0.3	0.2
132	63.336	63.200	-0.024	0.0	0.3	0.2
138	63.347	63.212	-0.013	0.0	0.3	0.2
144	63.359	63.224	-0.001	0.0	0.3	0.2
150	63.372	63.238	0.012	0.0	0.3	0.2
156	63.388	63.251	0.028	0.0	0.3	0.2
162	63.406	63.253	0.046	0.0	0.3	0.1
168	63.424	63.257	0.064	0.0	0.3	0.1
174	63.442	63.265	0.082	0.0	0.3	0.1
180	63.461	63.275	0.101	0.0	0.3	0.2
186	63.480	63.287	0.120	0.0	0.3	0.2
192	63.497	63.301	0.137	0.0	0.3	0.2
198	63.514	63.318	0.154	0.0	0.4	0.2
204	63.529	63.336	0.169	0.0	0.4	0.2
210	63.543	63.355	0.183	0.0	0.4	0.3
216	63.556	63.374	0.196	0.0	0.4	0.3
222	63.567	63.392	0.207	0.0	0.4	0.2
228	63.578	63.409	0.218	0.0	0.3	0.2
234	63.587	63.425	0.227	0.0	0.1	0.2
240	63.595	63.440	0.235	0.0	0.1	0.2
246	63.602	63.454	0.242	0.0	0.0	0.2
252	63.608	63.467	0.248	0.0	0.0	0.2
258	63.613	63.479	0.253	0.0	0.0	0.2
264	63.617	63.490	0.257	0.0	0.0	0.2
270	63.620	63.500	0.260	0.0	0.0	0.2
276	63.623	63.510	0.263	0.0	0.0	0.2
282	63.626	63.518	0.266	0.0	0.0	0.2
288	63.628	63.525	0.268	0.0	0.0	0.2
294	63.630	63.532	0.270	0.0	0.0	0.2
300	63.632	63.539	0.272	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.634	63.544	0.274	0.0	0.0	0.1
312	63.636	63.549	0.276	0.0	0.0	0.1
318	63.638	63.554	0.278	0.0	0.0	0.1
324	63.640	63.558	0.280	0.0	0.0	0.1
330	63.643	63.562	0.283	0.0	0.0	0.1
336	63.645	63.565	0.285	0.0	0.0	0.1
342	63.646	63.569	0.286	0.0	0.0	0.1
348	63.648	63.571	0.288	0.0	0.0	0.1
354	63.648	63.574	0.288	0.0	0.0	0.1
360	63.648	63.576	0.288	0.0	0.0	0.1
366	63.647	63.578	0.287	0.0	0.0	0.1
372	63.646	63.580	0.286	0.0	0.0	0.1
378	63.645	63.581	0.285	0.0	0.0	0.1
384	63.644	63.582	0.284	0.0	0.0	0.1
390	63.643	63.582	0.283	0.0	0.0	0.1
396	63.642	63.582	0.282	0.0	0.0	0.1
402	63.641	63.583	0.281	0.0	0.0	0.1
408	63.640	63.582	0.280	0.0	0.0	0.1
414	63.639	63.582	0.279	0.0	0.0	0.1
420	63.638	63.582	0.278	0.0	0.0	0.1
426	63.637	63.581	0.277	0.0	0.0	0.1
432	63.636	63.581	0.276	0.0	0.0	0.1
438	63.635	63.580	0.275	0.0	0.0	0.1
444	63.634	63.580	0.274	0.0	0.0	0.1
450	63.633	63.579	0.273	0.0	0.0	0.1
456	63.632	63.578	0.272	0.0	0.0	0.1
462	63.632	63.578	0.272	0.0	0.0	0.1
468	63.631	63.577	0.271	0.0	0.0	0.1
474	63.630	63.576	0.270	0.0	0.0	0.1
480	63.629	63.575	0.269	0.0	0.0	0.1
486	63.628	63.574	0.268	0.0	0.0	0.1
492	63.627	63.574	0.267	0.0	0.0	0.1
498	63.626	63.573	0.266	0.0	0.0	0.1
504	63.625	63.572	0.265	0.0	0.0	0.1
510	63.624	63.571	0.264	0.0	0.0	0.1
516	63.623	63.570	0.263	0.0	0.0	0.1
522	63.622	63.569	0.262	0.0	0.0	0.1
528	63.621	63.568	0.261	0.0	0.0	0.1
534	63.621	63.568	0.261	0.0	0.0	0.1
540	63.620	63.567	0.260	0.0	0.0	0.1
546	63.619	63.566	0.259	0.0	0.0	0.1
552	63.618	63.565	0.258	0.0	0.0	0.1
558	63.617	63.564	0.257	0.0	0.0	0.1
564	63.616	63.563	0.256	0.0	0.0	0.1
570	63.615	63.562	0.255	0.0	0.0	0.1
576	63.614	63.561	0.254	0.0	0.0	0.1
582	63.613	63.561	0.253	0.0	0.0	0.1
588	63.612	63.560	0.252	0.0	0.0	0.1
594	63.611	63.559	0.251	0.0	0.0	0.1
600	63.611	63.558	0.251	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.610	63.557	0.250	0.0	0.0	0.1
612	63.609	63.556	0.249	0.0	0.0	0.1
618	63.608	63.555	0.248	0.0	0.0	0.1
624	63.607	63.554	0.247	0.0	0.0	0.1
630	63.606	63.554	0.246	0.0	0.0	0.1
636	63.605	63.553	0.245	0.0	0.0	0.1
642	63.604	63.552	0.244	0.0	0.0	0.1
648	63.603	63.551	0.243	0.0	0.0	0.1
654	63.602	63.550	0.242	0.0	0.0	0.1
660	63.602	63.549	0.242	0.0	0.0	0.1
666	63.601	63.548	0.241	0.0	0.0	0.1
672	63.600	63.547	0.240	0.0	0.0	0.1
678	63.599	63.547	0.239	0.0	0.0	0.1
684	63.598	63.546	0.238	0.0	0.0	0.1
690	63.597	63.545	0.237	0.0	0.0	0.1
696	63.596	63.544	0.236	0.0	0.0	0.1
702	63.595	63.543	0.235	0.0	0.0	0.1
708	63.594	63.542	0.234	0.0	0.0	0.1
714	63.593	63.541	0.233	0.0	0.0	0.1
720	63.593	63.540	0.233	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.101	63.096	-0.109	0.0	0.0	0.0
30	63.102	63.096	-0.108	0.0	0.0	0.0
36	63.104	63.096	-0.106	0.0	0.0	0.0
42	63.106	63.096	-0.104	0.0	0.0	0.0
48	63.110	63.096	-0.100	0.0	0.0	0.0
54	63.115	63.096	-0.095	0.0	0.0	0.0
60	63.120	63.096	-0.090	0.0	0.0	0.0
66	63.125	63.096	-0.085	0.0	0.0	0.0
72	63.131	63.096	-0.079	0.0	0.0	0.0
78	63.136	63.096	-0.074	0.0	0.0	0.0
84	63.141	63.096	-0.069	0.0	0.0	0.0
90	63.146	63.096	-0.064	0.0	0.0	0.0
96	63.151	63.096	-0.059	0.0	0.0	0.0
102	63.157	63.096	-0.053	0.0	0.0	0.0
108	63.163	63.096	-0.047	0.0	0.0	0.0
114	63.171	63.096	-0.039	0.0	0.0	0.0
120	63.180	63.096	-0.030	0.0	0.0	0.0
126	63.190	63.096	-0.020	0.0	0.0	0.0
132	63.200	63.096	-0.010	0.0	0.0	0.0
138	63.212	63.096	0.002	0.0	0.0	0.0
144	63.224	63.096	0.014	0.0	0.0	0.0
150	63.238	63.096	0.028	0.0	0.0	0.0
156	63.251	63.096	0.041	0.0	0.0	0.0
162	63.253	63.096	0.043	0.0	0.0	0.0
168	63.257	63.096	0.047	0.0	0.0	0.0
174	63.265	63.096	0.055	0.0	0.0	0.0
180	63.275	63.096	0.065	0.0	0.0	0.0
186	63.287	63.096	0.077	0.0	0.0	0.0
192	63.301	63.096	0.091	0.0	0.0	0.0
198	63.318	63.096	0.108	0.0	0.0	0.0
204	63.336	63.096	0.126	0.0	0.1	0.0
210	63.355	63.096	0.145	0.0	0.1	0.0
216	63.374	63.096	0.164	0.0	0.1	0.0
222	63.392	63.096	0.182	0.0	0.1	0.0
228	63.409	63.096	0.199	0.0	0.1	0.0
234	63.425	63.096	0.215	0.0	0.1	0.0
240	63.440	63.096	0.230	0.0	0.1	0.0
246	63.454	63.096	0.244	0.0	0.1	0.0
252	63.467	63.096	0.257	0.0	0.1	0.0
258	63.479	63.096	0.269	0.0	0.1	0.0
264	63.490	63.096	0.280	0.0	0.1	0.0
270	63.500	63.096	0.290	0.0	0.1	0.0
276	63.510	63.096	0.300	0.0	0.1	0.0
282	63.518	63.096	0.308	0.0	0.1	0.0
288	63.525	63.096	0.315	0.0	0.1	0.0
294	63.532	63.096	0.322	0.0	0.1	0.0
300	63.539	63.096	0.329	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.544	63.096	0.334	0.0	0.1	0.0
312	63.549	63.096	0.339	0.0	0.1	0.0
318	63.554	63.096	0.344	0.0	0.1	0.0
324	63.558	63.096	0.348	0.0	0.1	0.0
330	63.562	63.096	0.352	0.0	0.1	0.0
336	63.565	63.096	0.355	0.0	0.1	0.0
342	63.569	63.096	0.359	0.0	0.1	0.0
348	63.571	63.096	0.361	0.0	0.1	0.0
354	63.574	63.096	0.364	0.0	0.1	0.0
360	63.576	63.096	0.366	0.0	0.1	0.0
366	63.578	63.096	0.368	0.0	0.1	0.0
372	63.580	63.096	0.370	0.0	0.1	0.0
378	63.581	63.096	0.371	0.0	0.1	0.0
384	63.582	63.096	0.372	0.0	0.1	0.0
390	63.582	63.096	0.372	0.0	0.1	0.0
396	63.582	63.096	0.372	0.0	0.1	0.0
402	63.583	63.096	0.373	0.0	0.1	0.0
408	63.582	63.096	0.372	0.0	0.1	0.0
414	63.582	63.096	0.372	0.0	0.1	0.0
420	63.582	63.096	0.372	0.0	0.1	0.0
426	63.581	63.096	0.371	0.0	0.1	0.0
432	63.581	63.096	0.371	0.0	0.1	0.0
438	63.580	63.096	0.370	0.0	0.1	0.0
444	63.580	63.096	0.370	0.0	0.1	0.0
450	63.579	63.096	0.369	0.0	0.1	0.0
456	63.578	63.096	0.368	0.0	0.1	0.0
462	63.578	63.096	0.368	0.0	0.1	0.0
468	63.577	63.096	0.367	0.0	0.1	0.0
474	63.576	63.096	0.366	0.0	0.1	0.0
480	63.575	63.096	0.365	0.0	0.1	0.0
486	63.574	63.096	0.364	0.0	0.1	0.0
492	63.574	63.096	0.364	0.0	0.1	0.0
498	63.573	63.096	0.363	0.0	0.1	0.0
504	63.572	63.096	0.362	0.0	0.1	0.0
510	63.571	63.096	0.361	0.0	0.1	0.0
516	63.570	63.096	0.360	0.0	0.1	0.0
522	63.569	63.096	0.359	0.0	0.1	0.0
528	63.568	63.096	0.358	0.0	0.1	0.0
534	63.568	63.096	0.358	0.0	0.1	0.0
540	63.567	63.096	0.357	0.0	0.1	0.0
546	63.566	63.096	0.356	0.0	0.1	0.0
552	63.565	63.096	0.355	0.0	0.1	0.0
558	63.564	63.096	0.354	0.0	0.1	0.0
564	63.563	63.096	0.353	0.0	0.1	0.0
570	63.562	63.096	0.352	0.0	0.1	0.0
576	63.561	63.096	0.351	0.0	0.1	0.0
582	63.561	63.096	0.351	0.0	0.1	0.0
588	63.560	63.096	0.350	0.0	0.1	0.0
594	63.559	63.096	0.349	0.0	0.1	0.0
600	63.558	63.096	0.348	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year Winter
Average Rainfall Intensity 11.062 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
606	63.557	63.096	0.347	0.0	0.1	0.0
612	63.556	63.096	0.346	0.0	0.1	0.0
618	63.555	63.096	0.345	0.0	0.1	0.0
624	63.554	63.096	0.344	0.0	0.1	0.0
630	63.554	63.096	0.344	0.0	0.1	0.0
636	63.553	63.096	0.343	0.0	0.1	0.0
642	63.552	63.096	0.342	0.0	0.1	0.0
648	63.551	63.096	0.341	0.0	0.1	0.0
654	63.550	63.096	0.340	0.0	0.1	0.0
660	63.549	63.096	0.339	0.0	0.1	0.0
666	63.548	63.096	0.338	0.0	0.1	0.0
672	63.547	63.096	0.337	0.0	0.1	0.0
678	63.547	63.096	0.337	0.0	0.1	0.0
684	63.546	63.096	0.336	0.0	0.1	0.0
690	63.545	63.096	0.335	0.0	0.1	0.0
696	63.544	63.096	0.334	0.0	0.1	0.0
702	63.543	63.096	0.333	0.0	0.1	0.0
708	63.542	63.096	0.332	0.0	0.1	0.0
714	63.541	63.096	0.331	0.0	0.1	0.0
720	63.540	63.096	0.330	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	960
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	8

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	480
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 480 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.411	-0.099	0.000	0.02	0.0	0.5	OK
1.001	S1	63.665	0.061	0.000	0.16	0.0	1.1	SURCHARGED
2.000	RE2	65.412	-0.098	0.000	0.03	0.0	0.5	OK
2.001	S2	65.014	-0.096	0.000	0.04	0.0	1.1	OK
1.002	S3	63.665	0.111	0.000	0.30	0.0	2.1	SURCHARGED
1.003	S4	63.664	0.304	0.000	0.05	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.600	0.390	0.000	0.01	0.0	0.0	SURCHARGED

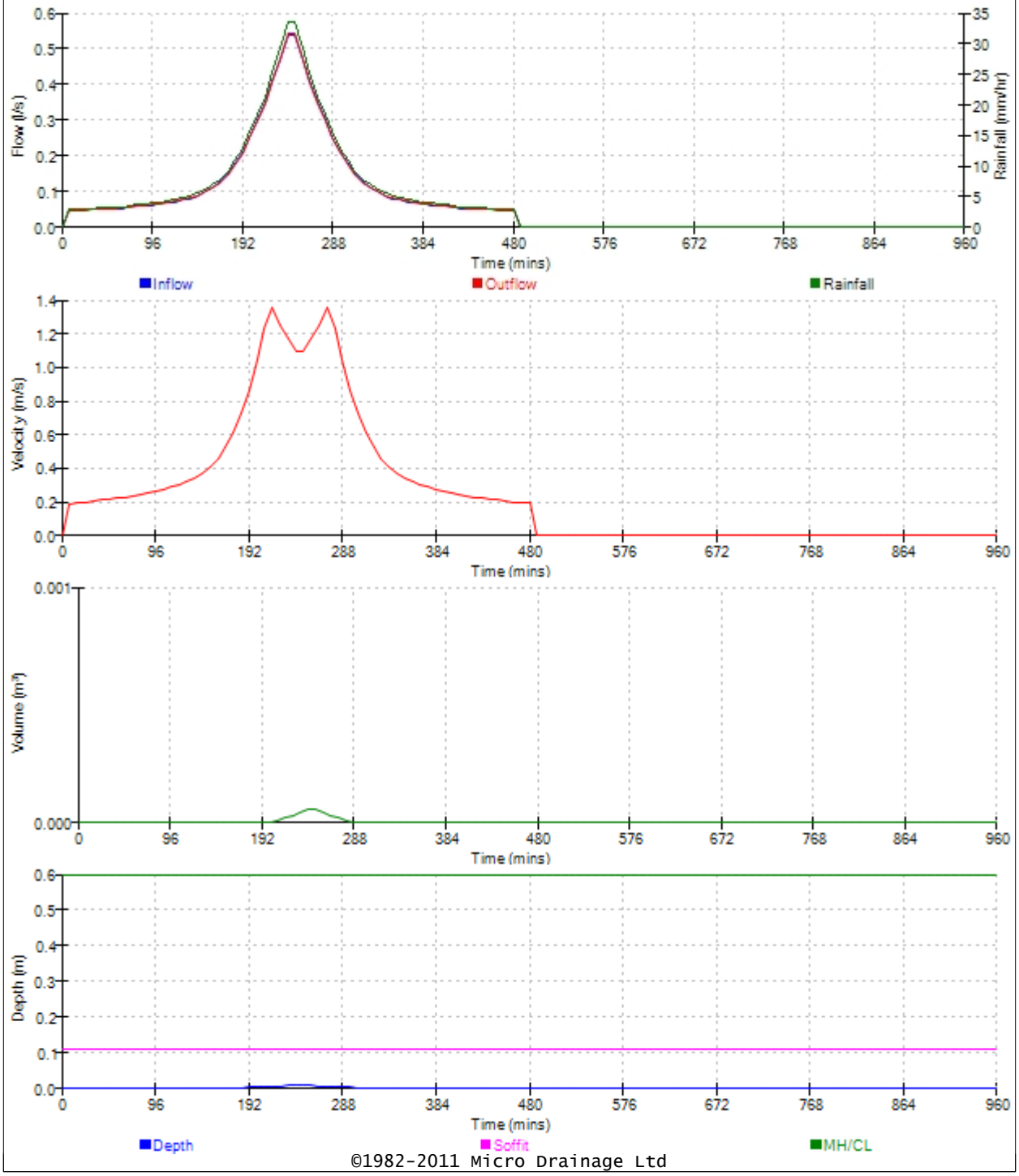
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Rainfall Hyetograph for 480 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
8	2.882	104	4.163	200	15.762	296	12.951	392	3.967
16	2.953	112	4.376	208	18.501	304	10.941	400	3.825
24	3.024	120	4.590	216	21.455	312	9.197	408	3.683
32	3.113	128	4.874	224	25.297	320	7.845	416	3.522
40	3.184	136	5.177	232	29.211	328	6.938	424	3.398
48	3.256	144	5.586	240	33.658	336	6.191	432	3.327
56	3.327	152	6.191	248	33.658	344	5.586	440	3.256
64	3.398	160	6.938	256	29.211	352	5.177	448	3.184
72	3.522	168	7.845	264	25.297	360	4.874	456	3.113
80	3.683	176	9.197	272	21.455	368	4.590	464	3.024
88	3.825	184	10.941	280	18.501	376	4.376	472	2.953
96	3.967	192	12.951	288	15.762	384	4.163	480	2.882

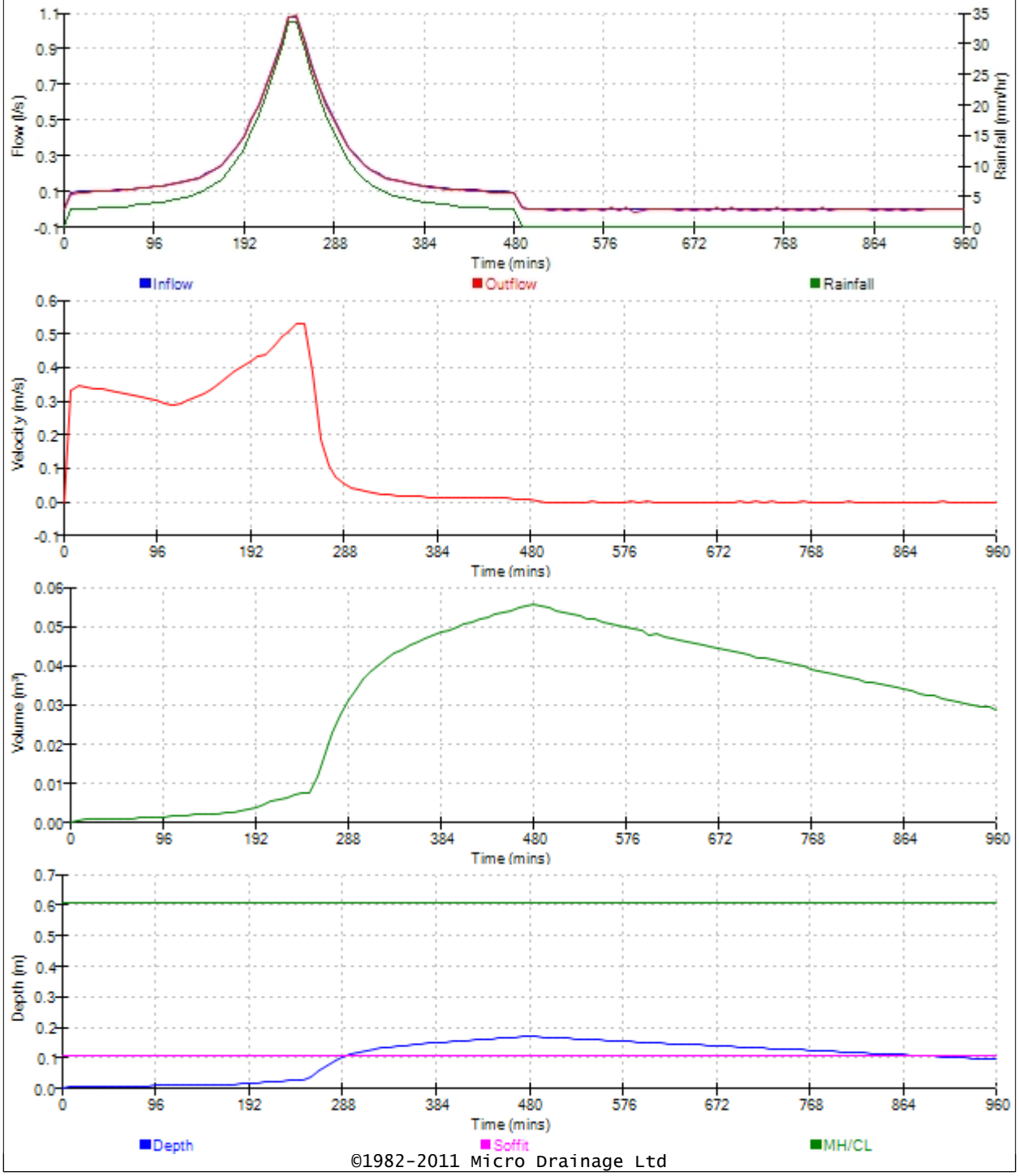
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Summer
Status: OK



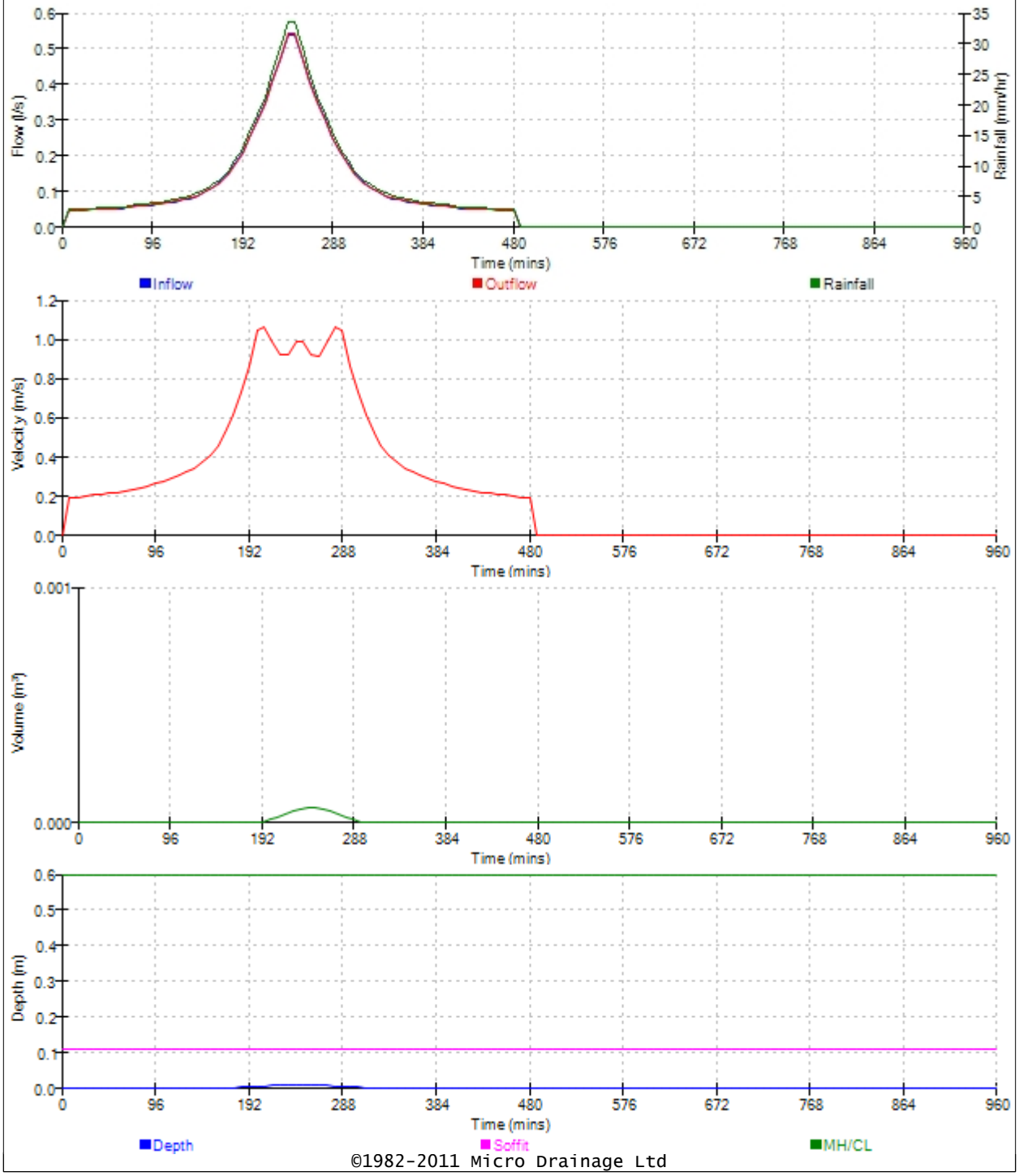
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Graphs for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Summer
Status: SURCHARGED



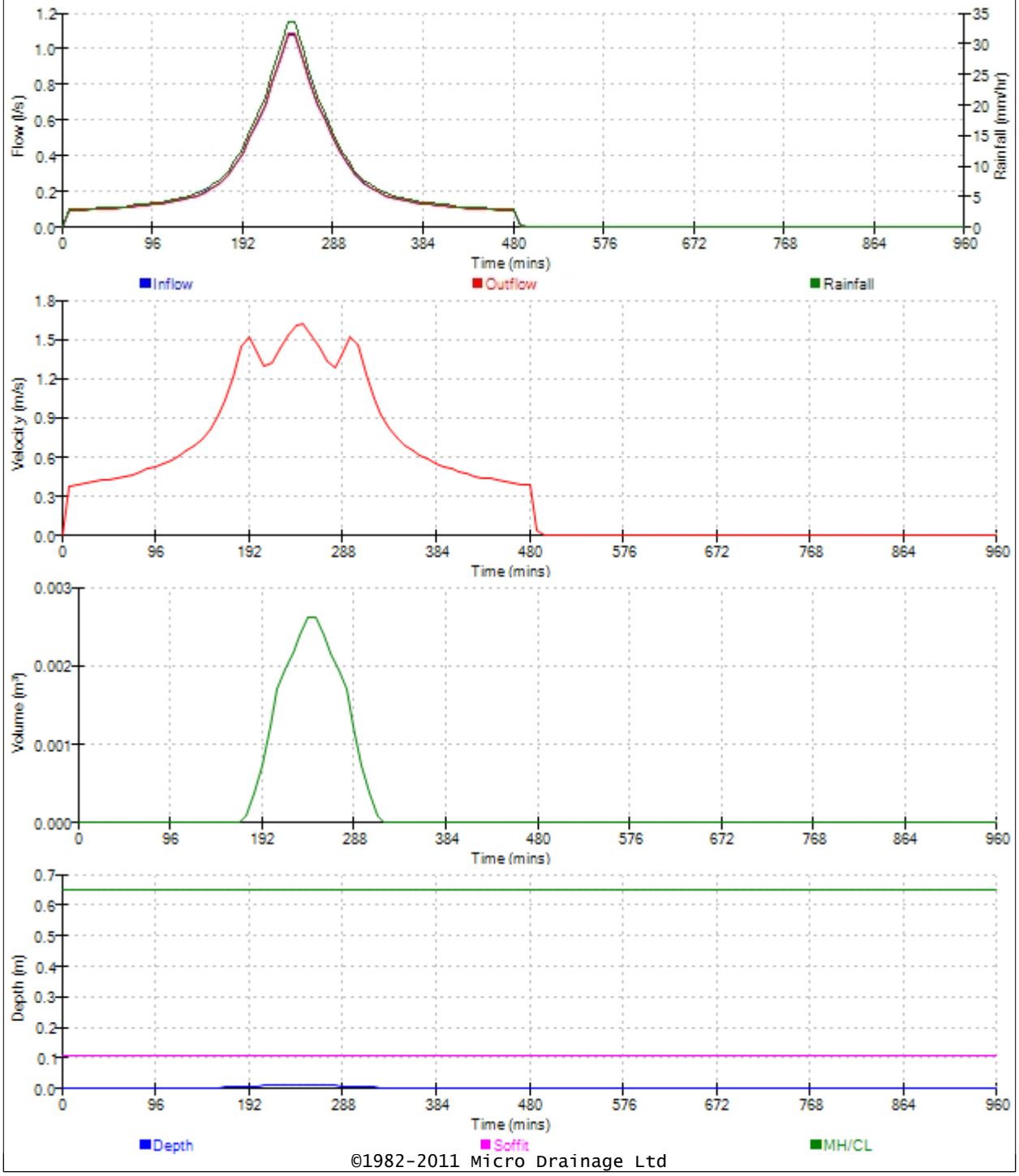
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Summer
Status: OK



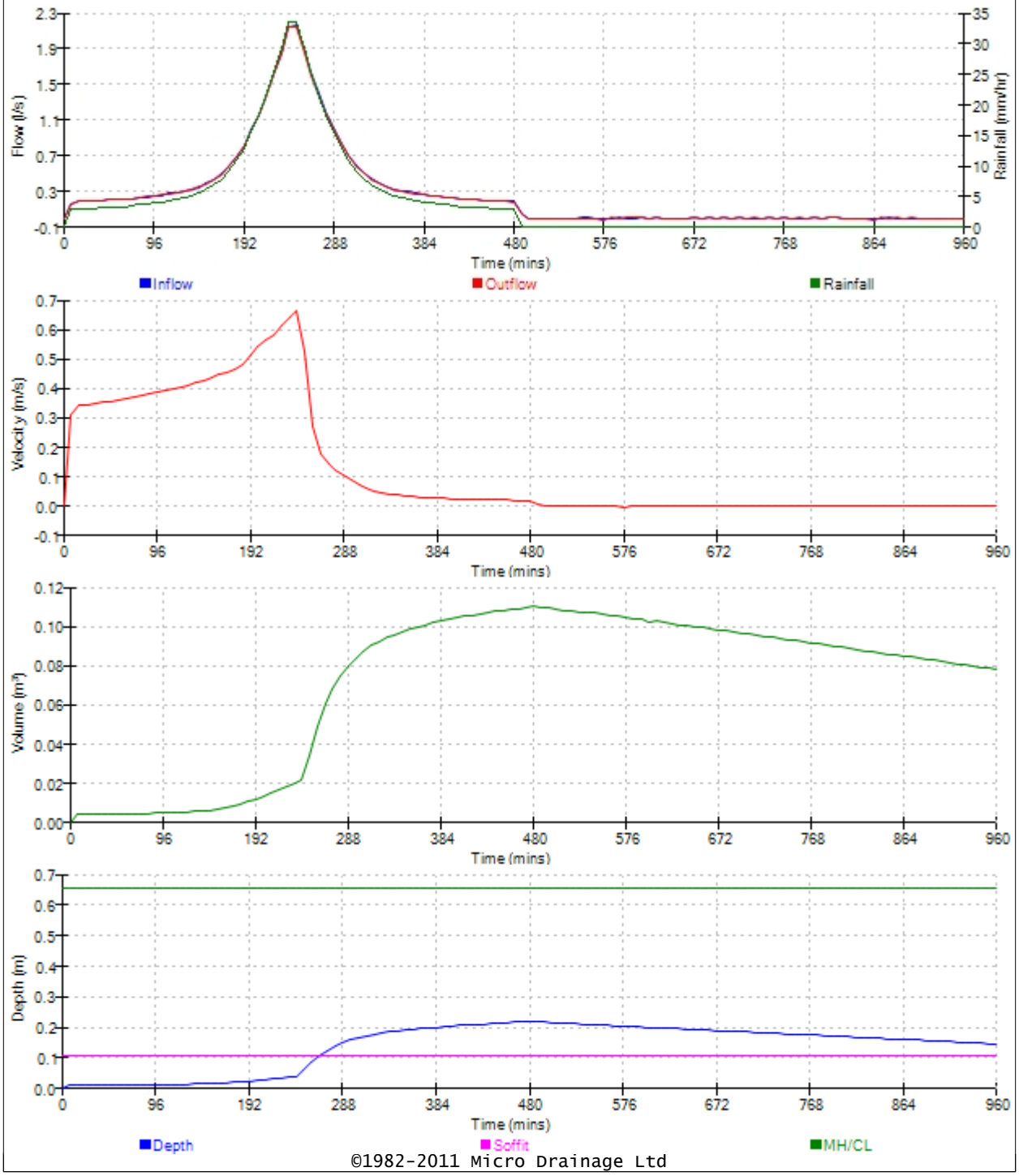
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Graphs for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Summer
Status: OK



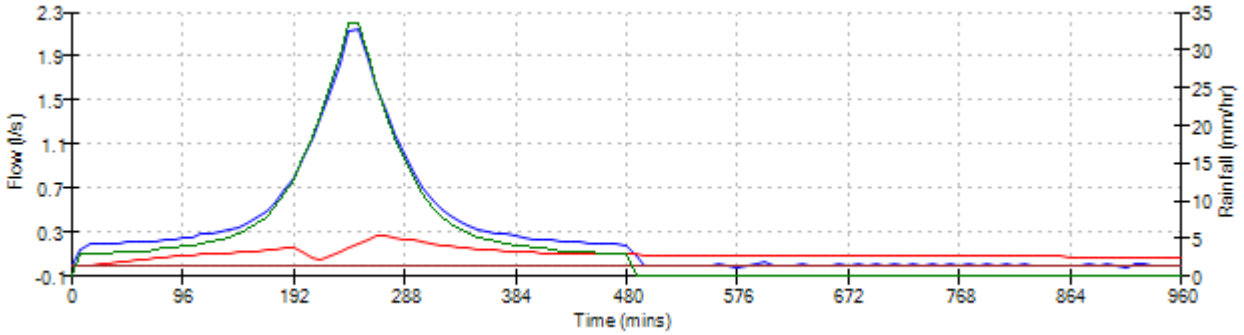
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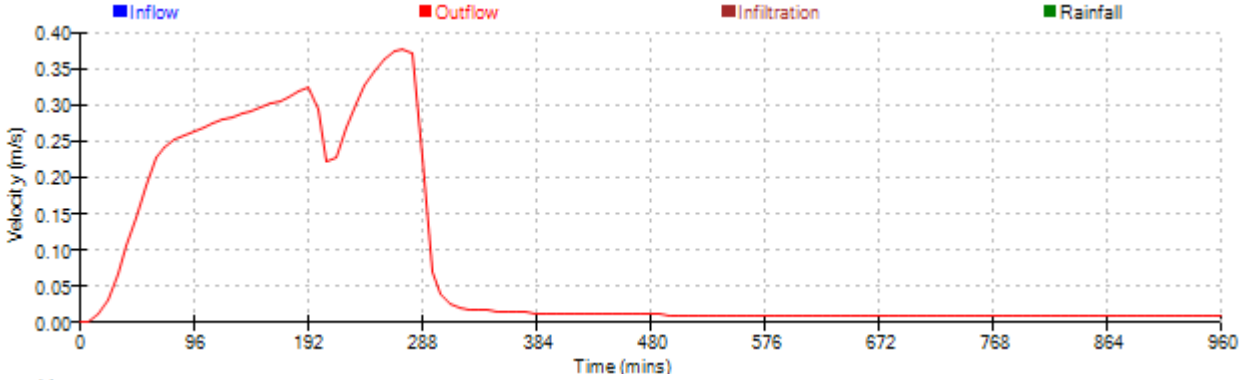
Graphs for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Summer
Status: SURCHARGED

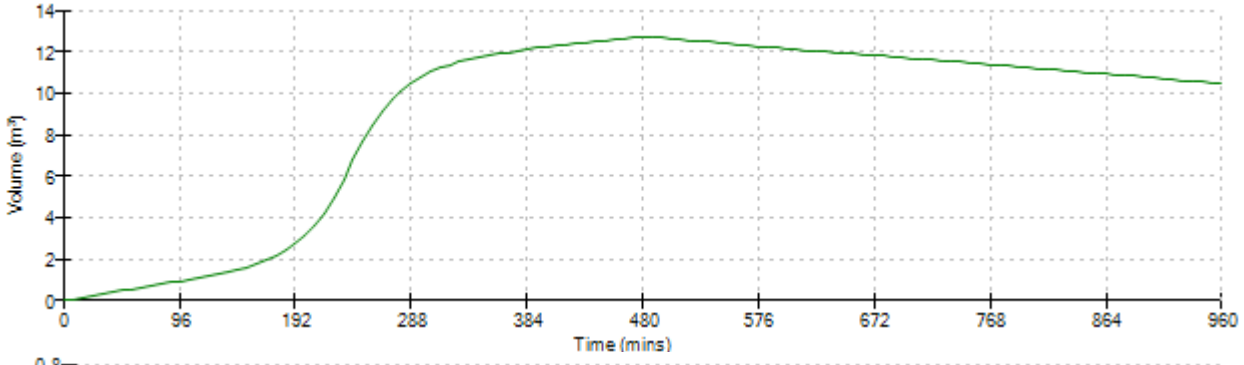


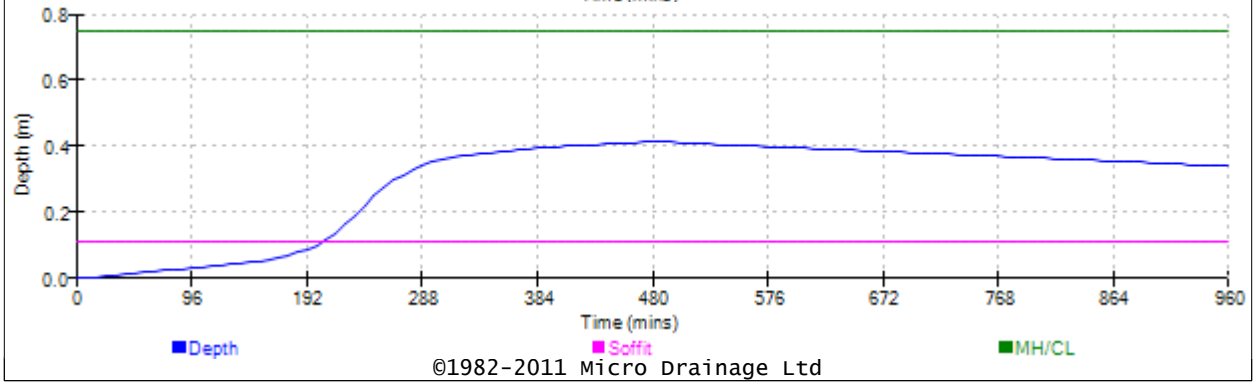
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Graphs for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Summer
Status: SURCHARGED



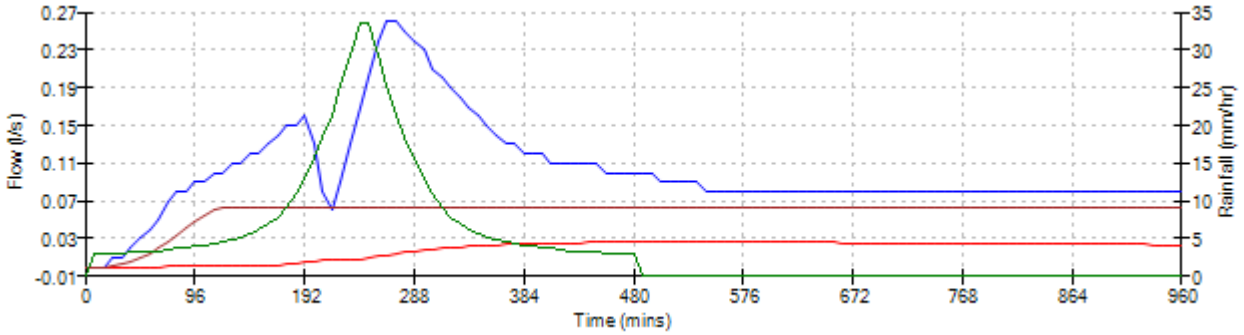


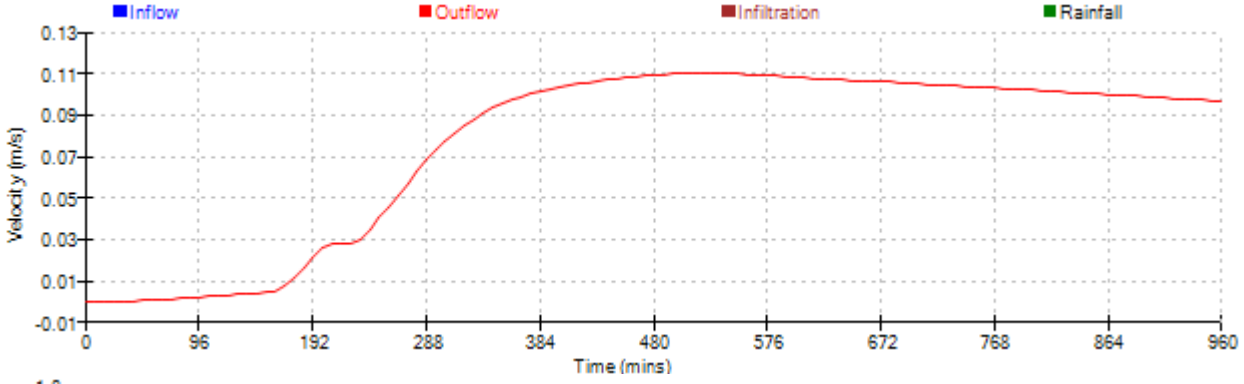


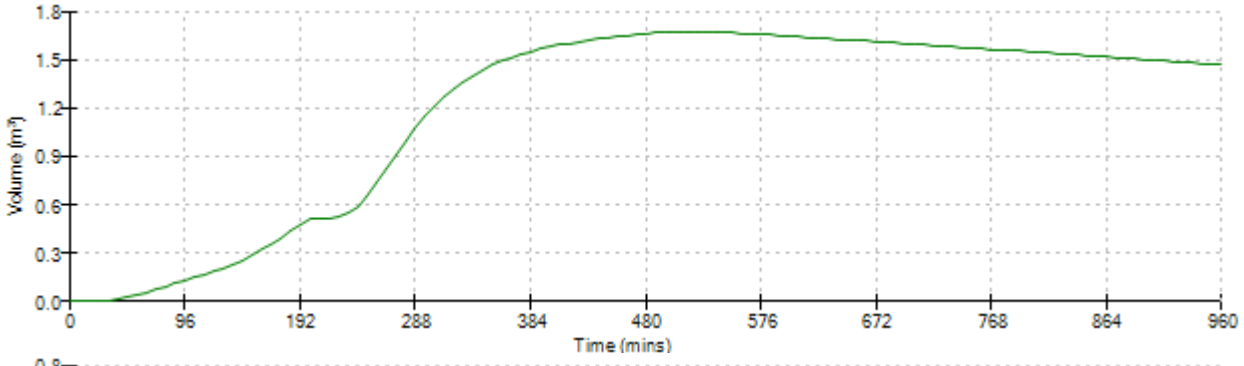


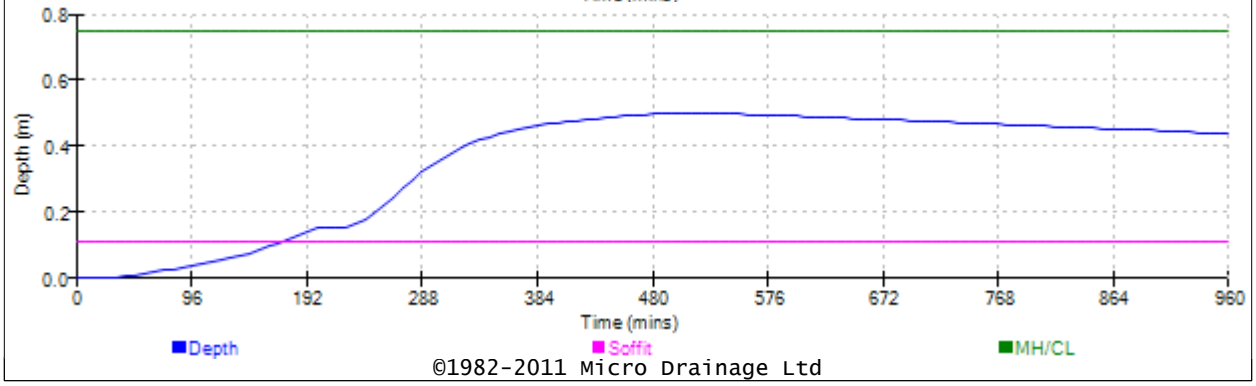
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.401	63.501	-0.109	0.0	0.2	0.0
16	65.401	63.502	-0.109	0.0	0.2	0.0
24	65.401	63.502	-0.109	0.0	0.2	0.0
32	65.401	63.502	-0.109	0.0	0.2	0.1
40	65.401	63.502	-0.109	0.0	0.2	0.1
48	65.401	63.502	-0.109	0.0	0.2	0.1
56	65.401	63.502	-0.109	0.0	0.2	0.1
64	65.401	63.503	-0.109	0.0	0.2	0.1
72	65.401	63.503	-0.109	0.0	0.2	0.1
80	65.401	63.503	-0.109	0.0	0.2	0.1
88	65.401	63.504	-0.109	0.0	0.3	0.1
96	65.401	63.504	-0.109	0.0	0.3	0.1
104	65.401	63.505	-0.109	0.0	0.3	0.1
112	65.401	63.505	-0.109	0.0	0.3	0.1
120	65.402	63.505	-0.108	0.0	0.3	0.1
128	65.402	63.505	-0.108	0.0	0.3	0.1
136	65.402	63.506	-0.108	0.0	0.3	0.1
144	65.402	63.506	-0.108	0.0	0.4	0.1
152	65.402	63.507	-0.108	0.0	0.4	0.1
160	65.402	63.507	-0.108	0.0	0.5	0.1
168	65.403	63.508	-0.107	0.0	0.5	0.1
176	65.403	63.509	-0.107	0.0	0.6	0.1
184	65.404	63.510	-0.106	0.0	0.7	0.2
192	65.404	63.512	-0.106	0.0	0.9	0.2
200	65.405	63.514	-0.105	0.0	1.0	0.3
208	65.406	63.516	-0.104	0.0	1.2	0.3
216	65.407	63.518	-0.103	0.0	1.4	0.3
224	65.408	63.519	-0.102	0.0	1.3	0.4
232	65.410	63.521	-0.100	0.0	1.2	0.5
240	65.411	63.524	-0.099	0.0	1.1	0.5
248	65.411	63.524	-0.099	0.0	1.1	0.5
256	65.410	63.536	-0.100	0.0	1.2	0.5
264	65.408	63.555	-0.102	0.0	1.3	0.4
272	65.407	63.572	-0.103	0.0	1.4	0.3
280	65.406	63.585	-0.104	0.0	1.2	0.3
288	65.405	63.597	-0.105	0.0	1.0	0.3
296	65.404	63.605	-0.106	0.0	0.9	0.2
304	65.404	63.613	-0.106	0.0	0.7	0.2
312	65.403	63.618	-0.107	0.0	0.6	0.1
320	65.403	63.623	-0.107	0.0	0.5	0.1
328	65.402	63.627	-0.108	0.0	0.5	0.1
336	65.402	63.630	-0.108	0.0	0.4	0.1
344	65.402	63.633	-0.108	0.0	0.4	0.1
352	65.402	63.636	-0.108	0.0	0.3	0.1
360	65.402	63.638	-0.108	0.0	0.3	0.1
368	65.401	63.641	-0.109	0.0	0.3	0.1
376	65.401	63.643	-0.109	0.0	0.3	0.1
384	65.401	63.645	-0.109	0.0	0.3	0.1
392	65.401	63.647	-0.109	0.0	0.3	0.1
400	65.401	63.649	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.401	63.651	-0.109	0.0	0.2	0.1
416	65.401	63.652	-0.109	0.0	0.2	0.1
424	65.401	63.654	-0.109	0.0	0.2	0.1
432	65.401	63.656	-0.109	0.0	0.2	0.1
440	65.401	63.658	-0.109	0.0	0.2	0.1
448	65.401	63.659	-0.109	0.0	0.2	0.1
456	65.401	63.661	-0.109	0.0	0.2	0.1
464	65.401	63.662	-0.109	0.0	0.2	0.0
472	65.401	63.664	-0.109	0.0	0.2	0.0
480	65.401	63.665	-0.109	0.0	0.2	0.0
488	65.400	63.664	-0.110	0.0	0.0	0.0
496	65.400	63.662	-0.110	0.0	0.0	0.0
504	65.400	63.661	-0.110	0.0	0.0	0.0
512	65.400	63.659	-0.110	0.0	0.0	0.0
520	65.400	63.658	-0.110	0.0	0.0	0.0
528	65.400	63.656	-0.110	0.0	0.0	0.0
536	65.400	63.655	-0.110	0.0	0.0	0.0
544	65.400	63.654	-0.110	0.0	0.0	0.0
552	65.400	63.653	-0.110	0.0	0.0	0.0
560	65.400	63.651	-0.110	0.0	0.0	0.0
568	65.400	63.649	-0.110	0.0	0.0	0.0
576	65.400	63.649	-0.110	0.0	0.0	0.0
584	65.400	63.648	-0.110	0.0	0.0	0.0
592	65.400	63.646	-0.110	0.0	0.0	0.0
600	65.400	63.644	-0.110	0.0	0.0	0.0
608	65.400	63.644	-0.110	0.0	0.0	0.0
616	65.400	63.642	-0.110	0.0	0.0	0.0
624	65.400	63.641	-0.110	0.0	0.0	0.0
632	65.400	63.640	-0.110	0.0	0.0	0.0
640	65.400	63.639	-0.110	0.0	0.0	0.0
648	65.400	63.637	-0.110	0.0	0.0	0.0
656	65.400	63.637	-0.110	0.0	0.0	0.0
664	65.400	63.635	-0.110	0.0	0.0	0.0
672	65.400	63.634	-0.110	0.0	0.0	0.0
680	65.400	63.633	-0.110	0.0	0.0	0.0
688	65.400	63.632	-0.110	0.0	0.0	0.0
696	65.400	63.631	-0.110	0.0	0.0	0.0
704	65.400	63.629	-0.110	0.0	0.0	0.0
712	65.400	63.628	-0.110	0.0	0.0	0.0
720	65.400	63.627	-0.110	0.0	0.0	0.0
728	65.400	63.625	-0.110	0.0	0.0	0.0
736	65.400	63.624	-0.110	0.0	0.0	0.0
744	65.400	63.623	-0.110	0.0	0.0	0.0
752	65.400	63.622	-0.110	0.0	0.0	0.0
760	65.400	63.621	-0.110	0.0	0.0	0.0
768	65.400	63.619	-0.110	0.0	0.0	0.0
776	65.400	63.618	-0.110	0.0	0.0	0.0
784	65.400	63.617	-0.110	0.0	0.0	0.0
792	65.400	63.616	-0.110	0.0	0.0	0.0
800	65.400	63.615	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.400	63.614	-0.110	0.0	0.0	0.0
816	65.400	63.612	-0.110	0.0	0.0	0.0
824	65.400	63.610	-0.110	0.0	0.0	0.0
832	65.400	63.610	-0.110	0.0	0.0	0.0
840	65.400	63.608	-0.110	0.0	0.0	0.0
848	65.400	63.607	-0.110	0.0	0.0	0.0
856	65.400	63.606	-0.110	0.0	0.0	0.0
864	65.400	63.605	-0.110	0.0	0.0	0.0
872	65.400	63.604	-0.110	0.0	0.0	0.0
880	65.400	63.602	-0.110	0.0	0.0	0.0
888	65.400	63.601	-0.110	0.0	0.0	0.0
896	65.400	63.601	-0.110	0.0	0.0	0.0
904	65.400	63.598	-0.110	0.0	0.0	0.0
912	65.400	63.597	-0.110	0.0	0.0	0.0
920	65.400	63.595	-0.110	0.0	0.0	0.0
928	65.400	63.595	-0.110	0.0	0.0	0.0
936	65.400	63.593	-0.110	0.0	0.0	0.0
944	65.400	63.592	-0.110	0.0	0.0	0.0
952	65.400	63.591	-0.110	0.0	0.0	0.0
960	65.400	63.590	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.501	63.456	-0.103	0.0	0.3	0.1
16	63.502	63.456	-0.103	0.0	0.3	0.1
24	63.502	63.456	-0.102	0.0	0.3	0.1
32	63.502	63.456	-0.102	0.0	0.3	0.1
40	63.502	63.456	-0.102	0.0	0.3	0.1
48	63.502	63.456	-0.102	0.0	0.3	0.1
56	63.502	63.457	-0.102	0.0	0.3	0.1
64	63.503	63.457	-0.102	0.0	0.3	0.1
72	63.503	63.457	-0.101	0.0	0.3	0.1
80	63.503	63.457	-0.101	0.0	0.3	0.1
88	63.504	63.457	-0.100	0.0	0.3	0.1
96	63.504	63.458	-0.100	0.0	0.3	0.1
104	63.505	63.458	-0.100	0.0	0.3	0.1
112	63.505	63.458	-0.099	0.0	0.3	0.1
120	63.505	63.458	-0.099	0.0	0.3	0.1
128	63.505	63.459	-0.099	0.0	0.3	0.2
136	63.506	63.459	-0.098	0.0	0.3	0.2
144	63.506	63.460	-0.098	0.0	0.3	0.2
152	63.507	63.461	-0.098	0.0	0.3	0.2
160	63.507	63.462	-0.097	0.0	0.4	0.2
168	63.508	63.463	-0.096	0.0	0.4	0.3
176	63.509	63.465	-0.095	0.0	0.4	0.3
184	63.510	63.467	-0.094	0.0	0.4	0.3
192	63.512	63.469	-0.092	0.0	0.4	0.4
200	63.514	63.472	-0.090	0.0	0.4	0.5
208	63.516	63.474	-0.088	0.0	0.4	0.6
216	63.518	63.477	-0.087	0.0	0.5	0.7
224	63.519	63.480	-0.085	0.0	0.5	0.8
232	63.521	63.482	-0.083	0.0	0.5	0.9
240	63.524	63.485	-0.081	0.0	0.5	1.1
248	63.524	63.507	-0.081	0.0	0.5	1.1
256	63.536	63.532	-0.069	0.0	0.4	0.9
264	63.555	63.552	-0.049	0.0	0.2	0.8
272	63.572	63.569	-0.032	0.0	0.1	0.7
280	63.585	63.583	-0.019	0.0	0.1	0.6
288	63.597	63.595	-0.007	0.0	0.1	0.5
296	63.605	63.604	0.001	0.0	0.0	0.4
304	63.613	63.611	0.008	0.0	0.0	0.3
312	63.618	63.617	0.014	0.0	0.0	0.3
320	63.623	63.622	0.019	0.0	0.0	0.3
328	63.627	63.626	0.023	0.0	0.0	0.2
336	63.630	63.629	0.026	0.0	0.0	0.2
344	63.633	63.632	0.029	0.0	0.0	0.2
352	63.636	63.635	0.032	0.0	0.0	0.2
360	63.638	63.638	0.034	0.0	0.0	0.2
368	63.641	63.640	0.036	0.0	0.0	0.1
376	63.643	63.642	0.039	0.0	0.0	0.1
384	63.645	63.644	0.041	0.0	0.0	0.1
392	63.647	63.647	0.043	0.0	0.0	0.1
400	63.649	63.649	0.045	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.651	63.650	0.047	0.0	0.0	0.1
416	63.652	63.652	0.048	0.0	0.0	0.1
424	63.654	63.654	0.050	0.0	0.0	0.1
432	63.656	63.655	0.052	0.0	0.0	0.1
440	63.658	63.657	0.053	0.0	0.0	0.1
448	63.659	63.659	0.055	0.0	0.0	0.1
456	63.661	63.660	0.057	0.0	0.0	0.1
464	63.662	63.662	0.058	0.0	0.0	0.1
472	63.664	63.663	0.060	0.0	0.0	0.1
480	63.665	63.665	0.061	0.0	0.0	0.1
488	63.664	63.664	0.060	0.0	0.0	0.0
496	63.662	63.662	0.058	0.0	0.0	0.0
504	63.661	63.661	0.057	0.0	0.0	0.0
512	63.659	63.659	0.055	0.0	0.0	0.0
520	63.658	63.658	0.054	0.0	0.0	0.0
528	63.656	63.657	0.052	0.0	0.0	0.0
536	63.655	63.655	0.051	0.0	0.0	0.0
544	63.654	63.655	0.050	0.0	0.0	0.0
552	63.653	63.652	0.049	0.0	0.0	0.0
560	63.651	63.651	0.047	0.0	0.0	0.0
568	63.649	63.650	0.045	0.0	0.0	0.0
576	63.649	63.649	0.045	0.0	0.0	0.0
584	63.648	63.647	0.043	0.0	0.0	0.0
592	63.646	63.646	0.042	0.0	0.0	0.0
600	63.644	63.643	0.039	0.0	0.0	0.0
608	63.644	63.644	0.040	0.0	0.0	0.0
616	63.642	63.642	0.038	0.0	0.0	0.0
624	63.641	63.641	0.037	0.0	0.0	0.0
632	63.640	63.640	0.036	0.0	0.0	0.0
640	63.639	63.639	0.035	0.0	0.0	0.0
648	63.637	63.638	0.033	0.0	0.0	0.0
656	63.637	63.637	0.033	0.0	0.0	0.0
664	63.635	63.636	0.031	0.0	0.0	0.0
672	63.634	63.634	0.030	0.0	0.0	0.0
680	63.633	63.633	0.029	0.0	0.0	0.0
688	63.632	63.632	0.028	0.0	0.0	0.0
696	63.631	63.631	0.027	0.0	0.0	0.0
704	63.629	63.630	0.025	0.0	0.0	0.0
712	63.628	63.628	0.023	0.0	0.0	0.0
720	63.627	63.627	0.023	0.0	0.0	0.0
728	63.625	63.626	0.021	0.0	0.0	0.0
736	63.624	63.624	0.020	0.0	0.0	0.0
744	63.623	63.623	0.019	0.0	0.0	0.0
752	63.622	63.622	0.018	0.0	0.0	0.0
760	63.621	63.621	0.017	0.0	0.0	0.0
768	63.619	63.619	0.015	0.0	0.0	0.0
776	63.618	63.619	0.014	0.0	0.0	0.0
784	63.617	63.617	0.013	0.0	0.0	0.0
792	63.616	63.616	0.012	0.0	0.0	0.0
800	63.615	63.615	0.011	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.614	0.010	0.0	0.0	0.0
816	63.612	63.612	0.008	0.0	0.0	0.0
824	63.610	63.611	0.006	0.0	0.0	0.0
832	63.610	63.610	0.006	0.0	0.0	0.0
840	63.608	63.608	0.004	0.0	0.0	0.0
848	63.607	63.607	0.003	0.0	0.0	0.0
856	63.606	63.606	0.002	0.0	0.0	0.0
864	63.605	63.605	0.001	0.0	0.0	0.0
872	63.604	63.604	0.000	0.0	0.0	0.0
880	63.602	63.603	-0.002	0.0	0.0	0.0
888	63.601	63.602	-0.003	0.0	0.0	0.0
896	63.601	63.600	-0.003	0.0	0.0	0.0
904	63.598	63.598	-0.006	0.0	0.0	0.0
912	63.597	63.598	-0.007	0.0	0.0	0.0
920	63.595	63.596	-0.009	0.0	0.0	0.0
928	63.595	63.595	-0.009	0.0	0.0	0.0
936	63.593	63.593	-0.011	0.0	0.0	0.0
944	63.592	63.592	-0.012	0.0	0.0	0.0
952	63.591	63.591	-0.013	0.0	0.0	0.0
960	63.590	63.590	-0.014	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.401	65.002	-0.109	0.0	0.2	0.0
16	65.401	65.002	-0.109	0.0	0.2	0.0
24	65.401	65.002	-0.109	0.0	0.2	0.0
32	65.401	65.002	-0.109	0.0	0.2	0.1
40	65.401	65.002	-0.109	0.0	0.2	0.1
48	65.401	65.002	-0.109	0.0	0.2	0.1
56	65.401	65.002	-0.109	0.0	0.2	0.1
64	65.401	65.002	-0.109	0.0	0.2	0.1
72	65.401	65.002	-0.109	0.0	0.2	0.1
80	65.401	65.002	-0.109	0.0	0.2	0.1
88	65.402	65.002	-0.108	0.0	0.3	0.1
96	65.402	65.002	-0.108	0.0	0.3	0.1
104	65.402	65.002	-0.108	0.0	0.3	0.1
112	65.402	65.002	-0.108	0.0	0.3	0.1
120	65.402	65.003	-0.108	0.0	0.3	0.1
128	65.402	65.003	-0.108	0.0	0.3	0.1
136	65.402	65.003	-0.108	0.0	0.3	0.1
144	65.402	65.003	-0.108	0.0	0.4	0.1
152	65.403	65.004	-0.107	0.0	0.4	0.1
160	65.403	65.004	-0.107	0.0	0.5	0.1
168	65.403	65.004	-0.107	0.0	0.5	0.1
176	65.404	65.005	-0.106	0.0	0.6	0.1
184	65.404	65.006	-0.106	0.0	0.7	0.2
192	65.405	65.007	-0.105	0.0	0.9	0.2
200	65.406	65.009	-0.104	0.0	1.0	0.3
208	65.407	65.011	-0.103	0.0	1.1	0.3
216	65.409	65.011	-0.101	0.0	1.0	0.3
224	65.410	65.012	-0.100	0.0	0.9	0.4
232	65.411	65.013	-0.099	0.0	0.9	0.5
240	65.412	65.014	-0.098	0.0	1.0	0.5
248	65.412	65.014	-0.098	0.0	1.0	0.5
256	65.411	65.013	-0.099	0.0	0.9	0.5
264	65.410	65.012	-0.100	0.0	0.9	0.4
272	65.409	65.011	-0.101	0.0	1.0	0.3
280	65.407	65.011	-0.103	0.0	1.1	0.3
288	65.406	65.009	-0.104	0.0	1.0	0.3
296	65.405	65.007	-0.105	0.0	0.9	0.2
304	65.404	65.006	-0.106	0.0	0.7	0.2
312	65.404	65.005	-0.106	0.0	0.6	0.1
320	65.403	65.004	-0.107	0.0	0.5	0.1
328	65.403	65.004	-0.107	0.0	0.5	0.1
336	65.403	65.004	-0.107	0.0	0.4	0.1
344	65.402	65.003	-0.108	0.0	0.4	0.1
352	65.402	65.003	-0.108	0.0	0.3	0.1
360	65.402	65.003	-0.108	0.0	0.3	0.1
368	65.402	65.003	-0.108	0.0	0.3	0.1
376	65.402	65.002	-0.108	0.0	0.3	0.1
384	65.402	65.002	-0.108	0.0	0.3	0.1
392	65.402	65.002	-0.108	0.0	0.3	0.1
400	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.401	65.002	-0.109	0.0	0.2	0.1
416	65.401	65.002	-0.109	0.0	0.2	0.1
424	65.401	65.002	-0.109	0.0	0.2	0.1
432	65.401	65.002	-0.109	0.0	0.2	0.1
440	65.401	65.002	-0.109	0.0	0.2	0.1
448	65.401	65.002	-0.109	0.0	0.2	0.1
456	65.401	65.002	-0.109	0.0	0.2	0.1
464	65.401	65.002	-0.109	0.0	0.2	0.0
472	65.401	65.002	-0.109	0.0	0.2	0.0
480	65.401	65.002	-0.109	0.0	0.2	0.0
488	65.400	65.000	-0.110	0.0	0.0	0.0
496	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
512	65.400	65.000	-0.110	0.0	0.0	0.0
520	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
536	65.400	65.000	-0.110	0.0	0.0	0.0
544	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
560	65.400	65.000	-0.110	0.0	0.0	0.0
568	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
584	65.400	65.000	-0.110	0.0	0.0	0.0
592	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
608	65.400	65.000	-0.110	0.0	0.0	0.0
616	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
632	65.400	65.000	-0.110	0.0	0.0	0.0
640	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
656	65.400	65.000	-0.110	0.0	0.0	0.0
664	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
680	65.400	65.000	-0.110	0.0	0.0	0.0
688	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
704	65.400	65.000	-0.110	0.0	0.0	0.0
712	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
728	65.400	65.000	-0.110	0.0	0.0	0.0
736	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
752	65.400	65.000	-0.110	0.0	0.0	0.0
760	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
776	65.400	65.000	-0.110	0.0	0.0	0.0
784	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
824	65.400	65.000	-0.110	0.0	0.0	0.0
832	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
848	65.400	65.000	-0.110	0.0	0.0	0.0
856	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
872	65.400	65.000	-0.110	0.0	0.0	0.0
880	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
896	65.400	65.000	-0.110	0.0	0.0	0.0
904	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
920	65.400	65.000	-0.110	0.0	0.0	0.0
928	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
944	65.400	65.000	-0.110	0.0	0.0	0.0
952	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.002	63.456	-0.108	0.0	0.4	0.1
16	65.002	63.456	-0.108	0.0	0.4	0.1
24	65.002	63.456	-0.108	0.0	0.4	0.1
32	65.002	63.456	-0.108	0.0	0.4	0.1
40	65.002	63.456	-0.108	0.0	0.4	0.1
48	65.002	63.456	-0.108	0.0	0.4	0.1
56	65.002	63.457	-0.108	0.0	0.4	0.1
64	65.002	63.457	-0.108	0.0	0.5	0.1
72	65.002	63.457	-0.108	0.0	0.5	0.1
80	65.002	63.457	-0.108	0.0	0.5	0.1
88	65.002	63.457	-0.108	0.0	0.5	0.1
96	65.002	63.458	-0.108	0.0	0.5	0.1
104	65.002	63.458	-0.108	0.0	0.6	0.1
112	65.002	63.458	-0.108	0.0	0.6	0.1
120	65.003	63.458	-0.107	0.0	0.6	0.1
128	65.003	63.459	-0.107	0.0	0.6	0.2
136	65.003	63.459	-0.107	0.0	0.7	0.2
144	65.003	63.460	-0.107	0.0	0.7	0.2
152	65.004	63.461	-0.106	0.0	0.8	0.2
160	65.004	63.462	-0.106	0.0	0.9	0.2
168	65.004	63.463	-0.106	0.0	1.0	0.3
176	65.005	63.465	-0.105	0.0	1.2	0.3
184	65.006	63.467	-0.104	0.0	1.4	0.3
192	65.007	63.469	-0.103	0.0	1.5	0.4
200	65.009	63.472	-0.101	0.0	1.4	0.5
208	65.011	63.474	-0.099	0.0	1.3	0.6
216	65.011	63.477	-0.099	0.0	1.3	0.7
224	65.012	63.480	-0.098	0.0	1.4	0.8
232	65.013	63.482	-0.097	0.0	1.5	0.9
240	65.014	63.485	-0.096	0.0	1.6	1.1
248	65.014	63.507	-0.096	0.0	1.6	1.1
256	65.013	63.532	-0.097	0.0	1.5	0.9
264	65.012	63.552	-0.098	0.0	1.4	0.8
272	65.011	63.569	-0.099	0.0	1.3	0.7
280	65.011	63.583	-0.099	0.0	1.3	0.6
288	65.009	63.595	-0.101	0.0	1.4	0.5
296	65.007	63.604	-0.103	0.0	1.5	0.4
304	65.006	63.611	-0.104	0.0	1.5	0.4
312	65.005	63.617	-0.105	0.0	1.2	0.3
320	65.004	63.622	-0.106	0.0	1.0	0.3
328	65.004	63.626	-0.106	0.0	0.9	0.2
336	65.004	63.629	-0.106	0.0	0.8	0.2
344	65.003	63.632	-0.107	0.0	0.7	0.2
352	65.003	63.635	-0.107	0.0	0.7	0.2
360	65.003	63.638	-0.107	0.0	0.6	0.2
368	65.003	63.640	-0.107	0.0	0.6	0.1
376	65.002	63.642	-0.108	0.0	0.6	0.1
384	65.002	63.644	-0.108	0.0	0.6	0.1
392	65.002	63.647	-0.108	0.0	0.5	0.1
400	65.002	63.649	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.002	63.650	-0.108	0.0	0.5	0.1
416	65.002	63.652	-0.108	0.0	0.5	0.1
424	65.002	63.654	-0.108	0.0	0.5	0.1
432	65.002	63.655	-0.108	0.0	0.4	0.1
440	65.002	63.657	-0.108	0.0	0.4	0.1
448	65.002	63.659	-0.108	0.0	0.4	0.1
456	65.002	63.660	-0.108	0.0	0.4	0.1
464	65.002	63.662	-0.108	0.0	0.4	0.1
472	65.002	63.663	-0.108	0.0	0.4	0.1
480	65.002	63.665	-0.108	0.0	0.4	0.1
488	65.000	63.664	-0.110	0.0	0.0	0.0
496	65.000	63.662	-0.110	0.0	0.0	0.0
504	65.000	63.661	-0.110	0.0	0.0	0.0
512	65.000	63.659	-0.110	0.0	0.0	0.0
520	65.000	63.658	-0.110	0.0	0.0	0.0
528	65.000	63.657	-0.110	0.0	0.0	0.0
536	65.000	63.655	-0.110	0.0	0.0	0.0
544	65.000	63.655	-0.110	0.0	0.0	0.0
552	65.000	63.652	-0.110	0.0	0.0	0.0
560	65.000	63.651	-0.110	0.0	0.0	0.0
568	65.000	63.650	-0.110	0.0	0.0	0.0
576	65.000	63.649	-0.110	0.0	0.0	0.0
584	65.000	63.647	-0.110	0.0	0.0	0.0
592	65.000	63.646	-0.110	0.0	0.0	0.0
600	65.000	63.643	-0.110	0.0	0.0	0.0
608	65.000	63.644	-0.110	0.0	0.0	0.0
616	65.000	63.642	-0.110	0.0	0.0	0.0
624	65.000	63.641	-0.110	0.0	0.0	0.0
632	65.000	63.640	-0.110	0.0	0.0	0.0
640	65.000	63.639	-0.110	0.0	0.0	0.0
648	65.000	63.638	-0.110	0.0	0.0	0.0
656	65.000	63.637	-0.110	0.0	0.0	0.0
664	65.000	63.636	-0.110	0.0	0.0	0.0
672	65.000	63.634	-0.110	0.0	0.0	0.0
680	65.000	63.633	-0.110	0.0	0.0	0.0
688	65.000	63.632	-0.110	0.0	0.0	0.0
696	65.000	63.631	-0.110	0.0	0.0	0.0
704	65.000	63.630	-0.110	0.0	0.0	0.0
712	65.000	63.628	-0.110	0.0	0.0	0.0
720	65.000	63.627	-0.110	0.0	0.0	0.0
728	65.000	63.626	-0.110	0.0	0.0	0.0
736	65.000	63.624	-0.110	0.0	0.0	0.0
744	65.000	63.623	-0.110	0.0	0.0	0.0
752	65.000	63.622	-0.110	0.0	0.0	0.0
760	65.000	63.621	-0.110	0.0	0.0	0.0
768	65.000	63.619	-0.110	0.0	0.0	0.0
776	65.000	63.619	-0.110	0.0	0.0	0.0
784	65.000	63.617	-0.110	0.0	0.0	0.0
792	65.000	63.616	-0.110	0.0	0.0	0.0
800	65.000	63.615	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.000	63.614	-0.110	0.0	0.0	0.0
816	65.000	63.612	-0.110	0.0	0.0	0.0
824	65.000	63.611	-0.110	0.0	0.0	0.0
832	65.000	63.610	-0.110	0.0	0.0	0.0
840	65.000	63.608	-0.110	0.0	0.0	0.0
848	65.000	63.607	-0.110	0.0	0.0	0.0
856	65.000	63.606	-0.110	0.0	0.0	0.0
864	65.000	63.605	-0.110	0.0	0.0	0.0
872	65.000	63.604	-0.110	0.0	0.0	0.0
880	65.000	63.603	-0.110	0.0	0.0	0.0
888	65.000	63.602	-0.110	0.0	0.0	0.0
896	65.000	63.600	-0.110	0.0	0.0	0.0
904	65.000	63.598	-0.110	0.0	0.0	0.0
912	65.000	63.598	-0.110	0.0	0.0	0.0
920	65.000	63.596	-0.110	0.0	0.0	0.0
928	65.000	63.595	-0.110	0.0	0.0	0.0
936	65.000	63.593	-0.110	0.0	0.0	0.0
944	65.000	63.592	-0.110	0.0	0.0	0.0
952	65.000	63.591	-0.110	0.0	0.0	0.0
960	65.000	63.590	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.456	63.252	-0.098	0.0	0.3	0.2
16	63.456	63.255	-0.098	0.0	0.3	0.2
24	63.456	63.257	-0.098	0.0	0.3	0.2
32	63.456	63.260	-0.098	0.0	0.3	0.2
40	63.456	63.263	-0.098	0.0	0.4	0.2
48	63.456	63.266	-0.098	0.0	0.4	0.2
56	63.457	63.268	-0.098	0.0	0.4	0.2
64	63.457	63.271	-0.097	0.0	0.4	0.2
72	63.457	63.273	-0.097	0.0	0.4	0.2
80	63.457	63.276	-0.097	0.0	0.4	0.2
88	63.457	63.278	-0.097	0.0	0.4	0.2
96	63.458	63.281	-0.097	0.0	0.4	0.3
104	63.458	63.283	-0.096	0.0	0.4	0.3
112	63.458	63.286	-0.096	0.0	0.4	0.3
120	63.458	63.289	-0.096	0.0	0.4	0.3
128	63.459	63.292	-0.095	0.0	0.4	0.3
136	63.459	63.295	-0.095	0.0	0.4	0.3
144	63.460	63.299	-0.094	0.0	0.4	0.4
152	63.461	63.303	-0.093	0.0	0.4	0.4
160	63.462	63.308	-0.092	0.0	0.4	0.4
168	63.463	63.314	-0.091	0.0	0.5	0.5
176	63.465	63.320	-0.089	0.0	0.5	0.6
184	63.467	63.329	-0.087	0.0	0.5	0.7
192	63.469	63.338	-0.085	0.0	0.5	0.8
200	63.472	63.351	-0.083	0.0	0.5	1.0
208	63.474	63.368	-0.080	0.0	0.6	1.2
216	63.477	63.388	-0.077	0.0	0.6	1.4
224	63.480	63.413	-0.075	0.0	0.6	1.6
232	63.482	63.440	-0.072	0.0	0.6	1.9
240	63.485	63.470	-0.069	0.0	0.7	2.1
248	63.507	63.500	-0.047	0.0	0.5	2.1
256	63.532	63.526	-0.023	0.0	0.3	1.9
264	63.552	63.547	-0.002	0.0	0.2	1.6
272	63.569	63.564	0.015	0.0	0.1	1.4
280	63.583	63.579	0.029	0.0	0.1	1.2
288	63.595	63.591	0.040	0.0	0.1	1.0
296	63.604	63.601	0.050	0.0	0.1	0.8
304	63.611	63.609	0.057	0.0	0.1	0.7
312	63.617	63.615	0.063	0.0	0.1	0.6
320	63.622	63.620	0.068	0.0	0.1	0.5
328	63.626	63.624	0.072	0.0	0.0	0.4
336	63.629	63.628	0.075	0.0	0.0	0.4
344	63.632	63.631	0.078	0.0	0.0	0.4
352	63.635	63.634	0.081	0.0	0.0	0.3
360	63.638	63.637	0.084	0.0	0.0	0.3
368	63.640	63.639	0.086	0.0	0.0	0.3
376	63.642	63.641	0.088	0.0	0.0	0.3
384	63.644	63.644	0.090	0.0	0.0	0.3
392	63.647	63.646	0.092	0.0	0.0	0.3
400	63.649	63.648	0.094	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.650	63.650	0.096	0.0	0.0	0.2
416	63.652	63.651	0.098	0.0	0.0	0.2
424	63.654	63.653	0.100	0.0	0.0	0.2
432	63.655	63.655	0.101	0.0	0.0	0.2
440	63.657	63.656	0.103	0.0	0.0	0.2
448	63.659	63.658	0.105	0.0	0.0	0.2
456	63.660	63.660	0.106	0.0	0.0	0.2
464	63.662	63.661	0.108	0.0	0.0	0.2
472	63.663	63.663	0.109	0.0	0.0	0.2
480	63.665	63.664	0.111	0.0	0.0	0.2
488	63.664	63.664	0.110	0.0	0.0	0.0
496	63.662	63.663	0.108	0.0	0.0	0.0
504	63.661	63.661	0.107	0.0	0.0	0.0
512	63.659	63.659	0.105	0.0	0.0	0.0
520	63.658	63.658	0.104	0.0	0.0	0.0
528	63.657	63.657	0.102	0.0	0.0	0.0
536	63.655	63.655	0.101	0.0	0.0	0.0
544	63.655	63.654	0.101	0.0	0.0	0.0
552	63.652	63.653	0.098	0.0	0.0	0.0
560	63.651	63.651	0.097	0.0	0.0	0.0
568	63.650	63.650	0.096	0.0	0.0	0.0
576	63.649	63.649	0.095	0.0	0.0	0.0
584	63.647	63.647	0.093	0.0	0.0	0.0
592	63.646	63.646	0.092	0.0	0.0	0.0
600	63.643	63.645	0.089	0.0	0.0	0.0
608	63.644	63.644	0.090	0.0	0.0	0.0
616	63.642	63.642	0.088	0.0	0.0	0.0
624	63.641	63.641	0.087	0.0	0.0	0.0
632	63.640	63.640	0.086	0.0	0.0	0.0
640	63.639	63.639	0.085	0.0	0.0	0.0
648	63.638	63.638	0.084	0.0	0.0	0.0
656	63.637	63.637	0.083	0.0	0.0	0.0
664	63.636	63.636	0.081	0.0	0.0	0.0
672	63.634	63.635	0.080	0.0	0.0	0.0
680	63.633	63.633	0.079	0.0	0.0	0.0
688	63.632	63.632	0.078	0.0	0.0	0.0
696	63.631	63.631	0.076	0.0	0.0	0.0
704	63.630	63.630	0.076	0.0	0.0	0.0
712	63.628	63.628	0.074	0.0	0.0	0.0
720	63.627	63.627	0.073	0.0	0.0	0.0
728	63.626	63.626	0.072	0.0	0.0	0.0
736	63.624	63.625	0.070	0.0	0.0	0.0
744	63.623	63.624	0.069	0.0	0.0	0.0
752	63.622	63.622	0.068	0.0	0.0	0.0
760	63.621	63.621	0.067	0.0	0.0	0.0
768	63.619	63.620	0.065	0.0	0.0	0.0
776	63.619	63.619	0.064	0.0	0.0	0.0
784	63.617	63.618	0.063	0.0	0.0	0.0
792	63.616	63.616	0.062	0.0	0.0	0.0
800	63.615	63.615	0.061	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.614	0.060	0.0	0.0	0.0
816	63.612	63.613	0.058	0.0	0.0	0.0
824	63.611	63.611	0.057	0.0	0.0	0.0
832	63.610	63.610	0.056	0.0	0.0	0.0
840	63.608	63.609	0.054	0.0	0.0	0.0
848	63.607	63.607	0.053	0.0	0.0	0.0
856	63.606	63.606	0.052	0.0	0.0	0.0
864	63.605	63.605	0.051	0.0	0.0	0.0
872	63.604	63.604	0.050	0.0	0.0	0.0
880	63.603	63.603	0.048	0.0	0.0	0.0
888	63.602	63.602	0.047	0.0	0.0	0.0
896	63.600	63.600	0.046	0.0	0.0	0.0
904	63.598	63.599	0.044	0.0	0.0	0.0
912	63.598	63.597	0.043	0.0	0.0	0.0
920	63.596	63.596	0.042	0.0	0.0	0.0
928	63.595	63.595	0.041	0.0	0.0	0.0
936	63.593	63.594	0.039	0.0	0.0	0.0
944	63.592	63.592	0.038	0.0	0.0	0.0
952	63.591	63.591	0.037	0.0	0.0	0.0
960	63.590	63.590	0.036	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.252	63.100	-0.108	0.0	0.0	0.0
16	63.255	63.100	-0.105	0.0	0.0	0.0
24	63.257	63.101	-0.103	0.0	0.0	0.0
32	63.260	63.103	-0.100	0.0	0.1	0.0
40	63.263	63.106	-0.097	0.0	0.1	0.0
48	63.266	63.109	-0.094	0.0	0.1	0.0
56	63.268	63.113	-0.092	0.0	0.2	0.0
64	63.271	63.118	-0.089	0.0	0.2	0.1
72	63.273	63.123	-0.087	0.0	0.2	0.1
80	63.276	63.129	-0.084	0.0	0.3	0.1
88	63.278	63.135	-0.082	0.0	0.3	0.1
96	63.281	63.140	-0.079	0.0	0.3	0.1
104	63.283	63.146	-0.077	0.0	0.3	0.1
112	63.286	63.151	-0.074	0.0	0.3	0.1
120	63.289	63.156	-0.071	0.0	0.3	0.1
128	63.292	63.162	-0.068	0.0	0.3	0.1
136	63.295	63.169	-0.065	0.0	0.3	0.1
144	63.299	63.177	-0.061	0.0	0.3	0.1
152	63.303	63.186	-0.057	0.0	0.3	0.1
160	63.308	63.197	-0.052	0.0	0.3	0.1
168	63.314	63.207	-0.046	0.0	0.3	0.1
176	63.320	63.218	-0.040	0.0	0.3	0.1
184	63.329	63.231	-0.031	0.0	0.3	0.2
192	63.338	63.244	-0.022	0.0	0.3	0.2
200	63.351	63.253	-0.009	0.0	0.3	0.1
208	63.368	63.255	0.008	0.0	0.2	0.1
216	63.388	63.253	0.028	0.0	0.2	0.1
224	63.413	63.256	0.053	0.0	0.3	0.1
232	63.440	63.264	0.080	0.0	0.3	0.1
240	63.470	63.278	0.110	0.0	0.3	0.2
248	63.500	63.296	0.140	0.0	0.3	0.2
256	63.526	63.319	0.166	0.0	0.4	0.2
264	63.547	63.346	0.187	0.0	0.4	0.3
272	63.564	63.373	0.204	0.0	0.4	0.3
280	63.579	63.398	0.219	0.0	0.4	0.3
288	63.591	63.421	0.231	0.0	0.2	0.2
296	63.601	63.442	0.241	0.0	0.1	0.2
304	63.609	63.461	0.249	0.0	0.0	0.2
312	63.615	63.478	0.255	0.0	0.0	0.2
320	63.620	63.494	0.260	0.0	0.0	0.2
328	63.624	63.507	0.264	0.0	0.0	0.2
336	63.628	63.519	0.268	0.0	0.0	0.2
344	63.631	63.529	0.271	0.0	0.0	0.2
352	63.634	63.538	0.274	0.0	0.0	0.1
360	63.637	63.546	0.277	0.0	0.0	0.1
368	63.639	63.552	0.279	0.0	0.0	0.1
376	63.641	63.558	0.281	0.0	0.0	0.1
384	63.644	63.563	0.284	0.0	0.0	0.1
392	63.646	63.568	0.286	0.0	0.0	0.1
400	63.648	63.572	0.288	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.650	63.575	0.290	0.0	0.0	0.1
416	63.651	63.578	0.291	0.0	0.0	0.1
424	63.653	63.581	0.293	0.0	0.0	0.1
432	63.655	63.584	0.295	0.0	0.0	0.1
440	63.656	63.586	0.296	0.0	0.0	0.1
448	63.658	63.589	0.298	0.0	0.0	0.1
456	63.660	63.591	0.300	0.0	0.0	0.1
464	63.661	63.593	0.301	0.0	0.0	0.1
472	63.663	63.595	0.303	0.0	0.0	0.1
480	63.664	63.597	0.304	0.0	0.0	0.1
488	63.664	63.598	0.304	0.0	0.0	0.1
496	63.663	63.600	0.303	0.0	0.0	0.1
504	63.661	63.600	0.301	0.0	0.0	0.1
512	63.659	63.600	0.299	0.0	0.0	0.1
520	63.658	63.600	0.298	0.0	0.0	0.1
528	63.657	63.600	0.297	0.0	0.0	0.1
536	63.655	63.599	0.295	0.0	0.0	0.1
544	63.654	63.599	0.294	0.0	0.0	0.1
552	63.653	63.598	0.293	0.0	0.0	0.1
560	63.651	63.596	0.291	0.0	0.0	0.1
568	63.650	63.595	0.290	0.0	0.0	0.1
576	63.649	63.595	0.289	0.0	0.0	0.1
584	63.647	63.593	0.287	0.0	0.0	0.1
592	63.646	63.592	0.286	0.0	0.0	0.1
600	63.645	63.591	0.285	0.0	0.0	0.1
608	63.644	63.590	0.284	0.0	0.0	0.1
616	63.642	63.588	0.282	0.0	0.0	0.1
624	63.641	63.587	0.281	0.0	0.0	0.1
632	63.640	63.586	0.280	0.0	0.0	0.1
640	63.639	63.585	0.279	0.0	0.0	0.1
648	63.638	63.584	0.278	0.0	0.0	0.1
656	63.637	63.583	0.277	0.0	0.0	0.1
664	63.636	63.582	0.276	0.0	0.0	0.1
672	63.635	63.581	0.275	0.0	0.0	0.1
680	63.633	63.580	0.273	0.0	0.0	0.1
688	63.632	63.579	0.272	0.0	0.0	0.1
696	63.631	63.578	0.271	0.0	0.0	0.1
704	63.630	63.576	0.270	0.0	0.0	0.1
712	63.628	63.575	0.268	0.0	0.0	0.1
720	63.627	63.574	0.267	0.0	0.0	0.1
728	63.626	63.573	0.266	0.0	0.0	0.1
736	63.625	63.572	0.265	0.0	0.0	0.1
744	63.624	63.571	0.264	0.0	0.0	0.1
752	63.622	63.569	0.262	0.0	0.0	0.1
760	63.621	63.568	0.261	0.0	0.0	0.1
768	63.620	63.567	0.260	0.0	0.0	0.1
776	63.619	63.566	0.259	0.0	0.0	0.1
784	63.618	63.565	0.258	0.0	0.0	0.1
792	63.616	63.563	0.256	0.0	0.0	0.1
800	63.615	63.562	0.255	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.561	0.254	0.0	0.0	0.1
816	63.613	63.560	0.253	0.0	0.0	0.1
824	63.611	63.558	0.251	0.0	0.0	0.1
832	63.610	63.557	0.250	0.0	0.0	0.1
840	63.609	63.556	0.249	0.0	0.0	0.1
848	63.607	63.555	0.247	0.0	0.0	0.1
856	63.606	63.554	0.246	0.0	0.0	0.1
864	63.605	63.553	0.245	0.0	0.0	0.1
872	63.604	63.552	0.244	0.0	0.0	0.1
880	63.603	63.550	0.243	0.0	0.0	0.1
888	63.602	63.549	0.242	0.0	0.0	0.1
896	63.600	63.548	0.240	0.0	0.0	0.1
904	63.599	63.547	0.239	0.0	0.0	0.1
912	63.597	63.545	0.237	0.0	0.0	0.1
920	63.596	63.544	0.236	0.0	0.0	0.1
928	63.595	63.543	0.235	0.0	0.0	0.1
936	63.594	63.542	0.234	0.0	0.0	0.1
944	63.592	63.540	0.232	0.0	0.0	0.1
952	63.591	63.539	0.231	0.0	0.0	0.1
960	63.590	63.538	0.230	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.100	63.096	-0.110	0.0	0.0	0.0
16	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.101	63.096	-0.109	0.0	0.0	0.0
32	63.103	63.096	-0.107	0.0	0.0	0.0
40	63.106	63.096	-0.104	0.0	0.0	0.0
48	63.109	63.096	-0.101	0.0	0.0	0.0
56	63.113	63.096	-0.097	0.0	0.0	0.0
64	63.118	63.096	-0.092	0.0	0.0	0.0
72	63.123	63.096	-0.087	0.0	0.0	0.0
80	63.129	63.096	-0.081	0.0	0.0	0.0
88	63.135	63.096	-0.075	0.0	0.0	0.0
96	63.140	63.096	-0.070	0.0	0.0	0.0
104	63.146	63.096	-0.064	0.0	0.0	0.0
112	63.151	63.096	-0.059	0.0	0.0	0.0
120	63.156	63.096	-0.054	0.0	0.0	0.0
128	63.162	63.096	-0.048	0.0	0.0	0.0
136	63.169	63.096	-0.041	0.0	0.0	0.0
144	63.177	63.096	-0.033	0.0	0.0	0.0
152	63.186	63.096	-0.024	0.0	0.0	0.0
160	63.197	63.096	-0.013	0.0	0.0	0.0
168	63.207	63.096	-0.003	0.0	0.0	0.0
176	63.218	63.096	0.008	0.0	0.0	0.0
184	63.231	63.096	0.021	0.0	0.0	0.0
192	63.244	63.096	0.034	0.0	0.0	0.0
200	63.253	63.096	0.043	0.0	0.0	0.0
208	63.255	63.096	0.045	0.0	0.0	0.0
216	63.253	63.096	0.043	0.0	0.0	0.0
224	63.256	63.096	0.046	0.0	0.0	0.0
232	63.264	63.096	0.054	0.0	0.0	0.0
240	63.278	63.096	0.068	0.0	0.0	0.0
248	63.296	63.096	0.086	0.0	0.0	0.0
256	63.319	63.096	0.109	0.0	0.0	0.0
264	63.346	63.096	0.136	0.0	0.1	0.0
272	63.373	63.096	0.163	0.0	0.1	0.0
280	63.398	63.096	0.188	0.0	0.1	0.0
288	63.421	63.096	0.211	0.0	0.1	0.0
296	63.442	63.096	0.232	0.0	0.1	0.0
304	63.461	63.096	0.251	0.0	0.1	0.0
312	63.478	63.096	0.268	0.0	0.1	0.0
320	63.494	63.096	0.284	0.0	0.1	0.0
328	63.507	63.096	0.297	0.0	0.1	0.0
336	63.519	63.096	0.309	0.0	0.1	0.0
344	63.529	63.096	0.319	0.0	0.1	0.0
352	63.538	63.096	0.328	0.0	0.1	0.0
360	63.546	63.096	0.336	0.0	0.1	0.0
368	63.552	63.096	0.342	0.0	0.1	0.0
376	63.558	63.096	0.348	0.0	0.1	0.0
384	63.563	63.096	0.353	0.0	0.1	0.0
392	63.568	63.096	0.358	0.0	0.1	0.0
400	63.572	63.096	0.362	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.575	63.096	0.365	0.0	0.1	0.0
416	63.578	63.096	0.368	0.0	0.1	0.0
424	63.581	63.096	0.371	0.0	0.1	0.0
432	63.584	63.096	0.374	0.0	0.1	0.0
440	63.586	63.096	0.376	0.0	0.1	0.0
448	63.589	63.096	0.379	0.0	0.1	0.0
456	63.591	63.096	0.381	0.0	0.1	0.0
464	63.593	63.096	0.383	0.0	0.1	0.0
472	63.595	63.096	0.385	0.0	0.1	0.0
480	63.597	63.096	0.387	0.0	0.1	0.0
488	63.598	63.096	0.388	0.0	0.1	0.0
496	63.600	63.096	0.390	0.0	0.1	0.0
504	63.600	63.096	0.390	0.0	0.1	0.0
512	63.600	63.096	0.390	0.0	0.1	0.0
520	63.600	63.096	0.390	0.0	0.1	0.0
528	63.600	63.096	0.390	0.0	0.1	0.0
536	63.599	63.096	0.389	0.0	0.1	0.0
544	63.599	63.096	0.389	0.0	0.1	0.0
552	63.598	63.096	0.388	0.0	0.1	0.0
560	63.596	63.096	0.386	0.0	0.1	0.0
568	63.595	63.096	0.385	0.0	0.1	0.0
576	63.595	63.096	0.385	0.0	0.1	0.0
584	63.593	63.096	0.383	0.0	0.1	0.0
592	63.592	63.096	0.382	0.0	0.1	0.0
600	63.591	63.096	0.381	0.0	0.1	0.0
608	63.590	63.096	0.380	0.0	0.1	0.0
616	63.588	63.096	0.378	0.0	0.1	0.0
624	63.587	63.096	0.377	0.0	0.1	0.0
632	63.586	63.096	0.376	0.0	0.1	0.0
640	63.585	63.096	0.375	0.0	0.1	0.0
648	63.584	63.096	0.374	0.0	0.1	0.0
656	63.583	63.096	0.373	0.0	0.1	0.0
664	63.582	63.096	0.372	0.0	0.1	0.0
672	63.581	63.096	0.371	0.0	0.1	0.0
680	63.580	63.096	0.370	0.0	0.1	0.0
688	63.579	63.096	0.369	0.0	0.1	0.0
696	63.578	63.096	0.368	0.0	0.1	0.0
704	63.576	63.096	0.366	0.0	0.1	0.0
712	63.575	63.096	0.365	0.0	0.1	0.0
720	63.574	63.096	0.364	0.0	0.1	0.0
728	63.573	63.096	0.363	0.0	0.1	0.0
736	63.572	63.096	0.362	0.0	0.1	0.0
744	63.571	63.096	0.361	0.0	0.1	0.0
752	63.569	63.096	0.359	0.0	0.1	0.0
760	63.568	63.096	0.358	0.0	0.1	0.0
768	63.567	63.096	0.357	0.0	0.1	0.0
776	63.566	63.096	0.356	0.0	0.1	0.0
784	63.565	63.096	0.355	0.0	0.1	0.0
792	63.563	63.096	0.353	0.0	0.1	0.0
800	63.562	63.096	0.352	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Summer
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.561	63.096	0.351	0.0	0.1	0.0
816	63.560	63.096	0.350	0.0	0.1	0.0
824	63.558	63.096	0.348	0.0	0.1	0.0
832	63.557	63.096	0.347	0.0	0.1	0.0
840	63.556	63.096	0.346	0.0	0.1	0.0
848	63.555	63.096	0.345	0.0	0.1	0.0
856	63.554	63.096	0.344	0.0	0.1	0.0
864	63.553	63.096	0.343	0.0	0.1	0.0
872	63.552	63.096	0.342	0.0	0.1	0.0
880	63.550	63.096	0.340	0.0	0.1	0.0
888	63.549	63.096	0.339	0.0	0.1	0.0
896	63.548	63.096	0.338	0.0	0.1	0.0
904	63.547	63.096	0.337	0.0	0.1	0.0
912	63.545	63.096	0.335	0.0	0.1	0.0
920	63.544	63.096	0.334	0.0	0.1	0.0
928	63.543	63.096	0.333	0.0	0.1	0.0
936	63.542	63.096	0.332	0.0	0.1	0.0
944	63.540	63.096	0.330	0.0	0.1	0.0
952	63.539	63.096	0.329	0.0	0.1	0.0
960	63.538	63.096	0.328	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	960
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	8

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	480
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 480 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.407	-0.103	0.000	0.01	0.0	0.4	OK
1.001	S1	63.667	0.063	0.000	0.11	0.0	0.7	SURCHARGED
2.000	RE2	65.409	-0.101	0.000	0.02	0.0	0.4	OK
2.001	S2	65.012	-0.098	0.000	0.02	0.0	0.7	OK
1.002	S3	63.667	0.113	0.000	0.20	0.0	1.4	SURCHARGED
1.003	S4	63.666	0.306	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.602	0.392	0.000	0.01	0.0	0.0	SURCHARGED

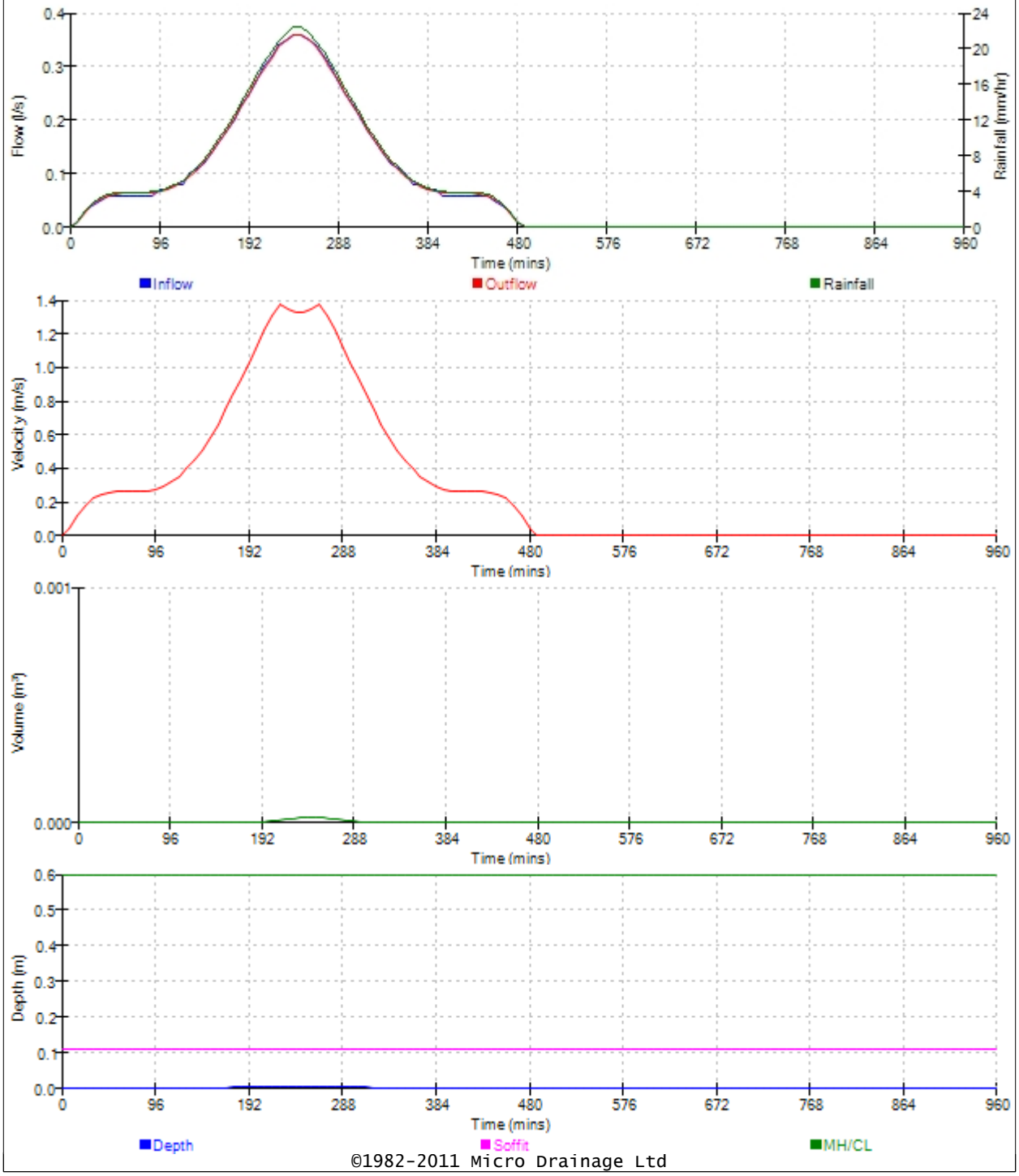
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Rainfall Hyetograph for 480 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
8	0.632	104	4.417	200	17.051	296	15.475	392	4.154
16	1.818	112	4.773	208	18.394	304	14.062	400	4.025
24	2.689	120	5.247	216	19.645	312	12.669	408	3.965
32	3.332	128	5.943	224	20.874	320	11.166	416	3.956
40	3.673	136	6.709	232	21.745	328	9.917	424	3.964
48	3.867	144	7.601	240	22.373	336	8.760	432	3.953
56	3.953	152	8.760	248	22.373	344	7.601	440	3.867
64	3.964	160	9.917	256	21.745	352	6.709	448	3.673
72	3.956	168	11.166	264	20.874	360	5.943	456	3.332
80	3.965	176	12.669	272	19.645	368	5.247	464	2.689
88	4.025	184	14.062	280	18.394	376	4.773	472	1.818
96	4.154	192	15.475	288	17.051	384	4.417	480	0.632

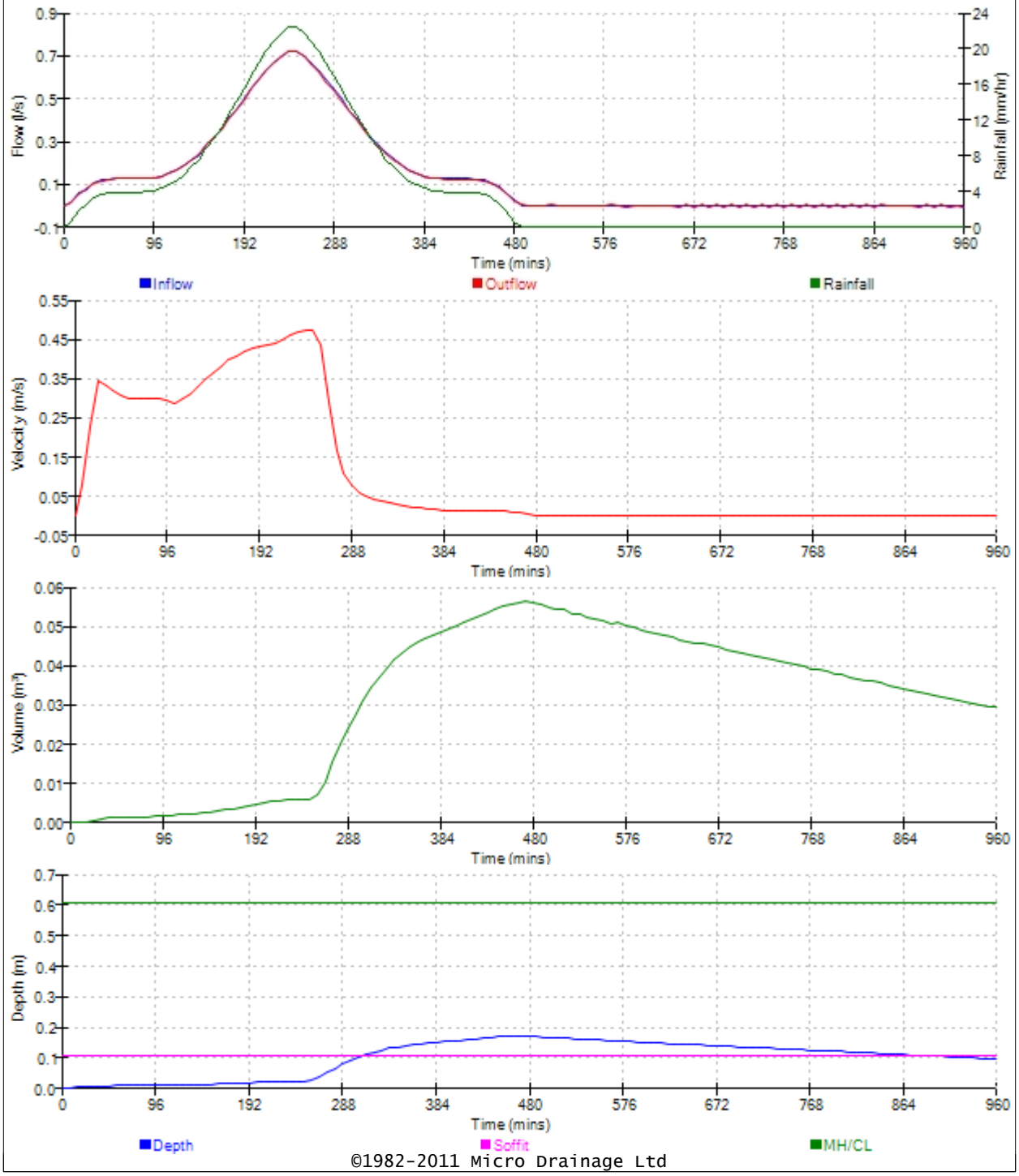
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Winter
Status: OK



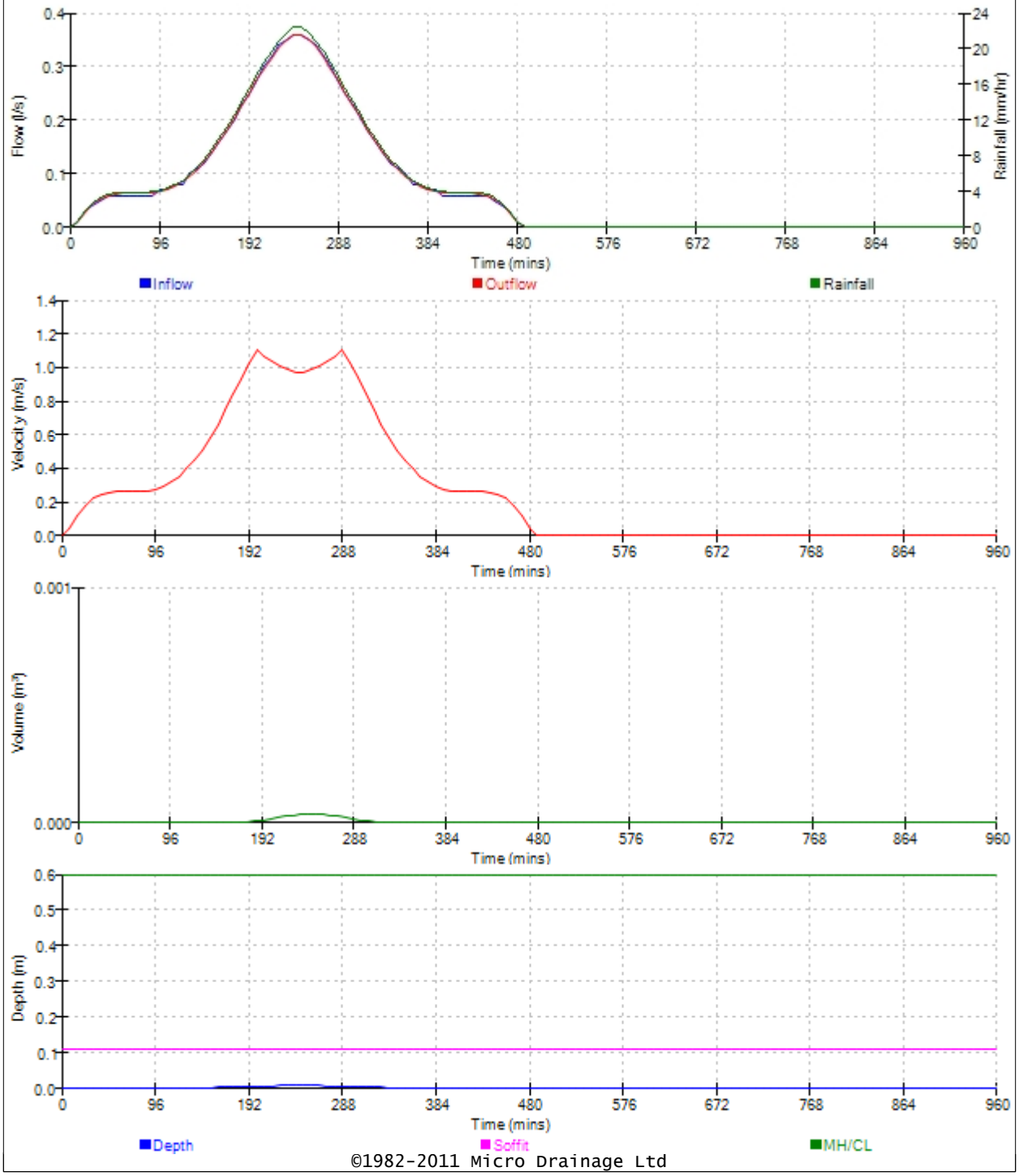
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Graphs for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Winter
Status: SURCHARGED



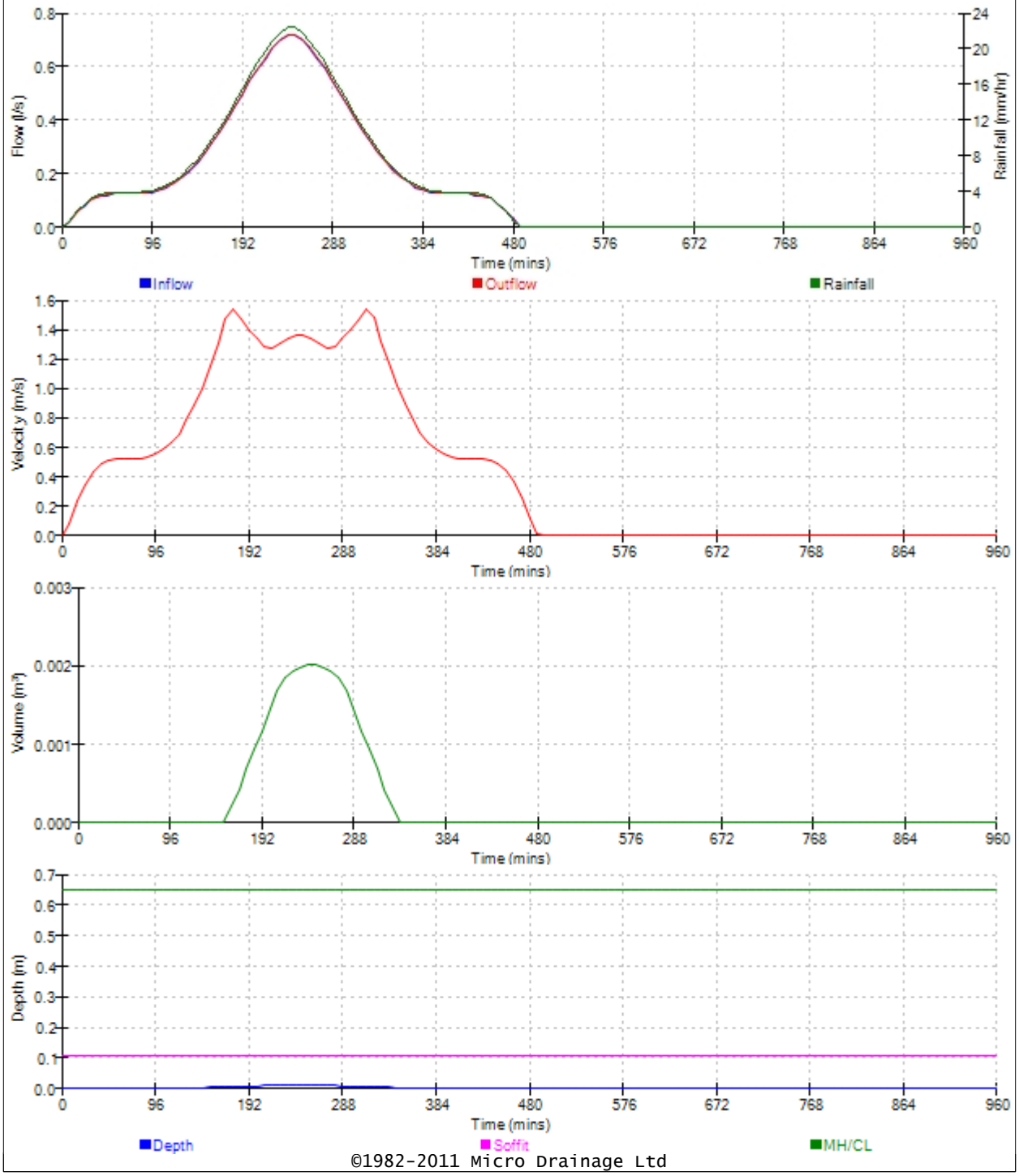
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Winter
Status: OK



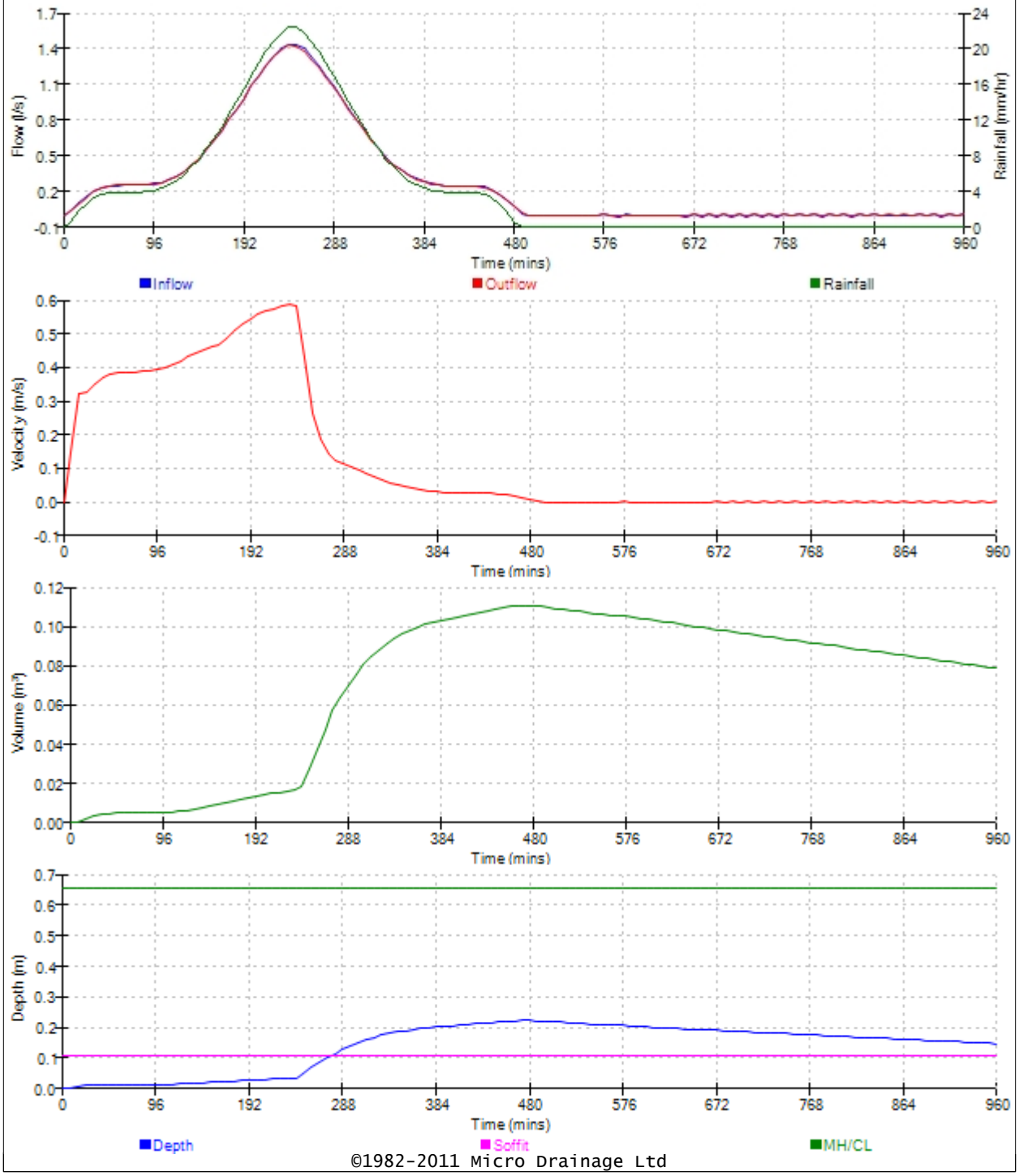
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Graphs for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Winter
Status: OK



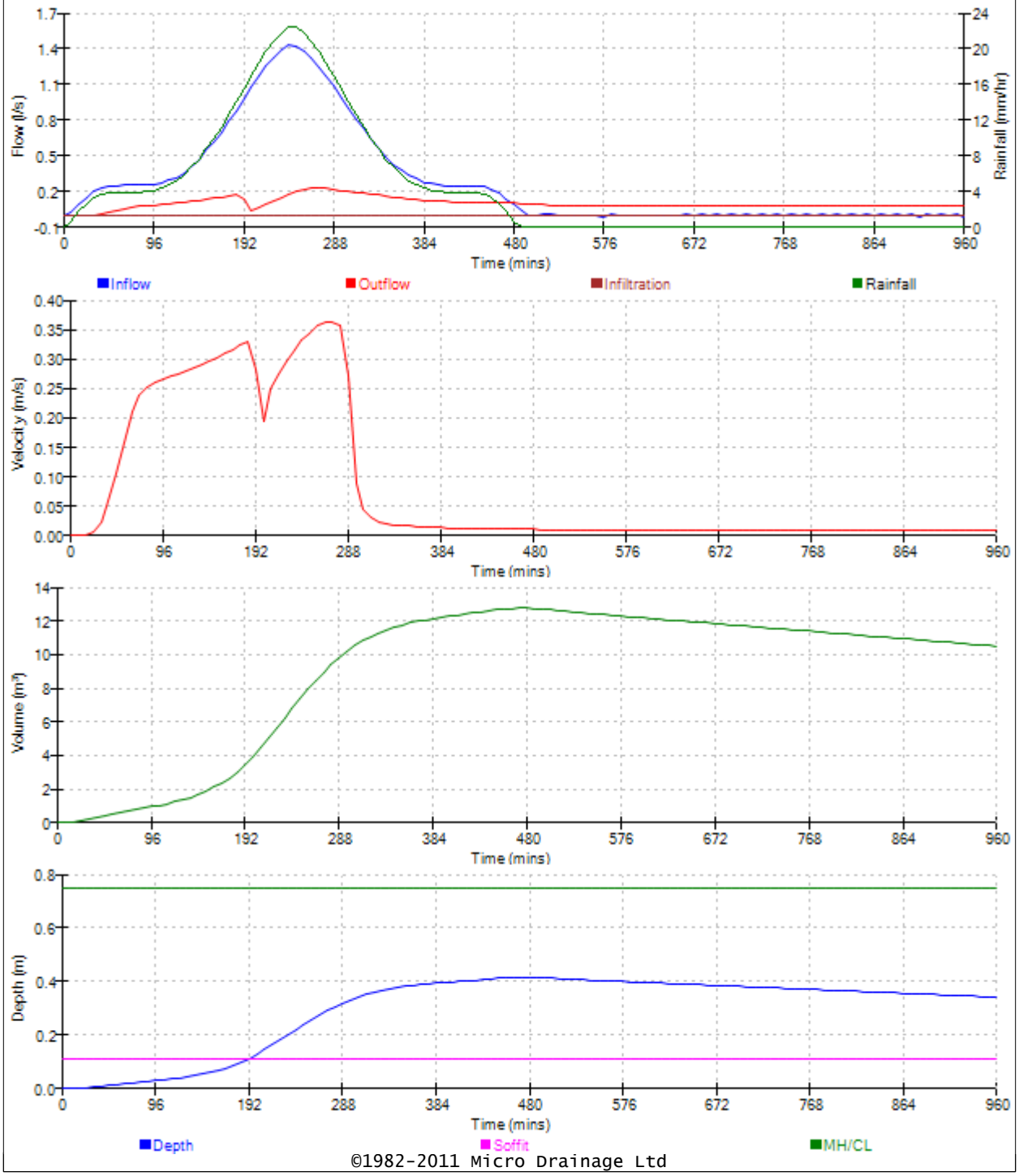
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Graphs for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Winter
Status: SURCHARGED



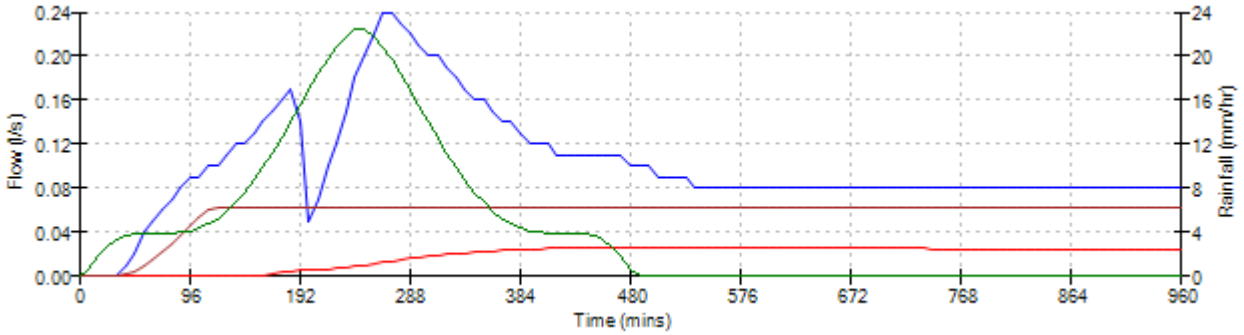
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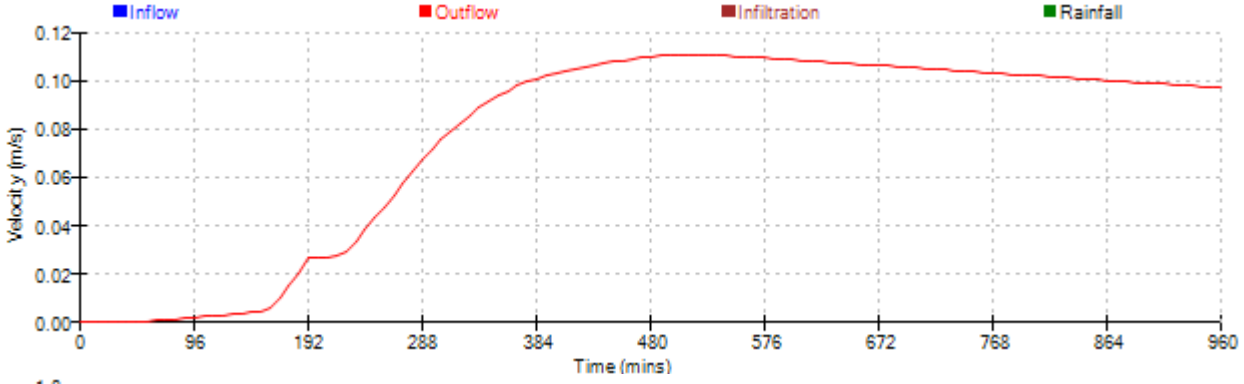
Graphs for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Winter
Status: SURCHARGED

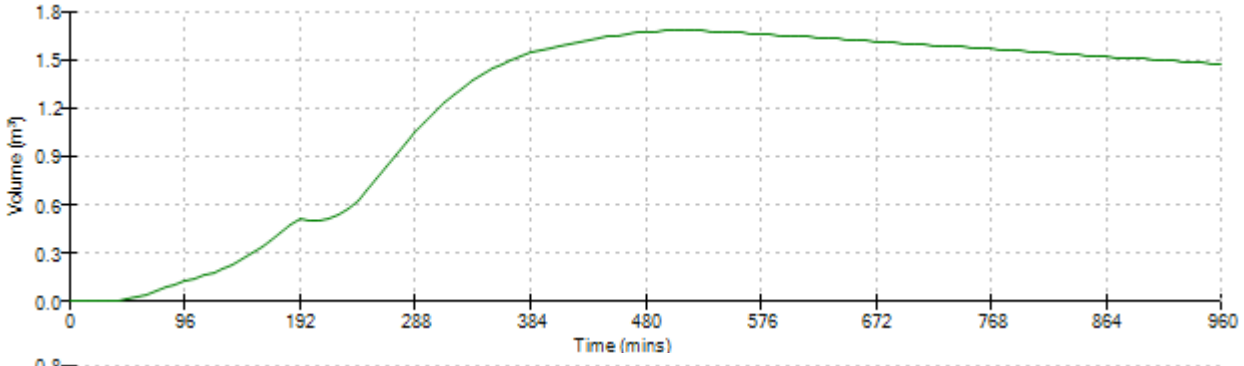


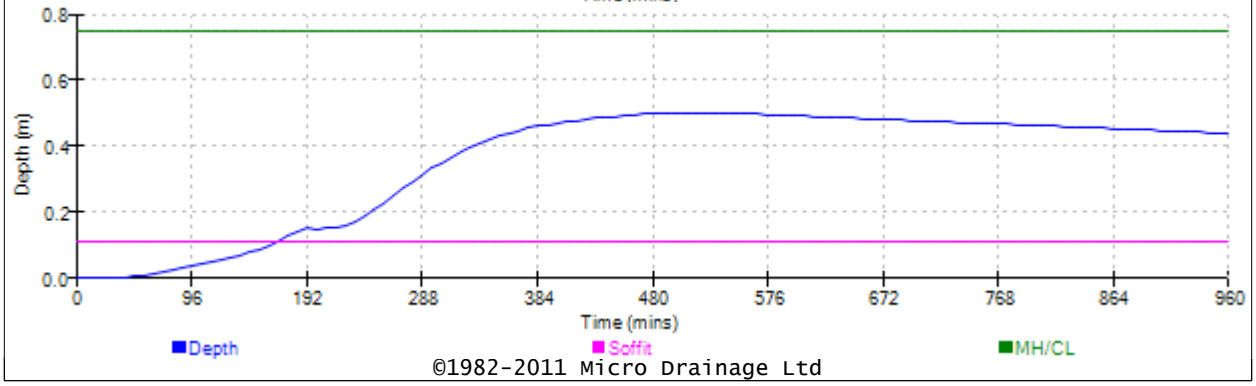
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.400	63.496	-0.110	0.0	0.0	0.0
16	65.401	63.499	-0.109	0.0	0.1	0.0
24	65.401	63.501	-0.109	0.0	0.2	0.0
32	65.401	63.502	-0.109	0.0	0.2	0.1
40	65.401	63.503	-0.109	0.0	0.2	0.1
48	65.401	63.504	-0.109	0.0	0.3	0.1
56	65.401	63.504	-0.109	0.0	0.3	0.1
64	65.401	63.504	-0.109	0.0	0.3	0.1
72	65.401	63.504	-0.109	0.0	0.3	0.1
80	65.401	63.504	-0.109	0.0	0.3	0.1
88	65.401	63.504	-0.109	0.0	0.3	0.1
96	65.401	63.505	-0.109	0.0	0.3	0.1
104	65.401	63.505	-0.109	0.0	0.3	0.1
112	65.402	63.505	-0.108	0.0	0.3	0.1
120	65.402	63.506	-0.108	0.0	0.3	0.1
128	65.402	63.506	-0.108	0.0	0.4	0.1
136	65.402	63.507	-0.108	0.0	0.4	0.1
144	65.403	63.508	-0.107	0.0	0.5	0.1
152	65.403	63.509	-0.107	0.0	0.6	0.1
160	65.403	63.509	-0.107	0.0	0.7	0.2
168	65.404	63.510	-0.106	0.0	0.7	0.2
176	65.404	63.512	-0.106	0.0	0.8	0.2
184	65.405	63.513	-0.105	0.0	0.9	0.2
192	65.405	63.514	-0.105	0.0	1.0	0.2
200	65.406	63.515	-0.104	0.0	1.1	0.3
208	65.406	63.516	-0.104	0.0	1.2	0.3
216	65.406	63.517	-0.104	0.0	1.3	0.3
224	65.407	63.517	-0.103	0.0	1.4	0.3
232	65.407	63.518	-0.103	0.0	1.3	0.4
240	65.407	63.518	-0.103	0.0	1.3	0.4
248	65.407	63.518	-0.103	0.0	1.3	0.4
256	65.407	63.521	-0.103	0.0	1.3	0.4
264	65.407	63.532	-0.103	0.0	1.4	0.3
272	65.406	63.547	-0.104	0.0	1.3	0.3
280	65.406	63.562	-0.104	0.0	1.2	0.3
288	65.406	63.575	-0.104	0.0	1.1	0.3
296	65.405	63.586	-0.105	0.0	1.0	0.2
304	65.405	63.597	-0.105	0.0	0.9	0.2
312	65.404	63.606	-0.106	0.0	0.8	0.2
320	65.404	63.614	-0.106	0.0	0.7	0.2
328	65.403	63.621	-0.107	0.0	0.7	0.2
336	65.403	63.626	-0.107	0.0	0.6	0.1
344	65.402	63.631	-0.108	0.0	0.5	0.1
352	65.402	63.635	-0.108	0.0	0.4	0.1
360	65.402	63.638	-0.108	0.0	0.4	0.1
368	65.402	63.641	-0.108	0.0	0.3	0.1
376	65.402	63.644	-0.108	0.0	0.3	0.1
384	65.401	63.646	-0.109	0.0	0.3	0.1
392	65.401	63.648	-0.109	0.0	0.3	0.1
400	65.401	63.650	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.401	63.652	-0.109	0.0	0.3	0.1
416	65.401	63.654	-0.109	0.0	0.3	0.1
424	65.401	63.657	-0.109	0.0	0.3	0.1
432	65.401	63.659	-0.109	0.0	0.3	0.1
440	65.401	63.661	-0.109	0.0	0.3	0.1
448	65.401	63.664	-0.109	0.0	0.2	0.1
456	65.401	63.665	-0.109	0.0	0.2	0.1
464	65.401	63.666	-0.109	0.0	0.2	0.0
472	65.401	63.667	-0.109	0.0	0.1	0.0
480	65.400	63.666	-0.110	0.0	0.0	0.0
488	65.400	63.665	-0.110	0.0	0.0	0.0
496	65.400	63.663	-0.110	0.0	0.0	0.0
504	65.400	63.662	-0.110	0.0	0.0	0.0
512	65.400	63.661	-0.110	0.0	0.0	0.0
520	65.400	63.658	-0.110	0.0	0.0	0.0
528	65.400	63.657	-0.110	0.0	0.0	0.0
536	65.400	63.656	-0.110	0.0	0.0	0.0
544	65.400	63.655	-0.110	0.0	0.0	0.0
552	65.400	63.653	-0.110	0.0	0.0	0.0
560	65.400	63.652	-0.110	0.0	0.0	0.0
568	65.400	63.652	-0.110	0.0	0.0	0.0
576	65.400	63.650	-0.110	0.0	0.0	0.0
584	65.400	63.648	-0.110	0.0	0.0	0.0
592	65.400	63.647	-0.110	0.0	0.0	0.0
600	65.400	63.646	-0.110	0.0	0.0	0.0
608	65.400	63.644	-0.110	0.0	0.0	0.0
616	65.400	63.643	-0.110	0.0	0.0	0.0
624	65.400	63.642	-0.110	0.0	0.0	0.0
632	65.400	63.640	-0.110	0.0	0.0	0.0
640	65.400	63.639	-0.110	0.0	0.0	0.0
648	65.400	63.638	-0.110	0.0	0.0	0.0
656	65.400	63.637	-0.110	0.0	0.0	0.0
664	65.400	63.636	-0.110	0.0	0.0	0.0
672	65.400	63.635	-0.110	0.0	0.0	0.0
680	65.400	63.633	-0.110	0.0	0.0	0.0
688	65.400	63.632	-0.110	0.0	0.0	0.0
696	65.400	63.631	-0.110	0.0	0.0	0.0
704	65.400	63.630	-0.110	0.0	0.0	0.0
712	65.400	63.628	-0.110	0.0	0.0	0.0
720	65.400	63.627	-0.110	0.0	0.0	0.0
728	65.400	63.626	-0.110	0.0	0.0	0.0
736	65.400	63.625	-0.110	0.0	0.0	0.0
744	65.400	63.624	-0.110	0.0	0.0	0.0
752	65.400	63.622	-0.110	0.0	0.0	0.0
760	65.400	63.622	-0.110	0.0	0.0	0.0
768	65.400	63.620	-0.110	0.0	0.0	0.0
776	65.400	63.619	-0.110	0.0	0.0	0.0
784	65.400	63.618	-0.110	0.0	0.0	0.0
792	65.400	63.616	-0.110	0.0	0.0	0.0
800	65.400	63.615	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.400	63.614	-0.110	0.0	0.0	0.0
816	65.400	63.613	-0.110	0.0	0.0	0.0
824	65.400	63.611	-0.110	0.0	0.0	0.0
832	65.400	63.611	-0.110	0.0	0.0	0.0
840	65.400	63.609	-0.110	0.0	0.0	0.0
848	65.400	63.608	-0.110	0.0	0.0	0.0
856	65.400	63.607	-0.110	0.0	0.0	0.0
864	65.400	63.606	-0.110	0.0	0.0	0.0
872	65.400	63.604	-0.110	0.0	0.0	0.0
880	65.400	63.603	-0.110	0.0	0.0	0.0
888	65.400	63.602	-0.110	0.0	0.0	0.0
896	65.400	63.601	-0.110	0.0	0.0	0.0
904	65.400	63.599	-0.110	0.0	0.0	0.0
912	65.400	63.598	-0.110	0.0	0.0	0.0
920	65.400	63.597	-0.110	0.0	0.0	0.0
928	65.400	63.596	-0.110	0.0	0.0	0.0
936	65.400	63.595	-0.110	0.0	0.0	0.0
944	65.400	63.593	-0.110	0.0	0.0	0.0
952	65.400	63.592	-0.110	0.0	0.0	0.0
960	65.400	63.591	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.496	63.447	-0.108	0.0	0.1	0.0
16	63.499	63.453	-0.105	0.0	0.2	0.1
24	63.501	63.456	-0.103	0.0	0.3	0.1
32	63.502	63.457	-0.102	0.0	0.3	0.1
40	63.503	63.457	-0.101	0.0	0.3	0.1
48	63.504	63.457	-0.100	0.0	0.3	0.1
56	63.504	63.457	-0.100	0.0	0.3	0.1
64	63.504	63.458	-0.100	0.0	0.3	0.1
72	63.504	63.457	-0.100	0.0	0.3	0.1
80	63.504	63.458	-0.100	0.0	0.3	0.1
88	63.504	63.458	-0.100	0.0	0.3	0.1
96	63.505	63.458	-0.100	0.0	0.3	0.1
104	63.505	63.458	-0.099	0.0	0.3	0.1
112	63.505	63.459	-0.099	0.0	0.3	0.2
120	63.506	63.459	-0.098	0.0	0.3	0.2
128	63.506	63.460	-0.098	0.0	0.3	0.2
136	63.507	63.462	-0.097	0.0	0.3	0.2
144	63.508	63.463	-0.096	0.0	0.4	0.2
152	63.509	63.465	-0.096	0.0	0.4	0.3
160	63.509	63.466	-0.095	0.0	0.4	0.3
168	63.510	63.467	-0.094	0.0	0.4	0.4
176	63.512	63.469	-0.093	0.0	0.4	0.4
184	63.513	63.470	-0.091	0.0	0.4	0.5
192	63.514	63.471	-0.090	0.0	0.4	0.5
200	63.515	63.473	-0.089	0.0	0.4	0.5
208	63.516	63.474	-0.088	0.0	0.4	0.6
216	63.517	63.475	-0.087	0.0	0.4	0.6
224	63.517	63.476	-0.087	0.0	0.5	0.7
232	63.518	63.477	-0.086	0.0	0.5	0.7
240	63.518	63.480	-0.086	0.0	0.5	0.7
248	63.518	63.495	-0.086	0.0	0.5	0.7
256	63.521	63.513	-0.083	0.0	0.4	0.7
264	63.532	63.529	-0.072	0.0	0.3	0.7
272	63.547	63.545	-0.057	0.0	0.2	0.6
280	63.562	63.559	-0.043	0.0	0.1	0.6
288	63.575	63.572	-0.029	0.0	0.1	0.5
296	63.586	63.584	-0.018	0.0	0.1	0.5
304	63.597	63.595	-0.007	0.0	0.0	0.4
312	63.606	63.604	0.002	0.0	0.0	0.4
320	63.614	63.612	0.010	0.0	0.0	0.4
328	63.621	63.619	0.016	0.0	0.0	0.3
336	63.626	63.625	0.022	0.0	0.0	0.3
344	63.631	63.630	0.027	0.0	0.0	0.2
352	63.635	63.634	0.031	0.0	0.0	0.2
360	63.638	63.638	0.034	0.0	0.0	0.2
368	63.641	63.641	0.037	0.0	0.0	0.2
376	63.644	63.643	0.039	0.0	0.0	0.2
384	63.646	63.645	0.042	0.0	0.0	0.1
392	63.648	63.648	0.044	0.0	0.0	0.1
400	63.650	63.650	0.046	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.652	63.652	0.048	0.0	0.0	0.1
416	63.654	63.654	0.050	0.0	0.0	0.1
424	63.657	63.656	0.053	0.0	0.0	0.1
432	63.659	63.659	0.055	0.0	0.0	0.1
440	63.661	63.661	0.057	0.0	0.0	0.1
448	63.664	63.663	0.059	0.0	0.0	0.1
456	63.665	63.665	0.061	0.0	0.0	0.1
464	63.666	63.666	0.062	0.0	0.0	0.1
472	63.667	63.667	0.063	0.0	0.0	0.1
480	63.666	63.666	0.062	0.0	0.0	0.0
488	63.665	63.665	0.061	0.0	0.0	0.0
496	63.663	63.663	0.059	0.0	0.0	0.0
504	63.662	63.662	0.058	0.0	0.0	0.0
512	63.661	63.661	0.057	0.0	0.0	0.0
520	63.658	63.658	0.054	0.0	0.0	0.0
528	63.657	63.657	0.053	0.0	0.0	0.0
536	63.656	63.656	0.052	0.0	0.0	0.0
544	63.655	63.654	0.050	0.0	0.0	0.0
552	63.653	63.653	0.049	0.0	0.0	0.0
560	63.652	63.652	0.048	0.0	0.0	0.0
568	63.652	63.652	0.048	0.0	0.0	0.0
576	63.650	63.651	0.046	0.0	0.0	0.0
584	63.648	63.649	0.044	0.0	0.0	0.0
592	63.647	63.647	0.043	0.0	0.0	0.0
600	63.646	63.646	0.042	0.0	0.0	0.0
608	63.644	63.644	0.040	0.0	0.0	0.0
616	63.643	63.643	0.039	0.0	0.0	0.0
624	63.642	63.642	0.038	0.0	0.0	0.0
632	63.640	63.640	0.036	0.0	0.0	0.0
640	63.639	63.639	0.035	0.0	0.0	0.0
648	63.638	63.638	0.034	0.0	0.0	0.0
656	63.637	63.637	0.033	0.0	0.0	0.0
664	63.636	63.636	0.032	0.0	0.0	0.0
672	63.635	63.635	0.030	0.0	0.0	0.0
680	63.633	63.634	0.029	0.0	0.0	0.0
688	63.632	63.632	0.028	0.0	0.0	0.0
696	63.631	63.631	0.027	0.0	0.0	0.0
704	63.630	63.630	0.026	0.0	0.0	0.0
712	63.628	63.629	0.024	0.0	0.0	0.0
720	63.627	63.627	0.023	0.0	0.0	0.0
728	63.626	63.626	0.022	0.0	0.0	0.0
736	63.625	63.625	0.021	0.0	0.0	0.0
744	63.624	63.624	0.019	0.0	0.0	0.0
752	63.622	63.623	0.018	0.0	0.0	0.0
760	63.622	63.621	0.017	0.0	0.0	0.0
768	63.620	63.620	0.015	0.0	0.0	0.0
776	63.619	63.619	0.015	0.0	0.0	0.0
784	63.618	63.618	0.014	0.0	0.0	0.0
792	63.616	63.617	0.012	0.0	0.0	0.0
800	63.615	63.616	0.011	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.614	0.010	0.0	0.0	0.0
816	63.613	63.613	0.008	0.0	0.0	0.0
824	63.611	63.612	0.007	0.0	0.0	0.0
832	63.611	63.611	0.006	0.0	0.0	0.0
840	63.609	63.609	0.005	0.0	0.0	0.0
848	63.608	63.608	0.004	0.0	0.0	0.0
856	63.607	63.607	0.003	0.0	0.0	0.0
864	63.606	63.606	0.001	0.0	0.0	0.0
872	63.604	63.605	0.000	0.0	0.0	0.0
880	63.603	63.603	-0.001	0.0	0.0	0.0
888	63.602	63.602	-0.002	0.0	0.0	0.0
896	63.601	63.601	-0.004	0.0	0.0	0.0
904	63.599	63.600	-0.005	0.0	0.0	0.0
912	63.598	63.599	-0.006	0.0	0.0	0.0
920	63.597	63.597	-0.007	0.0	0.0	0.0
928	63.596	63.596	-0.008	0.0	0.0	0.0
936	63.595	63.595	-0.010	0.0	0.0	0.0
944	63.593	63.593	-0.011	0.0	0.0	0.0
952	63.592	63.593	-0.012	0.0	0.0	0.0
960	63.591	63.592	-0.013	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.400	65.000	-0.110	0.0	0.0	0.0
16	65.401	65.001	-0.109	0.0	0.1	0.0
24	65.401	65.002	-0.109	0.0	0.2	0.0
32	65.401	65.002	-0.109	0.0	0.2	0.1
40	65.401	65.002	-0.109	0.0	0.2	0.1
48	65.402	65.002	-0.108	0.0	0.3	0.1
56	65.402	65.002	-0.108	0.0	0.3	0.1
64	65.402	65.002	-0.108	0.0	0.3	0.1
72	65.402	65.002	-0.108	0.0	0.3	0.1
80	65.402	65.002	-0.108	0.0	0.3	0.1
88	65.402	65.002	-0.108	0.0	0.3	0.1
96	65.402	65.002	-0.108	0.0	0.3	0.1
104	65.402	65.003	-0.108	0.0	0.3	0.1
112	65.402	65.003	-0.108	0.0	0.3	0.1
120	65.402	65.003	-0.108	0.0	0.3	0.1
128	65.402	65.003	-0.108	0.0	0.4	0.1
136	65.403	65.004	-0.107	0.0	0.4	0.1
144	65.403	65.004	-0.107	0.0	0.5	0.1
152	65.404	65.005	-0.106	0.0	0.6	0.1
160	65.404	65.006	-0.106	0.0	0.7	0.2
168	65.405	65.006	-0.105	0.0	0.7	0.2
176	65.405	65.007	-0.105	0.0	0.8	0.2
184	65.406	65.008	-0.104	0.0	0.9	0.2
192	65.406	65.009	-0.104	0.0	1.0	0.2
200	65.407	65.010	-0.103	0.0	1.1	0.3
208	65.407	65.010	-0.103	0.0	1.1	0.3
216	65.408	65.011	-0.102	0.0	1.0	0.3
224	65.408	65.011	-0.102	0.0	1.0	0.3
232	65.409	65.011	-0.101	0.0	1.0	0.4
240	65.409	65.012	-0.101	0.0	1.0	0.4
248	65.409	65.012	-0.101	0.0	1.0	0.4
256	65.409	65.011	-0.101	0.0	1.0	0.4
264	65.408	65.011	-0.102	0.0	1.0	0.3
272	65.408	65.011	-0.102	0.0	1.0	0.3
280	65.407	65.010	-0.103	0.0	1.1	0.3
288	65.407	65.010	-0.103	0.0	1.1	0.3
296	65.406	65.009	-0.104	0.0	1.0	0.2
304	65.406	65.008	-0.104	0.0	0.9	0.2
312	65.405	65.007	-0.105	0.0	0.8	0.2
320	65.405	65.006	-0.105	0.0	0.7	0.2
328	65.404	65.006	-0.106	0.0	0.7	0.2
336	65.404	65.005	-0.106	0.0	0.6	0.1
344	65.403	65.004	-0.107	0.0	0.5	0.1
352	65.403	65.004	-0.107	0.0	0.4	0.1
360	65.402	65.003	-0.108	0.0	0.4	0.1
368	65.402	65.003	-0.108	0.0	0.3	0.1
376	65.402	65.003	-0.108	0.0	0.3	0.1
384	65.402	65.003	-0.108	0.0	0.3	0.1
392	65.402	65.002	-0.108	0.0	0.3	0.1
400	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.402	65.002	-0.108	0.0	0.3	0.1
416	65.402	65.002	-0.108	0.0	0.3	0.1
424	65.402	65.002	-0.108	0.0	0.3	0.1
432	65.402	65.002	-0.108	0.0	0.3	0.1
440	65.402	65.002	-0.108	0.0	0.3	0.1
448	65.401	65.002	-0.109	0.0	0.2	0.1
456	65.401	65.002	-0.109	0.0	0.2	0.1
464	65.401	65.002	-0.109	0.0	0.2	0.0
472	65.401	65.001	-0.109	0.0	0.1	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
488	65.400	65.000	-0.110	0.0	0.0	0.0
496	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
512	65.400	65.000	-0.110	0.0	0.0	0.0
520	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
536	65.400	65.000	-0.110	0.0	0.0	0.0
544	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
560	65.400	65.000	-0.110	0.0	0.0	0.0
568	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
584	65.400	65.000	-0.110	0.0	0.0	0.0
592	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
608	65.400	65.000	-0.110	0.0	0.0	0.0
616	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
632	65.400	65.000	-0.110	0.0	0.0	0.0
640	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
656	65.400	65.000	-0.110	0.0	0.0	0.0
664	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
680	65.400	65.000	-0.110	0.0	0.0	0.0
688	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
704	65.400	65.000	-0.110	0.0	0.0	0.0
712	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
728	65.400	65.000	-0.110	0.0	0.0	0.0
736	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
752	65.400	65.000	-0.110	0.0	0.0	0.0
760	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
776	65.400	65.000	-0.110	0.0	0.0	0.0
784	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
824	65.400	65.000	-0.110	0.0	0.0	0.0
832	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
848	65.400	65.000	-0.110	0.0	0.0	0.0
856	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
872	65.400	65.000	-0.110	0.0	0.0	0.0
880	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
896	65.400	65.000	-0.110	0.0	0.0	0.0
904	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
920	65.400	65.000	-0.110	0.0	0.0	0.0
928	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
944	65.400	65.000	-0.110	0.0	0.0	0.0
952	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	65.000	63.447	-0.110	0.0	0.1	0.0
16	65.001	63.453	-0.109	0.0	0.2	0.1
24	65.002	63.456	-0.108	0.0	0.3	0.1
32	65.002	63.457	-0.108	0.0	0.4	0.1
40	65.002	63.457	-0.108	0.0	0.5	0.1
48	65.002	63.457	-0.108	0.0	0.5	0.1
56	65.002	63.457	-0.108	0.0	0.5	0.1
64	65.002	63.458	-0.108	0.0	0.5	0.1
72	65.002	63.457	-0.108	0.0	0.5	0.1
80	65.002	63.458	-0.108	0.0	0.5	0.1
88	65.002	63.458	-0.108	0.0	0.5	0.1
96	65.002	63.458	-0.108	0.0	0.6	0.1
104	65.003	63.458	-0.107	0.0	0.6	0.1
112	65.003	63.459	-0.107	0.0	0.6	0.2
120	65.003	63.459	-0.107	0.0	0.7	0.2
128	65.003	63.460	-0.107	0.0	0.8	0.2
136	65.004	63.462	-0.106	0.0	0.9	0.2
144	65.004	63.463	-0.106	0.0	1.0	0.2
152	65.005	63.465	-0.105	0.0	1.2	0.3
160	65.006	63.466	-0.104	0.0	1.3	0.3
168	65.006	63.467	-0.104	0.0	1.5	0.4
176	65.007	63.469	-0.103	0.0	1.5	0.4
184	65.008	63.470	-0.102	0.0	1.5	0.5
192	65.009	63.471	-0.101	0.0	1.4	0.5
200	65.010	63.473	-0.100	0.0	1.3	0.5
208	65.010	63.474	-0.100	0.0	1.3	0.6
216	65.011	63.475	-0.099	0.0	1.3	0.6
224	65.011	63.476	-0.099	0.0	1.3	0.7
232	65.011	63.477	-0.099	0.0	1.3	0.7
240	65.012	63.480	-0.098	0.0	1.4	0.7
248	65.012	63.495	-0.098	0.0	1.4	0.7
256	65.011	63.513	-0.099	0.0	1.3	0.7
264	65.011	63.529	-0.099	0.0	1.3	0.7
272	65.011	63.545	-0.099	0.0	1.3	0.6
280	65.010	63.559	-0.100	0.0	1.3	0.6
288	65.010	63.572	-0.100	0.0	1.3	0.6
296	65.009	63.584	-0.101	0.0	1.4	0.5
304	65.008	63.595	-0.102	0.0	1.5	0.5
312	65.007	63.604	-0.103	0.0	1.5	0.4
320	65.006	63.612	-0.104	0.0	1.5	0.4
328	65.006	63.619	-0.104	0.0	1.3	0.3
336	65.005	63.625	-0.105	0.0	1.2	0.3
344	65.004	63.630	-0.106	0.0	1.0	0.2
352	65.004	63.634	-0.106	0.0	0.9	0.2
360	65.003	63.638	-0.107	0.0	0.8	0.2
368	65.003	63.641	-0.107	0.0	0.7	0.2
376	65.003	63.643	-0.107	0.0	0.6	0.2
384	65.003	63.645	-0.107	0.0	0.6	0.1
392	65.002	63.648	-0.108	0.0	0.6	0.1
400	65.002	63.650	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	65.002	63.652	-0.108	0.0	0.5	0.1
416	65.002	63.654	-0.108	0.0	0.5	0.1
424	65.002	63.656	-0.108	0.0	0.5	0.1
432	65.002	63.659	-0.108	0.0	0.5	0.1
440	65.002	63.661	-0.108	0.0	0.5	0.1
448	65.002	63.663	-0.108	0.0	0.5	0.1
456	65.002	63.665	-0.108	0.0	0.4	0.1
464	65.002	63.666	-0.108	0.0	0.4	0.1
472	65.001	63.667	-0.109	0.0	0.3	0.1
480	65.000	63.666	-0.110	0.0	0.1	0.0
488	65.000	63.665	-0.110	0.0	0.0	0.0
496	65.000	63.663	-0.110	0.0	0.0	0.0
504	65.000	63.662	-0.110	0.0	0.0	0.0
512	65.000	63.661	-0.110	0.0	0.0	0.0
520	65.000	63.658	-0.110	0.0	0.0	0.0
528	65.000	63.657	-0.110	0.0	0.0	0.0
536	65.000	63.656	-0.110	0.0	0.0	0.0
544	65.000	63.654	-0.110	0.0	0.0	0.0
552	65.000	63.653	-0.110	0.0	0.0	0.0
560	65.000	63.652	-0.110	0.0	0.0	0.0
568	65.000	63.652	-0.110	0.0	0.0	0.0
576	65.000	63.651	-0.110	0.0	0.0	0.0
584	65.000	63.649	-0.110	0.0	0.0	0.0
592	65.000	63.647	-0.110	0.0	0.0	0.0
600	65.000	63.646	-0.110	0.0	0.0	0.0
608	65.000	63.644	-0.110	0.0	0.0	0.0
616	65.000	63.643	-0.110	0.0	0.0	0.0
624	65.000	63.642	-0.110	0.0	0.0	0.0
632	65.000	63.640	-0.110	0.0	0.0	0.0
640	65.000	63.639	-0.110	0.0	0.0	0.0
648	65.000	63.638	-0.110	0.0	0.0	0.0
656	65.000	63.637	-0.110	0.0	0.0	0.0
664	65.000	63.636	-0.110	0.0	0.0	0.0
672	65.000	63.635	-0.110	0.0	0.0	0.0
680	65.000	63.634	-0.110	0.0	0.0	0.0
688	65.000	63.632	-0.110	0.0	0.0	0.0
696	65.000	63.631	-0.110	0.0	0.0	0.0
704	65.000	63.630	-0.110	0.0	0.0	0.0
712	65.000	63.629	-0.110	0.0	0.0	0.0
720	65.000	63.627	-0.110	0.0	0.0	0.0
728	65.000	63.626	-0.110	0.0	0.0	0.0
736	65.000	63.625	-0.110	0.0	0.0	0.0
744	65.000	63.624	-0.110	0.0	0.0	0.0
752	65.000	63.623	-0.110	0.0	0.0	0.0
760	65.000	63.621	-0.110	0.0	0.0	0.0
768	65.000	63.620	-0.110	0.0	0.0	0.0
776	65.000	63.619	-0.110	0.0	0.0	0.0
784	65.000	63.618	-0.110	0.0	0.0	0.0
792	65.000	63.617	-0.110	0.0	0.0	0.0
800	65.000	63.616	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	65.000	63.614	-0.110	0.0	0.0	0.0
816	65.000	63.613	-0.110	0.0	0.0	0.0
824	65.000	63.612	-0.110	0.0	0.0	0.0
832	65.000	63.611	-0.110	0.0	0.0	0.0
840	65.000	63.609	-0.110	0.0	0.0	0.0
848	65.000	63.608	-0.110	0.0	0.0	0.0
856	65.000	63.607	-0.110	0.0	0.0	0.0
864	65.000	63.606	-0.110	0.0	0.0	0.0
872	65.000	63.605	-0.110	0.0	0.0	0.0
880	65.000	63.603	-0.110	0.0	0.0	0.0
888	65.000	63.602	-0.110	0.0	0.0	0.0
896	65.000	63.601	-0.110	0.0	0.0	0.0
904	65.000	63.600	-0.110	0.0	0.0	0.0
912	65.000	63.599	-0.110	0.0	0.0	0.0
920	65.000	63.597	-0.110	0.0	0.0	0.0
928	65.000	63.596	-0.110	0.0	0.0	0.0
936	65.000	63.595	-0.110	0.0	0.0	0.0
944	65.000	63.593	-0.110	0.0	0.0	0.0
952	65.000	63.593	-0.110	0.0	0.0	0.0
960	65.000	63.592	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.447	63.250	-0.107	0.0	0.1	0.0
16	63.453	63.252	-0.101	0.0	0.3	0.1
24	63.456	63.254	-0.098	0.0	0.3	0.2
32	63.457	63.257	-0.098	0.0	0.4	0.2
40	63.457	63.260	-0.097	0.0	0.4	0.2
48	63.457	63.263	-0.097	0.0	0.4	0.2
56	63.457	63.267	-0.097	0.0	0.4	0.3
64	63.458	63.270	-0.097	0.0	0.4	0.3
72	63.457	63.273	-0.097	0.0	0.4	0.3
80	63.458	63.276	-0.097	0.0	0.4	0.3
88	63.458	63.279	-0.097	0.0	0.4	0.3
96	63.458	63.281	-0.096	0.0	0.4	0.3
104	63.458	63.284	-0.096	0.0	0.4	0.3
112	63.459	63.287	-0.095	0.0	0.4	0.3
120	63.459	63.291	-0.095	0.0	0.4	0.3
128	63.460	63.294	-0.094	0.0	0.4	0.4
136	63.462	63.299	-0.093	0.0	0.4	0.4
144	63.463	63.304	-0.091	0.0	0.5	0.5
152	63.465	63.311	-0.090	0.0	0.5	0.6
160	63.466	63.319	-0.088	0.0	0.5	0.6
168	63.467	63.327	-0.087	0.0	0.5	0.7
176	63.469	63.337	-0.085	0.0	0.5	0.8
184	63.470	63.348	-0.084	0.0	0.5	0.9
192	63.471	63.362	-0.083	0.0	0.5	1.0
200	63.473	63.378	-0.081	0.0	0.6	1.1
208	63.474	63.396	-0.080	0.0	0.6	1.2
216	63.475	63.413	-0.079	0.0	0.6	1.3
224	63.476	63.432	-0.078	0.0	0.6	1.3
232	63.477	63.452	-0.077	0.0	0.6	1.4
240	63.480	63.471	-0.074	0.0	0.6	1.4
248	63.495	63.490	-0.059	0.0	0.4	1.4
256	63.513	63.508	-0.041	0.0	0.3	1.4
264	63.529	63.525	-0.025	0.0	0.2	1.3
272	63.545	63.541	-0.009	0.0	0.1	1.2
280	63.559	63.555	0.005	0.0	0.1	1.2
288	63.572	63.569	0.018	0.0	0.1	1.1
296	63.584	63.581	0.030	0.0	0.1	1.0
304	63.595	63.592	0.041	0.0	0.1	0.9
312	63.604	63.602	0.050	0.0	0.1	0.8
320	63.612	63.610	0.058	0.0	0.1	0.7
328	63.619	63.617	0.065	0.0	0.1	0.6
336	63.625	63.623	0.071	0.0	0.1	0.6
344	63.630	63.628	0.076	0.0	0.1	0.5
352	63.634	63.633	0.080	0.0	0.0	0.4
360	63.638	63.636	0.084	0.0	0.0	0.4
368	63.641	63.639	0.086	0.0	0.0	0.3
376	63.643	63.642	0.089	0.0	0.0	0.3
384	63.645	63.644	0.091	0.0	0.0	0.3
392	63.648	63.647	0.093	0.0	0.0	0.3
400	63.650	63.649	0.096	0.0	0.0	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.652	63.651	0.098	0.0	0.0	0.3
416	63.654	63.653	0.100	0.0	0.0	0.3
424	63.656	63.655	0.102	0.0	0.0	0.3
432	63.659	63.658	0.104	0.0	0.0	0.3
440	63.661	63.660	0.107	0.0	0.0	0.2
448	63.663	63.662	0.109	0.0	0.0	0.2
456	63.665	63.664	0.111	0.0	0.0	0.2
464	63.666	63.666	0.112	0.0	0.0	0.2
472	63.667	63.666	0.113	0.0	0.0	0.1
480	63.666	63.666	0.112	0.0	0.0	0.1
488	63.665	63.665	0.111	0.0	0.0	0.0
496	63.663	63.664	0.109	0.0	0.0	0.0
504	63.662	63.662	0.108	0.0	0.0	0.0
512	63.661	63.661	0.107	0.0	0.0	0.0
520	63.658	63.659	0.104	0.0	0.0	0.0
528	63.657	63.657	0.103	0.0	0.0	0.0
536	63.656	63.656	0.102	0.0	0.0	0.0
544	63.654	63.655	0.100	0.0	0.0	0.0
552	63.653	63.653	0.099	0.0	0.0	0.0
560	63.652	63.652	0.098	0.0	0.0	0.0
568	63.652	63.651	0.098	0.0	0.0	0.0
576	63.651	63.650	0.096	0.0	0.0	0.0
584	63.649	63.649	0.095	0.0	0.0	0.0
592	63.647	63.647	0.093	0.0	0.0	0.0
600	63.646	63.646	0.092	0.0	0.0	0.0
608	63.644	63.644	0.090	0.0	0.0	0.0
616	63.643	63.644	0.089	0.0	0.0	0.0
624	63.642	63.642	0.088	0.0	0.0	0.0
632	63.640	63.641	0.086	0.0	0.0	0.0
640	63.639	63.639	0.085	0.0	0.0	0.0
648	63.638	63.638	0.084	0.0	0.0	0.0
656	63.637	63.637	0.083	0.0	0.0	0.0
664	63.636	63.636	0.082	0.0	0.0	0.0
672	63.635	63.635	0.081	0.0	0.0	0.0
680	63.634	63.634	0.079	0.0	0.0	0.0
688	63.632	63.633	0.078	0.0	0.0	0.0
696	63.631	63.631	0.077	0.0	0.0	0.0
704	63.630	63.630	0.076	0.0	0.0	0.0
712	63.629	63.629	0.075	0.0	0.0	0.0
720	63.627	63.628	0.073	0.0	0.0	0.0
728	63.626	63.626	0.072	0.0	0.0	0.0
736	63.625	63.625	0.071	0.0	0.0	0.0
744	63.624	63.624	0.070	0.0	0.0	0.0
752	63.623	63.623	0.068	0.0	0.0	0.0
760	63.621	63.622	0.067	0.0	0.0	0.0
768	63.620	63.620	0.066	0.0	0.0	0.0
776	63.619	63.619	0.065	0.0	0.0	0.0
784	63.618	63.618	0.064	0.0	0.0	0.0
792	63.617	63.617	0.062	0.0	0.0	0.0
800	63.616	63.616	0.062	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.614	0.060	0.0	0.0	0.0
816	63.613	63.613	0.059	0.0	0.0	0.0
824	63.612	63.612	0.058	0.0	0.0	0.0
832	63.611	63.611	0.057	0.0	0.0	0.0
840	63.609	63.610	0.055	0.0	0.0	0.0
848	63.608	63.608	0.054	0.0	0.0	0.0
856	63.607	63.607	0.053	0.0	0.0	0.0
864	63.606	63.606	0.052	0.0	0.0	0.0
872	63.605	63.605	0.050	0.0	0.0	0.0
880	63.603	63.604	0.049	0.0	0.0	0.0
888	63.602	63.602	0.048	0.0	0.0	0.0
896	63.601	63.601	0.047	0.0	0.0	0.0
904	63.600	63.600	0.046	0.0	0.0	0.0
912	63.599	63.599	0.045	0.0	0.0	0.0
920	63.597	63.598	0.043	0.0	0.0	0.0
928	63.596	63.596	0.042	0.0	0.0	0.0
936	63.595	63.595	0.041	0.0	0.0	0.0
944	63.593	63.594	0.039	0.0	0.0	0.0
952	63.593	63.593	0.038	0.0	0.0	0.0
960	63.592	63.592	0.038	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.250	63.100	-0.110	0.0	0.0	0.0
16	63.252	63.100	-0.108	0.0	0.0	0.0
24	63.254	63.100	-0.106	0.0	0.0	0.0
32	63.257	63.101	-0.103	0.0	0.0	0.0
40	63.260	63.102	-0.100	0.0	0.1	0.0
48	63.263	63.105	-0.097	0.0	0.1	0.0
56	63.267	63.109	-0.093	0.0	0.2	0.0
64	63.270	63.114	-0.090	0.0	0.2	0.1
72	63.273	63.120	-0.087	0.0	0.2	0.1
80	63.276	63.126	-0.084	0.0	0.3	0.1
88	63.279	63.132	-0.081	0.0	0.3	0.1
96	63.281	63.138	-0.079	0.0	0.3	0.1
104	63.284	63.144	-0.076	0.0	0.3	0.1
112	63.287	63.150	-0.073	0.0	0.3	0.1
120	63.291	63.155	-0.069	0.0	0.3	0.1
128	63.294	63.162	-0.066	0.0	0.3	0.1
136	63.299	63.170	-0.061	0.0	0.3	0.1
144	63.304	63.178	-0.056	0.0	0.3	0.1
152	63.311	63.189	-0.049	0.0	0.3	0.1
160	63.319	63.201	-0.041	0.0	0.3	0.1
168	63.327	63.213	-0.033	0.0	0.3	0.2
176	63.337	63.227	-0.023	0.0	0.3	0.2
184	63.348	63.242	-0.012	0.0	0.3	0.2
192	63.362	63.254	0.002	0.0	0.3	0.1
200	63.378	63.251	0.018	0.0	0.2	0.0
208	63.396	63.251	0.036	0.0	0.2	0.1
216	63.413	63.255	0.053	0.0	0.3	0.1
224	63.432	63.262	0.072	0.0	0.3	0.1
232	63.452	63.274	0.092	0.0	0.3	0.2
240	63.471	63.289	0.111	0.0	0.3	0.2
248	63.490	63.306	0.130	0.0	0.3	0.2
256	63.508	63.327	0.148	0.0	0.4	0.2
264	63.525	63.350	0.165	0.0	0.4	0.2
272	63.541	63.373	0.181	0.0	0.4	0.2
280	63.555	63.394	0.195	0.0	0.4	0.2
288	63.569	63.414	0.209	0.0	0.3	0.2
296	63.581	63.433	0.221	0.0	0.1	0.2
304	63.592	63.451	0.232	0.0	0.0	0.2
312	63.602	63.467	0.242	0.0	0.0	0.2
320	63.610	63.482	0.250	0.0	0.0	0.2
328	63.617	63.496	0.257	0.0	0.0	0.2
336	63.623	63.509	0.263	0.0	0.0	0.2
344	63.628	63.520	0.268	0.0	0.0	0.2
352	63.633	63.530	0.273	0.0	0.0	0.2
360	63.636	63.540	0.276	0.0	0.0	0.1
368	63.639	63.548	0.279	0.0	0.0	0.1
376	63.642	63.554	0.282	0.0	0.0	0.1
384	63.644	63.560	0.284	0.0	0.0	0.1
392	63.647	63.566	0.287	0.0	0.0	0.1
400	63.649	63.570	0.289	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.651	63.574	0.291	0.0	0.0	0.1
416	63.653	63.578	0.293	0.0	0.0	0.1
424	63.655	63.582	0.295	0.0	0.0	0.1
432	63.658	63.585	0.298	0.0	0.0	0.1
440	63.660	63.588	0.300	0.0	0.0	0.1
448	63.662	63.590	0.302	0.0	0.0	0.1
456	63.664	63.593	0.304	0.0	0.0	0.1
464	63.666	63.595	0.306	0.0	0.0	0.1
472	63.666	63.597	0.306	0.0	0.0	0.1
480	63.666	63.599	0.306	0.0	0.0	0.1
488	63.665	63.600	0.305	0.0	0.0	0.1
496	63.664	63.601	0.304	0.0	0.0	0.1
504	63.662	63.602	0.302	0.0	0.0	0.1
512	63.661	63.602	0.301	0.0	0.0	0.1
520	63.659	63.602	0.299	0.0	0.0	0.1
528	63.657	63.601	0.297	0.0	0.0	0.1
536	63.656	63.600	0.296	0.0	0.0	0.1
544	63.655	63.599	0.295	0.0	0.0	0.1
552	63.653	63.598	0.293	0.0	0.0	0.1
560	63.652	63.597	0.292	0.0	0.0	0.1
568	63.651	63.597	0.291	0.0	0.0	0.1
576	63.650	63.596	0.290	0.0	0.0	0.1
584	63.649	63.594	0.289	0.0	0.0	0.1
592	63.647	63.593	0.287	0.0	0.0	0.1
600	63.646	63.592	0.286	0.0	0.0	0.1
608	63.644	63.591	0.284	0.0	0.0	0.1
616	63.644	63.590	0.284	0.0	0.0	0.1
624	63.642	63.588	0.282	0.0	0.0	0.1
632	63.641	63.587	0.281	0.0	0.0	0.1
640	63.639	63.586	0.279	0.0	0.0	0.1
648	63.638	63.585	0.278	0.0	0.0	0.1
656	63.637	63.584	0.277	0.0	0.0	0.1
664	63.636	63.583	0.276	0.0	0.0	0.1
672	63.635	63.582	0.275	0.0	0.0	0.1
680	63.634	63.580	0.274	0.0	0.0	0.1
688	63.633	63.579	0.273	0.0	0.0	0.1
696	63.631	63.578	0.271	0.0	0.0	0.1
704	63.630	63.577	0.270	0.0	0.0	0.1
712	63.629	63.576	0.269	0.0	0.0	0.1
720	63.628	63.574	0.268	0.0	0.0	0.1
728	63.626	63.573	0.266	0.0	0.0	0.1
736	63.625	63.572	0.265	0.0	0.0	0.1
744	63.624	63.571	0.264	0.0	0.0	0.1
752	63.623	63.570	0.263	0.0	0.0	0.1
760	63.622	63.569	0.262	0.0	0.0	0.1
768	63.620	63.567	0.260	0.0	0.0	0.1
776	63.619	63.566	0.259	0.0	0.0	0.1
784	63.618	63.565	0.258	0.0	0.0	0.1
792	63.617	63.564	0.257	0.0	0.0	0.1
800	63.616	63.563	0.256	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.614	63.562	0.254	0.0	0.0	0.1
816	63.613	63.560	0.253	0.0	0.0	0.1
824	63.612	63.559	0.252	0.0	0.0	0.1
832	63.611	63.558	0.251	0.0	0.0	0.1
840	63.610	63.557	0.250	0.0	0.0	0.1
848	63.608	63.556	0.248	0.0	0.0	0.1
856	63.607	63.555	0.247	0.0	0.0	0.1
864	63.606	63.553	0.246	0.0	0.0	0.1
872	63.605	63.552	0.245	0.0	0.0	0.1
880	63.604	63.551	0.244	0.0	0.0	0.1
888	63.602	63.550	0.242	0.0	0.0	0.1
896	63.601	63.549	0.241	0.0	0.0	0.1
904	63.600	63.548	0.240	0.0	0.0	0.1
912	63.599	63.546	0.239	0.0	0.0	0.1
920	63.598	63.545	0.238	0.0	0.0	0.1
928	63.596	63.544	0.236	0.0	0.0	0.1
936	63.595	63.543	0.235	0.0	0.0	0.1
944	63.594	63.542	0.234	0.0	0.0	0.1
952	63.593	63.541	0.233	0.0	0.0	0.1
960	63.592	63.539	0.232	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8	63.100	63.096	-0.110	0.0	0.0	0.0
16	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.100	63.096	-0.110	0.0	0.0	0.0
32	63.101	63.096	-0.109	0.0	0.0	0.0
40	63.102	63.096	-0.108	0.0	0.0	0.0
48	63.105	63.096	-0.105	0.0	0.0	0.0
56	63.109	63.096	-0.101	0.0	0.0	0.0
64	63.114	63.096	-0.096	0.0	0.0	0.0
72	63.120	63.096	-0.090	0.0	0.0	0.0
80	63.126	63.096	-0.084	0.0	0.0	0.0
88	63.132	63.096	-0.078	0.0	0.0	0.0
96	63.138	63.096	-0.072	0.0	0.0	0.0
104	63.144	63.096	-0.066	0.0	0.0	0.0
112	63.150	63.096	-0.060	0.0	0.0	0.0
120	63.155	63.096	-0.055	0.0	0.0	0.0
128	63.162	63.096	-0.048	0.0	0.0	0.0
136	63.170	63.096	-0.040	0.0	0.0	0.0
144	63.178	63.096	-0.032	0.0	0.0	0.0
152	63.189	63.096	-0.021	0.0	0.0	0.0
160	63.201	63.096	-0.009	0.0	0.0	0.0
168	63.213	63.096	0.003	0.0	0.0	0.0
176	63.227	63.096	0.017	0.0	0.0	0.0
184	63.242	63.096	0.032	0.0	0.0	0.0
192	63.254	63.096	0.044	0.0	0.0	0.0
200	63.251	63.096	0.041	0.0	0.0	0.0
208	63.251	63.096	0.041	0.0	0.0	0.0
216	63.255	63.096	0.045	0.0	0.0	0.0
224	63.262	63.096	0.052	0.0	0.0	0.0
232	63.274	63.096	0.064	0.0	0.0	0.0
240	63.289	63.096	0.079	0.0	0.0	0.0
248	63.306	63.096	0.096	0.0	0.0	0.0
256	63.327	63.096	0.117	0.0	0.0	0.0
264	63.350	63.096	0.140	0.0	0.1	0.0
272	63.373	63.096	0.163	0.0	0.1	0.0
280	63.394	63.096	0.184	0.0	0.1	0.0
288	63.414	63.096	0.204	0.0	0.1	0.0
296	63.433	63.096	0.223	0.0	0.1	0.0
304	63.451	63.096	0.241	0.0	0.1	0.0
312	63.467	63.096	0.257	0.0	0.1	0.0
320	63.482	63.096	0.272	0.0	0.1	0.0
328	63.496	63.096	0.286	0.0	0.1	0.0
336	63.509	63.096	0.299	0.0	0.1	0.0
344	63.520	63.096	0.310	0.0	0.1	0.0
352	63.530	63.096	0.320	0.0	0.1	0.0
360	63.540	63.096	0.330	0.0	0.1	0.0
368	63.548	63.096	0.338	0.0	0.1	0.0
376	63.554	63.096	0.344	0.0	0.1	0.0
384	63.560	63.096	0.350	0.0	0.1	0.0
392	63.566	63.096	0.356	0.0	0.1	0.0
400	63.570	63.096	0.360	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
408	63.574	63.096	0.364	0.0	0.1	0.0
416	63.578	63.096	0.368	0.0	0.1	0.0
424	63.582	63.096	0.372	0.0	0.1	0.0
432	63.585	63.096	0.375	0.0	0.1	0.0
440	63.588	63.096	0.378	0.0	0.1	0.0
448	63.590	63.096	0.380	0.0	0.1	0.0
456	63.593	63.096	0.383	0.0	0.1	0.0
464	63.595	63.096	0.385	0.0	0.1	0.0
472	63.597	63.096	0.387	0.0	0.1	0.0
480	63.599	63.096	0.389	0.0	0.1	0.0
488	63.600	63.096	0.390	0.0	0.1	0.0
496	63.601	63.096	0.391	0.0	0.1	0.0
504	63.602	63.096	0.392	0.0	0.1	0.0
512	63.602	63.096	0.392	0.0	0.1	0.0
520	63.602	63.096	0.392	0.0	0.1	0.0
528	63.601	63.096	0.391	0.0	0.1	0.0
536	63.600	63.096	0.390	0.0	0.1	0.0
544	63.599	63.096	0.389	0.0	0.1	0.0
552	63.598	63.096	0.388	0.0	0.1	0.0
560	63.597	63.096	0.387	0.0	0.1	0.0
568	63.597	63.096	0.387	0.0	0.1	0.0
576	63.596	63.096	0.386	0.0	0.1	0.0
584	63.594	63.096	0.384	0.0	0.1	0.0
592	63.593	63.096	0.383	0.0	0.1	0.0
600	63.592	63.096	0.382	0.0	0.1	0.0
608	63.591	63.096	0.381	0.0	0.1	0.0
616	63.590	63.096	0.380	0.0	0.1	0.0
624	63.588	63.096	0.378	0.0	0.1	0.0
632	63.587	63.096	0.377	0.0	0.1	0.0
640	63.586	63.096	0.376	0.0	0.1	0.0
648	63.585	63.096	0.375	0.0	0.1	0.0
656	63.584	63.096	0.374	0.0	0.1	0.0
664	63.583	63.096	0.373	0.0	0.1	0.0
672	63.582	63.096	0.372	0.0	0.1	0.0
680	63.580	63.096	0.370	0.0	0.1	0.0
688	63.579	63.096	0.369	0.0	0.1	0.0
696	63.578	63.096	0.368	0.0	0.1	0.0
704	63.577	63.096	0.367	0.0	0.1	0.0
712	63.576	63.096	0.366	0.0	0.1	0.0
720	63.574	63.096	0.364	0.0	0.1	0.0
728	63.573	63.096	0.363	0.0	0.1	0.0
736	63.572	63.096	0.362	0.0	0.1	0.0
744	63.571	63.096	0.361	0.0	0.1	0.0
752	63.570	63.096	0.360	0.0	0.1	0.0
760	63.569	63.096	0.359	0.0	0.1	0.0
768	63.567	63.096	0.357	0.0	0.1	0.0
776	63.566	63.096	0.356	0.0	0.1	0.0
784	63.565	63.096	0.355	0.0	0.1	0.0
792	63.564	63.096	0.354	0.0	0.1	0.0
800	63.563	63.096	0.353	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
480 minute 100 year Winter
Average Rainfall Intensity 8.895 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
808	63.562	63.096	0.352	0.0	0.1	0.0
816	63.560	63.096	0.350	0.0	0.1	0.0
824	63.559	63.096	0.349	0.0	0.1	0.0
832	63.558	63.096	0.348	0.0	0.1	0.0
840	63.557	63.096	0.347	0.0	0.1	0.0
848	63.556	63.096	0.346	0.0	0.1	0.0
856	63.555	63.096	0.345	0.0	0.1	0.0
864	63.553	63.096	0.343	0.0	0.1	0.0
872	63.552	63.096	0.342	0.0	0.1	0.0
880	63.551	63.096	0.341	0.0	0.1	0.0
888	63.550	63.096	0.340	0.0	0.1	0.0
896	63.549	63.096	0.339	0.0	0.1	0.0
904	63.548	63.096	0.338	0.0	0.1	0.0
912	63.546	63.096	0.336	0.0	0.1	0.0
920	63.545	63.096	0.335	0.0	0.1	0.0
928	63.544	63.096	0.334	0.0	0.1	0.0
936	63.543	63.096	0.333	0.0	0.1	0.0
944	63.542	63.096	0.332	0.0	0.1	0.0
952	63.541	63.096	0.331	0.0	0.1	0.0
960	63.539	63.096	0.329	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1200
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	10

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	600
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 600 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.409	-0.101	0.000	0.02	0.0	0.5	OK
1.001	S1	63.677	0.073	0.000	0.14	0.0	0.9	SURCHARGED
2.000	RE2	65.411	-0.099	0.000	0.02	0.0	0.5	OK
2.001	S2	65.013	-0.097	0.000	0.03	0.0	0.9	OK
1.002	S3	63.677	0.123	0.000	0.25	0.0	1.8	SURCHARGED
1.003	S4	63.677	0.317	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.613	0.403	0.000	0.01	0.0	0.0	SURCHARGED

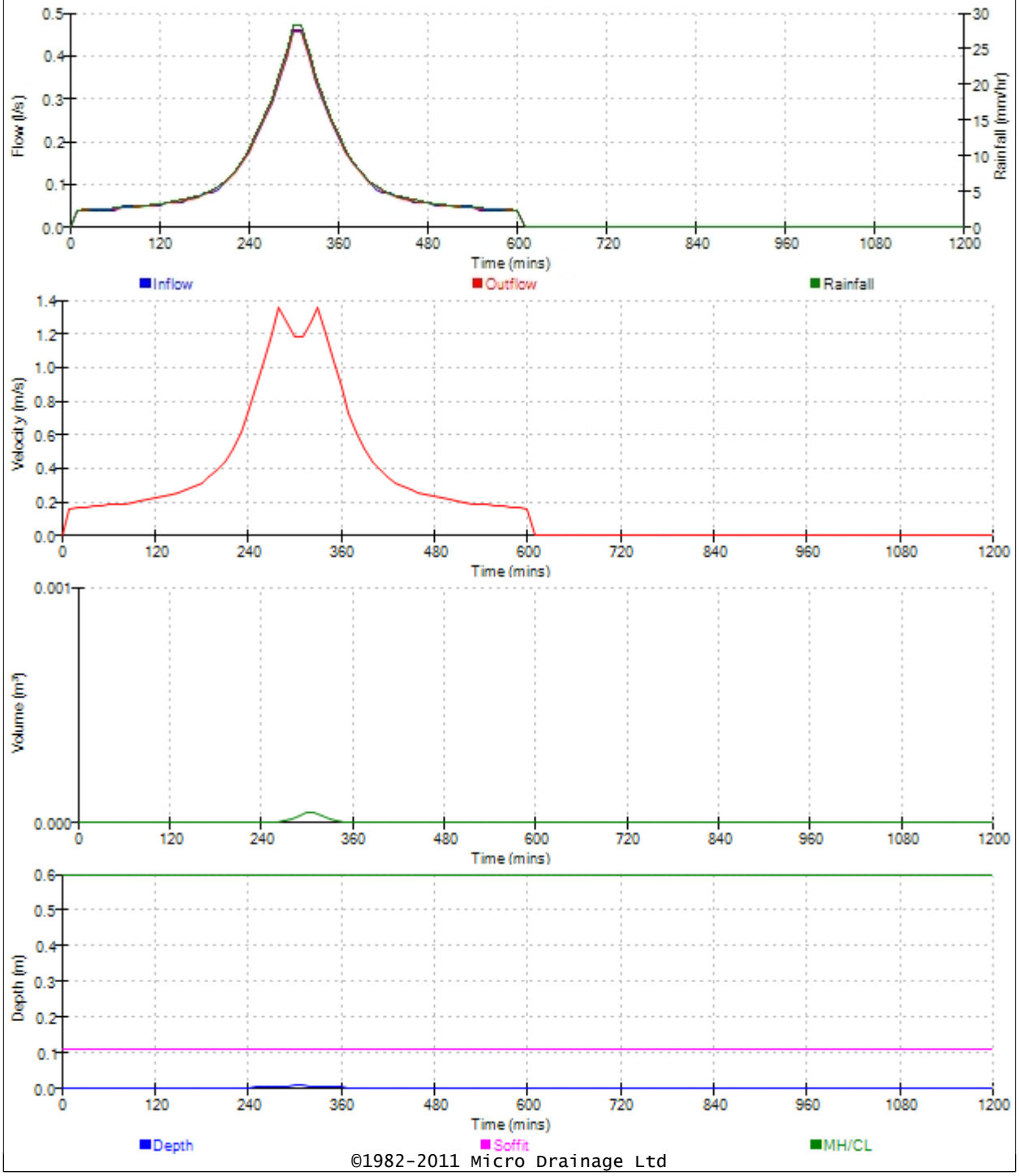
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Rainfall Hyetograph for 600 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
10	2.431	130	3.512	250	13.298	370	10.926	490	3.347
20	2.491	140	3.692	260	15.609	380	9.230	500	3.227
30	2.551	150	3.872	270	18.100	390	7.759	510	3.107
40	2.626	160	4.112	280	21.342	400	6.619	520	2.972
50	2.687	170	4.367	290	24.644	410	5.853	530	2.867
60	2.747	180	4.713	300	28.396	420	5.223	540	2.807
70	2.807	190	5.223	310	28.396	430	4.713	550	2.747
80	2.867	200	5.853	320	24.644	440	4.368	560	2.687
90	2.972	210	6.619	330	21.342	450	4.112	570	2.626
100	3.107	220	7.759	340	18.100	460	3.872	580	2.551
110	3.227	230	9.230	350	15.609	470	3.692	590	2.491
120	3.347	240	10.926	360	13.298	480	3.512	600	2.431

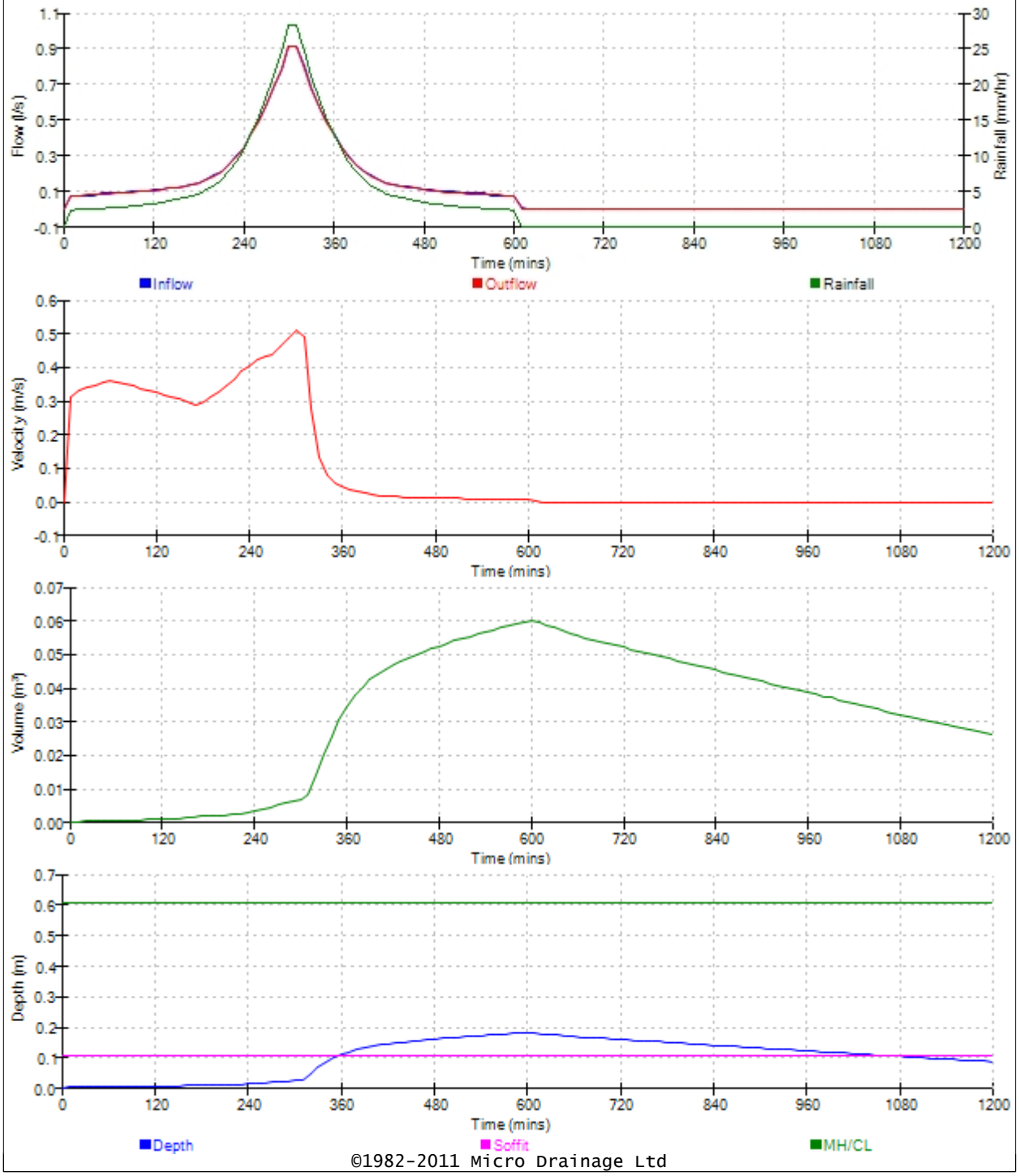
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Status: OK



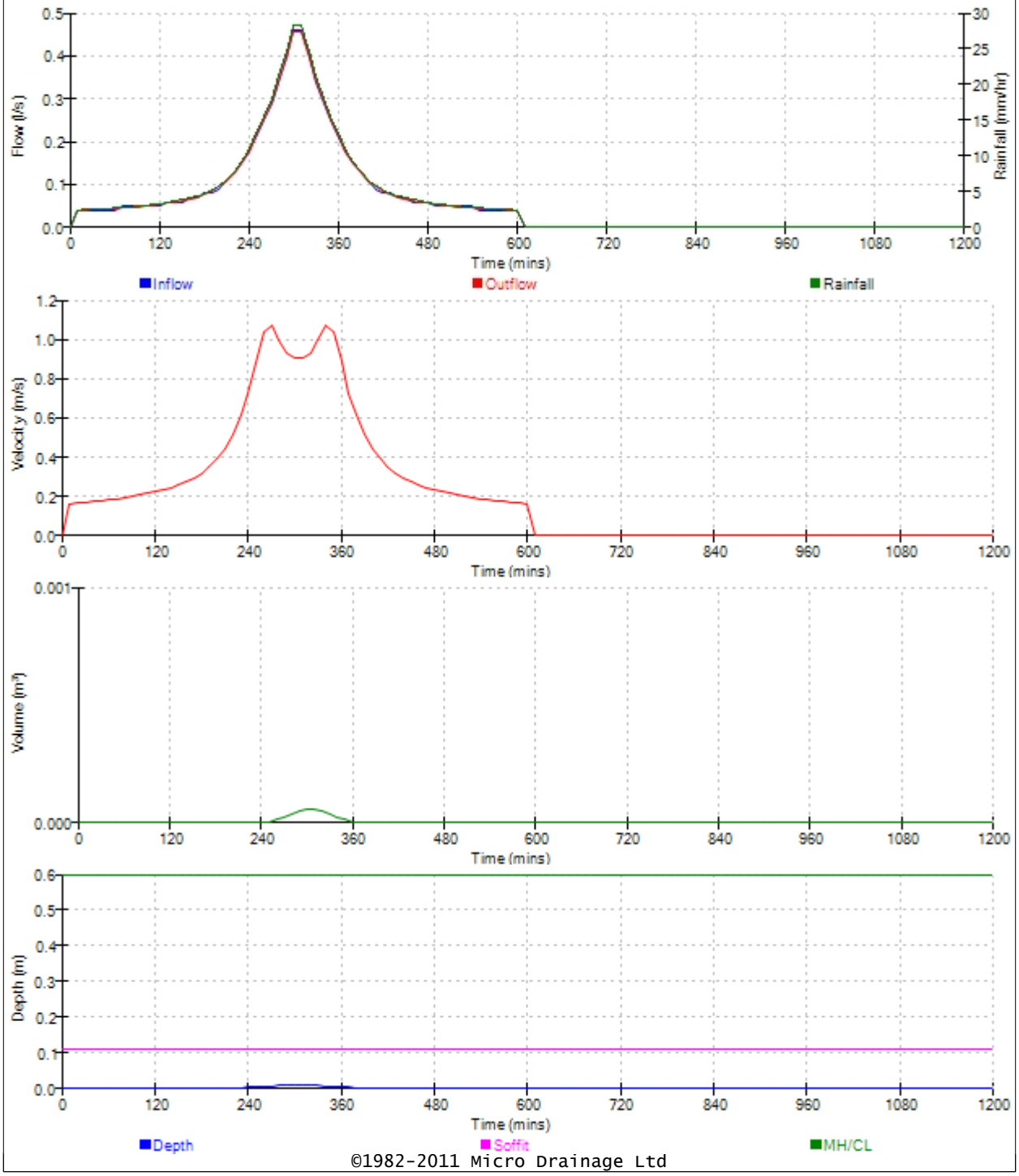
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Graphs for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Status: SURCHARGED



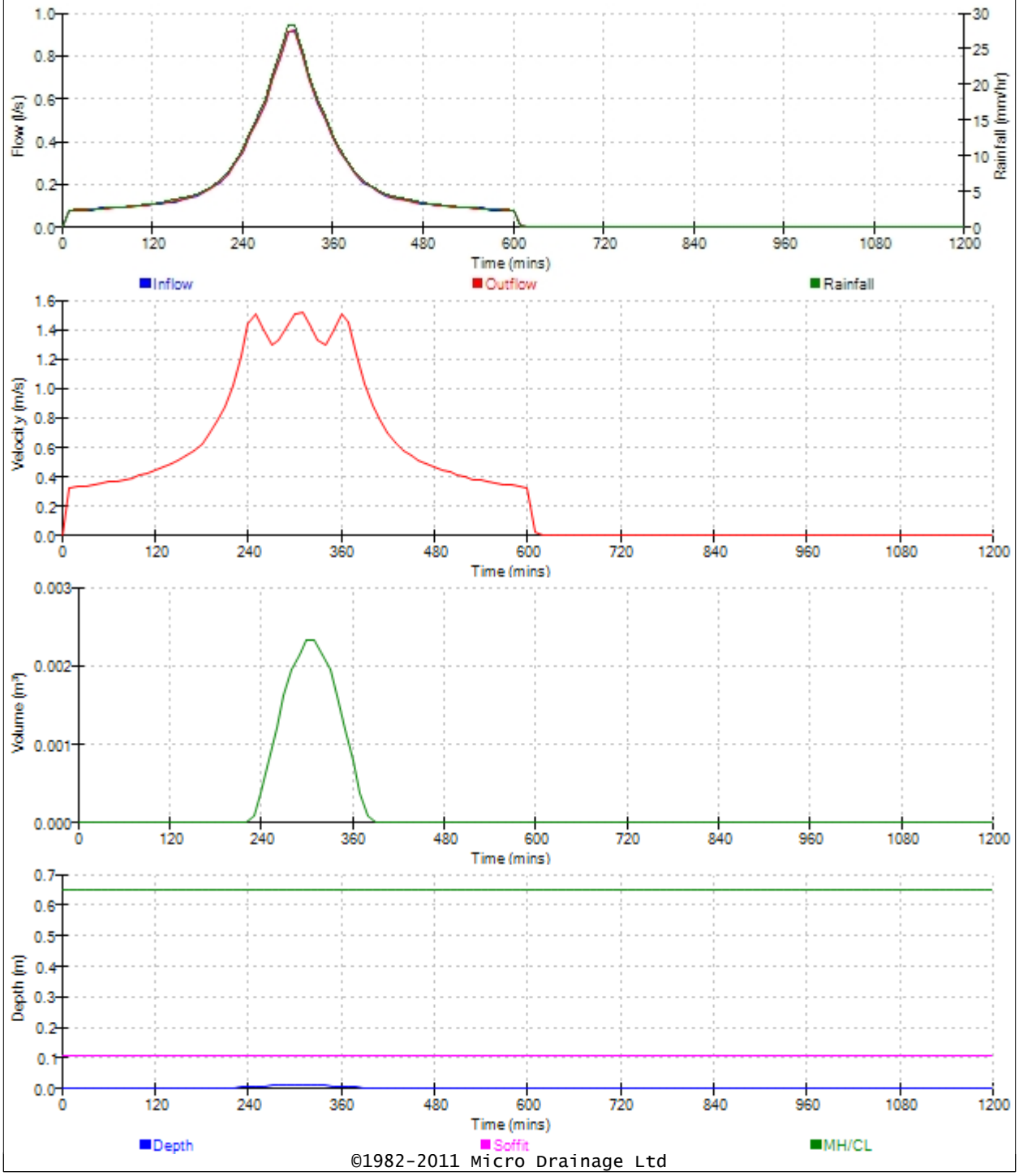
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Status: OK



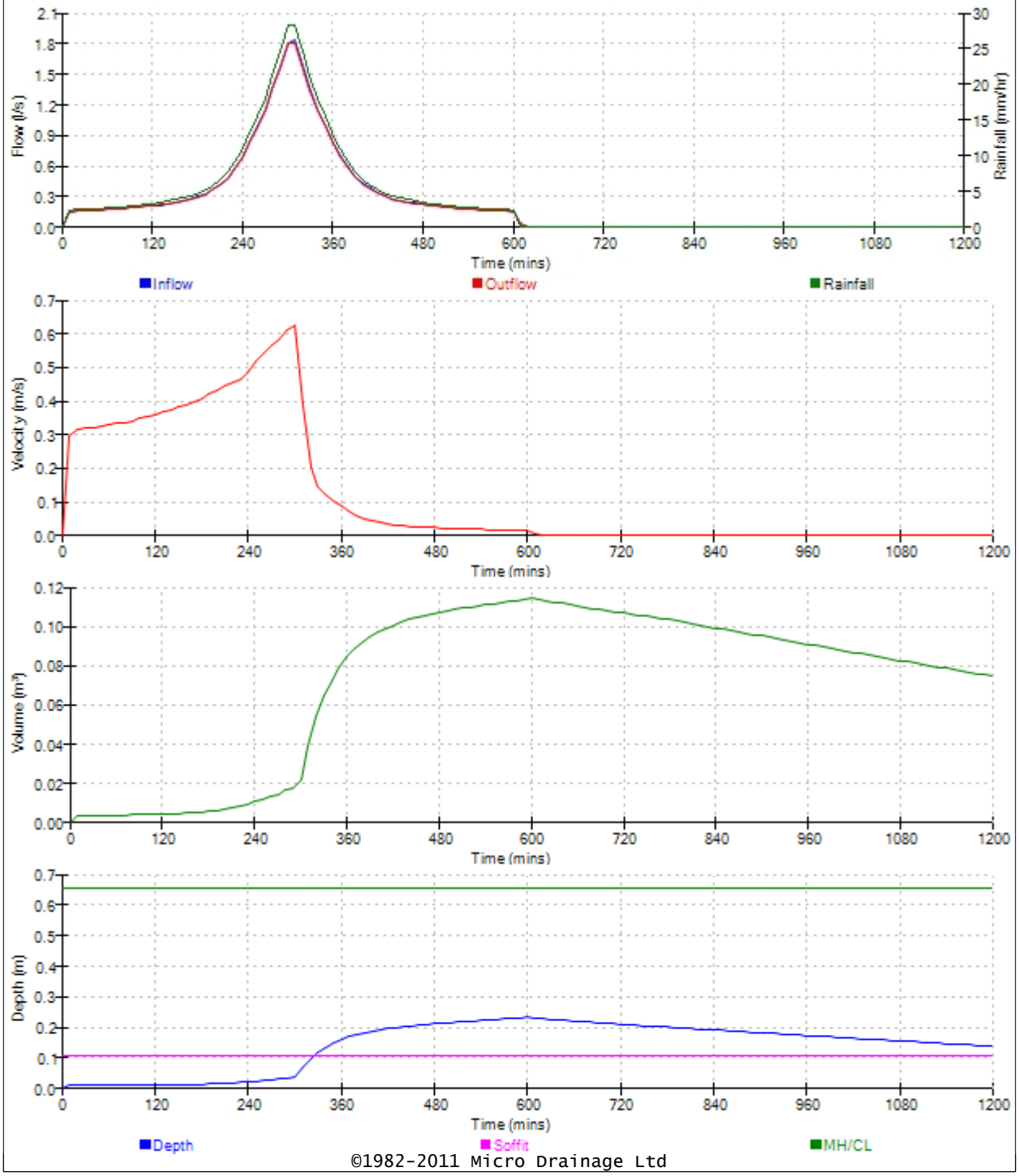
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Graphs for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Status: OK



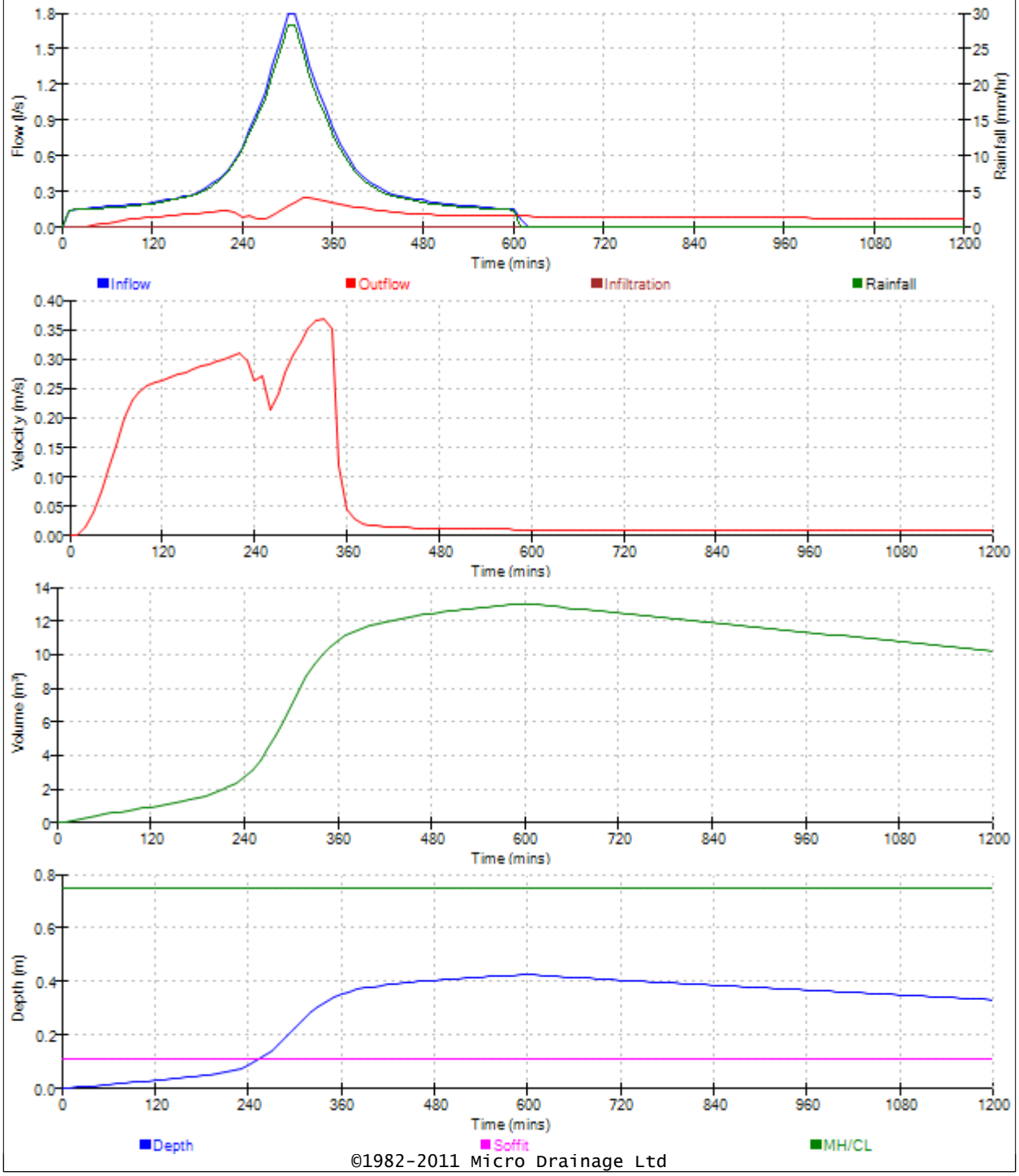
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Graphs for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Status: SURCHARGED



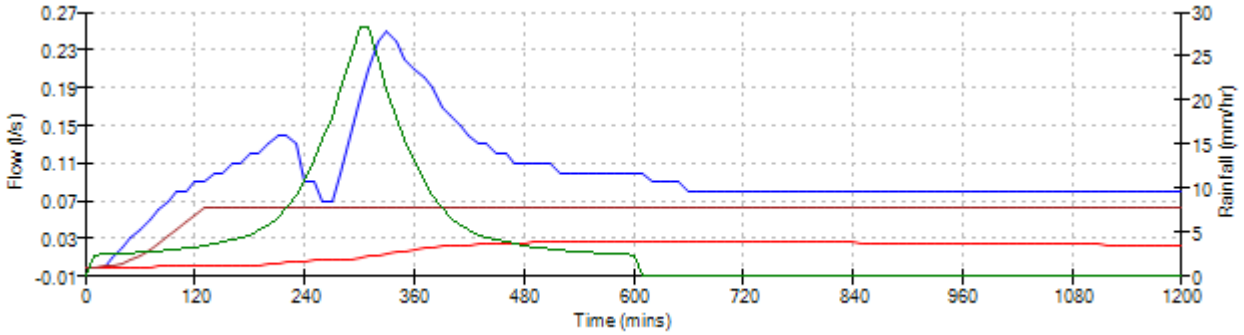
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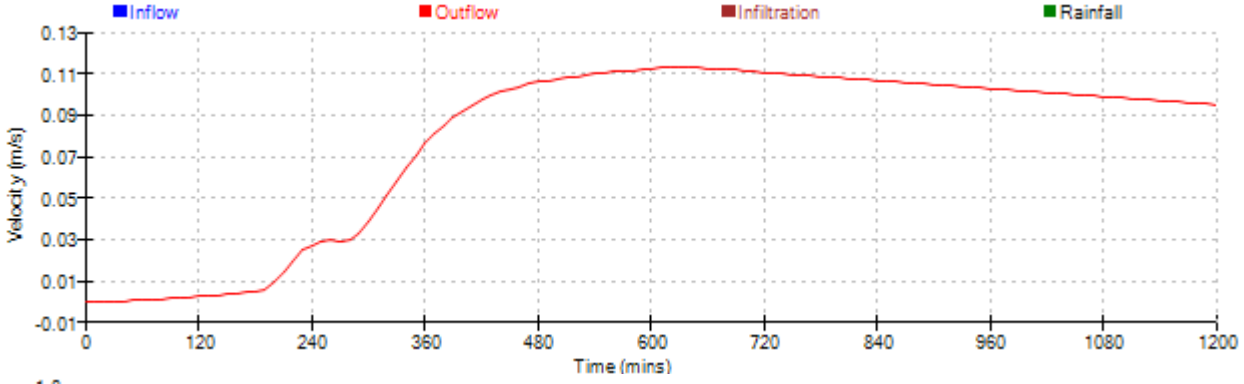
Graphs for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Status: SURCHARGED

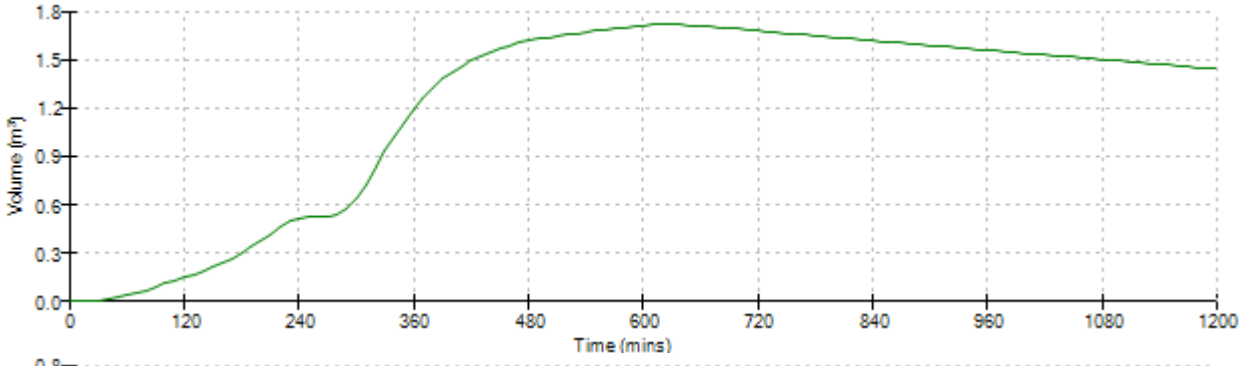


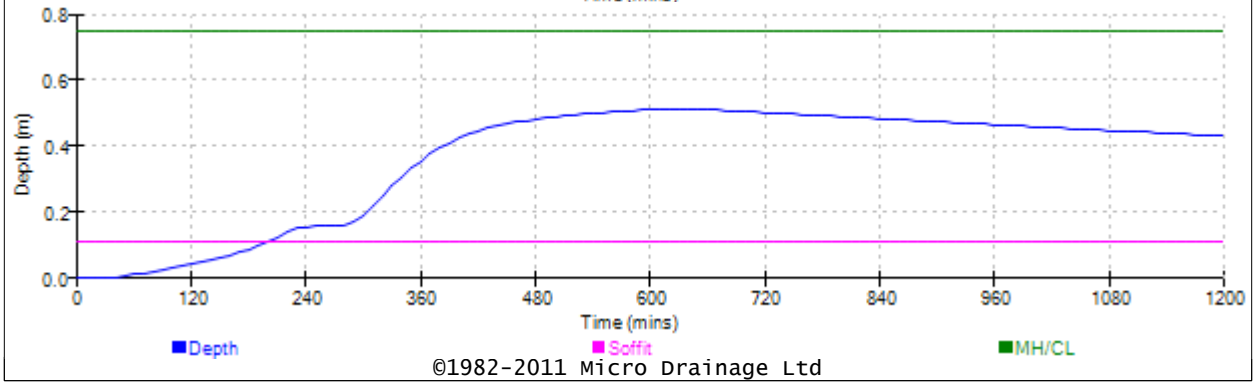
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.401	63.500	-0.109	0.0	0.2	0.0
20	65.401	63.500	-0.109	0.0	0.2	0.0
30	65.401	63.500	-0.109	0.0	0.2	0.0
40	65.401	63.501	-0.109	0.0	0.2	0.0
50	65.401	63.501	-0.109	0.0	0.2	0.0
60	65.401	63.501	-0.109	0.0	0.2	0.0
70	65.401	63.501	-0.109	0.0	0.2	0.0
80	65.401	63.501	-0.109	0.0	0.2	0.0
90	65.401	63.502	-0.109	0.0	0.2	0.0
100	65.401	63.502	-0.109	0.0	0.2	0.1
110	65.401	63.502	-0.109	0.0	0.2	0.1
120	65.401	63.502	-0.109	0.0	0.2	0.1
130	65.401	63.503	-0.109	0.0	0.2	0.1
140	65.401	63.503	-0.109	0.0	0.2	0.1
150	65.401	63.504	-0.109	0.0	0.3	0.1
160	65.401	63.504	-0.109	0.0	0.3	0.1
170	65.401	63.505	-0.109	0.0	0.3	0.1
180	65.402	63.505	-0.108	0.0	0.3	0.1
190	65.402	63.506	-0.108	0.0	0.3	0.1
200	65.402	63.506	-0.108	0.0	0.4	0.1
210	65.402	63.507	-0.108	0.0	0.4	0.1
220	65.403	63.508	-0.107	0.0	0.5	0.1
230	65.403	63.509	-0.107	0.0	0.6	0.1
240	65.404	63.510	-0.106	0.0	0.7	0.2
250	65.404	63.512	-0.106	0.0	0.9	0.2
260	65.405	63.514	-0.105	0.0	1.0	0.3
270	65.406	63.516	-0.104	0.0	1.2	0.3
280	65.407	63.518	-0.103	0.0	1.4	0.3
290	65.408	63.519	-0.102	0.0	1.3	0.4
300	65.409	63.521	-0.101	0.0	1.2	0.5
310	65.409	63.525	-0.101	0.0	1.2	0.5
320	65.408	63.543	-0.102	0.0	1.3	0.4
330	65.407	63.563	-0.103	0.0	1.4	0.3
340	65.406	63.580	-0.104	0.0	1.2	0.3
350	65.405	63.595	-0.105	0.0	1.0	0.3
360	65.404	63.606	-0.106	0.0	0.9	0.2
370	65.404	63.615	-0.106	0.0	0.7	0.2
380	65.403	63.623	-0.107	0.0	0.6	0.1
390	65.403	63.628	-0.107	0.0	0.5	0.1
400	65.402	63.633	-0.108	0.0	0.4	0.1
410	65.402	63.637	-0.108	0.0	0.4	0.1
420	65.402	63.641	-0.108	0.0	0.3	0.1
430	65.402	63.644	-0.108	0.0	0.3	0.1
440	65.401	63.647	-0.109	0.0	0.3	0.1
450	65.401	63.649	-0.109	0.0	0.3	0.1
460	65.401	63.652	-0.109	0.0	0.3	0.1
470	65.401	63.654	-0.109	0.0	0.2	0.1
480	65.401	63.656	-0.109	0.0	0.2	0.1
490	65.401	63.658	-0.109	0.0	0.2	0.1
500	65.401	63.661	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.401	63.663	-0.109	0.0	0.2	0.1
520	65.401	63.664	-0.109	0.0	0.2	0.0
530	65.401	63.666	-0.109	0.0	0.2	0.0
540	65.401	63.668	-0.109	0.0	0.2	0.0
550	65.401	63.669	-0.109	0.0	0.2	0.0
560	65.401	63.671	-0.109	0.0	0.2	0.0
570	65.401	63.673	-0.109	0.0	0.2	0.0
580	65.401	63.674	-0.109	0.0	0.2	0.0
590	65.401	63.676	-0.109	0.0	0.2	0.0
600	65.401	63.677	-0.109	0.0	0.2	0.0
610	65.400	63.676	-0.110	0.0	0.0	0.0
620	65.400	63.674	-0.110	0.0	0.0	0.0
630	65.400	63.672	-0.110	0.0	0.0	0.0
640	65.400	63.669	-0.110	0.0	0.0	0.0
650	65.400	63.667	-0.110	0.0	0.0	0.0
660	65.400	63.666	-0.110	0.0	0.0	0.0
670	65.400	63.663	-0.110	0.0	0.0	0.0
680	65.400	63.661	-0.110	0.0	0.0	0.0
690	65.400	63.660	-0.110	0.0	0.0	0.0
700	65.400	63.658	-0.110	0.0	0.0	0.0
710	65.400	63.657	-0.110	0.0	0.0	0.0
720	65.400	63.655	-0.110	0.0	0.0	0.0
730	65.400	63.653	-0.110	0.0	0.0	0.0
740	65.400	63.652	-0.110	0.0	0.0	0.0
750	65.400	63.650	-0.110	0.0	0.0	0.0
760	65.400	63.649	-0.110	0.0	0.0	0.0
770	65.400	63.647	-0.110	0.0	0.0	0.0
780	65.400	63.646	-0.110	0.0	0.0	0.0
790	65.400	63.644	-0.110	0.0	0.0	0.0
800	65.400	63.642	-0.110	0.0	0.0	0.0
810	65.400	63.641	-0.110	0.0	0.0	0.0
820	65.400	63.639	-0.110	0.0	0.0	0.0
830	65.400	63.638	-0.110	0.0	0.0	0.0
840	65.400	63.636	-0.110	0.0	0.0	0.0
850	65.400	63.635	-0.110	0.0	0.0	0.0
860	65.400	63.633	-0.110	0.0	0.0	0.0
870	65.400	63.632	-0.110	0.0	0.0	0.0
880	65.400	63.630	-0.110	0.0	0.0	0.0
890	65.400	63.629	-0.110	0.0	0.0	0.0
900	65.400	63.627	-0.110	0.0	0.0	0.0
910	65.400	63.626	-0.110	0.0	0.0	0.0
920	65.400	63.624	-0.110	0.0	0.0	0.0
930	65.400	63.623	-0.110	0.0	0.0	0.0
940	65.400	63.621	-0.110	0.0	0.0	0.0
950	65.400	63.620	-0.110	0.0	0.0	0.0
960	65.400	63.618	-0.110	0.0	0.0	0.0
970	65.400	63.617	-0.110	0.0	0.0	0.0
980	65.400	63.615	-0.110	0.0	0.0	0.0
990	65.400	63.614	-0.110	0.0	0.0	0.0
1000	65.400	63.612	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	63.611	-0.110	0.0	0.0	0.0
1020	65.400	63.609	-0.110	0.0	0.0	0.0
1030	65.400	63.607	-0.110	0.0	0.0	0.0
1040	65.400	63.606	-0.110	0.0	0.0	0.0
1050	65.400	63.605	-0.110	0.0	0.0	0.0
1060	65.400	63.603	-0.110	0.0	0.0	0.0
1070	65.400	63.601	-0.110	0.0	0.0	0.0
1080	65.400	63.600	-0.110	0.0	0.0	0.0
1090	65.400	63.598	-0.110	0.0	0.0	0.0
1100	65.400	63.597	-0.110	0.0	0.0	0.0
1110	65.400	63.596	-0.110	0.0	0.0	0.0
1120	65.400	63.594	-0.110	0.0	0.0	0.0
1130	65.400	63.592	-0.110	0.0	0.0	0.0
1140	65.400	63.591	-0.110	0.0	0.0	0.0
1150	65.400	63.589	-0.110	0.0	0.0	0.0
1160	65.400	63.588	-0.110	0.0	0.0	0.0
1170	65.400	63.587	-0.110	0.0	0.0	0.0
1180	65.400	63.585	-0.110	0.0	0.0	0.0
1190	65.400	63.584	-0.110	0.0	0.0	0.0
1200	65.400	63.582	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.500	63.455	-0.104	0.0	0.3	0.1
20	63.500	63.455	-0.104	0.0	0.3	0.1
30	63.500	63.455	-0.104	0.0	0.3	0.1
40	63.501	63.456	-0.103	0.0	0.3	0.1
50	63.501	63.456	-0.103	0.0	0.4	0.1
60	63.501	63.456	-0.103	0.0	0.4	0.1
70	63.501	63.456	-0.103	0.0	0.4	0.1
80	63.501	63.456	-0.103	0.0	0.4	0.1
90	63.502	63.456	-0.103	0.0	0.3	0.1
100	63.502	63.456	-0.102	0.0	0.3	0.1
110	63.502	63.456	-0.102	0.0	0.3	0.1
120	63.502	63.457	-0.102	0.0	0.3	0.1
130	63.503	63.457	-0.101	0.0	0.3	0.1
140	63.503	63.457	-0.101	0.0	0.3	0.1
150	63.504	63.457	-0.100	0.0	0.3	0.1
160	63.504	63.458	-0.100	0.0	0.3	0.1
170	63.505	63.458	-0.099	0.0	0.3	0.1
180	63.505	63.459	-0.099	0.0	0.3	0.2
190	63.506	63.459	-0.098	0.0	0.3	0.2
200	63.506	63.460	-0.098	0.0	0.3	0.2
210	63.507	63.461	-0.097	0.0	0.3	0.2
220	63.508	63.463	-0.096	0.0	0.4	0.2
230	63.509	63.465	-0.095	0.0	0.4	0.3
240	63.510	63.467	-0.094	0.0	0.4	0.3
250	63.512	63.469	-0.092	0.0	0.4	0.4
260	63.514	63.471	-0.090	0.0	0.4	0.5
270	63.516	63.474	-0.088	0.0	0.4	0.6
280	63.518	63.477	-0.087	0.0	0.5	0.7
290	63.519	63.479	-0.085	0.0	0.5	0.8
300	63.521	63.485	-0.083	0.0	0.5	0.9
310	63.525	63.515	-0.079	0.0	0.5	0.9
320	63.543	63.540	-0.061	0.0	0.3	0.8
330	63.563	63.560	-0.041	0.0	0.1	0.7
340	63.580	63.578	-0.024	0.0	0.1	0.6
350	63.595	63.592	-0.010	0.0	0.1	0.5
360	63.606	63.604	0.002	0.0	0.0	0.4
370	63.615	63.614	0.011	0.0	0.0	0.3
380	63.623	63.621	0.019	0.0	0.0	0.3
390	63.628	63.627	0.024	0.0	0.0	0.2
400	63.633	63.632	0.029	0.0	0.0	0.2
410	63.637	63.636	0.033	0.0	0.0	0.2
420	63.641	63.640	0.037	0.0	0.0	0.2
430	63.644	63.643	0.040	0.0	0.0	0.1
440	63.647	63.646	0.043	0.0	0.0	0.1
450	63.649	63.649	0.045	0.0	0.0	0.1
460	63.652	63.651	0.048	0.0	0.0	0.1
470	63.654	63.654	0.050	0.0	0.0	0.1
480	63.656	63.656	0.052	0.0	0.0	0.1
490	63.658	63.658	0.054	0.0	0.0	0.1
500	63.661	63.660	0.056	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.663	63.662	0.058	0.0	0.0	0.1
520	63.664	63.664	0.060	0.0	0.0	0.1
530	63.666	63.666	0.062	0.0	0.0	0.1
540	63.668	63.667	0.064	0.0	0.0	0.1
550	63.669	63.669	0.065	0.0	0.0	0.1
560	63.671	63.671	0.067	0.0	0.0	0.1
570	63.673	63.673	0.069	0.0	0.0	0.1
580	63.674	63.674	0.070	0.0	0.0	0.1
590	63.676	63.676	0.072	0.0	0.0	0.1
600	63.677	63.677	0.073	0.0	0.0	0.1
610	63.676	63.676	0.072	0.0	0.0	0.0
620	63.674	63.674	0.069	0.0	0.0	0.0
630	63.672	63.671	0.067	0.0	0.0	0.0
640	63.669	63.670	0.065	0.0	0.0	0.0
650	63.667	63.667	0.063	0.0	0.0	0.0
660	63.666	63.666	0.061	0.0	0.0	0.0
670	63.663	63.663	0.059	0.0	0.0	0.0
680	63.661	63.662	0.057	0.0	0.0	0.0
690	63.660	63.660	0.056	0.0	0.0	0.0
700	63.658	63.659	0.054	0.0	0.0	0.0
710	63.657	63.657	0.053	0.0	0.0	0.0
720	63.655	63.655	0.051	0.0	0.0	0.0
730	63.653	63.653	0.049	0.0	0.0	0.0
740	63.652	63.652	0.048	0.0	0.0	0.0
750	63.650	63.650	0.046	0.0	0.0	0.0
760	63.649	63.650	0.045	0.0	0.0	0.0
770	63.647	63.647	0.043	0.0	0.0	0.0
780	63.646	63.646	0.042	0.0	0.0	0.0
790	63.644	63.644	0.040	0.0	0.0	0.0
800	63.642	63.642	0.038	0.0	0.0	0.0
810	63.641	63.641	0.037	0.0	0.0	0.0
820	63.639	63.640	0.035	0.0	0.0	0.0
830	63.638	63.638	0.034	0.0	0.0	0.0
840	63.636	63.637	0.032	0.0	0.0	0.0
850	63.635	63.635	0.031	0.0	0.0	0.0
860	63.633	63.633	0.029	0.0	0.0	0.0
870	63.632	63.632	0.028	0.0	0.0	0.0
880	63.630	63.631	0.026	0.0	0.0	0.0
890	63.629	63.629	0.024	0.0	0.0	0.0
900	63.627	63.628	0.023	0.0	0.0	0.0
910	63.626	63.626	0.022	0.0	0.0	0.0
920	63.624	63.624	0.020	0.0	0.0	0.0
930	63.623	63.623	0.019	0.0	0.0	0.0
940	63.621	63.622	0.017	0.0	0.0	0.0
950	63.620	63.620	0.015	0.0	0.0	0.0
960	63.618	63.618	0.014	0.0	0.0	0.0
970	63.617	63.617	0.013	0.0	0.0	0.0
980	63.615	63.615	0.011	0.0	0.0	0.0
990	63.614	63.614	0.010	0.0	0.0	0.0
1000	63.612	63.612	0.008	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.611	63.611	0.007	0.0	0.0	0.0
1020	63.609	63.609	0.005	0.0	0.0	0.0
1030	63.607	63.608	0.003	0.0	0.0	0.0
1040	63.606	63.606	0.002	0.0	0.0	0.0
1050	63.605	63.605	0.001	0.0	0.0	0.0
1060	63.603	63.603	-0.001	0.0	0.0	0.0
1070	63.601	63.602	-0.003	0.0	0.0	0.0
1080	63.600	63.600	-0.004	0.0	0.0	0.0
1090	63.598	63.599	-0.006	0.0	0.0	0.0
1100	63.597	63.597	-0.007	0.0	0.0	0.0
1110	63.596	63.596	-0.008	0.0	0.0	0.0
1120	63.594	63.594	-0.010	0.0	0.0	0.0
1130	63.592	63.593	-0.012	0.0	0.0	0.0
1140	63.591	63.591	-0.013	0.0	0.0	0.0
1150	63.589	63.590	-0.015	0.0	0.0	0.0
1160	63.588	63.588	-0.016	0.0	0.0	0.0
1170	63.587	63.587	-0.018	0.0	0.0	0.0
1180	63.585	63.585	-0.019	0.0	0.0	0.0
1190	63.584	63.584	-0.020	0.0	0.0	0.0
1200	63.582	63.582	-0.022	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.401	65.001	-0.109	0.0	0.2	0.0
20	65.401	65.001	-0.109	0.0	0.2	0.0
30	65.401	65.001	-0.109	0.0	0.2	0.0
40	65.401	65.001	-0.109	0.0	0.2	0.0
50	65.401	65.002	-0.109	0.0	0.2	0.0
60	65.401	65.002	-0.109	0.0	0.2	0.0
70	65.401	65.002	-0.109	0.0	0.2	0.0
80	65.401	65.002	-0.109	0.0	0.2	0.0
90	65.401	65.002	-0.109	0.0	0.2	0.0
100	65.401	65.002	-0.109	0.0	0.2	0.1
110	65.401	65.002	-0.109	0.0	0.2	0.1
120	65.401	65.002	-0.109	0.0	0.2	0.1
130	65.401	65.002	-0.109	0.0	0.2	0.1
140	65.401	65.002	-0.109	0.0	0.2	0.1
150	65.402	65.002	-0.108	0.0	0.3	0.1
160	65.402	65.002	-0.108	0.0	0.3	0.1
170	65.402	65.002	-0.108	0.0	0.3	0.1
180	65.402	65.003	-0.108	0.0	0.3	0.1
190	65.402	65.003	-0.108	0.0	0.3	0.1
200	65.402	65.003	-0.108	0.0	0.4	0.1
210	65.403	65.004	-0.107	0.0	0.4	0.1
220	65.403	65.004	-0.107	0.0	0.5	0.1
230	65.404	65.005	-0.106	0.0	0.6	0.1
240	65.404	65.006	-0.106	0.0	0.7	0.2
250	65.405	65.008	-0.105	0.0	0.9	0.2
260	65.406	65.009	-0.104	0.0	1.0	0.3
270	65.407	65.010	-0.103	0.0	1.1	0.3
280	65.409	65.011	-0.101	0.0	1.0	0.3
290	65.410	65.012	-0.100	0.0	0.9	0.4
300	65.411	65.013	-0.099	0.0	0.9	0.5
310	65.411	65.013	-0.099	0.0	0.9	0.5
320	65.410	65.012	-0.100	0.0	0.9	0.4
330	65.409	65.011	-0.101	0.0	1.0	0.3
340	65.407	65.010	-0.103	0.0	1.1	0.3
350	65.406	65.009	-0.104	0.0	1.0	0.3
360	65.405	65.008	-0.105	0.0	0.9	0.2
370	65.404	65.006	-0.106	0.0	0.7	0.2
380	65.404	65.005	-0.106	0.0	0.6	0.1
390	65.403	65.004	-0.107	0.0	0.5	0.1
400	65.403	65.004	-0.107	0.0	0.4	0.1
410	65.402	65.003	-0.108	0.0	0.4	0.1
420	65.402	65.003	-0.108	0.0	0.3	0.1
430	65.402	65.003	-0.108	0.0	0.3	0.1
440	65.402	65.002	-0.108	0.0	0.3	0.1
450	65.402	65.002	-0.108	0.0	0.3	0.1
460	65.402	65.002	-0.108	0.0	0.3	0.1
470	65.401	65.002	-0.109	0.0	0.2	0.1
480	65.401	65.002	-0.109	0.0	0.2	0.1
490	65.401	65.002	-0.109	0.0	0.2	0.1
500	65.401	65.002	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.401	65.002	-0.109	0.0	0.2	0.1
520	65.401	65.002	-0.109	0.0	0.2	0.0
530	65.401	65.002	-0.109	0.0	0.2	0.0
540	65.401	65.002	-0.109	0.0	0.2	0.0
550	65.401	65.002	-0.109	0.0	0.2	0.0
560	65.401	65.002	-0.109	0.0	0.2	0.0
570	65.401	65.001	-0.109	0.0	0.2	0.0
580	65.401	65.001	-0.109	0.0	0.2	0.0
590	65.401	65.001	-0.109	0.0	0.2	0.0
600	65.401	65.001	-0.109	0.0	0.2	0.0
610	65.400	65.000	-0.110	0.0	0.0	0.0
620	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
640	65.400	65.000	-0.110	0.0	0.0	0.0
650	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
670	65.400	65.000	-0.110	0.0	0.0	0.0
680	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
700	65.400	65.000	-0.110	0.0	0.0	0.0
710	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
730	65.400	65.000	-0.110	0.0	0.0	0.0
740	65.400	65.000	-0.110	0.0	0.0	0.0
750	65.400	65.000	-0.110	0.0	0.0	0.0
760	65.400	65.000	-0.110	0.0	0.0	0.0
770	65.400	65.000	-0.110	0.0	0.0	0.0
780	65.400	65.000	-0.110	0.0	0.0	0.0
790	65.400	65.000	-0.110	0.0	0.0	0.0
800	65.400	65.000	-0.110	0.0	0.0	0.0
810	65.400	65.000	-0.110	0.0	0.0	0.0
820	65.400	65.000	-0.110	0.0	0.0	0.0
830	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
850	65.400	65.000	-0.110	0.0	0.0	0.0
860	65.400	65.000	-0.110	0.0	0.0	0.0
870	65.400	65.000	-0.110	0.0	0.0	0.0
880	65.400	65.000	-0.110	0.0	0.0	0.0
890	65.400	65.000	-0.110	0.0	0.0	0.0
900	65.400	65.000	-0.110	0.0	0.0	0.0
910	65.400	65.000	-0.110	0.0	0.0	0.0
920	65.400	65.000	-0.110	0.0	0.0	0.0
930	65.400	65.000	-0.110	0.0	0.0	0.0
940	65.400	65.000	-0.110	0.0	0.0	0.0
950	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
970	65.400	65.000	-0.110	0.0	0.0	0.0
980	65.400	65.000	-0.110	0.0	0.0	0.0
990	65.400	65.000	-0.110	0.0	0.0	0.0
1000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	65.000	-0.110	0.0	0.0	0.0
1020	65.400	65.000	-0.110	0.0	0.0	0.0
1030	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1050	65.400	65.000	-0.110	0.0	0.0	0.0
1060	65.400	65.000	-0.110	0.0	0.0	0.0
1070	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1090	65.400	65.000	-0.110	0.0	0.0	0.0
1100	65.400	65.000	-0.110	0.0	0.0	0.0
1110	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1130	65.400	65.000	-0.110	0.0	0.0	0.0
1140	65.400	65.000	-0.110	0.0	0.0	0.0
1150	65.400	65.000	-0.110	0.0	0.0	0.0
1160	65.400	65.000	-0.110	0.0	0.0	0.0
1170	65.400	65.000	-0.110	0.0	0.0	0.0
1180	65.400	65.000	-0.110	0.0	0.0	0.0
1190	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.001	63.455	-0.109	0.0	0.3	0.1
20	65.001	63.455	-0.109	0.0	0.3	0.1
30	65.001	63.455	-0.109	0.0	0.3	0.1
40	65.001	63.456	-0.109	0.0	0.3	0.1
50	65.002	63.456	-0.108	0.0	0.4	0.1
60	65.002	63.456	-0.108	0.0	0.4	0.1
70	65.002	63.456	-0.108	0.0	0.4	0.1
80	65.002	63.456	-0.108	0.0	0.4	0.1
90	65.002	63.456	-0.108	0.0	0.4	0.1
100	65.002	63.456	-0.108	0.0	0.4	0.1
110	65.002	63.456	-0.108	0.0	0.4	0.1
120	65.002	63.457	-0.108	0.0	0.4	0.1
130	65.002	63.457	-0.108	0.0	0.5	0.1
140	65.002	63.457	-0.108	0.0	0.5	0.1
150	65.002	63.457	-0.108	0.0	0.5	0.1
160	65.002	63.458	-0.108	0.0	0.5	0.1
170	65.002	63.458	-0.108	0.0	0.6	0.1
180	65.003	63.459	-0.107	0.0	0.6	0.2
190	65.003	63.459	-0.107	0.0	0.7	0.2
200	65.003	63.460	-0.107	0.0	0.8	0.2
210	65.004	63.461	-0.106	0.0	0.9	0.2
220	65.004	63.463	-0.106	0.0	1.0	0.2
230	65.005	63.465	-0.105	0.0	1.2	0.3
240	65.006	63.467	-0.104	0.0	1.4	0.3
250	65.008	63.469	-0.102	0.0	1.5	0.4
260	65.009	63.471	-0.101	0.0	1.4	0.5
270	65.010	63.474	-0.100	0.0	1.3	0.6
280	65.011	63.477	-0.099	0.0	1.3	0.7
290	65.012	63.479	-0.098	0.0	1.4	0.8
300	65.013	63.485	-0.097	0.0	1.5	0.9
310	65.013	63.515	-0.097	0.0	1.5	0.9
320	65.012	63.540	-0.098	0.0	1.4	0.8
330	65.011	63.560	-0.099	0.0	1.3	0.7
340	65.010	63.578	-0.100	0.0	1.3	0.6
350	65.009	63.592	-0.101	0.0	1.4	0.5
360	65.008	63.604	-0.102	0.0	1.5	0.4
370	65.006	63.614	-0.104	0.0	1.5	0.4
380	65.005	63.621	-0.105	0.0	1.2	0.3
390	65.004	63.627	-0.106	0.0	1.0	0.3
400	65.004	63.632	-0.106	0.0	0.9	0.2
410	65.003	63.636	-0.107	0.0	0.8	0.2
420	65.003	63.640	-0.107	0.0	0.7	0.2
430	65.003	63.643	-0.107	0.0	0.6	0.2
440	65.002	63.646	-0.108	0.0	0.6	0.1
450	65.002	63.649	-0.108	0.0	0.5	0.1
460	65.002	63.651	-0.108	0.0	0.5	0.1
470	65.002	63.654	-0.108	0.0	0.5	0.1
480	65.002	63.656	-0.108	0.0	0.5	0.1
490	65.002	63.658	-0.108	0.0	0.4	0.1
500	65.002	63.660	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.002	63.662	-0.108	0.0	0.4	0.1
520	65.002	63.664	-0.108	0.0	0.4	0.1
530	65.002	63.666	-0.108	0.0	0.4	0.1
540	65.002	63.667	-0.108	0.0	0.4	0.1
550	65.002	63.669	-0.108	0.0	0.4	0.1
560	65.002	63.671	-0.108	0.0	0.4	0.1
570	65.001	63.673	-0.109	0.0	0.4	0.1
580	65.001	63.674	-0.109	0.0	0.3	0.1
590	65.001	63.676	-0.109	0.0	0.3	0.1
600	65.001	63.677	-0.109	0.0	0.3	0.1
610	65.000	63.676	-0.110	0.0	0.0	0.0
620	65.000	63.674	-0.110	0.0	0.0	0.0
630	65.000	63.671	-0.110	0.0	0.0	0.0
640	65.000	63.670	-0.110	0.0	0.0	0.0
650	65.000	63.667	-0.110	0.0	0.0	0.0
660	65.000	63.666	-0.110	0.0	0.0	0.0
670	65.000	63.663	-0.110	0.0	0.0	0.0
680	65.000	63.662	-0.110	0.0	0.0	0.0
690	65.000	63.660	-0.110	0.0	0.0	0.0
700	65.000	63.659	-0.110	0.0	0.0	0.0
710	65.000	63.657	-0.110	0.0	0.0	0.0
720	65.000	63.655	-0.110	0.0	0.0	0.0
730	65.000	63.653	-0.110	0.0	0.0	0.0
740	65.000	63.652	-0.110	0.0	0.0	0.0
750	65.000	63.650	-0.110	0.0	0.0	0.0
760	65.000	63.650	-0.110	0.0	0.0	0.0
770	65.000	63.647	-0.110	0.0	0.0	0.0
780	65.000	63.646	-0.110	0.0	0.0	0.0
790	65.000	63.644	-0.110	0.0	0.0	0.0
800	65.000	63.642	-0.110	0.0	0.0	0.0
810	65.000	63.641	-0.110	0.0	0.0	0.0
820	65.000	63.640	-0.110	0.0	0.0	0.0
830	65.000	63.638	-0.110	0.0	0.0	0.0
840	65.000	63.637	-0.110	0.0	0.0	0.0
850	65.000	63.635	-0.110	0.0	0.0	0.0
860	65.000	63.633	-0.110	0.0	0.0	0.0
870	65.000	63.632	-0.110	0.0	0.0	0.0
880	65.000	63.631	-0.110	0.0	0.0	0.0
890	65.000	63.629	-0.110	0.0	0.0	0.0
900	65.000	63.628	-0.110	0.0	0.0	0.0
910	65.000	63.626	-0.110	0.0	0.0	0.0
920	65.000	63.624	-0.110	0.0	0.0	0.0
930	65.000	63.623	-0.110	0.0	0.0	0.0
940	65.000	63.622	-0.110	0.0	0.0	0.0
950	65.000	63.620	-0.110	0.0	0.0	0.0
960	65.000	63.618	-0.110	0.0	0.0	0.0
970	65.000	63.617	-0.110	0.0	0.0	0.0
980	65.000	63.615	-0.110	0.0	0.0	0.0
990	65.000	63.614	-0.110	0.0	0.0	0.0
1000	65.000	63.612	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.000	63.611	-0.110	0.0	0.0	0.0
1020	65.000	63.609	-0.110	0.0	0.0	0.0
1030	65.000	63.608	-0.110	0.0	0.0	0.0
1040	65.000	63.606	-0.110	0.0	0.0	0.0
1050	65.000	63.605	-0.110	0.0	0.0	0.0
1060	65.000	63.603	-0.110	0.0	0.0	0.0
1070	65.000	63.602	-0.110	0.0	0.0	0.0
1080	65.000	63.600	-0.110	0.0	0.0	0.0
1090	65.000	63.599	-0.110	0.0	0.0	0.0
1100	65.000	63.597	-0.110	0.0	0.0	0.0
1110	65.000	63.596	-0.110	0.0	0.0	0.0
1120	65.000	63.594	-0.110	0.0	0.0	0.0
1130	65.000	63.593	-0.110	0.0	0.0	0.0
1140	65.000	63.591	-0.110	0.0	0.0	0.0
1150	65.000	63.590	-0.110	0.0	0.0	0.0
1160	65.000	63.588	-0.110	0.0	0.0	0.0
1170	65.000	63.587	-0.110	0.0	0.0	0.0
1180	65.000	63.585	-0.110	0.0	0.0	0.0
1190	65.000	63.584	-0.110	0.0	0.0	0.0
1200	65.000	63.582	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.455	63.253	-0.099	0.0	0.3	0.1
20	63.455	63.256	-0.099	0.0	0.3	0.2
30	63.455	63.258	-0.099	0.0	0.3	0.2
40	63.456	63.261	-0.099	0.0	0.3	0.2
50	63.456	63.264	-0.098	0.0	0.3	0.2
60	63.456	63.266	-0.098	0.0	0.3	0.2
70	63.456	63.269	-0.098	0.0	0.3	0.2
80	63.456	63.271	-0.098	0.0	0.3	0.2
90	63.456	63.274	-0.098	0.0	0.3	0.2
100	63.456	63.276	-0.098	0.0	0.3	0.2
110	63.456	63.278	-0.098	0.0	0.4	0.2
120	63.457	63.281	-0.098	0.0	0.4	0.2
130	63.457	63.283	-0.097	0.0	0.4	0.2
140	63.457	63.286	-0.097	0.0	0.4	0.2
150	63.457	63.289	-0.097	0.0	0.4	0.2
160	63.458	63.292	-0.096	0.0	0.4	0.3
170	63.458	63.295	-0.096	0.0	0.4	0.3
180	63.459	63.298	-0.096	0.0	0.4	0.3
190	63.459	63.303	-0.095	0.0	0.4	0.3
200	63.460	63.307	-0.094	0.0	0.4	0.4
210	63.461	63.313	-0.093	0.0	0.4	0.4
220	63.463	63.319	-0.091	0.0	0.5	0.5
230	63.465	63.328	-0.089	0.0	0.5	0.6
240	63.467	63.339	-0.087	0.0	0.5	0.7
250	63.469	63.353	-0.085	0.0	0.5	0.8
260	63.471	63.371	-0.083	0.0	0.5	1.0
270	63.474	63.393	-0.080	0.0	0.6	1.2
280	63.477	63.418	-0.077	0.0	0.6	1.4
290	63.479	63.445	-0.075	0.0	0.6	1.6
300	63.485	63.477	-0.069	0.0	0.6	1.8
310	63.515	63.509	-0.040	0.0	0.4	1.8
320	63.540	63.535	-0.015	0.0	0.2	1.6
330	63.560	63.556	0.006	0.0	0.1	1.3
340	63.578	63.574	0.024	0.0	0.1	1.1
350	63.592	63.589	0.038	0.0	0.1	1.0
360	63.604	63.602	0.050	0.0	0.1	0.8
370	63.614	63.612	0.060	0.0	0.1	0.7
380	63.621	63.620	0.067	0.0	0.1	0.6
390	63.627	63.626	0.073	0.0	0.1	0.5
400	63.632	63.631	0.078	0.0	0.0	0.4
410	63.636	63.635	0.082	0.0	0.0	0.4
420	63.640	63.639	0.086	0.0	0.0	0.3
430	63.643	63.642	0.089	0.0	0.0	0.3
440	63.646	63.645	0.092	0.0	0.0	0.3
450	63.649	63.648	0.094	0.0	0.0	0.3
460	63.651	63.650	0.097	0.0	0.0	0.2
470	63.654	63.653	0.099	0.0	0.0	0.2
480	63.656	63.655	0.102	0.0	0.0	0.2
490	63.658	63.657	0.104	0.0	0.0	0.2
500	63.660	63.659	0.106	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.662	63.661	0.108	0.0	0.0	0.2
520	63.664	63.663	0.110	0.0	0.0	0.2
530	63.666	63.665	0.111	0.0	0.0	0.2
540	63.667	63.667	0.113	0.0	0.0	0.2
550	63.669	63.669	0.115	0.0	0.0	0.2
560	63.671	63.670	0.117	0.0	0.0	0.2
570	63.673	63.672	0.118	0.0	0.0	0.2
580	63.674	63.674	0.120	0.0	0.0	0.2
590	63.676	63.675	0.122	0.0	0.0	0.2
600	63.677	63.677	0.123	0.0	0.0	0.2
610	63.676	63.676	0.122	0.0	0.0	0.0
620	63.674	63.674	0.120	0.0	0.0	0.0
630	63.671	63.672	0.117	0.0	0.0	0.0
640	63.670	63.670	0.115	0.0	0.0	0.0
650	63.667	63.668	0.113	0.0	0.0	0.0
660	63.666	63.666	0.112	0.0	0.0	0.0
670	63.663	63.664	0.109	0.0	0.0	0.0
680	63.662	63.662	0.107	0.0	0.0	0.0
690	63.660	63.660	0.106	0.0	0.0	0.0
700	63.659	63.659	0.105	0.0	0.0	0.0
710	63.657	63.657	0.103	0.0	0.0	0.0
720	63.655	63.655	0.101	0.0	0.0	0.0
730	63.653	63.654	0.099	0.0	0.0	0.0
740	63.652	63.652	0.098	0.0	0.0	0.0
750	63.650	63.651	0.096	0.0	0.0	0.0
760	63.650	63.649	0.095	0.0	0.0	0.0
770	63.647	63.647	0.093	0.0	0.0	0.0
780	63.646	63.646	0.092	0.0	0.0	0.0
790	63.644	63.644	0.090	0.0	0.0	0.0
800	63.642	63.643	0.088	0.0	0.0	0.0
810	63.641	63.641	0.087	0.0	0.0	0.0
820	63.640	63.640	0.085	0.0	0.0	0.0
830	63.638	63.638	0.084	0.0	0.0	0.0
840	63.637	63.637	0.083	0.0	0.0	0.0
850	63.635	63.635	0.081	0.0	0.0	0.0
860	63.633	63.634	0.079	0.0	0.0	0.0
870	63.632	63.632	0.078	0.0	0.0	0.0
880	63.631	63.631	0.077	0.0	0.0	0.0
890	63.629	63.629	0.075	0.0	0.0	0.0
900	63.628	63.628	0.073	0.0	0.0	0.0
910	63.626	63.626	0.072	0.0	0.0	0.0
920	63.624	63.624	0.070	0.0	0.0	0.0
930	63.623	63.623	0.069	0.0	0.0	0.0
940	63.622	63.621	0.067	0.0	0.0	0.0
950	63.620	63.620	0.066	0.0	0.0	0.0
960	63.618	63.618	0.064	0.0	0.0	0.0
970	63.617	63.617	0.063	0.0	0.0	0.0
980	63.615	63.615	0.061	0.0	0.0	0.0
990	63.614	63.614	0.060	0.0	0.0	0.0
1000	63.612	63.612	0.058	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.611	63.611	0.057	0.0	0.0	0.0
1020	63.609	63.609	0.055	0.0	0.0	0.0
1030	63.608	63.608	0.053	0.0	0.0	0.0
1040	63.606	63.606	0.052	0.0	0.0	0.0
1050	63.605	63.605	0.051	0.0	0.0	0.0
1060	63.603	63.603	0.049	0.0	0.0	0.0
1070	63.602	63.602	0.048	0.0	0.0	0.0
1080	63.600	63.600	0.046	0.0	0.0	0.0
1090	63.599	63.599	0.045	0.0	0.0	0.0
1100	63.597	63.597	0.043	0.0	0.0	0.0
1110	63.596	63.596	0.042	0.0	0.0	0.0
1120	63.594	63.594	0.040	0.0	0.0	0.0
1130	63.593	63.593	0.039	0.0	0.0	0.0
1140	63.591	63.591	0.037	0.0	0.0	0.0
1150	63.590	63.590	0.036	0.0	0.0	0.0
1160	63.588	63.588	0.034	0.0	0.0	0.0
1170	63.587	63.587	0.033	0.0	0.0	0.0
1180	63.585	63.585	0.031	0.0	0.0	0.0
1190	63.584	63.584	0.030	0.0	0.0	0.0
1200	63.582	63.582	0.028	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.253	63.100	-0.107	0.0	0.0	0.0
20	63.256	63.101	-0.104	0.0	0.0	0.0
30	63.258	63.102	-0.102	0.0	0.0	0.0
40	63.261	63.104	-0.099	0.0	0.1	0.0
50	63.264	63.107	-0.096	0.0	0.1	0.0
60	63.266	63.111	-0.094	0.0	0.2	0.0
70	63.269	63.116	-0.091	0.0	0.2	0.0
80	63.271	63.122	-0.089	0.0	0.2	0.1
90	63.274	63.128	-0.086	0.0	0.2	0.1
100	63.276	63.135	-0.084	0.0	0.3	0.1
110	63.278	63.141	-0.082	0.0	0.3	0.1
120	63.281	63.146	-0.079	0.0	0.3	0.1
130	63.283	63.151	-0.077	0.0	0.3	0.1
140	63.286	63.157	-0.074	0.0	0.3	0.1
150	63.289	63.164	-0.071	0.0	0.3	0.1
160	63.292	63.172	-0.068	0.0	0.3	0.1
170	63.295	63.180	-0.065	0.0	0.3	0.1
180	63.298	63.189	-0.062	0.0	0.3	0.1
190	63.303	63.202	-0.057	0.0	0.3	0.1
200	63.307	63.213	-0.053	0.0	0.3	0.1
210	63.313	63.225	-0.047	0.0	0.3	0.1
220	63.319	63.239	-0.041	0.0	0.3	0.1
230	63.328	63.251	-0.032	0.0	0.3	0.1
240	63.339	63.254	-0.021	0.0	0.3	0.1
250	63.353	63.258	-0.007	0.0	0.3	0.1
260	63.371	63.259	0.011	0.0	0.2	0.1
270	63.393	63.257	0.033	0.0	0.2	0.1
280	63.418	63.262	0.058	0.0	0.3	0.1
290	63.445	63.274	0.085	0.0	0.3	0.1
300	63.477	63.292	0.117	0.0	0.3	0.2
310	63.509	63.318	0.149	0.0	0.4	0.2
320	63.535	63.348	0.175	0.0	0.4	0.2
330	63.556	63.379	0.196	0.0	0.4	0.2
340	63.574	63.407	0.214	0.0	0.4	0.2
350	63.589	63.433	0.229	0.0	0.1	0.2
360	63.602	63.456	0.242	0.0	0.0	0.2
370	63.612	63.477	0.252	0.0	0.0	0.2
380	63.620	63.495	0.260	0.0	0.0	0.2
390	63.626	63.511	0.266	0.0	0.0	0.2
400	63.631	63.525	0.271	0.0	0.0	0.2
410	63.635	63.537	0.275	0.0	0.0	0.2
420	63.639	63.547	0.279	0.0	0.0	0.1
430	63.642	63.556	0.282	0.0	0.0	0.1
440	63.645	63.563	0.285	0.0	0.0	0.1
450	63.648	63.568	0.288	0.0	0.0	0.1
460	63.650	63.574	0.290	0.0	0.0	0.1
470	63.653	63.578	0.293	0.0	0.0	0.1
480	63.655	63.582	0.295	0.0	0.0	0.1
490	63.657	63.586	0.297	0.0	0.0	0.1
500	63.659	63.589	0.299	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.661	63.592	0.301	0.0	0.0	0.1
520	63.663	63.594	0.303	0.0	0.0	0.1
530	63.665	63.597	0.305	0.0	0.0	0.1
540	63.667	63.599	0.307	0.0	0.0	0.1
550	63.669	63.601	0.309	0.0	0.0	0.1
560	63.670	63.603	0.310	0.0	0.0	0.1
570	63.672	63.605	0.312	0.0	0.0	0.1
580	63.674	63.607	0.314	0.0	0.0	0.1
590	63.675	63.609	0.315	0.0	0.0	0.1
600	63.677	63.611	0.317	0.0	0.0	0.1
610	63.676	63.612	0.316	0.0	0.0	0.1
620	63.674	63.613	0.314	0.0	0.0	0.1
630	63.672	63.613	0.312	0.0	0.0	0.1
640	63.670	63.612	0.310	0.0	0.0	0.1
650	63.668	63.612	0.308	0.0	0.0	0.1
660	63.666	63.610	0.306	0.0	0.0	0.1
670	63.664	63.609	0.304	0.0	0.0	0.1
680	63.662	63.608	0.302	0.0	0.0	0.1
690	63.660	63.606	0.300	0.0	0.0	0.1
700	63.659	63.605	0.299	0.0	0.0	0.1
710	63.657	63.603	0.297	0.0	0.0	0.1
720	63.655	63.601	0.295	0.0	0.0	0.1
730	63.654	63.600	0.294	0.0	0.0	0.1
740	63.652	63.598	0.292	0.0	0.0	0.1
750	63.651	63.597	0.291	0.0	0.0	0.1
760	63.649	63.595	0.289	0.0	0.0	0.1
770	63.647	63.594	0.287	0.0	0.0	0.1
780	63.646	63.592	0.286	0.0	0.0	0.1
790	63.644	63.591	0.284	0.0	0.0	0.1
800	63.643	63.589	0.283	0.0	0.0	0.1
810	63.641	63.588	0.281	0.0	0.0	0.1
820	63.640	63.586	0.280	0.0	0.0	0.1
830	63.638	63.585	0.278	0.0	0.0	0.1
840	63.637	63.583	0.277	0.0	0.0	0.1
850	63.635	63.582	0.275	0.0	0.0	0.1
860	63.634	63.580	0.274	0.0	0.0	0.1
870	63.632	63.579	0.272	0.0	0.0	0.1
880	63.631	63.577	0.271	0.0	0.0	0.1
890	63.629	63.576	0.269	0.0	0.0	0.1
900	63.628	63.574	0.268	0.0	0.0	0.1
910	63.626	63.573	0.266	0.0	0.0	0.1
920	63.624	63.571	0.264	0.0	0.0	0.1
930	63.623	63.570	0.263	0.0	0.0	0.1
940	63.621	63.568	0.261	0.0	0.0	0.1
950	63.620	63.567	0.260	0.0	0.0	0.1
960	63.618	63.566	0.258	0.0	0.0	0.1
970	63.617	63.564	0.257	0.0	0.0	0.1
980	63.615	63.563	0.255	0.0	0.0	0.1
990	63.614	63.561	0.254	0.0	0.0	0.1
1000	63.612	63.560	0.252	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.611	63.558	0.251	0.0	0.0	0.1
1020	63.609	63.557	0.249	0.0	0.0	0.1
1030	63.608	63.555	0.248	0.0	0.0	0.1
1040	63.606	63.554	0.246	0.0	0.0	0.1
1050	63.605	63.552	0.245	0.0	0.0	0.1
1060	63.603	63.551	0.243	0.0	0.0	0.1
1070	63.602	63.549	0.242	0.0	0.0	0.1
1080	63.600	63.548	0.240	0.0	0.0	0.1
1090	63.599	63.547	0.239	0.0	0.0	0.1
1100	63.597	63.545	0.237	0.0	0.0	0.1
1110	63.596	63.544	0.236	0.0	0.0	0.1
1120	63.594	63.542	0.234	0.0	0.0	0.1
1130	63.593	63.541	0.233	0.0	0.0	0.1
1140	63.591	63.539	0.231	0.0	0.0	0.1
1150	63.590	63.538	0.230	0.0	0.0	0.1
1160	63.588	63.536	0.228	0.0	0.0	0.1
1170	63.587	63.535	0.227	0.0	0.0	0.1
1180	63.585	63.534	0.225	0.0	0.0	0.1
1190	63.584	63.532	0.224	0.0	0.0	0.1
1200	63.582	63.531	0.222	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.100	63.096	-0.110	0.0	0.0	0.0
20	63.101	63.096	-0.109	0.0	0.0	0.0
30	63.102	63.096	-0.108	0.0	0.0	0.0
40	63.104	63.096	-0.106	0.0	0.0	0.0
50	63.107	63.096	-0.103	0.0	0.0	0.0
60	63.111	63.096	-0.099	0.0	0.0	0.0
70	63.116	63.096	-0.094	0.0	0.0	0.0
80	63.122	63.096	-0.088	0.0	0.0	0.0
90	63.128	63.096	-0.082	0.0	0.0	0.0
100	63.135	63.096	-0.075	0.0	0.0	0.0
110	63.141	63.096	-0.069	0.0	0.0	0.0
120	63.146	63.096	-0.064	0.0	0.0	0.0
130	63.151	63.096	-0.059	0.0	0.0	0.0
140	63.157	63.096	-0.053	0.0	0.0	0.0
150	63.164	63.096	-0.046	0.0	0.0	0.0
160	63.172	63.096	-0.038	0.0	0.0	0.0
170	63.180	63.096	-0.030	0.0	0.0	0.0
180	63.189	63.096	-0.021	0.0	0.0	0.0
190	63.202	63.096	-0.008	0.0	0.0	0.0
200	63.213	63.096	0.003	0.0	0.0	0.0
210	63.225	63.096	0.015	0.0	0.0	0.0
220	63.239	63.096	0.029	0.0	0.0	0.0
230	63.251	63.096	0.041	0.0	0.0	0.0
240	63.254	63.096	0.044	0.0	0.0	0.0
250	63.258	63.096	0.048	0.0	0.0	0.0
260	63.259	63.096	0.049	0.0	0.0	0.0
270	63.257	63.096	0.047	0.0	0.0	0.0
280	63.262	63.096	0.052	0.0	0.0	0.0
290	63.274	63.096	0.064	0.0	0.0	0.0
300	63.292	63.096	0.082	0.0	0.0	0.0
310	63.318	63.096	0.108	0.0	0.0	0.0
320	63.348	63.096	0.138	0.0	0.1	0.0
330	63.379	63.096	0.169	0.0	0.1	0.0
340	63.407	63.096	0.197	0.0	0.1	0.0
350	63.433	63.096	0.223	0.0	0.1	0.0
360	63.456	63.096	0.246	0.0	0.1	0.0
370	63.477	63.096	0.267	0.0	0.1	0.0
380	63.495	63.096	0.285	0.0	0.1	0.0
390	63.511	63.096	0.301	0.0	0.1	0.0
400	63.525	63.096	0.315	0.0	0.1	0.0
410	63.537	63.096	0.327	0.0	0.1	0.0
420	63.547	63.096	0.337	0.0	0.1	0.0
430	63.556	63.096	0.346	0.0	0.1	0.0
440	63.563	63.096	0.353	0.0	0.1	0.0
450	63.568	63.096	0.358	0.0	0.1	0.0
460	63.574	63.096	0.364	0.0	0.1	0.0
470	63.578	63.096	0.368	0.0	0.1	0.0
480	63.582	63.096	0.372	0.0	0.1	0.0
490	63.586	63.096	0.376	0.0	0.1	0.0
500	63.589	63.096	0.379	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.592	63.096	0.382	0.0	0.1	0.0
520	63.594	63.096	0.384	0.0	0.1	0.0
530	63.597	63.096	0.387	0.0	0.1	0.0
540	63.599	63.096	0.389	0.0	0.1	0.0
550	63.601	63.096	0.391	0.0	0.1	0.0
560	63.603	63.096	0.393	0.0	0.1	0.0
570	63.605	63.096	0.395	0.0	0.1	0.0
580	63.607	63.096	0.397	0.0	0.1	0.0
590	63.609	63.096	0.399	0.0	0.1	0.0
600	63.611	63.096	0.401	0.0	0.1	0.0
610	63.612	63.096	0.402	0.0	0.1	0.0
620	63.613	63.096	0.403	0.0	0.1	0.0
630	63.613	63.096	0.403	0.0	0.1	0.0
640	63.612	63.096	0.402	0.0	0.1	0.0
650	63.612	63.096	0.402	0.0	0.1	0.0
660	63.610	63.096	0.400	0.0	0.1	0.0
670	63.609	63.096	0.399	0.0	0.1	0.0
680	63.608	63.096	0.398	0.0	0.1	0.0
690	63.606	63.096	0.396	0.0	0.1	0.0
700	63.605	63.096	0.395	0.0	0.1	0.0
710	63.603	63.096	0.393	0.0	0.1	0.0
720	63.601	63.096	0.391	0.0	0.1	0.0
730	63.600	63.096	0.390	0.0	0.1	0.0
740	63.598	63.096	0.388	0.0	0.1	0.0
750	63.597	63.096	0.387	0.0	0.1	0.0
760	63.595	63.096	0.385	0.0	0.1	0.0
770	63.594	63.096	0.384	0.0	0.1	0.0
780	63.592	63.096	0.382	0.0	0.1	0.0
790	63.591	63.096	0.381	0.0	0.1	0.0
800	63.589	63.096	0.379	0.0	0.1	0.0
810	63.588	63.096	0.378	0.0	0.1	0.0
820	63.586	63.096	0.376	0.0	0.1	0.0
830	63.585	63.096	0.375	0.0	0.1	0.0
840	63.583	63.096	0.373	0.0	0.1	0.0
850	63.582	63.096	0.372	0.0	0.1	0.0
860	63.580	63.096	0.370	0.0	0.1	0.0
870	63.579	63.096	0.369	0.0	0.1	0.0
880	63.577	63.096	0.367	0.0	0.1	0.0
890	63.576	63.096	0.366	0.0	0.1	0.0
900	63.574	63.096	0.364	0.0	0.1	0.0
910	63.573	63.096	0.363	0.0	0.1	0.0
920	63.571	63.096	0.361	0.0	0.1	0.0
930	63.570	63.096	0.360	0.0	0.1	0.0
940	63.568	63.096	0.358	0.0	0.1	0.0
950	63.567	63.096	0.357	0.0	0.1	0.0
960	63.566	63.096	0.356	0.0	0.1	0.0
970	63.564	63.096	0.354	0.0	0.1	0.0
980	63.563	63.096	0.353	0.0	0.1	0.0
990	63.561	63.096	0.351	0.0	0.1	0.0
1000	63.560	63.096	0.350	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.558	63.096	0.348	0.0	0.1	0.0
1020	63.557	63.096	0.347	0.0	0.1	0.0
1030	63.555	63.096	0.345	0.0	0.1	0.0
1040	63.554	63.096	0.344	0.0	0.1	0.0
1050	63.552	63.096	0.342	0.0	0.1	0.0
1060	63.551	63.096	0.341	0.0	0.1	0.0
1070	63.549	63.096	0.339	0.0	0.1	0.0
1080	63.548	63.096	0.338	0.0	0.1	0.0
1090	63.547	63.096	0.337	0.0	0.1	0.0
1100	63.545	63.096	0.335	0.0	0.1	0.0
1110	63.544	63.096	0.334	0.0	0.1	0.0
1120	63.542	63.096	0.332	0.0	0.1	0.0
1130	63.541	63.096	0.331	0.0	0.1	0.0
1140	63.539	63.096	0.329	0.0	0.1	0.0
1150	63.538	63.096	0.328	0.0	0.1	0.0
1160	63.536	63.096	0.326	0.0	0.1	0.0
1170	63.535	63.096	0.325	0.0	0.1	0.0
1180	63.534	63.096	0.324	0.0	0.1	0.0
1190	63.532	63.096	0.322	0.0	0.1	0.0
1200	63.531	63.096	0.321	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1200
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	10

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	600
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 600 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.406	-0.104	0.000	0.01	0.0	0.3	OK
1.001	S1	63.680	0.076	0.000	0.09	0.0	0.6	SURCHARGED
2.000	RE2	65.408	-0.102	0.000	0.01	0.0	0.3	OK
2.001	S2	65.011	-0.099	0.000	0.02	0.0	0.6	OK
1.002	S3	63.680	0.126	0.000	0.17	0.0	1.2	SURCHARGED
1.003	S4	63.680	0.320	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.616	0.406	0.000	0.01	0.0	0.0	SURCHARGED

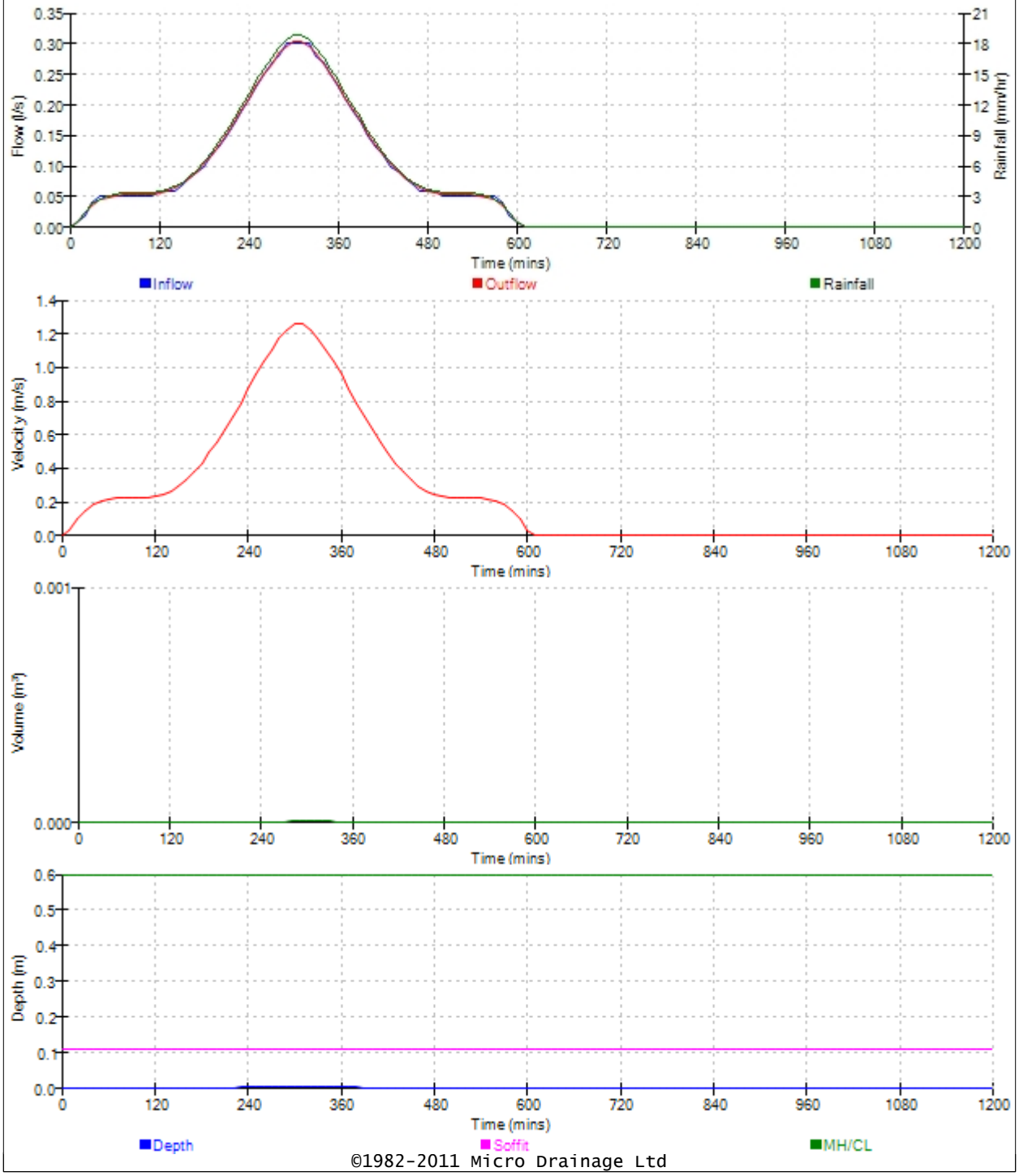
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Rainfall Hyetograph for 600 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
10	0.533	130	3.726	250	14.385	370	13.056	490	3.505
20	1.534	140	4.027	260	15.518	380	11.863	500	3.396
30	2.268	150	4.427	270	16.573	390	10.688	510	3.345
40	2.811	160	5.014	280	17.610	400	9.420	520	3.337
50	3.099	170	5.660	290	18.345	410	8.366	530	3.344
60	3.263	180	6.413	300	18.875	420	7.391	540	3.335
70	3.335	190	7.391	310	18.875	430	6.413	550	3.263
80	3.344	200	8.366	320	18.345	440	5.660	560	3.099
90	3.337	210	9.420	330	17.610	450	5.014	570	2.811
100	3.345	220	10.688	340	16.573	460	4.427	580	2.268
110	3.396	230	11.863	350	15.518	470	4.027	590	1.534
120	3.505	240	13.056	360	14.385	480	3.726	600	0.533

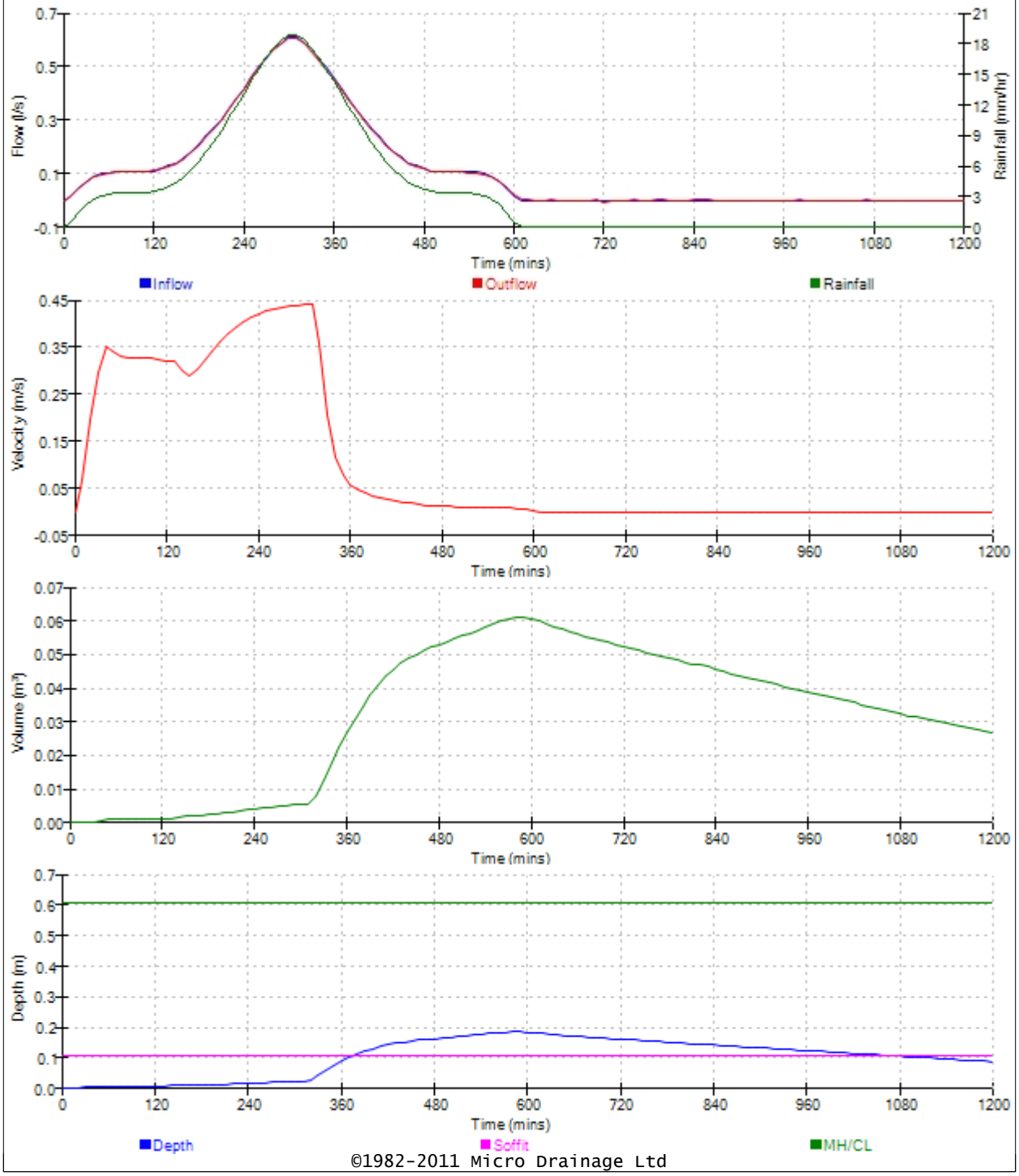
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Winter
Status: OK



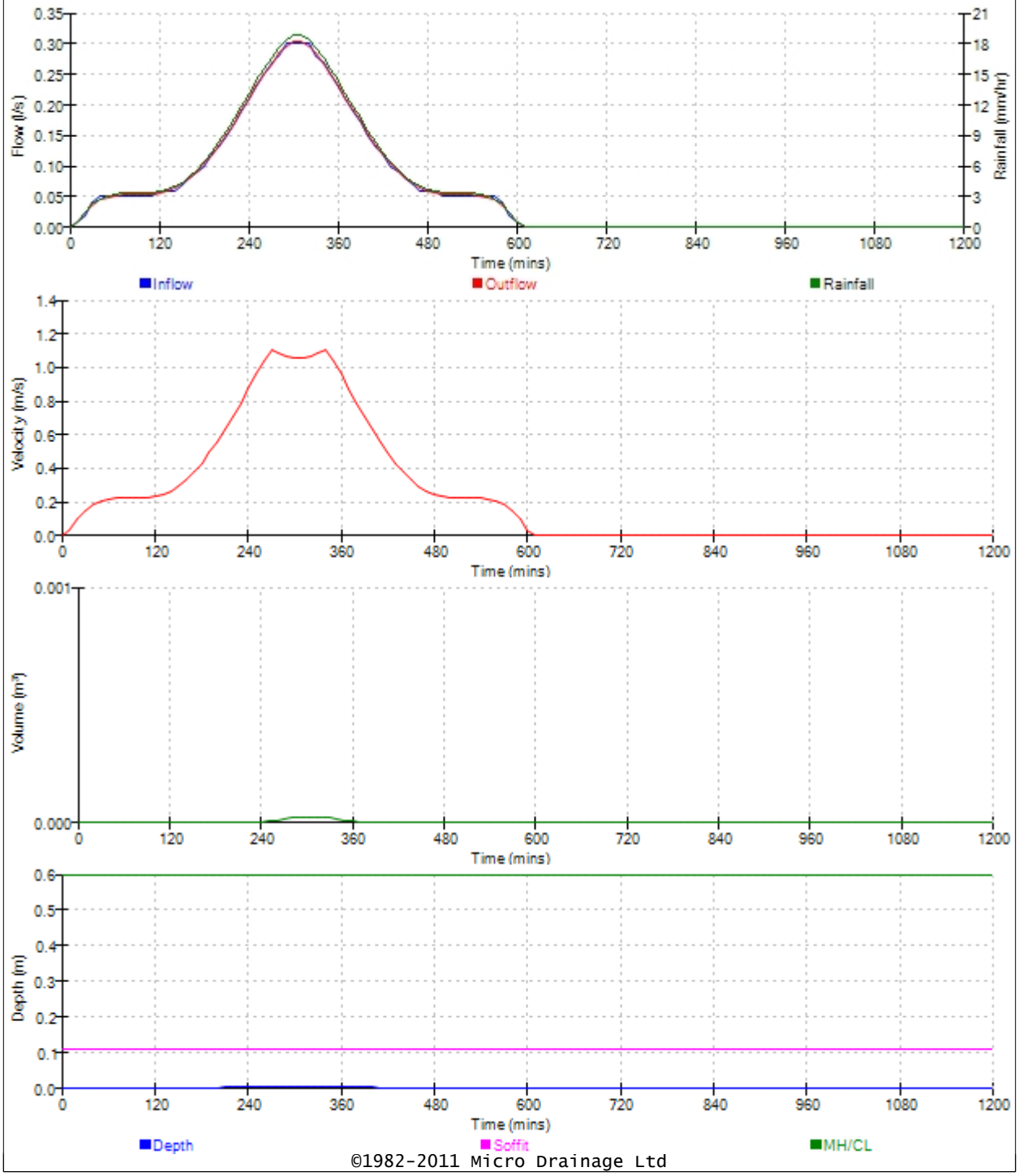
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Graphs for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Winter
Status: SURCHARGED



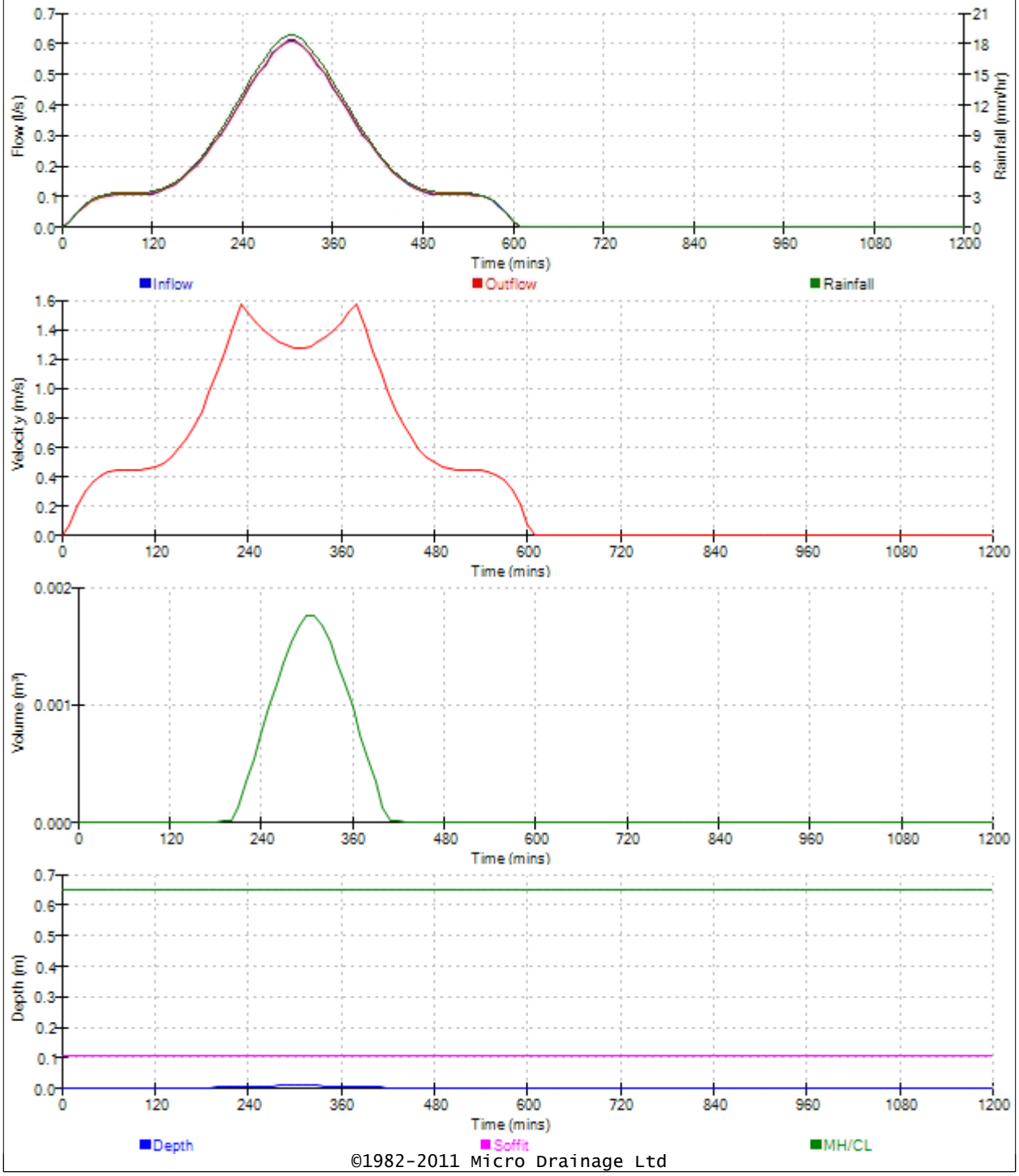
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Winter
Status: OK



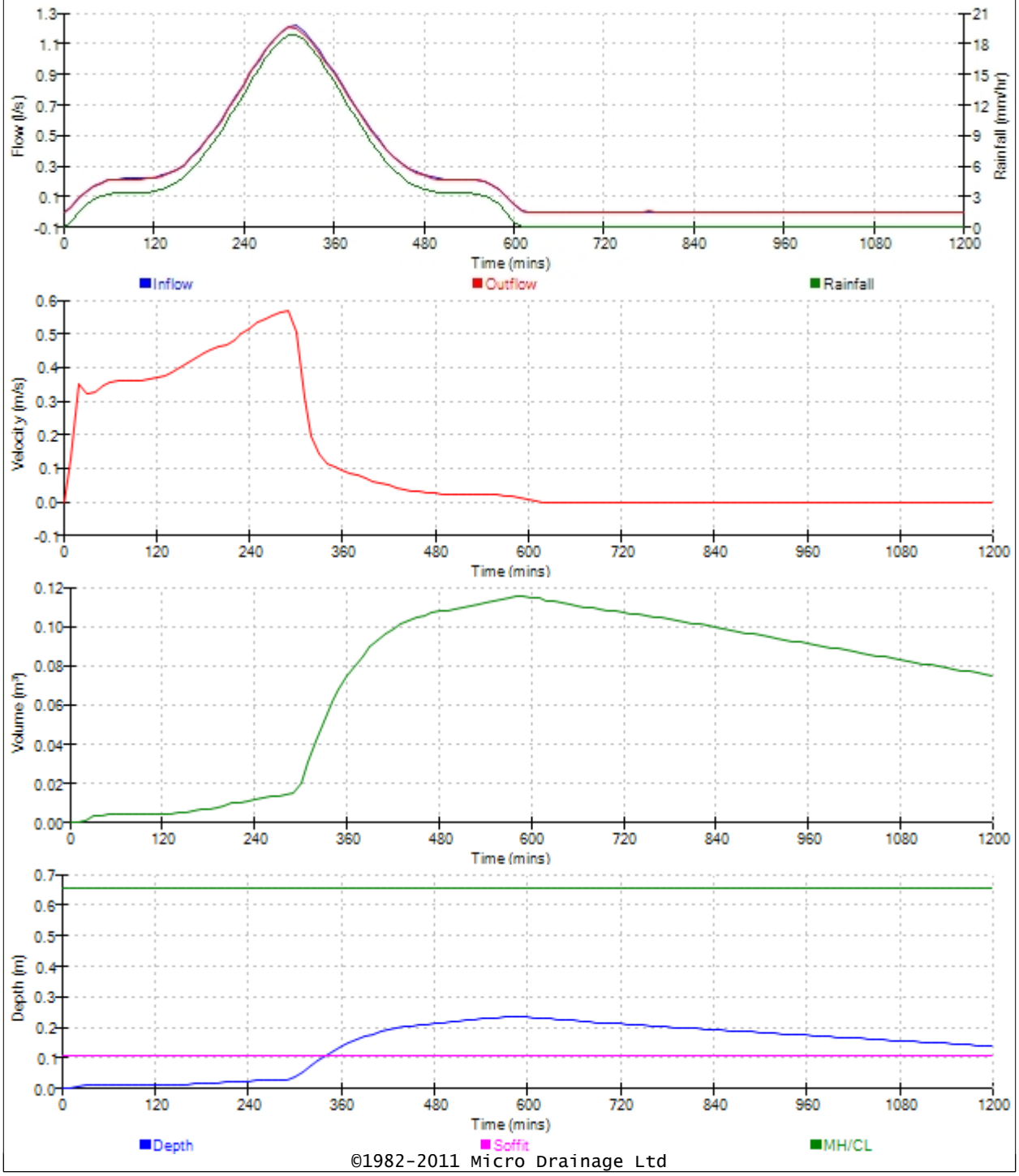
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Graphs for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Winter
Status: OK



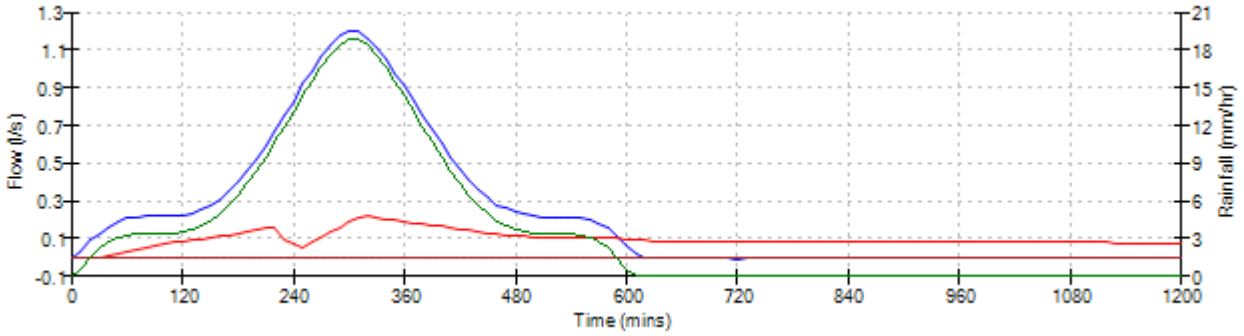
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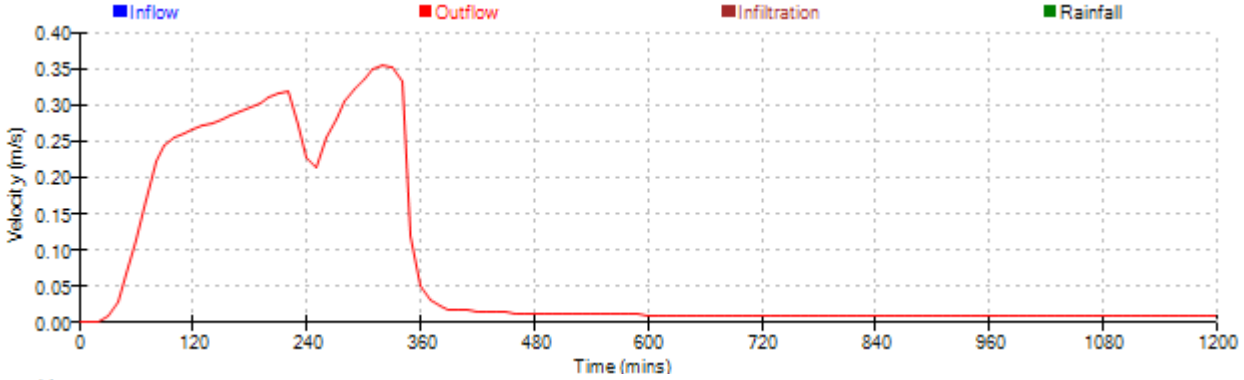
Graphs for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Winter
Status: SURCHARGED

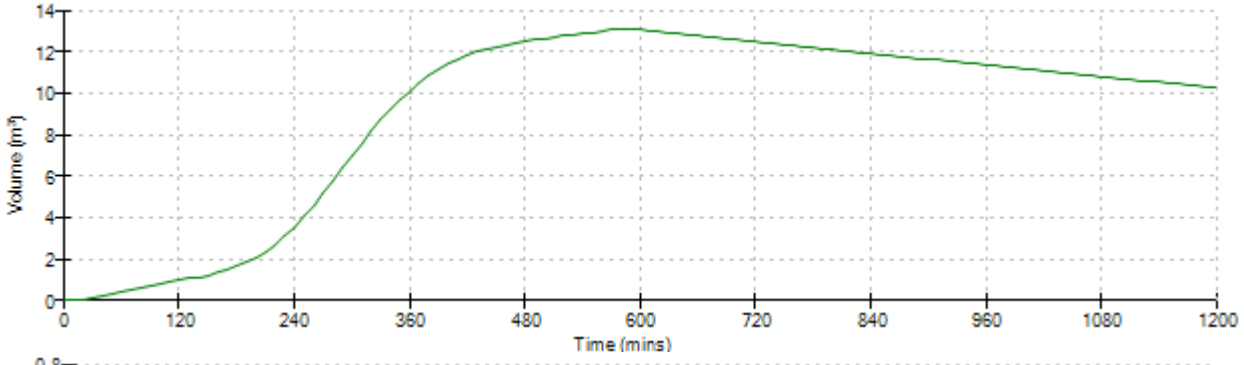


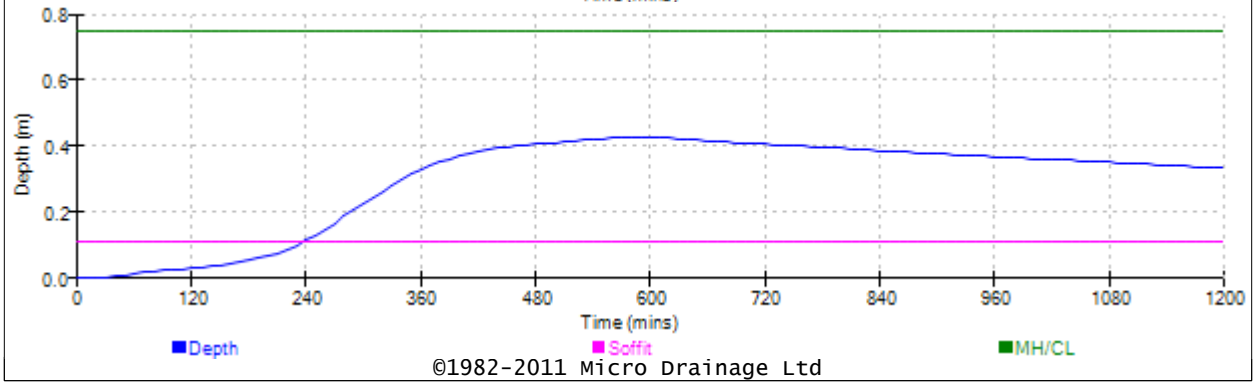
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Graphs for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Winter
Status: SURCHARGED



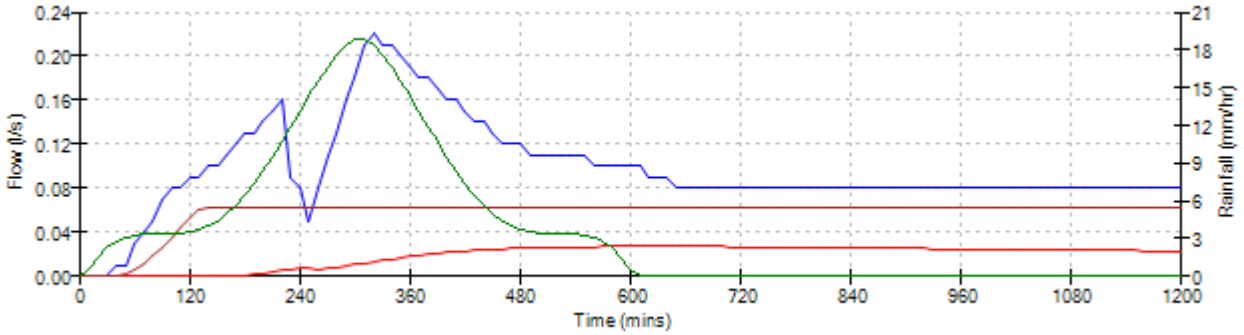


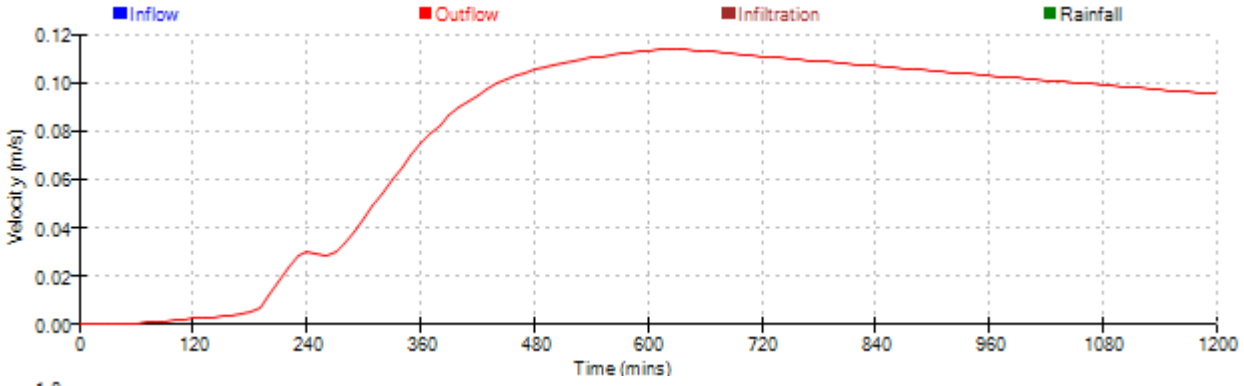


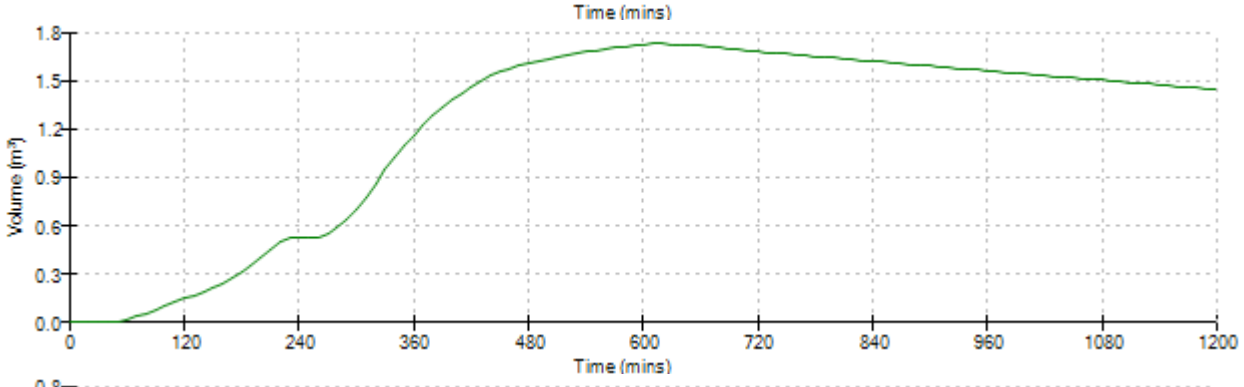


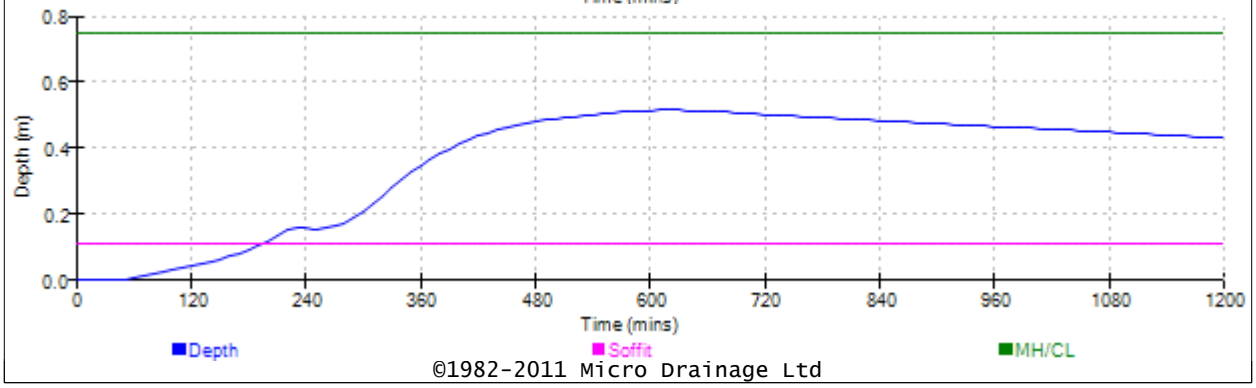
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.400	63.495	-0.110	0.0	0.0	0.0
20	65.401	63.498	-0.109	0.0	0.1	0.0
30	65.401	63.500	-0.109	0.0	0.2	0.0
40	65.401	63.501	-0.109	0.0	0.2	0.0
50	65.401	63.502	-0.109	0.0	0.2	0.0
60	65.401	63.502	-0.109	0.0	0.2	0.1
70	65.401	63.502	-0.109	0.0	0.2	0.1
80	65.401	63.502	-0.109	0.0	0.2	0.1
90	65.401	63.502	-0.109	0.0	0.2	0.1
100	65.401	63.502	-0.109	0.0	0.2	0.1
110	65.401	63.503	-0.109	0.0	0.2	0.1
120	65.401	63.503	-0.109	0.0	0.2	0.1
130	65.401	63.503	-0.109	0.0	0.2	0.1
140	65.401	63.504	-0.109	0.0	0.3	0.1
150	65.401	63.505	-0.109	0.0	0.3	0.1
160	65.402	63.506	-0.108	0.0	0.3	0.1
170	65.402	63.506	-0.108	0.0	0.4	0.1
180	65.402	63.507	-0.108	0.0	0.4	0.1
190	65.402	63.507	-0.108	0.0	0.5	0.1
200	65.403	63.508	-0.107	0.0	0.6	0.1
210	65.403	63.509	-0.107	0.0	0.6	0.2
220	65.404	63.510	-0.106	0.0	0.7	0.2
230	65.404	63.511	-0.106	0.0	0.8	0.2
240	65.404	63.512	-0.106	0.0	0.9	0.2
250	65.405	63.513	-0.105	0.0	1.0	0.2
260	65.405	63.514	-0.105	0.0	1.0	0.2
270	65.405	63.515	-0.105	0.0	1.1	0.3
280	65.406	63.515	-0.104	0.0	1.2	0.3
290	65.406	63.516	-0.104	0.0	1.2	0.3
300	65.406	63.516	-0.104	0.0	1.3	0.3
310	65.406	63.516	-0.104	0.0	1.3	0.3
320	65.406	63.524	-0.104	0.0	1.2	0.3
330	65.406	63.538	-0.104	0.0	1.2	0.3
340	65.405	63.555	-0.105	0.0	1.1	0.3
350	65.405	63.570	-0.105	0.0	1.0	0.3
360	65.405	63.584	-0.105	0.0	1.0	0.2
370	65.404	63.596	-0.106	0.0	0.9	0.2
380	65.404	63.607	-0.106	0.0	0.8	0.2
390	65.403	63.616	-0.107	0.0	0.7	0.2
400	65.403	63.624	-0.107	0.0	0.6	0.2
410	65.403	63.631	-0.107	0.0	0.6	0.1
420	65.402	63.637	-0.108	0.0	0.5	0.1
430	65.402	63.642	-0.108	0.0	0.4	0.1
440	65.402	63.646	-0.108	0.0	0.4	0.1
450	65.402	63.650	-0.108	0.0	0.3	0.1
460	65.401	63.653	-0.109	0.0	0.3	0.1
470	65.401	63.655	-0.109	0.0	0.3	0.1
480	65.401	63.658	-0.109	0.0	0.2	0.1
490	65.401	63.660	-0.109	0.0	0.2	0.1
500	65.401	63.662	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.401	63.665	-0.109	0.0	0.2	0.1
520	65.401	63.667	-0.109	0.0	0.2	0.1
530	65.401	63.669	-0.109	0.0	0.2	0.1
540	65.401	63.672	-0.109	0.0	0.2	0.1
550	65.401	63.675	-0.109	0.0	0.2	0.1
560	65.401	63.677	-0.109	0.0	0.2	0.0
570	65.401	63.679	-0.109	0.0	0.2	0.0
580	65.401	63.680	-0.109	0.0	0.2	0.0
590	65.400	63.680	-0.110	0.0	0.1	0.0
600	65.400	63.679	-0.110	0.0	0.0	0.0
610	65.400	63.677	-0.110	0.0	0.0	0.0
620	65.400	63.674	-0.110	0.0	0.0	0.0
630	65.400	63.672	-0.110	0.0	0.0	0.0
640	65.400	63.670	-0.110	0.0	0.0	0.0
650	65.400	63.668	-0.110	0.0	0.0	0.0
660	65.400	63.666	-0.110	0.0	0.0	0.0
670	65.400	63.664	-0.110	0.0	0.0	0.0
680	65.400	63.663	-0.110	0.0	0.0	0.0
690	65.400	63.661	-0.110	0.0	0.0	0.0
700	65.400	63.659	-0.110	0.0	0.0	0.0
710	65.400	63.657	-0.110	0.0	0.0	0.0
720	65.400	63.656	-0.110	0.0	0.0	0.0
730	65.400	63.654	-0.110	0.0	0.0	0.0
740	65.400	63.653	-0.110	0.0	0.0	0.0
750	65.400	63.651	-0.110	0.0	0.0	0.0
760	65.400	63.649	-0.110	0.0	0.0	0.0
770	65.400	63.648	-0.110	0.0	0.0	0.0
780	65.400	63.646	-0.110	0.0	0.0	0.0
790	65.400	63.645	-0.110	0.0	0.0	0.0
800	65.400	63.643	-0.110	0.0	0.0	0.0
810	65.400	63.641	-0.110	0.0	0.0	0.0
820	65.400	63.641	-0.110	0.0	0.0	0.0
830	65.400	63.639	-0.110	0.0	0.0	0.0
840	65.400	63.637	-0.110	0.0	0.0	0.0
850	65.400	63.636	-0.110	0.0	0.0	0.0
860	65.400	63.634	-0.110	0.0	0.0	0.0
870	65.400	63.632	-0.110	0.0	0.0	0.0
880	65.400	63.631	-0.110	0.0	0.0	0.0
890	65.400	63.630	-0.110	0.0	0.0	0.0
900	65.400	63.628	-0.110	0.0	0.0	0.0
910	65.400	63.626	-0.110	0.0	0.0	0.0
920	65.400	63.625	-0.110	0.0	0.0	0.0
930	65.400	63.623	-0.110	0.0	0.0	0.0
940	65.400	63.621	-0.110	0.0	0.0	0.0
950	65.400	63.620	-0.110	0.0	0.0	0.0
960	65.400	63.619	-0.110	0.0	0.0	0.0
970	65.400	63.617	-0.110	0.0	0.0	0.0
980	65.400	63.616	-0.110	0.0	0.0	0.0
990	65.400	63.614	-0.110	0.0	0.0	0.0
1000	65.400	63.613	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	63.611	-0.110	0.0	0.0	0.0
1020	65.400	63.610	-0.110	0.0	0.0	0.0
1030	65.400	63.608	-0.110	0.0	0.0	0.0
1040	65.400	63.606	-0.110	0.0	0.0	0.0
1050	65.400	63.605	-0.110	0.0	0.0	0.0
1060	65.400	63.604	-0.110	0.0	0.0	0.0
1070	65.400	63.602	-0.110	0.0	0.0	0.0
1080	65.400	63.600	-0.110	0.0	0.0	0.0
1090	65.400	63.599	-0.110	0.0	0.0	0.0
1100	65.400	63.598	-0.110	0.0	0.0	0.0
1110	65.400	63.596	-0.110	0.0	0.0	0.0
1120	65.400	63.594	-0.110	0.0	0.0	0.0
1130	65.400	63.593	-0.110	0.0	0.0	0.0
1140	65.400	63.592	-0.110	0.0	0.0	0.0
1150	65.400	63.590	-0.110	0.0	0.0	0.0
1160	65.400	63.589	-0.110	0.0	0.0	0.0
1170	65.400	63.587	-0.110	0.0	0.0	0.0
1180	65.400	63.586	-0.110	0.0	0.0	0.0
1190	65.400	63.584	-0.110	0.0	0.0	0.0
1200	65.400	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.495	63.447	-0.109	0.0	0.1	0.0
20	63.498	63.451	-0.106	0.0	0.2	0.0
30	63.500	63.455	-0.104	0.0	0.3	0.1
40	63.501	63.456	-0.103	0.0	0.4	0.1
50	63.502	63.456	-0.102	0.0	0.3	0.1
60	63.502	63.456	-0.102	0.0	0.3	0.1
70	63.502	63.457	-0.102	0.0	0.3	0.1
80	63.502	63.457	-0.102	0.0	0.3	0.1
90	63.502	63.457	-0.102	0.0	0.3	0.1
100	63.502	63.457	-0.102	0.0	0.3	0.1
110	63.503	63.457	-0.102	0.0	0.3	0.1
120	63.503	63.457	-0.101	0.0	0.3	0.1
130	63.503	63.457	-0.101	0.0	0.3	0.1
140	63.504	63.458	-0.100	0.0	0.3	0.1
150	63.505	63.458	-0.099	0.0	0.3	0.1
160	63.506	63.459	-0.099	0.0	0.3	0.2
170	63.506	63.460	-0.098	0.0	0.3	0.2
180	63.507	63.461	-0.097	0.0	0.3	0.2
190	63.507	63.463	-0.097	0.0	0.4	0.2
200	63.508	63.464	-0.096	0.0	0.4	0.3
210	63.509	63.466	-0.095	0.0	0.4	0.3
220	63.510	63.467	-0.094	0.0	0.4	0.3
230	63.511	63.468	-0.093	0.0	0.4	0.4
240	63.512	63.469	-0.092	0.0	0.4	0.4
250	63.513	63.470	-0.091	0.0	0.4	0.5
260	63.514	63.471	-0.090	0.0	0.4	0.5
270	63.515	63.472	-0.089	0.0	0.4	0.5
280	63.515	63.473	-0.089	0.0	0.4	0.6
290	63.516	63.474	-0.088	0.0	0.4	0.6
300	63.516	63.482	-0.088	0.0	0.4	0.6
310	63.516	63.501	-0.088	0.0	0.4	0.6
320	63.524	63.519	-0.081	0.0	0.4	0.6
330	63.538	63.536	-0.066	0.0	0.2	0.6
340	63.555	63.553	-0.049	0.0	0.1	0.5
350	63.570	63.568	-0.034	0.0	0.1	0.5
360	63.584	63.582	-0.020	0.0	0.1	0.5
370	63.596	63.594	-0.008	0.0	0.0	0.4
380	63.607	63.605	0.003	0.0	0.0	0.4
390	63.616	63.615	0.012	0.0	0.0	0.3
400	63.624	63.623	0.020	0.0	0.0	0.3
410	63.631	63.630	0.027	0.0	0.0	0.3
420	63.637	63.636	0.033	0.0	0.0	0.2
430	63.642	63.641	0.038	0.0	0.0	0.2
440	63.646	63.645	0.042	0.0	0.0	0.2
450	63.650	63.649	0.046	0.0	0.0	0.2
460	63.653	63.652	0.049	0.0	0.0	0.1
470	63.655	63.655	0.051	0.0	0.0	0.1
480	63.658	63.657	0.054	0.0	0.0	0.1
490	63.660	63.659	0.056	0.0	0.0	0.1
500	63.662	63.662	0.058	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.665	63.664	0.060	0.0	0.0	0.1
520	63.667	63.666	0.063	0.0	0.0	0.1
530	63.669	63.669	0.065	0.0	0.0	0.1
540	63.672	63.672	0.068	0.0	0.0	0.1
550	63.675	63.674	0.070	0.0	0.0	0.1
560	63.677	63.677	0.073	0.0	0.0	0.1
570	63.679	63.679	0.075	0.0	0.0	0.1
580	63.680	63.680	0.076	0.0	0.0	0.1
590	63.680	63.680	0.076	0.0	0.0	0.1
600	63.679	63.679	0.075	0.0	0.0	0.0
610	63.677	63.677	0.072	0.0	0.0	0.0
620	63.674	63.674	0.070	0.0	0.0	0.0
630	63.672	63.673	0.068	0.0	0.0	0.0
640	63.670	63.670	0.066	0.0	0.0	0.0
650	63.668	63.668	0.064	0.0	0.0	0.0
660	63.666	63.667	0.062	0.0	0.0	0.0
670	63.664	63.664	0.060	0.0	0.0	0.0
680	63.663	63.663	0.059	0.0	0.0	0.0
690	63.661	63.661	0.057	0.0	0.0	0.0
700	63.659	63.660	0.055	0.0	0.0	0.0
710	63.657	63.657	0.053	0.0	0.0	0.0
720	63.656	63.656	0.051	0.0	0.0	0.0
730	63.654	63.654	0.050	0.0	0.0	0.0
740	63.653	63.653	0.048	0.0	0.0	0.0
750	63.651	63.651	0.047	0.0	0.0	0.0
760	63.649	63.649	0.045	0.0	0.0	0.0
770	63.648	63.648	0.044	0.0	0.0	0.0
780	63.646	63.646	0.042	0.0	0.0	0.0
790	63.645	63.645	0.041	0.0	0.0	0.0
800	63.643	63.643	0.039	0.0	0.0	0.0
810	63.641	63.642	0.037	0.0	0.0	0.0
820	63.641	63.641	0.037	0.0	0.0	0.0
830	63.639	63.639	0.035	0.0	0.0	0.0
840	63.637	63.637	0.033	0.0	0.0	0.0
850	63.636	63.636	0.031	0.0	0.0	0.0
860	63.634	63.634	0.030	0.0	0.0	0.0
870	63.632	63.633	0.028	0.0	0.0	0.0
880	63.631	63.631	0.027	0.0	0.0	0.0
890	63.630	63.630	0.026	0.0	0.0	0.0
900	63.628	63.628	0.024	0.0	0.0	0.0
910	63.626	63.626	0.022	0.0	0.0	0.0
920	63.625	63.625	0.021	0.0	0.0	0.0
930	63.623	63.623	0.019	0.0	0.0	0.0
940	63.621	63.622	0.017	0.0	0.0	0.0
950	63.620	63.620	0.016	0.0	0.0	0.0
960	63.619	63.619	0.015	0.0	0.0	0.0
970	63.617	63.617	0.013	0.0	0.0	0.0
980	63.616	63.616	0.012	0.0	0.0	0.0
990	63.614	63.614	0.010	0.0	0.0	0.0
1000	63.613	63.613	0.008	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.611	63.611	0.007	0.0	0.0	0.0
1020	63.610	63.610	0.006	0.0	0.0	0.0
1030	63.608	63.608	0.004	0.0	0.0	0.0
1040	63.606	63.607	0.002	0.0	0.0	0.0
1050	63.605	63.605	0.001	0.0	0.0	0.0
1060	63.604	63.604	0.000	0.0	0.0	0.0
1070	63.602	63.602	-0.002	0.0	0.0	0.0
1080	63.600	63.601	-0.004	0.0	0.0	0.0
1090	63.599	63.599	-0.005	0.0	0.0	0.0
1100	63.598	63.598	-0.007	0.0	0.0	0.0
1110	63.596	63.596	-0.008	0.0	0.0	0.0
1120	63.594	63.595	-0.010	0.0	0.0	0.0
1130	63.593	63.593	-0.011	0.0	0.0	0.0
1140	63.592	63.592	-0.013	0.0	0.0	0.0
1150	63.590	63.590	-0.014	0.0	0.0	0.0
1160	63.589	63.589	-0.016	0.0	0.0	0.0
1170	63.587	63.587	-0.017	0.0	0.0	0.0
1180	63.586	63.586	-0.018	0.0	0.0	0.0
1190	63.584	63.584	-0.020	0.0	0.0	0.0
1200	63.583	63.583	-0.021	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.400	65.000	-0.110	0.0	0.0	0.0
20	65.401	65.001	-0.109	0.0	0.1	0.0
30	65.401	65.001	-0.109	0.0	0.2	0.0
40	65.401	65.002	-0.109	0.0	0.2	0.0
50	65.401	65.002	-0.109	0.0	0.2	0.0
60	65.401	65.002	-0.109	0.0	0.2	0.1
70	65.401	65.002	-0.109	0.0	0.2	0.1
80	65.401	65.002	-0.109	0.0	0.2	0.1
90	65.401	65.002	-0.109	0.0	0.2	0.1
100	65.401	65.002	-0.109	0.0	0.2	0.1
110	65.401	65.002	-0.109	0.0	0.2	0.1
120	65.401	65.002	-0.109	0.0	0.2	0.1
130	65.402	65.002	-0.108	0.0	0.2	0.1
140	65.402	65.002	-0.108	0.0	0.3	0.1
150	65.402	65.003	-0.108	0.0	0.3	0.1
160	65.402	65.003	-0.108	0.0	0.3	0.1
170	65.402	65.003	-0.108	0.0	0.4	0.1
180	65.403	65.004	-0.107	0.0	0.4	0.1
190	65.403	65.004	-0.107	0.0	0.5	0.1
200	65.403	65.005	-0.107	0.0	0.6	0.1
210	65.404	65.005	-0.106	0.0	0.6	0.2
220	65.404	65.006	-0.106	0.0	0.7	0.2
230	65.405	65.007	-0.105	0.0	0.8	0.2
240	65.405	65.007	-0.105	0.0	0.9	0.2
250	65.406	65.008	-0.104	0.0	1.0	0.2
260	65.406	65.009	-0.104	0.0	1.0	0.2
270	65.407	65.009	-0.103	0.0	1.1	0.3
280	65.407	65.010	-0.103	0.0	1.1	0.3
290	65.407	65.010	-0.103	0.0	1.1	0.3
300	65.408	65.011	-0.102	0.0	1.1	0.3
310	65.408	65.011	-0.102	0.0	1.1	0.3
320	65.407	65.010	-0.103	0.0	1.1	0.3
330	65.407	65.010	-0.103	0.0	1.1	0.3
340	65.407	65.009	-0.103	0.0	1.1	0.3
350	65.406	65.009	-0.104	0.0	1.0	0.3
360	65.406	65.008	-0.104	0.0	1.0	0.2
370	65.405	65.007	-0.105	0.0	0.9	0.2
380	65.405	65.007	-0.105	0.0	0.8	0.2
390	65.404	65.006	-0.106	0.0	0.7	0.2
400	65.404	65.005	-0.106	0.0	0.6	0.2
410	65.403	65.005	-0.107	0.0	0.6	0.1
420	65.403	65.004	-0.107	0.0	0.5	0.1
430	65.403	65.004	-0.107	0.0	0.4	0.1
440	65.402	65.003	-0.108	0.0	0.4	0.1
450	65.402	65.003	-0.108	0.0	0.3	0.1
460	65.402	65.003	-0.108	0.0	0.3	0.1
470	65.402	65.002	-0.108	0.0	0.3	0.1
480	65.402	65.002	-0.108	0.0	0.2	0.1
490	65.401	65.002	-0.109	0.0	0.2	0.1
500	65.401	65.002	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.401	65.002	-0.109	0.0	0.2	0.1
520	65.401	65.002	-0.109	0.0	0.2	0.1
530	65.401	65.002	-0.109	0.0	0.2	0.1
540	65.401	65.002	-0.109	0.0	0.2	0.1
550	65.401	65.002	-0.109	0.0	0.2	0.1
560	65.401	65.002	-0.109	0.0	0.2	0.0
570	65.401	65.002	-0.109	0.0	0.2	0.0
580	65.401	65.001	-0.109	0.0	0.2	0.0
590	65.401	65.001	-0.109	0.0	0.1	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
610	65.400	65.000	-0.110	0.0	0.0	0.0
620	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
640	65.400	65.000	-0.110	0.0	0.0	0.0
650	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
670	65.400	65.000	-0.110	0.0	0.0	0.0
680	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
700	65.400	65.000	-0.110	0.0	0.0	0.0
710	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
730	65.400	65.000	-0.110	0.0	0.0	0.0
740	65.400	65.000	-0.110	0.0	0.0	0.0
750	65.400	65.000	-0.110	0.0	0.0	0.0
760	65.400	65.000	-0.110	0.0	0.0	0.0
770	65.400	65.000	-0.110	0.0	0.0	0.0
780	65.400	65.000	-0.110	0.0	0.0	0.0
790	65.400	65.000	-0.110	0.0	0.0	0.0
800	65.400	65.000	-0.110	0.0	0.0	0.0
810	65.400	65.000	-0.110	0.0	0.0	0.0
820	65.400	65.000	-0.110	0.0	0.0	0.0
830	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
850	65.400	65.000	-0.110	0.0	0.0	0.0
860	65.400	65.000	-0.110	0.0	0.0	0.0
870	65.400	65.000	-0.110	0.0	0.0	0.0
880	65.400	65.000	-0.110	0.0	0.0	0.0
890	65.400	65.000	-0.110	0.0	0.0	0.0
900	65.400	65.000	-0.110	0.0	0.0	0.0
910	65.400	65.000	-0.110	0.0	0.0	0.0
920	65.400	65.000	-0.110	0.0	0.0	0.0
930	65.400	65.000	-0.110	0.0	0.0	0.0
940	65.400	65.000	-0.110	0.0	0.0	0.0
950	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
970	65.400	65.000	-0.110	0.0	0.0	0.0
980	65.400	65.000	-0.110	0.0	0.0	0.0
990	65.400	65.000	-0.110	0.0	0.0	0.0
1000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	65.000	-0.110	0.0	0.0	0.0
1020	65.400	65.000	-0.110	0.0	0.0	0.0
1030	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1050	65.400	65.000	-0.110	0.0	0.0	0.0
1060	65.400	65.000	-0.110	0.0	0.0	0.0
1070	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1090	65.400	65.000	-0.110	0.0	0.0	0.0
1100	65.400	65.000	-0.110	0.0	0.0	0.0
1110	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1130	65.400	65.000	-0.110	0.0	0.0	0.0
1140	65.400	65.000	-0.110	0.0	0.0	0.0
1150	65.400	65.000	-0.110	0.0	0.0	0.0
1160	65.400	65.000	-0.110	0.0	0.0	0.0
1170	65.400	65.000	-0.110	0.0	0.0	0.0
1180	65.400	65.000	-0.110	0.0	0.0	0.0
1190	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	65.000	63.447	-0.110	0.0	0.1	0.0
20	65.001	63.451	-0.109	0.0	0.2	0.0
30	65.001	63.455	-0.109	0.0	0.3	0.1
40	65.002	63.456	-0.108	0.0	0.4	0.1
50	65.002	63.456	-0.108	0.0	0.4	0.1
60	65.002	63.456	-0.108	0.0	0.4	0.1
70	65.002	63.457	-0.108	0.0	0.4	0.1
80	65.002	63.457	-0.108	0.0	0.4	0.1
90	65.002	63.457	-0.108	0.0	0.4	0.1
100	65.002	63.457	-0.108	0.0	0.4	0.1
110	65.002	63.457	-0.108	0.0	0.5	0.1
120	65.002	63.457	-0.108	0.0	0.5	0.1
130	65.002	63.457	-0.108	0.0	0.5	0.1
140	65.002	63.458	-0.108	0.0	0.5	0.1
150	65.003	63.458	-0.107	0.0	0.6	0.1
160	65.003	63.459	-0.107	0.0	0.7	0.2
170	65.003	63.460	-0.107	0.0	0.7	0.2
180	65.004	63.461	-0.106	0.0	0.8	0.2
190	65.004	63.463	-0.106	0.0	1.0	0.2
200	65.005	63.464	-0.105	0.0	1.1	0.3
210	65.005	63.466	-0.105	0.0	1.2	0.3
220	65.006	63.467	-0.104	0.0	1.4	0.3
230	65.007	63.468	-0.103	0.0	1.6	0.4
240	65.007	63.469	-0.103	0.0	1.5	0.4
250	65.008	63.470	-0.102	0.0	1.4	0.5
260	65.009	63.471	-0.101	0.0	1.4	0.5
270	65.009	63.472	-0.101	0.0	1.4	0.5
280	65.010	63.473	-0.100	0.0	1.3	0.6
290	65.010	63.474	-0.100	0.0	1.3	0.6
300	65.011	63.482	-0.099	0.0	1.3	0.6
310	65.011	63.501	-0.099	0.0	1.3	0.6
320	65.010	63.519	-0.100	0.0	1.3	0.6
330	65.010	63.536	-0.100	0.0	1.3	0.6
340	65.009	63.553	-0.101	0.0	1.4	0.5
350	65.009	63.568	-0.101	0.0	1.4	0.5
360	65.008	63.582	-0.102	0.0	1.4	0.5
370	65.007	63.594	-0.103	0.0	1.5	0.4
380	65.007	63.605	-0.103	0.0	1.6	0.4
390	65.006	63.615	-0.104	0.0	1.4	0.3
400	65.005	63.623	-0.105	0.0	1.3	0.3
410	65.005	63.630	-0.105	0.0	1.1	0.3
420	65.004	63.636	-0.106	0.0	1.0	0.2
430	65.004	63.641	-0.106	0.0	0.9	0.2
440	65.003	63.645	-0.107	0.0	0.8	0.2
450	65.003	63.649	-0.107	0.0	0.7	0.2
460	65.003	63.652	-0.107	0.0	0.6	0.1
470	65.002	63.655	-0.108	0.0	0.5	0.1
480	65.002	63.657	-0.108	0.0	0.5	0.1
490	65.002	63.659	-0.108	0.0	0.5	0.1
500	65.002	63.662	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.002	63.664	-0.108	0.0	0.4	0.1
520	65.002	63.666	-0.108	0.0	0.4	0.1
530	65.002	63.669	-0.108	0.0	0.4	0.1
540	65.002	63.672	-0.108	0.0	0.4	0.1
550	65.002	63.674	-0.108	0.0	0.4	0.1
560	65.002	63.677	-0.108	0.0	0.4	0.1
570	65.002	63.679	-0.108	0.0	0.4	0.1
580	65.001	63.680	-0.109	0.0	0.3	0.1
590	65.001	63.680	-0.109	0.0	0.2	0.1
600	65.000	63.679	-0.110	0.0	0.1	0.0
610	65.000	63.677	-0.110	0.0	0.0	0.0
620	65.000	63.674	-0.110	0.0	0.0	0.0
630	65.000	63.673	-0.110	0.0	0.0	0.0
640	65.000	63.670	-0.110	0.0	0.0	0.0
650	65.000	63.668	-0.110	0.0	0.0	0.0
660	65.000	63.667	-0.110	0.0	0.0	0.0
670	65.000	63.664	-0.110	0.0	0.0	0.0
680	65.000	63.663	-0.110	0.0	0.0	0.0
690	65.000	63.661	-0.110	0.0	0.0	0.0
700	65.000	63.660	-0.110	0.0	0.0	0.0
710	65.000	63.657	-0.110	0.0	0.0	0.0
720	65.000	63.656	-0.110	0.0	0.0	0.0
730	65.000	63.654	-0.110	0.0	0.0	0.0
740	65.000	63.653	-0.110	0.0	0.0	0.0
750	65.000	63.651	-0.110	0.0	0.0	0.0
760	65.000	63.649	-0.110	0.0	0.0	0.0
770	65.000	63.648	-0.110	0.0	0.0	0.0
780	65.000	63.646	-0.110	0.0	0.0	0.0
790	65.000	63.645	-0.110	0.0	0.0	0.0
800	65.000	63.643	-0.110	0.0	0.0	0.0
810	65.000	63.642	-0.110	0.0	0.0	0.0
820	65.000	63.641	-0.110	0.0	0.0	0.0
830	65.000	63.639	-0.110	0.0	0.0	0.0
840	65.000	63.637	-0.110	0.0	0.0	0.0
850	65.000	63.636	-0.110	0.0	0.0	0.0
860	65.000	63.634	-0.110	0.0	0.0	0.0
870	65.000	63.633	-0.110	0.0	0.0	0.0
880	65.000	63.631	-0.110	0.0	0.0	0.0
890	65.000	63.630	-0.110	0.0	0.0	0.0
900	65.000	63.628	-0.110	0.0	0.0	0.0
910	65.000	63.626	-0.110	0.0	0.0	0.0
920	65.000	63.625	-0.110	0.0	0.0	0.0
930	65.000	63.623	-0.110	0.0	0.0	0.0
940	65.000	63.622	-0.110	0.0	0.0	0.0
950	65.000	63.620	-0.110	0.0	0.0	0.0
960	65.000	63.619	-0.110	0.0	0.0	0.0
970	65.000	63.617	-0.110	0.0	0.0	0.0
980	65.000	63.616	-0.110	0.0	0.0	0.0
990	65.000	63.614	-0.110	0.0	0.0	0.0
1000	65.000	63.613	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.000	63.611	-0.110	0.0	0.0	0.0
1020	65.000	63.610	-0.110	0.0	0.0	0.0
1030	65.000	63.608	-0.110	0.0	0.0	0.0
1040	65.000	63.607	-0.110	0.0	0.0	0.0
1050	65.000	63.605	-0.110	0.0	0.0	0.0
1060	65.000	63.604	-0.110	0.0	0.0	0.0
1070	65.000	63.602	-0.110	0.0	0.0	0.0
1080	65.000	63.601	-0.110	0.0	0.0	0.0
1090	65.000	63.599	-0.110	0.0	0.0	0.0
1100	65.000	63.598	-0.110	0.0	0.0	0.0
1110	65.000	63.596	-0.110	0.0	0.0	0.0
1120	65.000	63.595	-0.110	0.0	0.0	0.0
1130	65.000	63.593	-0.110	0.0	0.0	0.0
1140	65.000	63.592	-0.110	0.0	0.0	0.0
1150	65.000	63.590	-0.110	0.0	0.0	0.0
1160	65.000	63.589	-0.110	0.0	0.0	0.0
1170	65.000	63.587	-0.110	0.0	0.0	0.0
1180	65.000	63.586	-0.110	0.0	0.0	0.0
1190	65.000	63.584	-0.110	0.0	0.0	0.0
1200	65.000	63.583	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.447	63.251	-0.107	0.0	0.1	0.0
20	63.451	63.252	-0.103	0.0	0.3	0.1
30	63.455	63.255	-0.099	0.0	0.3	0.1
40	63.456	63.257	-0.098	0.0	0.3	0.2
50	63.456	63.261	-0.098	0.0	0.3	0.2
60	63.456	63.264	-0.098	0.0	0.4	0.2
70	63.457	63.267	-0.098	0.0	0.4	0.2
80	63.457	63.271	-0.098	0.0	0.4	0.2
90	63.457	63.274	-0.098	0.0	0.4	0.2
100	63.457	63.276	-0.098	0.0	0.4	0.2
110	63.457	63.279	-0.097	0.0	0.4	0.2
120	63.457	63.281	-0.097	0.0	0.4	0.2
130	63.457	63.284	-0.097	0.0	0.4	0.2
140	63.458	63.287	-0.097	0.0	0.4	0.3
150	63.458	63.290	-0.096	0.0	0.4	0.3
160	63.459	63.294	-0.095	0.0	0.4	0.3
170	63.460	63.299	-0.094	0.0	0.4	0.4
180	63.461	63.305	-0.093	0.0	0.4	0.4
190	63.463	63.311	-0.092	0.0	0.5	0.5
200	63.464	63.318	-0.090	0.0	0.5	0.5
210	63.466	63.327	-0.089	0.0	0.5	0.6
220	63.467	63.337	-0.087	0.0	0.5	0.7
230	63.468	63.351	-0.086	0.0	0.5	0.8
240	63.469	63.365	-0.085	0.0	0.5	0.8
250	63.470	63.382	-0.084	0.0	0.5	0.9
260	63.471	63.400	-0.083	0.0	0.5	1.0
270	63.472	63.419	-0.082	0.0	0.6	1.1
280	63.473	63.438	-0.081	0.0	0.6	1.1
290	63.474	63.458	-0.080	0.0	0.6	1.2
300	63.482	63.477	-0.072	0.0	0.5	1.2
310	63.501	63.497	-0.054	0.0	0.3	1.2
320	63.519	63.515	-0.035	0.0	0.2	1.2
330	63.536	63.532	-0.018	0.0	0.1	1.1
340	63.553	63.549	-0.001	0.0	0.1	1.0
350	63.568	63.565	0.014	0.0	0.1	1.0
360	63.582	63.579	0.028	0.0	0.1	0.9
370	63.594	63.591	0.040	0.0	0.1	0.8
380	63.605	63.603	0.051	0.0	0.1	0.7
390	63.615	63.613	0.061	0.0	0.1	0.7
400	63.623	63.621	0.069	0.0	0.1	0.6
410	63.630	63.629	0.076	0.0	0.1	0.5
420	63.636	63.635	0.082	0.0	0.0	0.5
430	63.641	63.640	0.087	0.0	0.0	0.4
440	63.645	63.644	0.091	0.0	0.0	0.4
450	63.649	63.648	0.095	0.0	0.0	0.3
460	63.652	63.651	0.098	0.0	0.0	0.3
470	63.655	63.654	0.101	0.0	0.0	0.3
480	63.657	63.656	0.103	0.0	0.0	0.2
490	63.659	63.659	0.105	0.0	0.0	0.2
500	63.662	63.661	0.108	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.664	63.663	0.110	0.0	0.0	0.2
520	63.666	63.666	0.112	0.0	0.0	0.2
530	63.669	63.668	0.115	0.0	0.0	0.2
540	63.672	63.671	0.117	0.0	0.0	0.2
550	63.674	63.673	0.120	0.0	0.0	0.2
560	63.677	63.676	0.122	0.0	0.0	0.2
570	63.679	63.678	0.124	0.0	0.0	0.2
580	63.680	63.679	0.126	0.0	0.0	0.2
590	63.680	63.680	0.126	0.0	0.0	0.1
600	63.679	63.679	0.125	0.0	0.0	0.1
610	63.677	63.677	0.123	0.0	0.0	0.0
620	63.674	63.675	0.120	0.0	0.0	0.0
630	63.673	63.672	0.118	0.0	0.0	0.0
640	63.670	63.670	0.116	0.0	0.0	0.0
650	63.668	63.668	0.114	0.0	0.0	0.0
660	63.667	63.667	0.112	0.0	0.0	0.0
670	63.664	63.665	0.110	0.0	0.0	0.0
680	63.663	63.663	0.109	0.0	0.0	0.0
690	63.661	63.661	0.107	0.0	0.0	0.0
700	63.660	63.659	0.105	0.0	0.0	0.0
710	63.657	63.658	0.103	0.0	0.0	0.0
720	63.656	63.656	0.102	0.0	0.0	0.0
730	63.654	63.654	0.100	0.0	0.0	0.0
740	63.653	63.653	0.098	0.0	0.0	0.0
750	63.651	63.651	0.097	0.0	0.0	0.0
760	63.649	63.650	0.095	0.0	0.0	0.0
770	63.648	63.648	0.094	0.0	0.0	0.0
780	63.646	63.647	0.092	0.0	0.0	0.0
790	63.645	63.645	0.091	0.0	0.0	0.0
800	63.643	63.643	0.089	0.0	0.0	0.0
810	63.642	63.642	0.087	0.0	0.0	0.0
820	63.641	63.640	0.087	0.0	0.0	0.0
830	63.639	63.639	0.085	0.0	0.0	0.0
840	63.637	63.637	0.083	0.0	0.0	0.0
850	63.636	63.636	0.082	0.0	0.0	0.0
860	63.634	63.634	0.080	0.0	0.0	0.0
870	63.633	63.633	0.079	0.0	0.0	0.0
880	63.631	63.631	0.077	0.0	0.0	0.0
890	63.630	63.630	0.075	0.0	0.0	0.0
900	63.628	63.628	0.074	0.0	0.0	0.0
910	63.626	63.627	0.072	0.0	0.0	0.0
920	63.625	63.625	0.071	0.0	0.0	0.0
930	63.623	63.624	0.069	0.0	0.0	0.0
940	63.622	63.622	0.068	0.0	0.0	0.0
950	63.620	63.621	0.066	0.0	0.0	0.0
960	63.619	63.619	0.065	0.0	0.0	0.0
970	63.617	63.618	0.063	0.0	0.0	0.0
980	63.616	63.616	0.062	0.0	0.0	0.0
990	63.614	63.615	0.060	0.0	0.0	0.0
1000	63.613	63.613	0.059	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.611	63.612	0.057	0.0	0.0	0.0
1020	63.610	63.610	0.056	0.0	0.0	0.0
1030	63.608	63.609	0.054	0.0	0.0	0.0
1040	63.607	63.607	0.053	0.0	0.0	0.0
1050	63.605	63.606	0.051	0.0	0.0	0.0
1060	63.604	63.604	0.050	0.0	0.0	0.0
1070	63.602	63.603	0.048	0.0	0.0	0.0
1080	63.601	63.601	0.047	0.0	0.0	0.0
1090	63.599	63.600	0.045	0.0	0.0	0.0
1100	63.598	63.598	0.044	0.0	0.0	0.0
1110	63.596	63.597	0.042	0.0	0.0	0.0
1120	63.595	63.595	0.041	0.0	0.0	0.0
1130	63.593	63.594	0.039	0.0	0.0	0.0
1140	63.592	63.592	0.038	0.0	0.0	0.0
1150	63.590	63.591	0.036	0.0	0.0	0.0
1160	63.589	63.589	0.035	0.0	0.0	0.0
1170	63.587	63.588	0.033	0.0	0.0	0.0
1180	63.586	63.586	0.032	0.0	0.0	0.0
1190	63.584	63.585	0.030	0.0	0.0	0.0
1200	63.583	63.583	0.029	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.251	63.100	-0.109	0.0	0.0	0.0
20	63.252	63.100	-0.108	0.0	0.0	0.0
30	63.255	63.100	-0.105	0.0	0.0	0.0
40	63.257	63.101	-0.103	0.0	0.0	0.0
50	63.261	63.103	-0.099	0.0	0.1	0.0
60	63.264	63.107	-0.096	0.0	0.1	0.0
70	63.267	63.111	-0.093	0.0	0.2	0.0
80	63.271	63.117	-0.089	0.0	0.2	0.1
90	63.274	63.124	-0.086	0.0	0.2	0.1
100	63.276	63.131	-0.084	0.0	0.3	0.1
110	63.279	63.138	-0.081	0.0	0.3	0.1
120	63.281	63.144	-0.079	0.0	0.3	0.1
130	63.284	63.150	-0.076	0.0	0.3	0.1
140	63.287	63.156	-0.073	0.0	0.3	0.1
150	63.290	63.164	-0.070	0.0	0.3	0.1
160	63.294	63.172	-0.066	0.0	0.3	0.1
170	63.299	63.183	-0.061	0.0	0.3	0.1
180	63.305	63.194	-0.055	0.0	0.3	0.1
190	63.311	63.206	-0.049	0.0	0.3	0.1
200	63.318	63.220	-0.042	0.0	0.3	0.1
210	63.327	63.235	-0.033	0.0	0.3	0.2
220	63.337	63.251	-0.023	0.0	0.3	0.2
230	63.351	63.257	-0.009	0.0	0.3	0.1
240	63.365	63.259	0.005	0.0	0.2	0.1
250	63.382	63.256	0.022	0.0	0.2	0.1
260	63.400	63.257	0.040	0.0	0.3	0.1
270	63.419	63.263	0.059	0.0	0.3	0.1
280	63.438	63.274	0.078	0.0	0.3	0.1
290	63.458	63.290	0.098	0.0	0.3	0.2
300	63.477	63.310	0.117	0.0	0.3	0.2
310	63.497	63.333	0.137	0.0	0.3	0.2
320	63.515	63.358	0.155	0.0	0.4	0.2
330	63.532	63.383	0.172	0.0	0.4	0.2
340	63.549	63.406	0.189	0.0	0.3	0.2
350	63.565	63.428	0.205	0.0	0.1	0.2
360	63.579	63.447	0.219	0.0	0.0	0.2
370	63.591	63.466	0.231	0.0	0.0	0.2
380	63.603	63.483	0.243	0.0	0.0	0.2
390	63.613	63.499	0.253	0.0	0.0	0.2
400	63.621	63.513	0.261	0.0	0.0	0.2
410	63.629	63.526	0.269	0.0	0.0	0.2
420	63.635	63.537	0.275	0.0	0.0	0.2
430	63.640	63.547	0.280	0.0	0.0	0.1
440	63.644	63.556	0.284	0.0	0.0	0.1
450	63.648	63.564	0.288	0.0	0.0	0.1
460	63.651	63.570	0.291	0.0	0.0	0.1
470	63.654	63.576	0.294	0.0	0.0	0.1
480	63.656	63.581	0.296	0.0	0.0	0.1
490	63.659	63.585	0.299	0.0	0.0	0.1
500	63.661	63.589	0.301	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.663	63.592	0.303	0.0	0.0	0.1
520	63.666	63.595	0.306	0.0	0.0	0.1
530	63.668	63.598	0.308	0.0	0.0	0.1
540	63.671	63.601	0.311	0.0	0.0	0.1
550	63.673	63.604	0.313	0.0	0.0	0.1
560	63.676	63.606	0.316	0.0	0.0	0.1
570	63.678	63.609	0.318	0.0	0.0	0.1
580	63.679	63.611	0.319	0.0	0.0	0.1
590	63.680	63.613	0.320	0.0	0.0	0.1
600	63.679	63.615	0.319	0.0	0.0	0.1
610	63.677	63.616	0.317	0.0	0.0	0.1
620	63.675	63.616	0.315	0.0	0.0	0.1
630	63.672	63.615	0.312	0.0	0.0	0.1
640	63.670	63.614	0.310	0.0	0.0	0.1
650	63.668	63.613	0.308	0.0	0.0	0.1
660	63.667	63.612	0.307	0.0	0.0	0.1
670	63.665	63.610	0.305	0.0	0.0	0.1
680	63.663	63.609	0.303	0.0	0.0	0.1
690	63.661	63.607	0.301	0.0	0.0	0.1
700	63.659	63.606	0.299	0.0	0.0	0.1
710	63.658	63.604	0.298	0.0	0.0	0.1
720	63.656	63.602	0.296	0.0	0.0	0.1
730	63.654	63.601	0.294	0.0	0.0	0.1
740	63.653	63.599	0.293	0.0	0.0	0.1
750	63.651	63.598	0.291	0.0	0.0	0.1
760	63.650	63.596	0.290	0.0	0.0	0.1
770	63.648	63.594	0.288	0.0	0.0	0.1
780	63.647	63.593	0.287	0.0	0.0	0.1
790	63.645	63.591	0.285	0.0	0.0	0.1
800	63.643	63.590	0.283	0.0	0.0	0.1
810	63.642	63.588	0.282	0.0	0.0	0.1
820	63.640	63.587	0.280	0.0	0.0	0.1
830	63.639	63.585	0.279	0.0	0.0	0.1
840	63.637	63.584	0.277	0.0	0.0	0.1
850	63.636	63.582	0.276	0.0	0.0	0.1
860	63.634	63.581	0.274	0.0	0.0	0.1
870	63.633	63.579	0.273	0.0	0.0	0.1
880	63.631	63.578	0.271	0.0	0.0	0.1
890	63.630	63.576	0.270	0.0	0.0	0.1
900	63.628	63.575	0.268	0.0	0.0	0.1
910	63.627	63.574	0.267	0.0	0.0	0.1
920	63.625	63.572	0.265	0.0	0.0	0.1
930	63.624	63.571	0.264	0.0	0.0	0.1
940	63.622	63.569	0.262	0.0	0.0	0.1
950	63.621	63.568	0.261	0.0	0.0	0.1
960	63.619	63.566	0.259	0.0	0.0	0.1
970	63.618	63.565	0.258	0.0	0.0	0.1
980	63.616	63.563	0.256	0.0	0.0	0.1
990	63.615	63.562	0.255	0.0	0.0	0.1
1000	63.613	63.560	0.253	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.612	63.559	0.252	0.0	0.0	0.1
1020	63.610	63.557	0.250	0.0	0.0	0.1
1030	63.609	63.556	0.249	0.0	0.0	0.1
1040	63.607	63.554	0.247	0.0	0.0	0.1
1050	63.606	63.553	0.246	0.0	0.0	0.1
1060	63.604	63.552	0.244	0.0	0.0	0.1
1070	63.603	63.550	0.243	0.0	0.0	0.1
1080	63.601	63.549	0.241	0.0	0.0	0.1
1090	63.600	63.547	0.240	0.0	0.0	0.1
1100	63.598	63.546	0.238	0.0	0.0	0.1
1110	63.597	63.544	0.237	0.0	0.0	0.1
1120	63.595	63.543	0.235	0.0	0.0	0.1
1130	63.594	63.541	0.234	0.0	0.0	0.1
1140	63.592	63.540	0.232	0.0	0.0	0.1
1150	63.591	63.539	0.231	0.0	0.0	0.1
1160	63.589	63.537	0.229	0.0	0.0	0.1
1170	63.588	63.536	0.228	0.0	0.0	0.1
1180	63.586	63.534	0.226	0.0	0.0	0.1
1190	63.585	63.533	0.225	0.0	0.0	0.1
1200	63.583	63.531	0.223	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.100	63.096	-0.110	0.0	0.0	0.0
20	63.100	63.096	-0.110	0.0	0.0	0.0
30	63.100	63.096	-0.110	0.0	0.0	0.0
40	63.101	63.096	-0.109	0.0	0.0	0.0
50	63.103	63.096	-0.107	0.0	0.0	0.0
60	63.107	63.096	-0.103	0.0	0.0	0.0
70	63.111	63.096	-0.099	0.0	0.0	0.0
80	63.117	63.096	-0.093	0.0	0.0	0.0
90	63.124	63.096	-0.086	0.0	0.0	0.0
100	63.131	63.096	-0.079	0.0	0.0	0.0
110	63.138	63.096	-0.072	0.0	0.0	0.0
120	63.144	63.096	-0.066	0.0	0.0	0.0
130	63.150	63.096	-0.060	0.0	0.0	0.0
140	63.156	63.096	-0.054	0.0	0.0	0.0
150	63.164	63.096	-0.046	0.0	0.0	0.0
160	63.172	63.096	-0.038	0.0	0.0	0.0
170	63.183	63.096	-0.027	0.0	0.0	0.0
180	63.194	63.096	-0.016	0.0	0.0	0.0
190	63.206	63.096	-0.004	0.0	0.0	0.0
200	63.220	63.096	0.010	0.0	0.0	0.0
210	63.235	63.096	0.025	0.0	0.0	0.0
220	63.251	63.096	0.041	0.0	0.0	0.0
230	63.257	63.096	0.047	0.0	0.0	0.0
240	63.259	63.096	0.049	0.0	0.0	0.0
250	63.256	63.096	0.046	0.0	0.0	0.0
260	63.257	63.096	0.047	0.0	0.0	0.0
270	63.263	63.096	0.053	0.0	0.0	0.0
280	63.274	63.096	0.064	0.0	0.0	0.0
290	63.290	63.096	0.080	0.0	0.0	0.0
300	63.310	63.096	0.100	0.0	0.0	0.0
310	63.333	63.096	0.123	0.0	0.0	0.0
320	63.358	63.096	0.148	0.0	0.1	0.0
330	63.383	63.096	0.173	0.0	0.1	0.0
340	63.406	63.096	0.196	0.0	0.1	0.0
350	63.428	63.096	0.218	0.0	0.1	0.0
360	63.447	63.096	0.237	0.0	0.1	0.0
370	63.466	63.096	0.256	0.0	0.1	0.0
380	63.483	63.096	0.273	0.0	0.1	0.0
390	63.499	63.096	0.289	0.0	0.1	0.0
400	63.513	63.096	0.303	0.0	0.1	0.0
410	63.526	63.096	0.316	0.0	0.1	0.0
420	63.537	63.096	0.327	0.0	0.1	0.0
430	63.547	63.096	0.337	0.0	0.1	0.0
440	63.556	63.096	0.346	0.0	0.1	0.0
450	63.564	63.096	0.354	0.0	0.1	0.0
460	63.570	63.096	0.360	0.0	0.1	0.0
470	63.576	63.096	0.366	0.0	0.1	0.0
480	63.581	63.096	0.371	0.0	0.1	0.0
490	63.585	63.096	0.375	0.0	0.1	0.0
500	63.589	63.096	0.379	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.592	63.096	0.382	0.0	0.1	0.0
520	63.595	63.096	0.385	0.0	0.1	0.0
530	63.598	63.096	0.388	0.0	0.1	0.0
540	63.601	63.096	0.391	0.0	0.1	0.0
550	63.604	63.096	0.394	0.0	0.1	0.0
560	63.606	63.096	0.396	0.0	0.1	0.0
570	63.609	63.096	0.399	0.0	0.1	0.0
580	63.611	63.096	0.401	0.0	0.1	0.0
590	63.613	63.096	0.403	0.0	0.1	0.0
600	63.615	63.096	0.405	0.0	0.1	0.0
610	63.616	63.096	0.406	0.0	0.1	0.0
620	63.616	63.096	0.406	0.0	0.1	0.0
630	63.615	63.096	0.405	0.0	0.1	0.0
640	63.614	63.096	0.404	0.0	0.1	0.0
650	63.613	63.096	0.403	0.0	0.1	0.0
660	63.612	63.096	0.402	0.0	0.1	0.0
670	63.610	63.096	0.400	0.0	0.1	0.0
680	63.609	63.096	0.399	0.0	0.1	0.0
690	63.607	63.096	0.397	0.0	0.1	0.0
700	63.606	63.096	0.396	0.0	0.1	0.0
710	63.604	63.096	0.394	0.0	0.1	0.0
720	63.602	63.096	0.392	0.0	0.1	0.0
730	63.601	63.096	0.391	0.0	0.1	0.0
740	63.599	63.096	0.389	0.0	0.1	0.0
750	63.598	63.096	0.388	0.0	0.1	0.0
760	63.596	63.096	0.386	0.0	0.1	0.0
770	63.594	63.096	0.384	0.0	0.1	0.0
780	63.593	63.096	0.383	0.0	0.1	0.0
790	63.591	63.096	0.381	0.0	0.1	0.0
800	63.590	63.096	0.380	0.0	0.1	0.0
810	63.588	63.096	0.378	0.0	0.1	0.0
820	63.587	63.096	0.377	0.0	0.1	0.0
830	63.585	63.096	0.375	0.0	0.1	0.0
840	63.584	63.096	0.374	0.0	0.1	0.0
850	63.582	63.096	0.372	0.0	0.1	0.0
860	63.581	63.096	0.371	0.0	0.1	0.0
870	63.579	63.096	0.369	0.0	0.1	0.0
880	63.578	63.096	0.368	0.0	0.1	0.0
890	63.576	63.096	0.366	0.0	0.1	0.0
900	63.575	63.096	0.365	0.0	0.1	0.0
910	63.574	63.096	0.364	0.0	0.1	0.0
920	63.572	63.096	0.362	0.0	0.1	0.0
930	63.571	63.096	0.361	0.0	0.1	0.0
940	63.569	63.096	0.359	0.0	0.1	0.0
950	63.568	63.096	0.358	0.0	0.1	0.0
960	63.566	63.096	0.356	0.0	0.1	0.0
970	63.565	63.096	0.355	0.0	0.1	0.0
980	63.563	63.096	0.353	0.0	0.1	0.0
990	63.562	63.096	0.352	0.0	0.1	0.0
1000	63.560	63.096	0.350	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Winter
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.559	63.096	0.349	0.0	0.1	0.0
1020	63.557	63.096	0.347	0.0	0.1	0.0
1030	63.556	63.096	0.346	0.0	0.1	0.0
1040	63.554	63.096	0.344	0.0	0.1	0.0
1050	63.553	63.096	0.343	0.0	0.1	0.0
1060	63.552	63.096	0.342	0.0	0.1	0.0
1070	63.550	63.096	0.340	0.0	0.1	0.0
1080	63.549	63.096	0.339	0.0	0.1	0.0
1090	63.547	63.096	0.337	0.0	0.1	0.0
1100	63.546	63.096	0.336	0.0	0.1	0.0
1110	63.544	63.096	0.334	0.0	0.1	0.0
1120	63.543	63.096	0.333	0.0	0.1	0.0
1130	63.541	63.096	0.331	0.0	0.1	0.0
1140	63.540	63.096	0.330	0.0	0.1	0.0
1150	63.539	63.096	0.329	0.0	0.1	0.0
1160	63.537	63.096	0.327	0.0	0.1	0.0
1170	63.536	63.096	0.326	0.0	0.1	0.0
1180	63.534	63.096	0.324	0.0	0.1	0.0
1190	63.533	63.096	0.323	0.0	0.1	0.0
1200	63.531	63.096	0.321	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1440
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	12

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	720
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 720 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.408	-0.102	0.000	0.02	0.0	0.4	OK
1.001	S1	63.686	0.082	0.000	0.12	0.0	0.8	SURCHARGED
2.000	RE2	65.410	-0.100	0.000	0.02	0.0	0.4	OK
2.001	S2	65.012	-0.098	0.000	0.03	0.0	0.8	OK
1.002	S3	63.686	0.132	0.000	0.22	0.0	1.6	SURCHARGED
1.003	S4	63.685	0.325	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.622	0.412	0.000	0.01	0.0	0.0	SURCHARGED

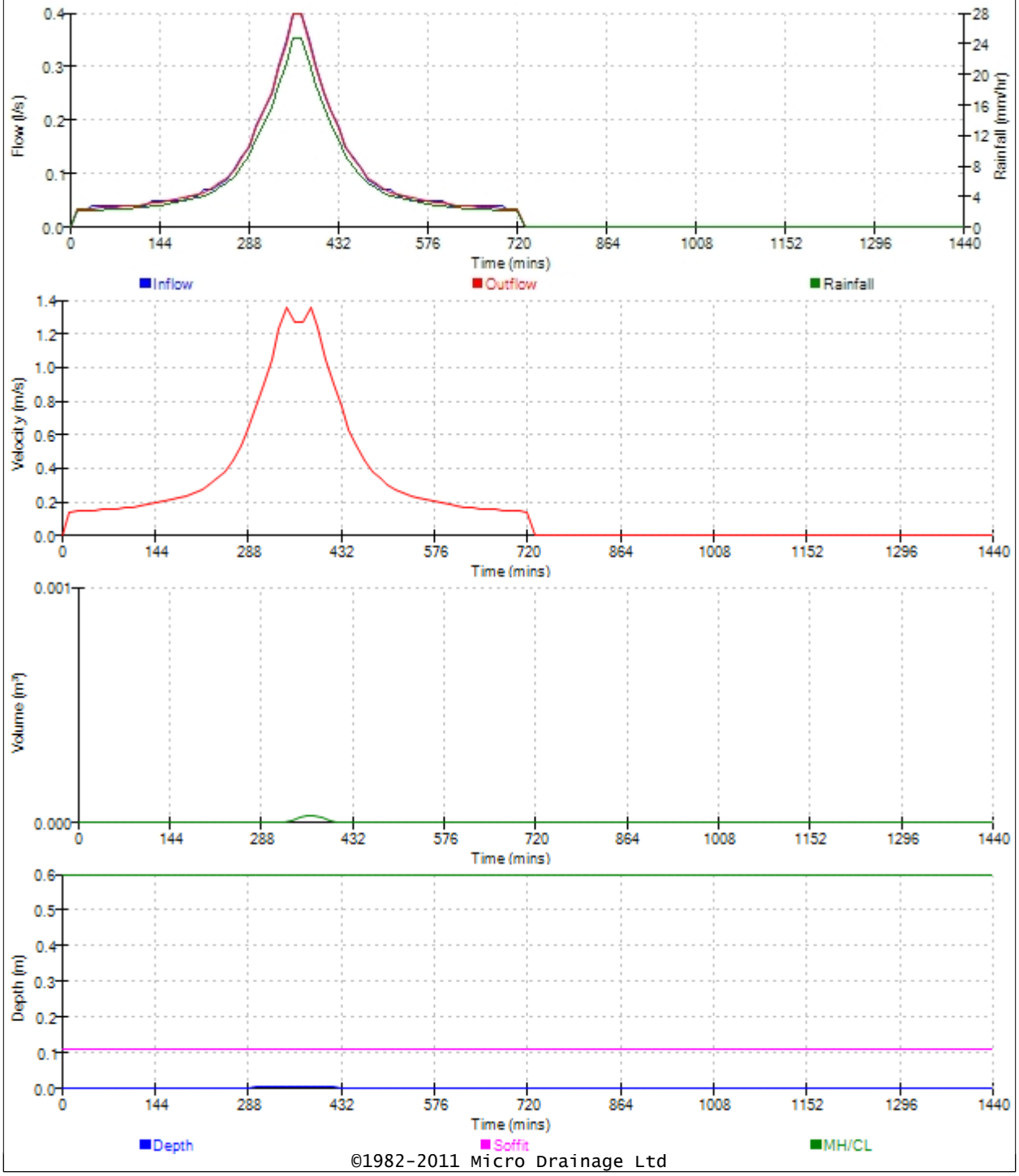
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Rainfall Hyetograph for 720 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
12	2.115	156	3.055	300	11.566	444	9.504	588	2.911
24	2.167	168	3.211	312	13.577	456	8.029	600	2.807
36	2.219	180	3.368	324	15.744	468	6.749	612	2.702
48	2.285	192	3.577	336	18.564	480	5.757	624	2.585
60	2.337	204	3.799	348	21.436	492	5.091	636	2.493
72	2.389	216	4.099	360	24.699	504	4.543	648	2.441
84	2.441	228	4.543	372	24.699	516	4.099	660	2.389
96	2.493	240	5.091	384	21.436	528	3.799	672	2.337
108	2.585	252	5.757	396	18.564	540	3.577	684	2.285
120	2.702	264	6.749	408	15.744	552	3.368	696	2.219
132	2.807	276	8.029	420	13.577	564	3.211	708	2.167
144	2.911	288	9.504	432	11.566	576	3.055	720	2.115

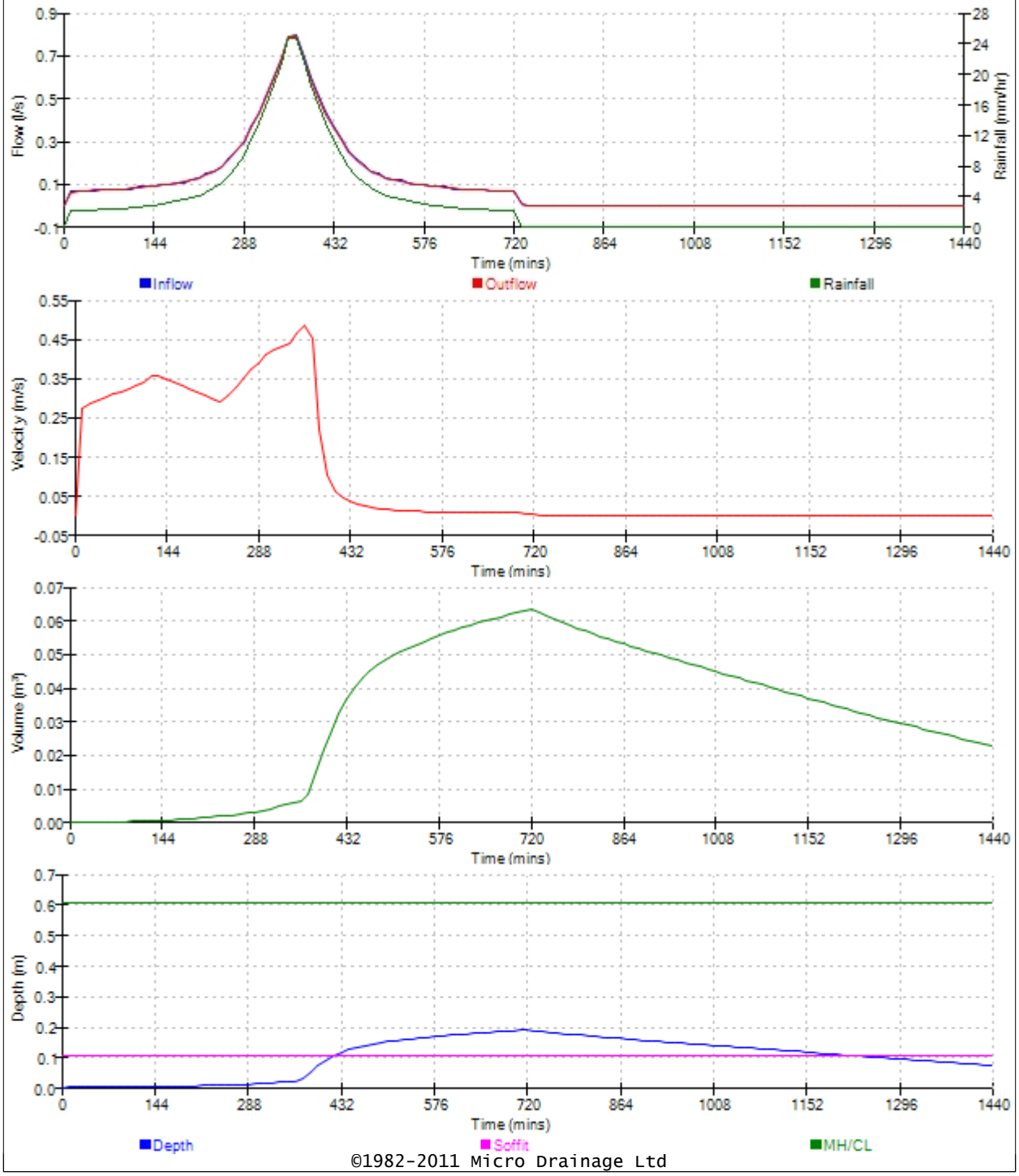
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year Summer
Status: OK



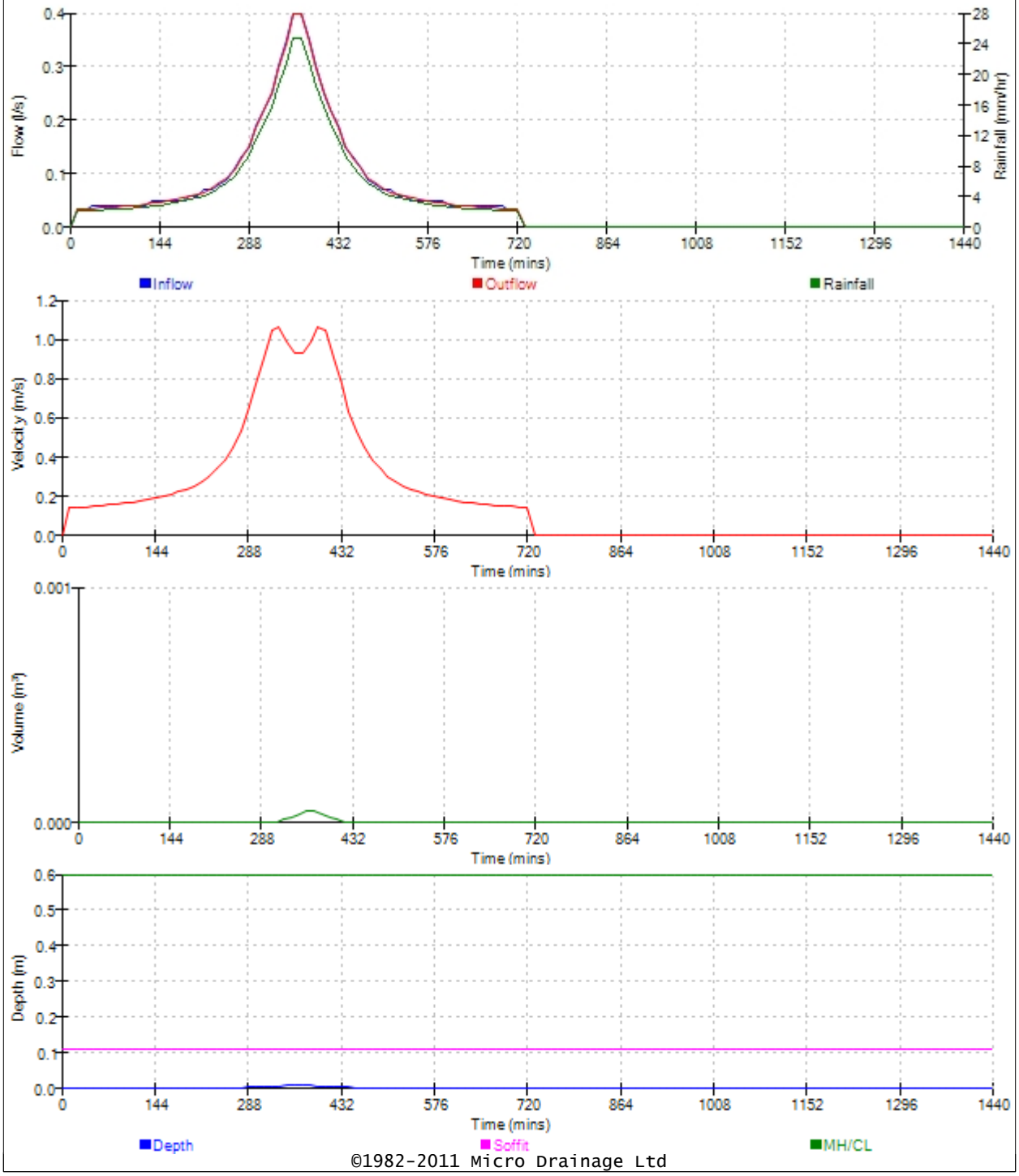
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Graphs for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year Summer
Status: SURCHARGED



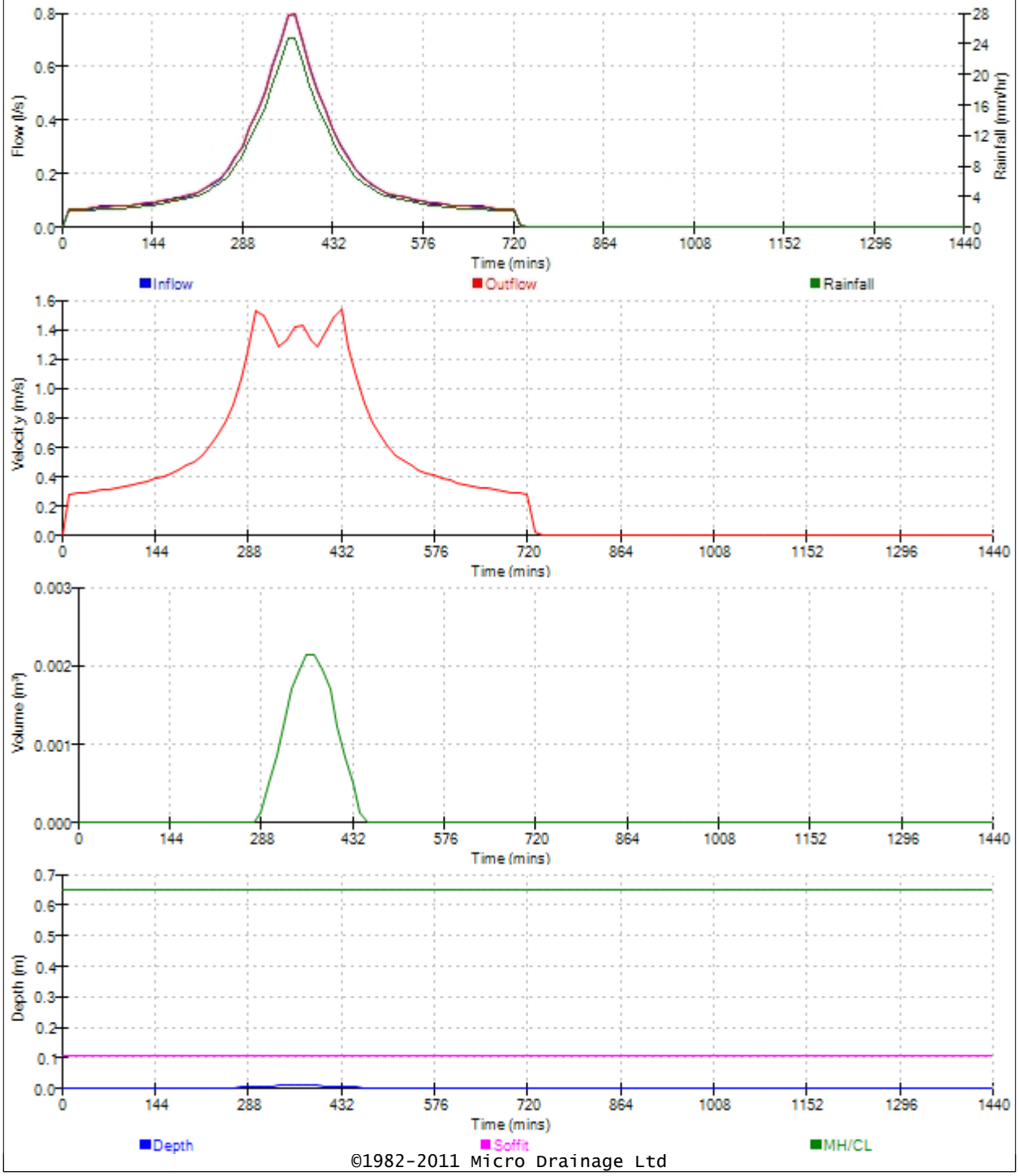
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year Summer
Status: OK



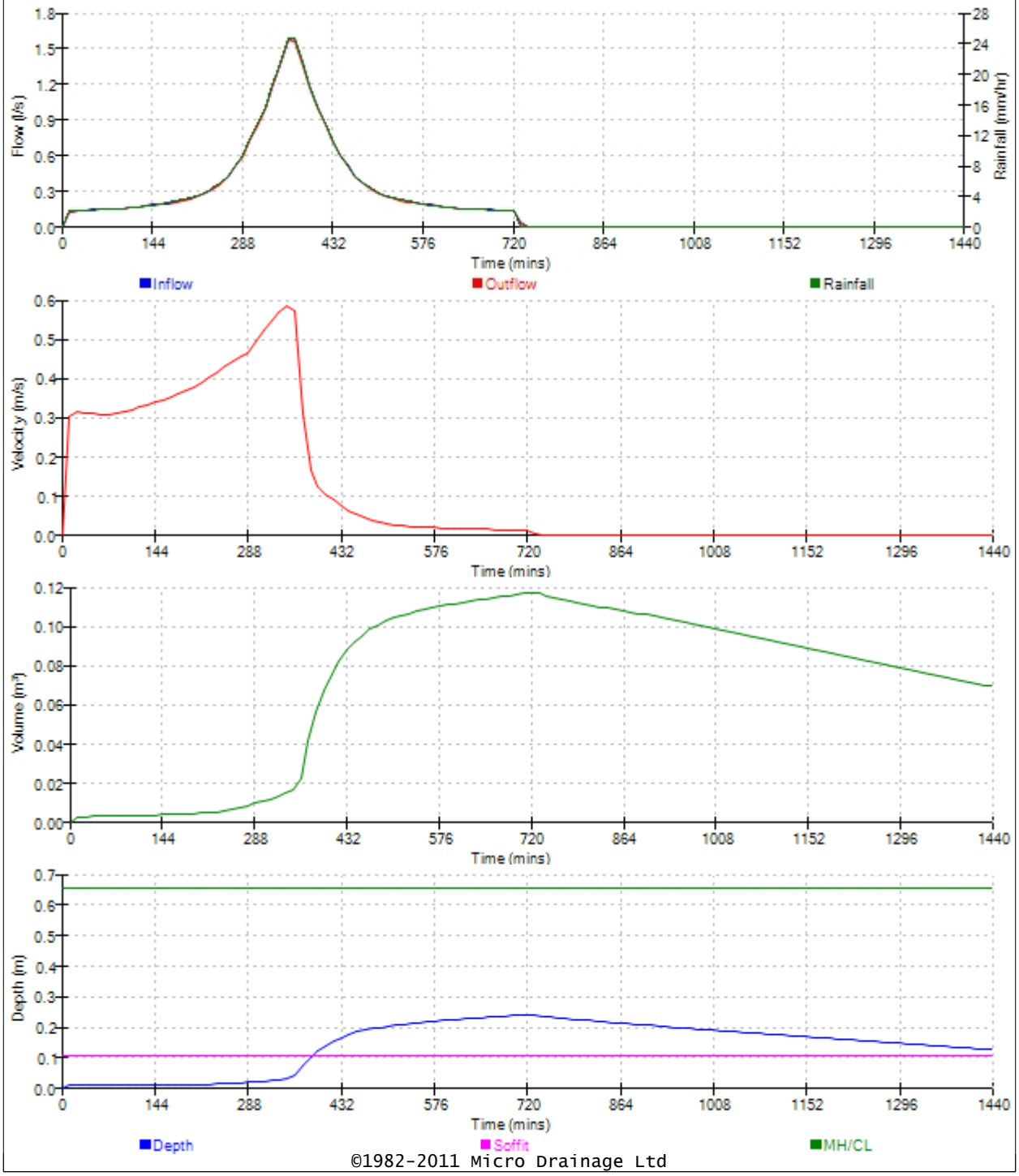
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Graphs for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year Summer
Status: OK



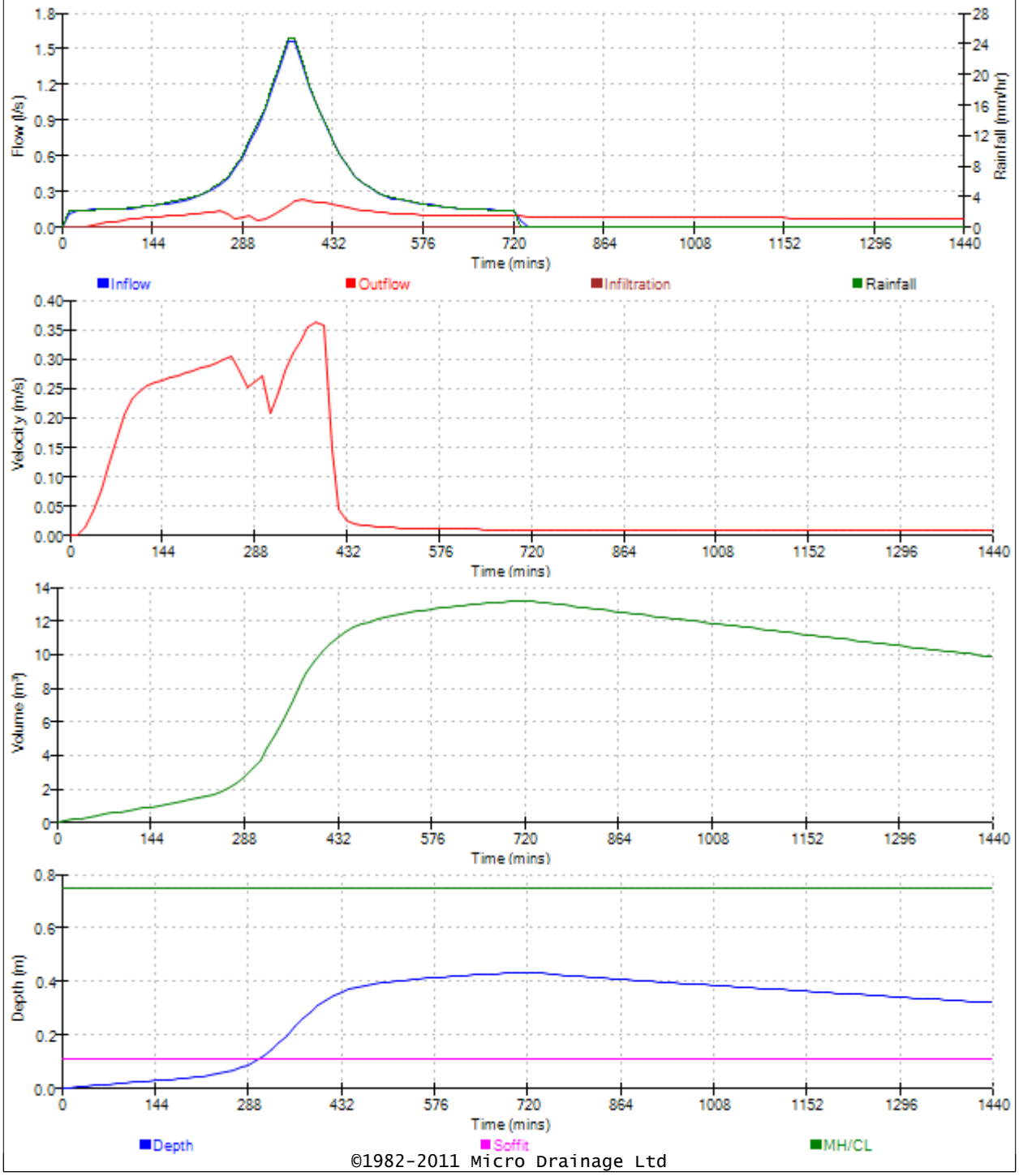
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Graphs for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year Summer
Status: SURCHARGED



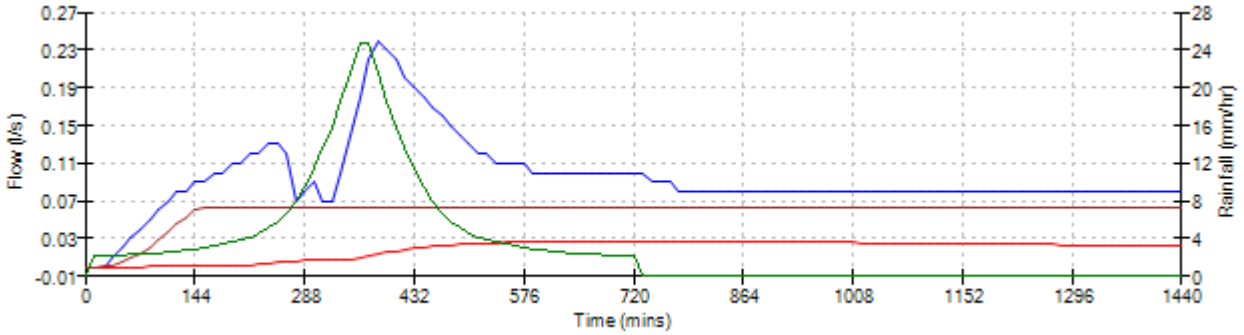
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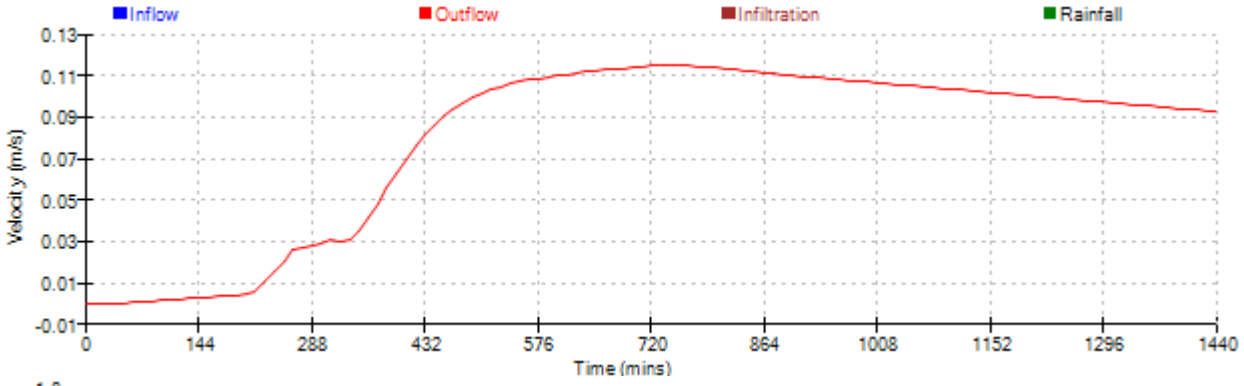
Graphs for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year Summer
Status: SURCHARGED

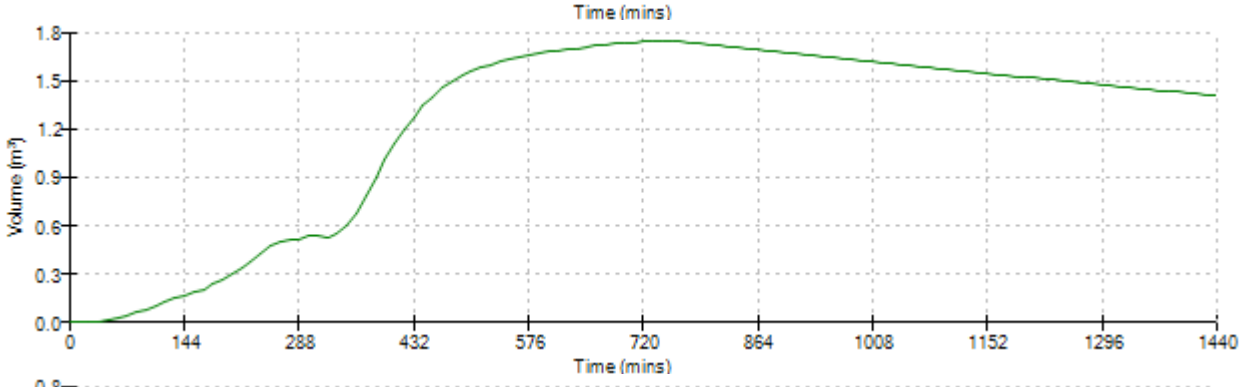


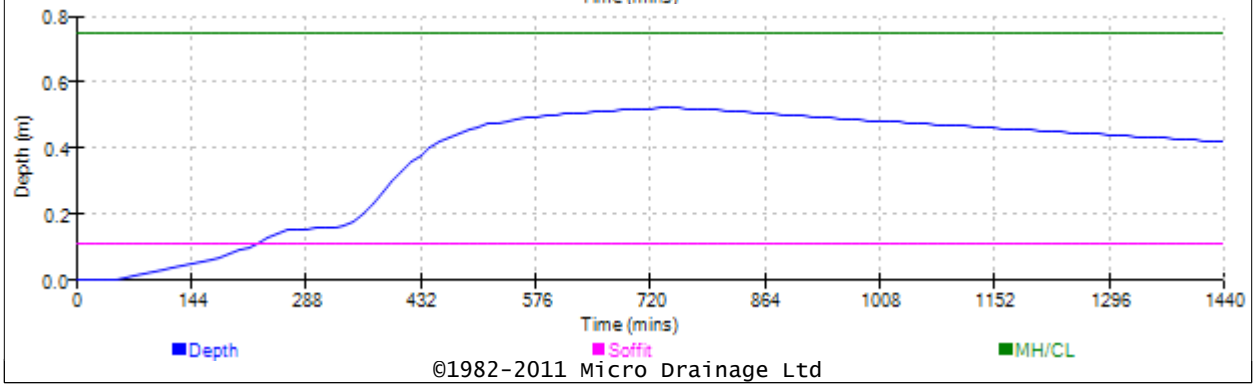
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	65.401	63.499	-0.109	0.0	0.1	0.0
24	65.401	63.500	-0.109	0.0	0.1	0.0
36	65.401	63.500	-0.109	0.0	0.1	0.0
48	65.401	63.500	-0.109	0.0	0.2	0.0
60	65.401	63.500	-0.109	0.0	0.2	0.0
72	65.401	63.500	-0.109	0.0	0.2	0.0
84	65.401	63.500	-0.109	0.0	0.2	0.0
96	65.401	63.500	-0.109	0.0	0.2	0.0
108	65.401	63.501	-0.109	0.0	0.2	0.0
120	65.401	63.501	-0.109	0.0	0.2	0.0
132	65.401	63.501	-0.109	0.0	0.2	0.0
144	65.401	63.501	-0.109	0.0	0.2	0.0
156	65.401	63.502	-0.109	0.0	0.2	0.0
168	65.401	63.502	-0.109	0.0	0.2	0.1
180	65.401	63.503	-0.109	0.0	0.2	0.1
192	65.401	63.503	-0.109	0.0	0.2	0.1
204	65.401	63.504	-0.109	0.0	0.3	0.1
216	65.401	63.504	-0.109	0.0	0.3	0.1
228	65.401	63.505	-0.109	0.0	0.3	0.1
240	65.402	63.506	-0.108	0.0	0.3	0.1
252	65.402	63.506	-0.108	0.0	0.4	0.1
264	65.402	63.507	-0.108	0.0	0.4	0.1
276	65.403	63.508	-0.107	0.0	0.5	0.1
288	65.403	63.509	-0.107	0.0	0.6	0.2
300	65.404	63.511	-0.106	0.0	0.8	0.2
312	65.404	63.512	-0.106	0.0	0.9	0.2
324	65.405	63.514	-0.105	0.0	1.0	0.3
336	65.406	63.516	-0.104	0.0	1.2	0.3
348	65.407	63.518	-0.103	0.0	1.4	0.3
360	65.408	63.519	-0.102	0.0	1.3	0.4
372	65.408	63.526	-0.102	0.0	1.3	0.4
384	65.407	63.547	-0.103	0.0	1.4	0.3
396	65.406	63.568	-0.104	0.0	1.2	0.3
408	65.405	63.586	-0.105	0.0	1.0	0.3
420	65.404	63.601	-0.106	0.0	0.9	0.2
432	65.404	63.613	-0.106	0.0	0.8	0.2
444	65.403	63.623	-0.107	0.0	0.6	0.2
456	65.403	63.630	-0.107	0.0	0.5	0.1
468	65.402	63.636	-0.108	0.0	0.4	0.1
480	65.402	63.641	-0.108	0.0	0.4	0.1
492	65.402	63.645	-0.108	0.0	0.3	0.1
504	65.401	63.649	-0.109	0.0	0.3	0.1
516	65.401	63.652	-0.109	0.0	0.3	0.1
528	65.401	63.655	-0.109	0.0	0.3	0.1
540	65.401	63.658	-0.109	0.0	0.2	0.1
552	65.401	63.660	-0.109	0.0	0.2	0.1
564	65.401	63.663	-0.109	0.0	0.2	0.1
576	65.401	63.665	-0.109	0.0	0.2	0.0
588	65.401	63.668	-0.109	0.0	0.2	0.0
600	65.401	63.670	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	65.401	63.671	-0.109	0.0	0.2	0.0
624	65.401	63.673	-0.109	0.0	0.2	0.0
636	65.401	63.675	-0.109	0.0	0.2	0.0
648	65.401	63.677	-0.109	0.0	0.2	0.0
660	65.401	63.679	-0.109	0.0	0.2	0.0
672	65.401	63.680	-0.109	0.0	0.2	0.0
684	65.401	63.682	-0.109	0.0	0.2	0.0
696	65.401	63.683	-0.109	0.0	0.1	0.0
708	65.401	63.685	-0.109	0.0	0.1	0.0
720	65.401	63.686	-0.109	0.0	0.1	0.0
732	65.400	63.684	-0.110	0.0	0.0	0.0
744	65.400	63.681	-0.110	0.0	0.0	0.0
756	65.400	63.679	-0.110	0.0	0.0	0.0
768	65.400	63.676	-0.110	0.0	0.0	0.0
780	65.400	63.673	-0.110	0.0	0.0	0.0
792	65.400	63.670	-0.110	0.0	0.0	0.0
804	65.400	63.669	-0.110	0.0	0.0	0.0
816	65.400	63.666	-0.110	0.0	0.0	0.0
828	65.400	63.664	-0.110	0.0	0.0	0.0
840	65.400	63.662	-0.110	0.0	0.0	0.0
852	65.400	63.660	-0.110	0.0	0.0	0.0
864	65.400	63.658	-0.110	0.0	0.0	0.0
876	65.400	63.656	-0.110	0.0	0.0	0.0
888	65.400	63.654	-0.110	0.0	0.0	0.0
900	65.400	63.652	-0.110	0.0	0.0	0.0
912	65.400	63.650	-0.110	0.0	0.0	0.0
924	65.400	63.649	-0.110	0.0	0.0	0.0
936	65.400	63.647	-0.110	0.0	0.0	0.0
948	65.400	63.645	-0.110	0.0	0.0	0.0
960	65.400	63.643	-0.110	0.0	0.0	0.0
972	65.400	63.641	-0.110	0.0	0.0	0.0
984	65.400	63.639	-0.110	0.0	0.0	0.0
996	65.400	63.637	-0.110	0.0	0.0	0.0
1008	65.400	63.635	-0.110	0.0	0.0	0.0
1020	65.400	63.634	-0.110	0.0	0.0	0.0
1032	65.400	63.632	-0.110	0.0	0.0	0.0
1044	65.400	63.630	-0.110	0.0	0.0	0.0
1056	65.400	63.628	-0.110	0.0	0.0	0.0
1068	65.400	63.626	-0.110	0.0	0.0	0.0
1080	65.400	63.624	-0.110	0.0	0.0	0.0
1092	65.400	63.623	-0.110	0.0	0.0	0.0
1104	65.400	63.621	-0.110	0.0	0.0	0.0
1116	65.400	63.619	-0.110	0.0	0.0	0.0
1128	65.400	63.617	-0.110	0.0	0.0	0.0
1140	65.400	63.615	-0.110	0.0	0.0	0.0
1152	65.400	63.614	-0.110	0.0	0.0	0.0
1164	65.400	63.612	-0.110	0.0	0.0	0.0
1176	65.400	63.610	-0.110	0.0	0.0	0.0
1188	65.400	63.608	-0.110	0.0	0.0	0.0
1200	65.400	63.606	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	65.400	63.605	-0.110	0.0	0.0	0.0
1224	65.400	63.603	-0.110	0.0	0.0	0.0
1236	65.400	63.601	-0.110	0.0	0.0	0.0
1248	65.400	63.599	-0.110	0.0	0.0	0.0
1260	65.400	63.597	-0.110	0.0	0.0	0.0
1272	65.400	63.595	-0.110	0.0	0.0	0.0
1284	65.400	63.594	-0.110	0.0	0.0	0.0
1296	65.400	63.592	-0.110	0.0	0.0	0.0
1308	65.400	63.590	-0.110	0.0	0.0	0.0
1320	65.400	63.588	-0.110	0.0	0.0	0.0
1332	65.400	63.587	-0.110	0.0	0.0	0.0
1344	65.400	63.585	-0.110	0.0	0.0	0.0
1356	65.400	63.583	-0.110	0.0	0.0	0.0
1368	65.400	63.581	-0.110	0.0	0.0	0.0
1380	65.400	63.579	-0.110	0.0	0.0	0.0
1392	65.400	63.578	-0.110	0.0	0.0	0.0
1404	65.400	63.576	-0.110	0.0	0.0	0.0
1416	65.400	63.574	-0.110	0.0	0.0	0.0
1428	65.400	63.573	-0.110	0.0	0.0	0.0
1440	65.400	63.571	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	63.499	63.454	-0.105	0.0	0.3	0.1
24	63.500	63.454	-0.105	0.0	0.3	0.1
36	63.500	63.455	-0.104	0.0	0.3	0.1
48	63.500	63.455	-0.104	0.0	0.3	0.1
60	63.500	63.455	-0.104	0.0	0.3	0.1
72	63.500	63.455	-0.104	0.0	0.3	0.1
84	63.500	63.455	-0.104	0.0	0.3	0.1
96	63.500	63.455	-0.104	0.0	0.3	0.1
108	63.501	63.455	-0.104	0.0	0.3	0.1
120	63.501	63.456	-0.103	0.0	0.4	0.1
132	63.501	63.456	-0.103	0.0	0.4	0.1
144	63.501	63.456	-0.103	0.0	0.3	0.1
156	63.502	63.456	-0.102	0.0	0.3	0.1
168	63.502	63.456	-0.102	0.0	0.3	0.1
180	63.503	63.457	-0.102	0.0	0.3	0.1
192	63.503	63.457	-0.101	0.0	0.3	0.1
204	63.504	63.457	-0.100	0.0	0.3	0.1
216	63.504	63.458	-0.100	0.0	0.3	0.1
228	63.505	63.458	-0.099	0.0	0.3	0.1
240	63.506	63.459	-0.098	0.0	0.3	0.2
252	63.506	63.460	-0.098	0.0	0.3	0.2
264	63.507	63.462	-0.097	0.0	0.3	0.2
276	63.508	63.463	-0.096	0.0	0.4	0.3
288	63.509	63.466	-0.095	0.0	0.4	0.3
300	63.511	63.468	-0.093	0.0	0.4	0.4
312	63.512	63.470	-0.092	0.0	0.4	0.4
324	63.514	63.472	-0.090	0.0	0.4	0.5
336	63.516	63.474	-0.088	0.0	0.4	0.6
348	63.518	63.477	-0.087	0.0	0.5	0.7
360	63.519	63.487	-0.085	0.0	0.5	0.8
372	63.526	63.519	-0.079	0.0	0.5	0.8
384	63.547	63.544	-0.057	0.0	0.2	0.7
396	63.568	63.566	-0.036	0.0	0.1	0.6
408	63.586	63.584	-0.018	0.0	0.1	0.5
420	63.601	63.599	-0.003	0.0	0.0	0.4
432	63.613	63.611	0.009	0.0	0.0	0.4
444	63.623	63.621	0.018	0.0	0.0	0.3
456	63.630	63.629	0.026	0.0	0.0	0.3
468	63.636	63.635	0.032	0.0	0.0	0.2
480	63.641	63.640	0.037	0.0	0.0	0.2
492	63.645	63.645	0.041	0.0	0.0	0.2
504	63.649	63.648	0.045	0.0	0.0	0.1
516	63.652	63.652	0.048	0.0	0.0	0.1
528	63.655	63.654	0.051	0.0	0.0	0.1
540	63.658	63.657	0.054	0.0	0.0	0.1
552	63.660	63.660	0.056	0.0	0.0	0.1
564	63.663	63.662	0.059	0.0	0.0	0.1
576	63.665	63.665	0.061	0.0	0.0	0.1
588	63.668	63.667	0.063	0.0	0.0	0.1
600	63.670	63.669	0.066	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	63.671	63.671	0.067	0.0	0.0	0.1
624	63.673	63.673	0.069	0.0	0.0	0.1
636	63.675	63.675	0.071	0.0	0.0	0.1
648	63.677	63.677	0.073	0.0	0.0	0.1
660	63.679	63.678	0.075	0.0	0.0	0.1
672	63.680	63.680	0.076	0.0	0.0	0.1
684	63.682	63.682	0.078	0.0	0.0	0.1
696	63.683	63.683	0.079	0.0	0.0	0.1
708	63.685	63.685	0.081	0.0	0.0	0.1
720	63.686	63.686	0.082	0.0	0.0	0.1
732	63.684	63.684	0.080	0.0	0.0	0.0
744	63.681	63.681	0.077	0.0	0.0	0.0
756	63.679	63.678	0.074	0.0	0.0	0.0
768	63.676	63.676	0.071	0.0	0.0	0.0
780	63.673	63.673	0.069	0.0	0.0	0.0
792	63.670	63.671	0.066	0.0	0.0	0.0
804	63.669	63.669	0.065	0.0	0.0	0.0
816	63.666	63.666	0.062	0.0	0.0	0.0
828	63.664	63.664	0.060	0.0	0.0	0.0
840	63.662	63.662	0.058	0.0	0.0	0.0
852	63.660	63.660	0.056	0.0	0.0	0.0
864	63.658	63.659	0.054	0.0	0.0	0.0
876	63.656	63.656	0.052	0.0	0.0	0.0
888	63.654	63.654	0.050	0.0	0.0	0.0
900	63.652	63.652	0.048	0.0	0.0	0.0
912	63.650	63.650	0.046	0.0	0.0	0.0
924	63.649	63.649	0.045	0.0	0.0	0.0
936	63.647	63.647	0.042	0.0	0.0	0.0
948	63.645	63.645	0.040	0.0	0.0	0.0
960	63.643	63.643	0.039	0.0	0.0	0.0
972	63.641	63.641	0.037	0.0	0.0	0.0
984	63.639	63.639	0.035	0.0	0.0	0.0
996	63.637	63.638	0.033	0.0	0.0	0.0
1008	63.635	63.636	0.031	0.0	0.0	0.0
1020	63.634	63.634	0.029	0.0	0.0	0.0
1032	63.632	63.632	0.028	0.0	0.0	0.0
1044	63.630	63.630	0.026	0.0	0.0	0.0
1056	63.628	63.628	0.024	0.0	0.0	0.0
1068	63.626	63.626	0.022	0.0	0.0	0.0
1080	63.624	63.625	0.020	0.0	0.0	0.0
1092	63.623	63.623	0.018	0.0	0.0	0.0
1104	63.621	63.621	0.017	0.0	0.0	0.0
1116	63.619	63.619	0.015	0.0	0.0	0.0
1128	63.617	63.617	0.013	0.0	0.0	0.0
1140	63.615	63.616	0.011	0.0	0.0	0.0
1152	63.614	63.614	0.010	0.0	0.0	0.0
1164	63.612	63.612	0.008	0.0	0.0	0.0
1176	63.610	63.610	0.006	0.0	0.0	0.0
1188	63.608	63.608	0.004	0.0	0.0	0.0
1200	63.606	63.607	0.002	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	63.605	63.605	0.000	0.0	0.0	0.0
1224	63.603	63.603	-0.001	0.0	0.0	0.0
1236	63.601	63.601	-0.003	0.0	0.0	0.0
1248	63.599	63.599	-0.005	0.0	0.0	0.0
1260	63.597	63.598	-0.007	0.0	0.0	0.0
1272	63.595	63.596	-0.009	0.0	0.0	0.0
1284	63.594	63.594	-0.010	0.0	0.0	0.0
1296	63.592	63.592	-0.012	0.0	0.0	0.0
1308	63.590	63.590	-0.014	0.0	0.0	0.0
1320	63.588	63.588	-0.016	0.0	0.0	0.0
1332	63.587	63.587	-0.018	0.0	0.0	0.0
1344	63.585	63.585	-0.019	0.0	0.0	0.0
1356	63.583	63.583	-0.021	0.0	0.0	0.0
1368	63.581	63.581	-0.023	0.0	0.0	0.0
1380	63.579	63.580	-0.025	0.0	0.0	0.0
1392	63.578	63.578	-0.026	0.0	0.0	0.0
1404	63.576	63.576	-0.028	0.0	0.0	0.0
1416	63.574	63.574	-0.030	0.0	0.0	0.0
1428	63.573	63.573	-0.032	0.0	0.0	0.0
1440	63.571	63.571	-0.033	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	65.401	65.001	-0.109	0.0	0.1	0.0
24	65.401	65.001	-0.109	0.0	0.1	0.0
36	65.401	65.001	-0.109	0.0	0.1	0.0
48	65.401	65.001	-0.109	0.0	0.2	0.0
60	65.401	65.001	-0.109	0.0	0.2	0.0
72	65.401	65.001	-0.109	0.0	0.2	0.0
84	65.401	65.001	-0.109	0.0	0.2	0.0
96	65.401	65.001	-0.109	0.0	0.2	0.0
108	65.401	65.001	-0.109	0.0	0.2	0.0
120	65.401	65.002	-0.109	0.0	0.2	0.0
132	65.401	65.002	-0.109	0.0	0.2	0.0
144	65.401	65.002	-0.109	0.0	0.2	0.0
156	65.401	65.002	-0.109	0.0	0.2	0.0
168	65.401	65.002	-0.109	0.0	0.2	0.1
180	65.401	65.002	-0.109	0.0	0.2	0.1
192	65.401	65.002	-0.109	0.0	0.2	0.1
204	65.402	65.002	-0.108	0.0	0.3	0.1
216	65.402	65.002	-0.108	0.0	0.3	0.1
228	65.402	65.003	-0.108	0.0	0.3	0.1
240	65.402	65.003	-0.108	0.0	0.3	0.1
252	65.402	65.003	-0.108	0.0	0.4	0.1
264	65.403	65.004	-0.107	0.0	0.4	0.1
276	65.403	65.005	-0.107	0.0	0.5	0.1
288	65.404	65.005	-0.106	0.0	0.6	0.2
300	65.405	65.007	-0.105	0.0	0.8	0.2
312	65.406	65.008	-0.104	0.0	0.9	0.2
324	65.406	65.009	-0.104	0.0	1.0	0.3
336	65.408	65.011	-0.102	0.0	1.1	0.3
348	65.409	65.011	-0.101	0.0	1.0	0.3
360	65.410	65.012	-0.100	0.0	0.9	0.4
372	65.410	65.012	-0.100	0.0	0.9	0.4
384	65.409	65.011	-0.101	0.0	1.0	0.3
396	65.408	65.011	-0.102	0.0	1.1	0.3
408	65.406	65.009	-0.104	0.0	1.0	0.3
420	65.405	65.008	-0.105	0.0	0.9	0.2
432	65.405	65.007	-0.105	0.0	0.8	0.2
444	65.404	65.005	-0.106	0.0	0.6	0.2
456	65.403	65.005	-0.107	0.0	0.5	0.1
468	65.403	65.004	-0.107	0.0	0.4	0.1
480	65.402	65.003	-0.108	0.0	0.4	0.1
492	65.402	65.003	-0.108	0.0	0.3	0.1
504	65.402	65.003	-0.108	0.0	0.3	0.1
516	65.402	65.002	-0.108	0.0	0.3	0.1
528	65.402	65.002	-0.108	0.0	0.3	0.1
540	65.401	65.002	-0.109	0.0	0.2	0.1
552	65.401	65.002	-0.109	0.0	0.2	0.1
564	65.401	65.002	-0.109	0.0	0.2	0.1
576	65.401	65.002	-0.109	0.0	0.2	0.0
588	65.401	65.002	-0.109	0.0	0.2	0.0
600	65.401	65.002	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	65.401	65.002	-0.109	0.0	0.2	0.0
624	65.401	65.001	-0.109	0.0	0.2	0.0
636	65.401	65.001	-0.109	0.0	0.2	0.0
648	65.401	65.001	-0.109	0.0	0.2	0.0
660	65.401	65.001	-0.109	0.0	0.2	0.0
672	65.401	65.001	-0.109	0.0	0.2	0.0
684	65.401	65.001	-0.109	0.0	0.2	0.0
696	65.401	65.001	-0.109	0.0	0.1	0.0
708	65.401	65.001	-0.109	0.0	0.1	0.0
720	65.401	65.001	-0.109	0.0	0.1	0.0
732	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
756	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
780	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
804	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
828	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
852	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
876	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
900	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
924	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
948	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
972	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
996	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1020	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1044	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1068	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1092	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1116	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1140	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1164	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1188	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	65.400	65.000	-0.110	0.0	0.0	0.0
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1236	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1260	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1284	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1308	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1332	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1356	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1380	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1404	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1428	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	65.001	63.454	-0.109	0.0	0.3	0.1
24	65.001	63.454	-0.109	0.0	0.3	0.1
36	65.001	63.455	-0.109	0.0	0.3	0.1
48	65.001	63.455	-0.109	0.0	0.3	0.1
60	65.001	63.455	-0.109	0.0	0.3	0.1
72	65.001	63.455	-0.109	0.0	0.3	0.1
84	65.001	63.455	-0.109	0.0	0.3	0.1
96	65.001	63.455	-0.109	0.0	0.3	0.1
108	65.001	63.455	-0.109	0.0	0.3	0.1
120	65.002	63.456	-0.108	0.0	0.4	0.1
132	65.002	63.456	-0.108	0.0	0.4	0.1
144	65.002	63.456	-0.108	0.0	0.4	0.1
156	65.002	63.456	-0.108	0.0	0.4	0.1
168	65.002	63.456	-0.108	0.0	0.4	0.1
180	65.002	63.457	-0.108	0.0	0.4	0.1
192	65.002	63.457	-0.108	0.0	0.5	0.1
204	65.002	63.457	-0.108	0.0	0.5	0.1
216	65.002	63.458	-0.108	0.0	0.5	0.1
228	65.003	63.458	-0.107	0.0	0.6	0.1
240	65.003	63.459	-0.107	0.0	0.7	0.2
252	65.003	63.460	-0.107	0.0	0.8	0.2
264	65.004	63.462	-0.106	0.0	0.9	0.2
276	65.005	63.463	-0.105	0.0	1.1	0.3
288	65.005	63.466	-0.105	0.0	1.3	0.3
300	65.007	63.468	-0.103	0.0	1.5	0.4
312	65.008	63.470	-0.102	0.0	1.5	0.4
324	65.009	63.472	-0.101	0.0	1.4	0.5
336	65.011	63.474	-0.099	0.0	1.3	0.6
348	65.011	63.477	-0.099	0.0	1.3	0.7
360	65.012	63.487	-0.098	0.0	1.4	0.8
372	65.012	63.519	-0.098	0.0	1.4	0.8
384	65.011	63.544	-0.099	0.0	1.3	0.7
396	65.011	63.566	-0.099	0.0	1.3	0.6
408	65.009	63.584	-0.101	0.0	1.4	0.5
420	65.008	63.599	-0.102	0.0	1.5	0.4
432	65.007	63.611	-0.103	0.0	1.5	0.4
444	65.005	63.621	-0.105	0.0	1.3	0.3
456	65.005	63.629	-0.105	0.0	1.1	0.3
468	65.004	63.635	-0.106	0.0	0.9	0.2
480	65.003	63.640	-0.107	0.0	0.8	0.2
492	65.003	63.645	-0.107	0.0	0.7	0.2
504	65.003	63.648	-0.107	0.0	0.6	0.1
516	65.002	63.652	-0.108	0.0	0.5	0.1
528	65.002	63.654	-0.108	0.0	0.5	0.1
540	65.002	63.657	-0.108	0.0	0.5	0.1
552	65.002	63.660	-0.108	0.0	0.4	0.1
564	65.002	63.662	-0.108	0.0	0.4	0.1
576	65.002	63.665	-0.108	0.0	0.4	0.1
588	65.002	63.667	-0.108	0.0	0.4	0.1
600	65.002	63.669	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	65.002	63.671	-0.108	0.0	0.4	0.1
624	65.001	63.673	-0.109	0.0	0.3	0.1
636	65.001	63.675	-0.109	0.0	0.3	0.1
648	65.001	63.677	-0.109	0.0	0.3	0.1
660	65.001	63.678	-0.109	0.0	0.3	0.1
672	65.001	63.680	-0.109	0.0	0.3	0.1
684	65.001	63.682	-0.109	0.0	0.3	0.1
696	65.001	63.683	-0.109	0.0	0.3	0.1
708	65.001	63.685	-0.109	0.0	0.3	0.1
720	65.001	63.686	-0.109	0.0	0.3	0.1
732	65.000	63.684	-0.110	0.0	0.0	0.0
744	65.000	63.681	-0.110	0.0	0.0	0.0
756	65.000	63.678	-0.110	0.0	0.0	0.0
768	65.000	63.676	-0.110	0.0	0.0	0.0
780	65.000	63.673	-0.110	0.0	0.0	0.0
792	65.000	63.671	-0.110	0.0	0.0	0.0
804	65.000	63.669	-0.110	0.0	0.0	0.0
816	65.000	63.666	-0.110	0.0	0.0	0.0
828	65.000	63.664	-0.110	0.0	0.0	0.0
840	65.000	63.662	-0.110	0.0	0.0	0.0
852	65.000	63.660	-0.110	0.0	0.0	0.0
864	65.000	63.659	-0.110	0.0	0.0	0.0
876	65.000	63.656	-0.110	0.0	0.0	0.0
888	65.000	63.654	-0.110	0.0	0.0	0.0
900	65.000	63.652	-0.110	0.0	0.0	0.0
912	65.000	63.650	-0.110	0.0	0.0	0.0
924	65.000	63.649	-0.110	0.0	0.0	0.0
936	65.000	63.647	-0.110	0.0	0.0	0.0
948	65.000	63.645	-0.110	0.0	0.0	0.0
960	65.000	63.643	-0.110	0.0	0.0	0.0
972	65.000	63.641	-0.110	0.0	0.0	0.0
984	65.000	63.639	-0.110	0.0	0.0	0.0
996	65.000	63.638	-0.110	0.0	0.0	0.0
1008	65.000	63.636	-0.110	0.0	0.0	0.0
1020	65.000	63.634	-0.110	0.0	0.0	0.0
1032	65.000	63.632	-0.110	0.0	0.0	0.0
1044	65.000	63.630	-0.110	0.0	0.0	0.0
1056	65.000	63.628	-0.110	0.0	0.0	0.0
1068	65.000	63.626	-0.110	0.0	0.0	0.0
1080	65.000	63.625	-0.110	0.0	0.0	0.0
1092	65.000	63.623	-0.110	0.0	0.0	0.0
1104	65.000	63.621	-0.110	0.0	0.0	0.0
1116	65.000	63.619	-0.110	0.0	0.0	0.0
1128	65.000	63.617	-0.110	0.0	0.0	0.0
1140	65.000	63.616	-0.110	0.0	0.0	0.0
1152	65.000	63.614	-0.110	0.0	0.0	0.0
1164	65.000	63.612	-0.110	0.0	0.0	0.0
1176	65.000	63.610	-0.110	0.0	0.0	0.0
1188	65.000	63.608	-0.110	0.0	0.0	0.0
1200	65.000	63.607	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	65.000	63.605	-0.110	0.0	0.0	0.0
1224	65.000	63.603	-0.110	0.0	0.0	0.0
1236	65.000	63.601	-0.110	0.0	0.0	0.0
1248	65.000	63.599	-0.110	0.0	0.0	0.0
1260	65.000	63.598	-0.110	0.0	0.0	0.0
1272	65.000	63.596	-0.110	0.0	0.0	0.0
1284	65.000	63.594	-0.110	0.0	0.0	0.0
1296	65.000	63.592	-0.110	0.0	0.0	0.0
1308	65.000	63.590	-0.110	0.0	0.0	0.0
1320	65.000	63.588	-0.110	0.0	0.0	0.0
1332	65.000	63.587	-0.110	0.0	0.0	0.0
1344	65.000	63.585	-0.110	0.0	0.0	0.0
1356	65.000	63.583	-0.110	0.0	0.0	0.0
1368	65.000	63.581	-0.110	0.0	0.0	0.0
1380	65.000	63.580	-0.110	0.0	0.0	0.0
1392	65.000	63.578	-0.110	0.0	0.0	0.0
1404	65.000	63.576	-0.110	0.0	0.0	0.0
1416	65.000	63.574	-0.110	0.0	0.0	0.0
1428	65.000	63.573	-0.110	0.0	0.0	0.0
1440	65.000	63.571	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	63.454	63.253	-0.100	0.0	0.3	0.1
24	63.454	63.256	-0.100	0.0	0.3	0.1
36	63.455	63.259	-0.100	0.0	0.3	0.1
48	63.455	63.261	-0.099	0.0	0.3	0.1
60	63.455	63.264	-0.099	0.0	0.3	0.1
72	63.455	63.267	-0.099	0.0	0.3	0.2
84	63.455	63.269	-0.099	0.0	0.3	0.2
96	63.455	63.272	-0.099	0.0	0.3	0.2
108	63.455	63.274	-0.099	0.0	0.3	0.2
120	63.456	63.276	-0.098	0.0	0.3	0.2
132	63.456	63.278	-0.098	0.0	0.3	0.2
144	63.456	63.280	-0.098	0.0	0.3	0.2
156	63.456	63.283	-0.098	0.0	0.3	0.2
168	63.456	63.285	-0.098	0.0	0.4	0.2
180	63.457	63.288	-0.097	0.0	0.4	0.2
192	63.457	63.291	-0.097	0.0	0.4	0.2
204	63.457	63.294	-0.097	0.0	0.4	0.2
216	63.458	63.297	-0.096	0.0	0.4	0.3
228	63.458	63.301	-0.096	0.0	0.4	0.3
240	63.459	63.306	-0.095	0.0	0.4	0.3
252	63.460	63.311	-0.094	0.0	0.4	0.4
264	63.462	63.318	-0.093	0.0	0.4	0.4
276	63.463	63.328	-0.091	0.0	0.5	0.5
288	63.466	63.340	-0.088	0.0	0.5	0.6
300	63.468	63.354	-0.086	0.0	0.5	0.7
312	63.470	63.372	-0.085	0.0	0.5	0.9
324	63.472	63.396	-0.083	0.0	0.5	1.0
336	63.474	63.421	-0.080	0.0	0.6	1.2
348	63.477	63.449	-0.077	0.0	0.6	1.4
360	63.487	63.481	-0.067	0.0	0.6	1.6
372	63.519	63.514	-0.035	0.0	0.3	1.6
384	63.544	63.540	-0.010	0.0	0.2	1.4
396	63.566	63.562	0.012	0.0	0.1	1.2
408	63.584	63.581	0.030	0.0	0.1	1.0
420	63.599	63.596	0.045	0.0	0.1	0.9
432	63.611	63.609	0.057	0.0	0.1	0.7
444	63.621	63.619	0.067	0.0	0.1	0.6
456	63.629	63.627	0.075	0.0	0.1	0.5
468	63.635	63.634	0.081	0.0	0.0	0.4
480	63.640	63.639	0.086	0.0	0.0	0.4
492	63.645	63.644	0.090	0.0	0.0	0.3
504	63.648	63.647	0.094	0.0	0.0	0.3
516	63.652	63.651	0.097	0.0	0.0	0.3
528	63.654	63.654	0.100	0.0	0.0	0.2
540	63.657	63.656	0.103	0.0	0.0	0.2
552	63.660	63.659	0.106	0.0	0.0	0.2
564	63.662	63.662	0.108	0.0	0.0	0.2
576	63.665	63.664	0.111	0.0	0.0	0.2
588	63.667	63.667	0.113	0.0	0.0	0.2
600	63.669	63.669	0.115	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	63.671	63.671	0.117	0.0	0.0	0.2
624	63.673	63.672	0.119	0.0	0.0	0.2
636	63.675	63.674	0.121	0.0	0.0	0.2
648	63.677	63.676	0.123	0.0	0.0	0.2
660	63.678	63.678	0.124	0.0	0.0	0.2
672	63.680	63.680	0.126	0.0	0.0	0.1
684	63.682	63.681	0.127	0.0	0.0	0.1
696	63.683	63.683	0.129	0.0	0.0	0.1
708	63.685	63.684	0.130	0.0	0.0	0.1
720	63.686	63.685	0.132	0.0	0.0	0.1
732	63.684	63.684	0.130	0.0	0.0	0.0
744	63.681	63.681	0.127	0.0	0.0	0.0
756	63.678	63.679	0.124	0.0	0.0	0.0
768	63.676	63.676	0.122	0.0	0.0	0.0
780	63.673	63.674	0.119	0.0	0.0	0.0
792	63.671	63.671	0.117	0.0	0.0	0.0
804	63.669	63.669	0.115	0.0	0.0	0.0
816	63.666	63.667	0.112	0.0	0.0	0.0
828	63.664	63.664	0.110	0.0	0.0	0.0
840	63.662	63.662	0.108	0.0	0.0	0.0
852	63.660	63.660	0.106	0.0	0.0	0.0
864	63.659	63.658	0.104	0.0	0.0	0.0
876	63.656	63.656	0.102	0.0	0.0	0.0
888	63.654	63.654	0.100	0.0	0.0	0.0
900	63.652	63.652	0.098	0.0	0.0	0.0
912	63.650	63.651	0.096	0.0	0.0	0.0
924	63.649	63.649	0.095	0.0	0.0	0.0
936	63.647	63.647	0.093	0.0	0.0	0.0
948	63.645	63.645	0.091	0.0	0.0	0.0
960	63.643	63.643	0.089	0.0	0.0	0.0
972	63.641	63.641	0.087	0.0	0.0	0.0
984	63.639	63.639	0.085	0.0	0.0	0.0
996	63.638	63.638	0.083	0.0	0.0	0.0
1008	63.636	63.636	0.082	0.0	0.0	0.0
1020	63.634	63.634	0.080	0.0	0.0	0.0
1032	63.632	63.632	0.078	0.0	0.0	0.0
1044	63.630	63.630	0.076	0.0	0.0	0.0
1056	63.628	63.628	0.074	0.0	0.0	0.0
1068	63.626	63.627	0.072	0.0	0.0	0.0
1080	63.625	63.625	0.071	0.0	0.0	0.0
1092	63.623	63.623	0.069	0.0	0.0	0.0
1104	63.621	63.621	0.067	0.0	0.0	0.0
1116	63.619	63.619	0.065	0.0	0.0	0.0
1128	63.617	63.618	0.063	0.0	0.0	0.0
1140	63.616	63.616	0.061	0.0	0.0	0.0
1152	63.614	63.614	0.060	0.0	0.0	0.0
1164	63.612	63.612	0.058	0.0	0.0	0.0
1176	63.610	63.610	0.056	0.0	0.0	0.0
1188	63.608	63.608	0.054	0.0	0.0	0.0
1200	63.607	63.607	0.052	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	63.605	63.605	0.051	0.0	0.0	0.0
1224	63.603	63.603	0.049	0.0	0.0	0.0
1236	63.601	63.601	0.047	0.0	0.0	0.0
1248	63.599	63.599	0.045	0.0	0.0	0.0
1260	63.598	63.598	0.043	0.0	0.0	0.0
1272	63.596	63.596	0.042	0.0	0.0	0.0
1284	63.594	63.594	0.040	0.0	0.0	0.0
1296	63.592	63.592	0.038	0.0	0.0	0.0
1308	63.590	63.591	0.036	0.0	0.0	0.0
1320	63.588	63.589	0.034	0.0	0.0	0.0
1332	63.587	63.587	0.033	0.0	0.0	0.0
1344	63.585	63.585	0.031	0.0	0.0	0.0
1356	63.583	63.583	0.029	0.0	0.0	0.0
1368	63.581	63.582	0.027	0.0	0.0	0.0
1380	63.580	63.580	0.026	0.0	0.0	0.0
1392	63.578	63.578	0.024	0.0	0.0	0.0
1404	63.576	63.576	0.022	0.0	0.0	0.0
1416	63.574	63.575	0.020	0.0	0.0	0.0
1428	63.573	63.573	0.018	0.0	0.0	0.0
1440	63.571	63.571	0.017	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	63.253	63.100	-0.107	0.0	0.0	0.0
24	63.256	63.101	-0.104	0.0	0.0	0.0
36	63.259	63.102	-0.101	0.0	0.0	0.0
48	63.261	63.105	-0.099	0.0	0.1	0.0
60	63.264	63.109	-0.096	0.0	0.1	0.0
72	63.267	63.113	-0.093	0.0	0.2	0.0
84	63.269	63.119	-0.091	0.0	0.2	0.0
96	63.272	63.125	-0.088	0.0	0.2	0.1
108	63.274	63.132	-0.086	0.0	0.2	0.1
120	63.276	63.139	-0.084	0.0	0.3	0.1
132	63.278	63.145	-0.082	0.0	0.3	0.1
144	63.280	63.150	-0.080	0.0	0.3	0.1
156	63.283	63.156	-0.077	0.0	0.3	0.1
168	63.285	63.163	-0.075	0.0	0.3	0.1
180	63.288	63.171	-0.072	0.0	0.3	0.1
192	63.291	63.179	-0.069	0.0	0.3	0.1
204	63.294	63.191	-0.066	0.0	0.3	0.1
216	63.297	63.202	-0.063	0.0	0.3	0.1
228	63.301	63.214	-0.059	0.0	0.3	0.1
240	63.306	63.227	-0.054	0.0	0.3	0.1
252	63.311	63.241	-0.049	0.0	0.3	0.1
264	63.318	63.252	-0.042	0.0	0.3	0.1
276	63.328	63.253	-0.032	0.0	0.3	0.1
288	63.340	63.256	-0.020	0.0	0.3	0.1
300	63.354	63.260	-0.006	0.0	0.3	0.1
312	63.372	63.260	0.012	0.0	0.2	0.1
324	63.396	63.259	0.036	0.0	0.2	0.1
336	63.421	63.266	0.061	0.0	0.3	0.1
348	63.449	63.281	0.089	0.0	0.3	0.1
360	63.481	63.303	0.121	0.0	0.3	0.2
372	63.514	63.335	0.154	0.0	0.4	0.2
384	63.540	63.370	0.180	0.0	0.4	0.2
396	63.562	63.402	0.202	0.0	0.4	0.2
408	63.581	63.431	0.221	0.0	0.1	0.2
420	63.596	63.457	0.236	0.0	0.0	0.2
432	63.609	63.481	0.249	0.0	0.0	0.2
444	63.619	63.501	0.259	0.0	0.0	0.2
456	63.627	63.519	0.267	0.0	0.0	0.2
468	63.634	63.534	0.274	0.0	0.0	0.2
480	63.639	63.546	0.279	0.0	0.0	0.1
492	63.644	63.557	0.284	0.0	0.0	0.1
504	63.647	63.565	0.287	0.0	0.0	0.1
516	63.651	63.572	0.291	0.0	0.0	0.1
528	63.654	63.578	0.294	0.0	0.0	0.1
540	63.656	63.583	0.296	0.0	0.0	0.1
552	63.659	63.587	0.299	0.0	0.0	0.1
564	63.662	63.591	0.302	0.0	0.0	0.1
576	63.664	63.595	0.304	0.0	0.0	0.1
588	63.667	63.598	0.307	0.0	0.0	0.1
600	63.669	63.601	0.309	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	63.671	63.603	0.311	0.0	0.0	0.1
624	63.672	63.606	0.312	0.0	0.0	0.1
636	63.674	63.608	0.314	0.0	0.0	0.1
648	63.676	63.610	0.316	0.0	0.0	0.1
660	63.678	63.612	0.318	0.0	0.0	0.1
672	63.680	63.614	0.320	0.0	0.0	0.1
684	63.681	63.616	0.321	0.0	0.0	0.1
696	63.683	63.617	0.323	0.0	0.0	0.1
708	63.684	63.619	0.324	0.0	0.0	0.1
720	63.685	63.621	0.325	0.0	0.0	0.1
732	63.684	63.622	0.324	0.0	0.0	0.1
744	63.681	63.622	0.321	0.0	0.0	0.1
756	63.679	63.622	0.319	0.0	0.0	0.1
768	63.676	63.620	0.316	0.0	0.0	0.1
780	63.674	63.619	0.314	0.0	0.0	0.1
792	63.671	63.617	0.311	0.0	0.0	0.1
804	63.669	63.615	0.309	0.0	0.0	0.1
816	63.667	63.613	0.307	0.0	0.0	0.1
828	63.664	63.611	0.304	0.0	0.0	0.1
840	63.662	63.609	0.302	0.0	0.0	0.1
852	63.660	63.607	0.300	0.0	0.0	0.1
864	63.658	63.605	0.298	0.0	0.0	0.1
876	63.656	63.603	0.296	0.0	0.0	0.1
888	63.654	63.601	0.294	0.0	0.0	0.1
900	63.652	63.599	0.292	0.0	0.0	0.1
912	63.651	63.597	0.291	0.0	0.0	0.1
924	63.649	63.595	0.289	0.0	0.0	0.1
936	63.647	63.593	0.287	0.0	0.0	0.1
948	63.645	63.591	0.285	0.0	0.0	0.1
960	63.643	63.590	0.283	0.0	0.0	0.1
972	63.641	63.588	0.281	0.0	0.0	0.1
984	63.639	63.586	0.279	0.0	0.0	0.1
996	63.638	63.584	0.278	0.0	0.0	0.1
1008	63.636	63.582	0.276	0.0	0.0	0.1
1020	63.634	63.581	0.274	0.0	0.0	0.1
1032	63.632	63.579	0.272	0.0	0.0	0.1
1044	63.630	63.577	0.270	0.0	0.0	0.1
1056	63.628	63.575	0.268	0.0	0.0	0.1
1068	63.627	63.573	0.267	0.0	0.0	0.1
1080	63.625	63.572	0.265	0.0	0.0	0.1
1092	63.623	63.570	0.263	0.0	0.0	0.1
1104	63.621	63.568	0.261	0.0	0.0	0.1
1116	63.619	63.566	0.259	0.0	0.0	0.1
1128	63.618	63.565	0.258	0.0	0.0	0.1
1140	63.616	63.563	0.256	0.0	0.0	0.1
1152	63.614	63.561	0.254	0.0	0.0	0.1
1164	63.612	63.559	0.252	0.0	0.0	0.1
1176	63.610	63.558	0.250	0.0	0.0	0.1
1188	63.608	63.556	0.248	0.0	0.0	0.1
1200	63.607	63.554	0.247	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	63.605	63.552	0.245	0.0	0.0	0.1
1224	63.603	63.551	0.243	0.0	0.0	0.1
1236	63.601	63.549	0.241	0.0	0.0	0.1
1248	63.599	63.547	0.239	0.0	0.0	0.1
1260	63.598	63.545	0.238	0.0	0.0	0.1
1272	63.596	63.544	0.236	0.0	0.0	0.1
1284	63.594	63.542	0.234	0.0	0.0	0.1
1296	63.592	63.540	0.232	0.0	0.0	0.1
1308	63.591	63.539	0.231	0.0	0.0	0.1
1320	63.589	63.537	0.229	0.0	0.0	0.1
1332	63.587	63.535	0.227	0.0	0.0	0.1
1344	63.585	63.533	0.225	0.0	0.0	0.1
1356	63.583	63.532	0.223	0.0	0.0	0.1
1368	63.582	63.530	0.222	0.0	0.0	0.1
1380	63.580	63.528	0.220	0.0	0.0	0.1
1392	63.578	63.526	0.218	0.0	0.0	0.1
1404	63.576	63.525	0.216	0.0	0.0	0.1
1416	63.575	63.523	0.215	0.0	0.0	0.1
1428	63.573	63.521	0.213	0.0	0.0	0.1
1440	63.571	63.520	0.211	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.101	63.096	-0.109	0.0	0.0	0.0
36	63.102	63.096	-0.108	0.0	0.0	0.0
48	63.105	63.096	-0.105	0.0	0.0	0.0
60	63.109	63.096	-0.101	0.0	0.0	0.0
72	63.113	63.096	-0.097	0.0	0.0	0.0
84	63.119	63.096	-0.091	0.0	0.0	0.0
96	63.125	63.096	-0.085	0.0	0.0	0.0
108	63.132	63.096	-0.078	0.0	0.0	0.0
120	63.139	63.096	-0.071	0.0	0.0	0.0
132	63.145	63.096	-0.065	0.0	0.0	0.0
144	63.150	63.096	-0.060	0.0	0.0	0.0
156	63.156	63.096	-0.054	0.0	0.0	0.0
168	63.163	63.096	-0.047	0.0	0.0	0.0
180	63.171	63.096	-0.039	0.0	0.0	0.0
192	63.179	63.096	-0.031	0.0	0.0	0.0
204	63.191	63.096	-0.019	0.0	0.0	0.0
216	63.202	63.096	-0.008	0.0	0.0	0.0
228	63.214	63.096	0.004	0.0	0.0	0.0
240	63.227	63.096	0.017	0.0	0.0	0.0
252	63.241	63.096	0.031	0.0	0.0	0.0
264	63.252	63.096	0.042	0.0	0.0	0.0
276	63.253	63.096	0.043	0.0	0.0	0.0
288	63.256	63.096	0.046	0.0	0.0	0.0
300	63.260	63.096	0.050	0.0	0.0	0.0
312	63.260	63.096	0.050	0.0	0.0	0.0
324	63.259	63.096	0.049	0.0	0.0	0.0
336	63.266	63.096	0.056	0.0	0.0	0.0
348	63.281	63.096	0.071	0.0	0.0	0.0
360	63.303	63.096	0.093	0.0	0.0	0.0
372	63.335	63.096	0.125	0.0	0.0	0.0
384	63.370	63.096	0.160	0.0	0.1	0.0
396	63.402	63.096	0.192	0.0	0.1	0.0
408	63.431	63.096	0.221	0.0	0.1	0.0
420	63.457	63.096	0.247	0.0	0.1	0.0
432	63.481	63.096	0.271	0.0	0.1	0.0
444	63.501	63.096	0.291	0.0	0.1	0.0
456	63.519	63.096	0.309	0.0	0.1	0.0
468	63.534	63.096	0.324	0.0	0.1	0.0
480	63.546	63.096	0.336	0.0	0.1	0.0
492	63.557	63.096	0.347	0.0	0.1	0.0
504	63.565	63.096	0.355	0.0	0.1	0.0
516	63.572	63.096	0.362	0.0	0.1	0.0
528	63.578	63.096	0.368	0.0	0.1	0.0
540	63.583	63.096	0.373	0.0	0.1	0.0
552	63.587	63.096	0.377	0.0	0.1	0.0
564	63.591	63.096	0.381	0.0	0.1	0.0
576	63.595	63.096	0.385	0.0	0.1	0.0
588	63.598	63.096	0.388	0.0	0.1	0.0
600	63.601	63.096	0.391	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
612	63.603	63.096	0.393	0.0	0.1	0.0
624	63.606	63.096	0.396	0.0	0.1	0.0
636	63.608	63.096	0.398	0.0	0.1	0.0
648	63.610	63.096	0.400	0.0	0.1	0.0
660	63.612	63.096	0.402	0.0	0.1	0.0
672	63.614	63.096	0.404	0.0	0.1	0.0
684	63.616	63.096	0.406	0.0	0.1	0.0
696	63.617	63.096	0.407	0.0	0.1	0.0
708	63.619	63.096	0.409	0.0	0.1	0.0
720	63.621	63.096	0.411	0.0	0.1	0.0
732	63.622	63.096	0.412	0.0	0.1	0.0
744	63.622	63.096	0.412	0.0	0.1	0.0
756	63.622	63.096	0.412	0.0	0.1	0.0
768	63.620	63.096	0.410	0.0	0.1	0.0
780	63.619	63.096	0.409	0.0	0.1	0.0
792	63.617	63.096	0.407	0.0	0.1	0.0
804	63.615	63.096	0.405	0.0	0.1	0.0
816	63.613	63.096	0.403	0.0	0.1	0.0
828	63.611	63.096	0.401	0.0	0.1	0.0
840	63.609	63.096	0.399	0.0	0.1	0.0
852	63.607	63.096	0.397	0.0	0.1	0.0
864	63.605	63.096	0.395	0.0	0.1	0.0
876	63.603	63.096	0.393	0.0	0.1	0.0
888	63.601	63.096	0.391	0.0	0.1	0.0
900	63.599	63.096	0.389	0.0	0.1	0.0
912	63.597	63.096	0.387	0.0	0.1	0.0
924	63.595	63.096	0.385	0.0	0.1	0.0
936	63.593	63.096	0.383	0.0	0.1	0.0
948	63.591	63.096	0.381	0.0	0.1	0.0
960	63.590	63.096	0.380	0.0	0.1	0.0
972	63.588	63.096	0.378	0.0	0.1	0.0
984	63.586	63.096	0.376	0.0	0.1	0.0
996	63.584	63.096	0.374	0.0	0.1	0.0
1008	63.582	63.096	0.372	0.0	0.1	0.0
1020	63.581	63.096	0.371	0.0	0.1	0.0
1032	63.579	63.096	0.369	0.0	0.1	0.0
1044	63.577	63.096	0.367	0.0	0.1	0.0
1056	63.575	63.096	0.365	0.0	0.1	0.0
1068	63.573	63.096	0.363	0.0	0.1	0.0
1080	63.572	63.096	0.362	0.0	0.1	0.0
1092	63.570	63.096	0.360	0.0	0.1	0.0
1104	63.568	63.096	0.358	0.0	0.1	0.0
1116	63.566	63.096	0.356	0.0	0.1	0.0
1128	63.565	63.096	0.355	0.0	0.1	0.0
1140	63.563	63.096	0.353	0.0	0.1	0.0
1152	63.561	63.096	0.351	0.0	0.1	0.0
1164	63.559	63.096	0.349	0.0	0.1	0.0
1176	63.558	63.096	0.348	0.0	0.1	0.0
1188	63.556	63.096	0.346	0.0	0.1	0.0
1200	63.554	63.096	0.344	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Summer
Average Rainfall Intensity 6.527 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1212	63.552	63.096	0.342	0.0	0.1	0.0
1224	63.551	63.096	0.341	0.0	0.1	0.0
1236	63.549	63.096	0.339	0.0	0.1	0.0
1248	63.547	63.096	0.337	0.0	0.1	0.0
1260	63.545	63.096	0.335	0.0	0.1	0.0
1272	63.544	63.096	0.334	0.0	0.1	0.0
1284	63.542	63.096	0.332	0.0	0.1	0.0
1296	63.540	63.096	0.330	0.0	0.1	0.0
1308	63.539	63.096	0.329	0.0	0.1	0.0
1320	63.537	63.096	0.327	0.0	0.1	0.0
1332	63.535	63.096	0.325	0.0	0.1	0.0
1344	63.533	63.096	0.323	0.0	0.1	0.0
1356	63.532	63.096	0.322	0.0	0.1	0.0
1368	63.530	63.096	0.320	0.0	0.1	0.0
1380	63.528	63.096	0.318	0.0	0.1	0.0
1392	63.526	63.096	0.316	0.0	0.1	0.0
1404	63.525	63.096	0.315	0.0	0.1	0.0
1416	63.523	63.096	0.313	0.0	0.1	0.0
1428	63.521	63.096	0.311	0.0	0.1	0.0
1440	63.520	63.096	0.310	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1440
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	12

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	720
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 720 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.405	-0.105	0.000	0.01	0.0	0.3	OK
1.001	S1	63.689	0.085	0.000	0.08	0.0	0.5	SURCHARGED
2.000	RE2	65.407	-0.103	0.000	0.01	0.0	0.3	OK
2.001	S2	65.009	-0.101	0.000	0.02	0.0	0.5	OK
1.002	S3	63.689	0.135	0.000	0.15	0.0	1.0	SURCHARGED
1.003	S4	63.689	0.329	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.625	0.415	0.000	0.01	0.0	0.0	SURCHARGED

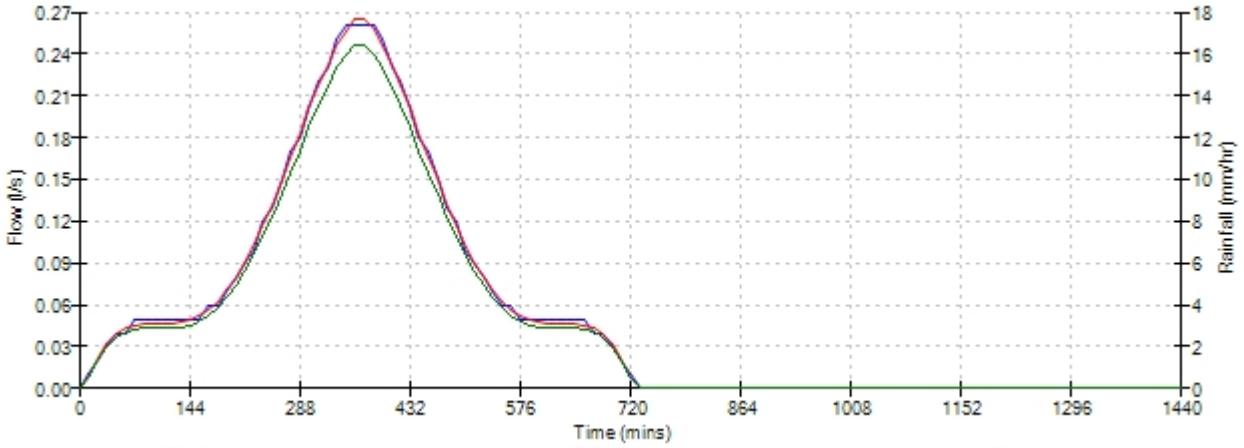
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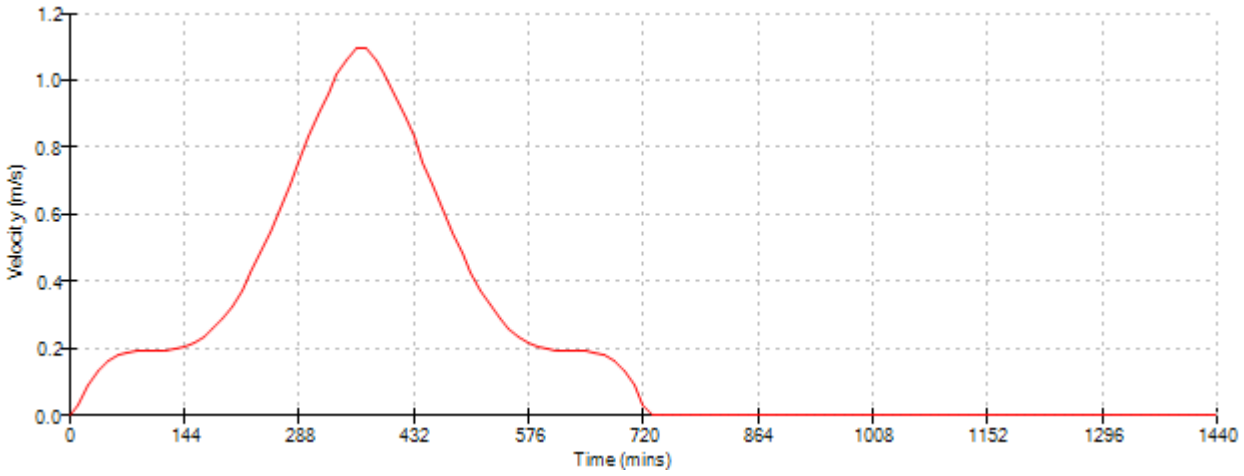
Rainfall Hyetograph for 720 minute 100 year Winter (Storm)

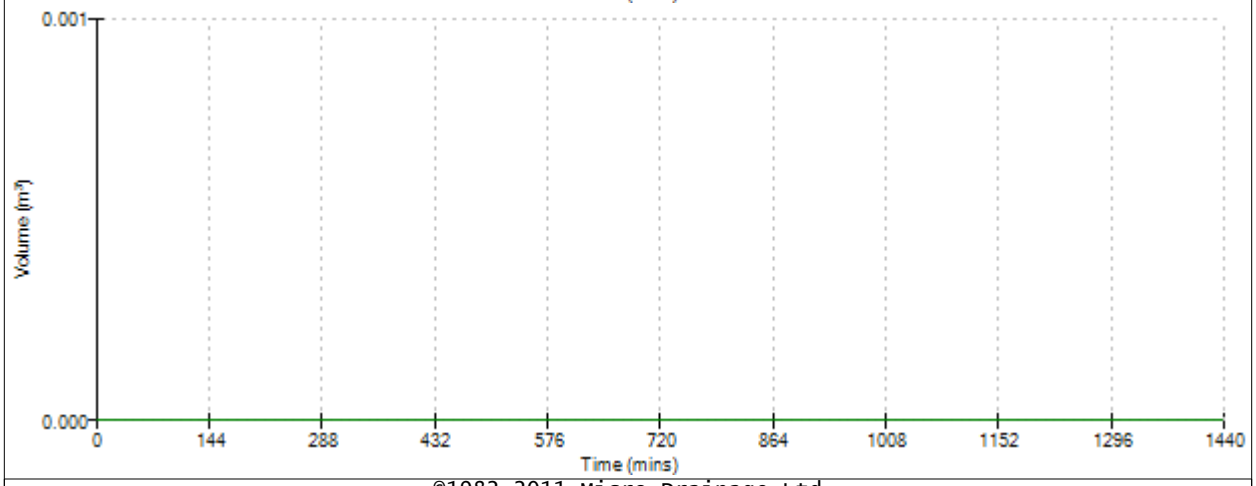
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
12	0.464	156	3.241	300	12.513	444	11.356	588	3.048
24	1.334	168	3.503	312	13.498	456	10.319	600	2.954
36	1.973	180	3.850	324	14.416	468	9.297	612	2.909
48	2.445	192	4.361	336	15.318	480	8.194	624	2.903
60	2.695	204	4.924	348	15.957	492	7.277	636	2.909
72	2.838	216	5.578	360	16.418	504	6.429	648	2.901
84	2.901	228	6.429	372	16.418	516	5.578	660	2.838
96	2.909	240	7.277	384	15.957	528	4.924	672	2.695
108	2.903	252	8.194	396	15.318	540	4.361	684	2.445
120	2.909	264	9.297	408	14.416	552	3.850	696	1.973
132	2.954	276	10.319	420	13.498	564	3.503	708	1.334
144	3.048	288	11.356	432	12.513	576	3.241	720	0.464

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Graphs for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year Winter
Status: OK

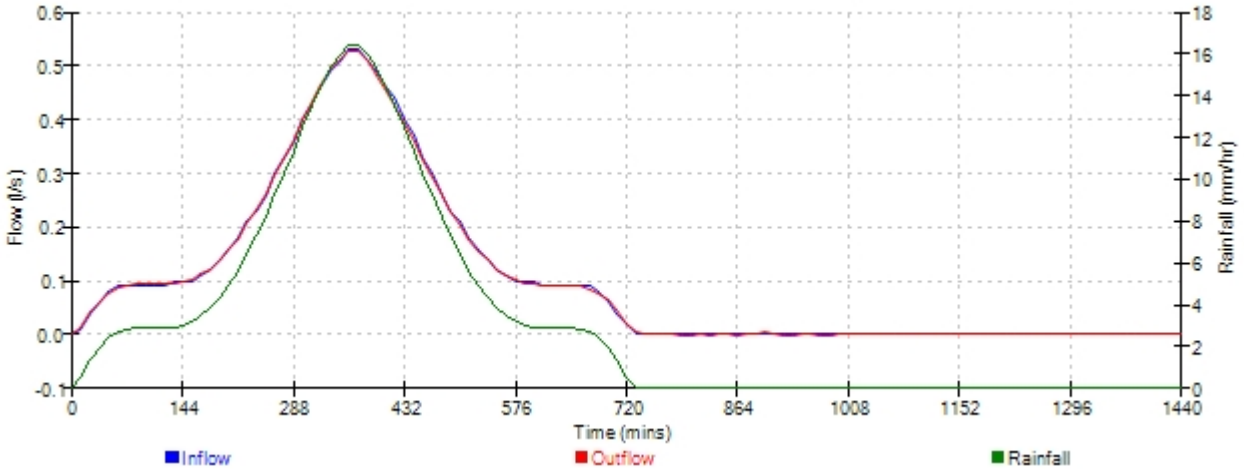


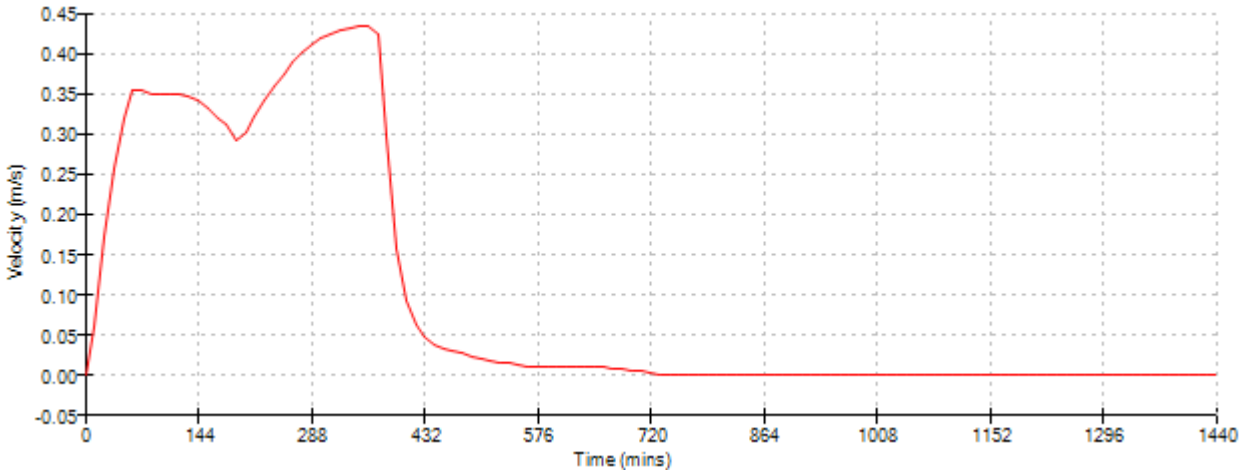


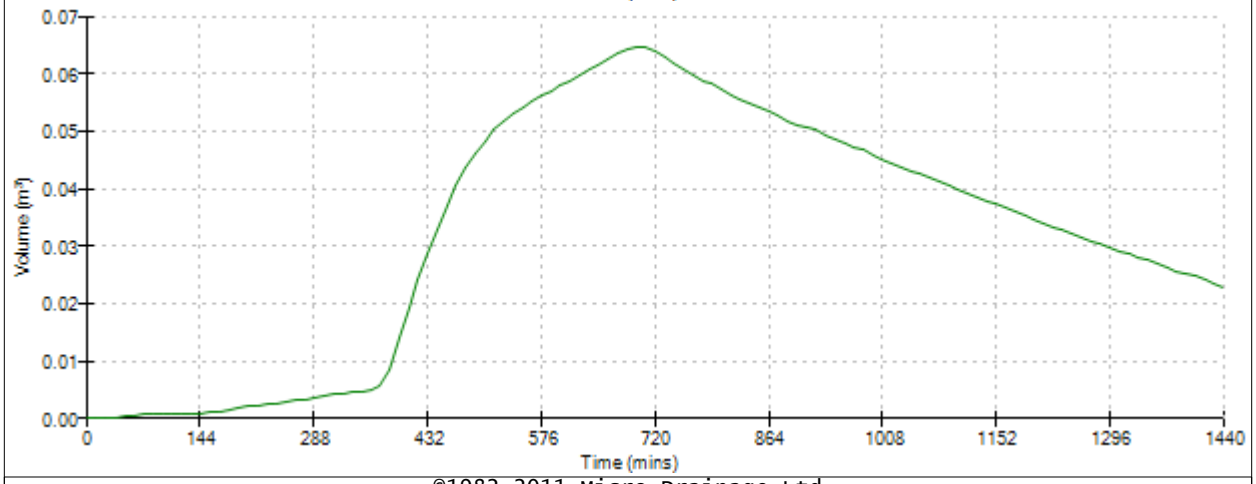


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Graphs for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year Winter
Status: SURCHARGED

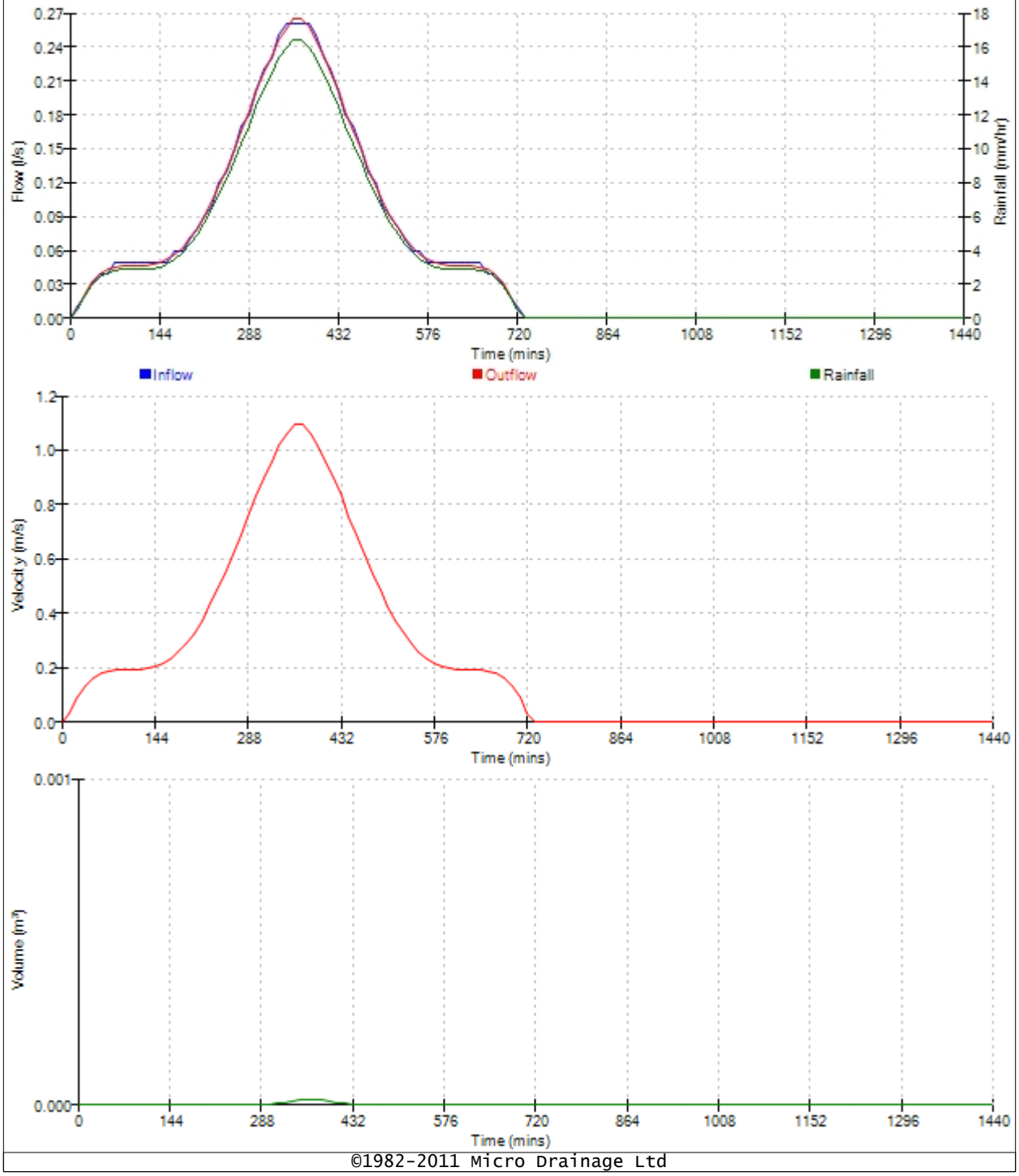






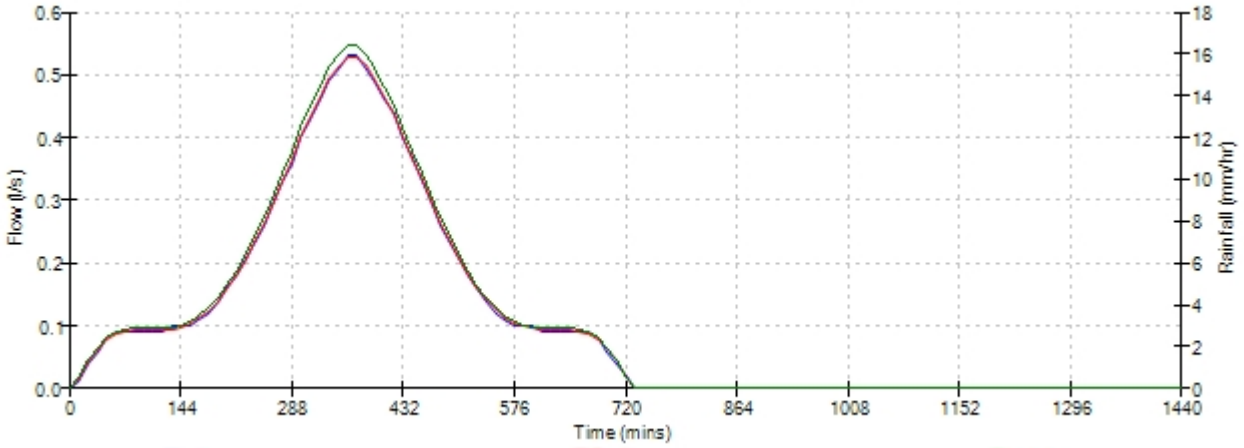
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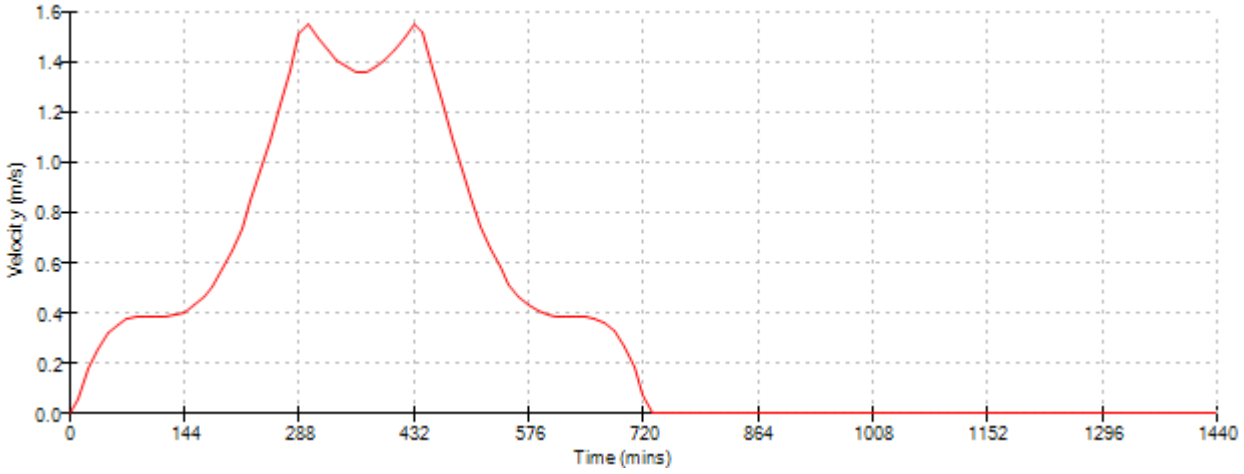
Graphs for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year Winter
Status: OK

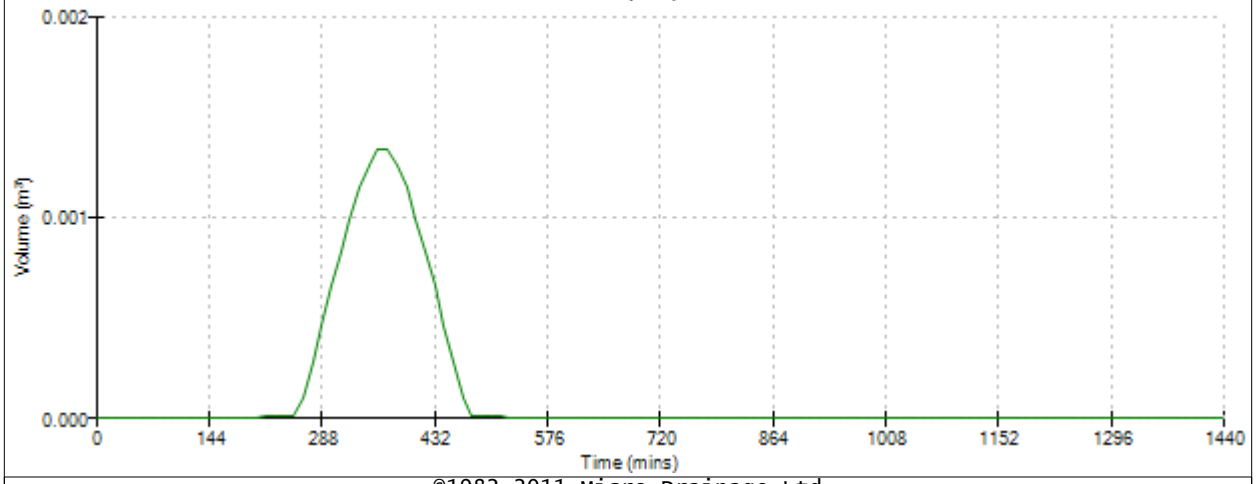


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Graphs for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year Winter
Status: OK

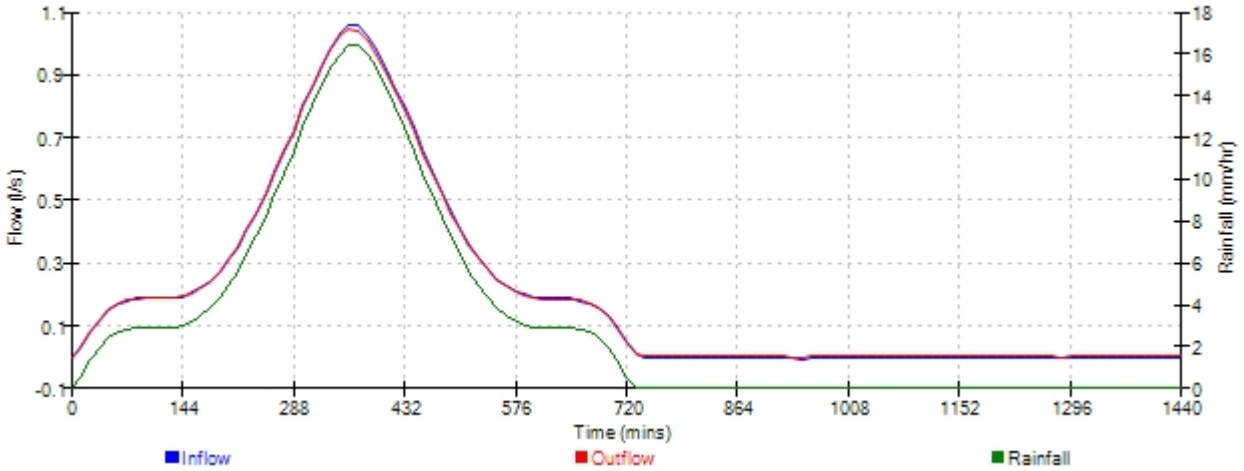


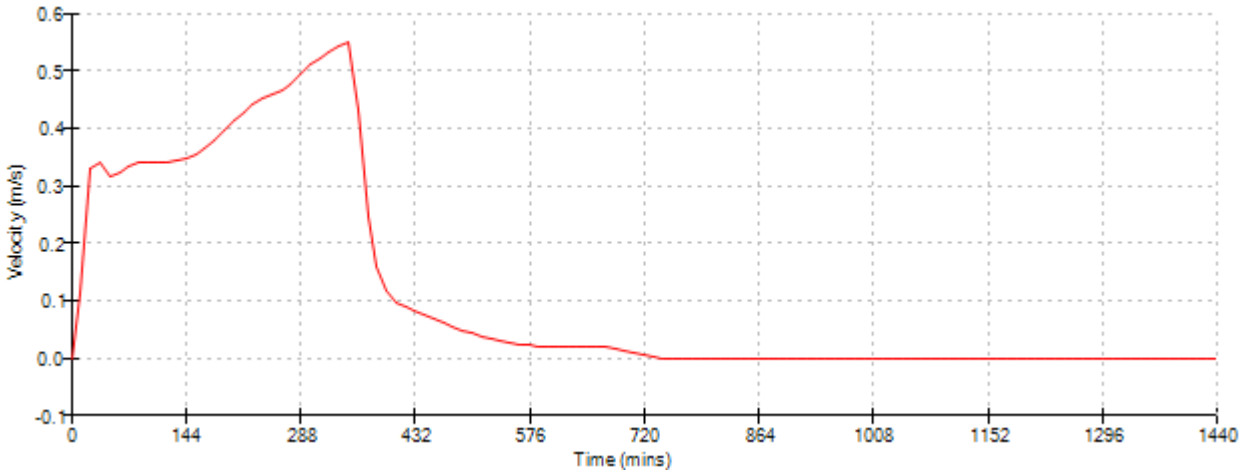


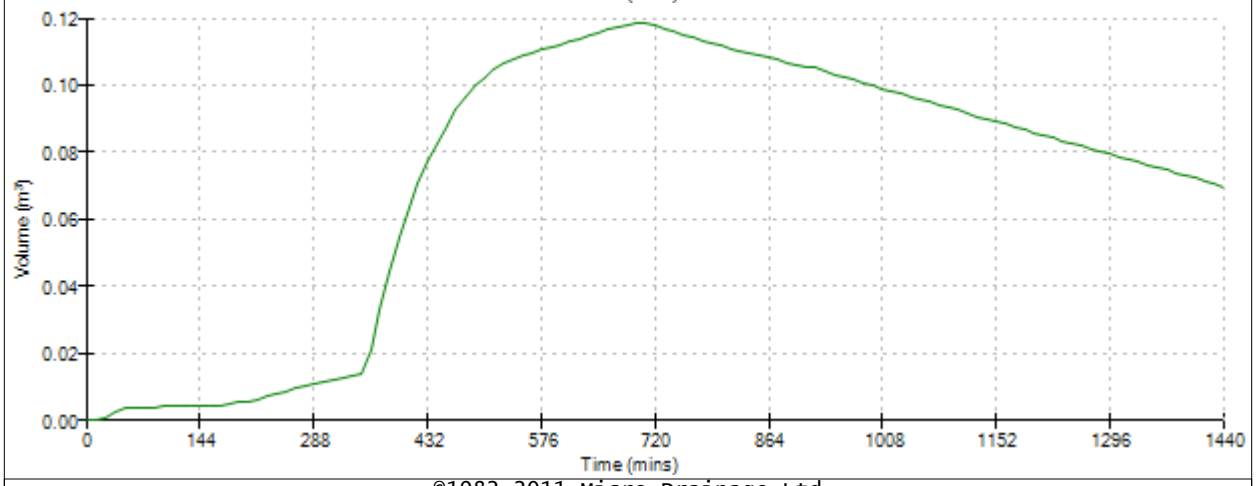


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Graphs for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year Winter
Status: SURCHARGED

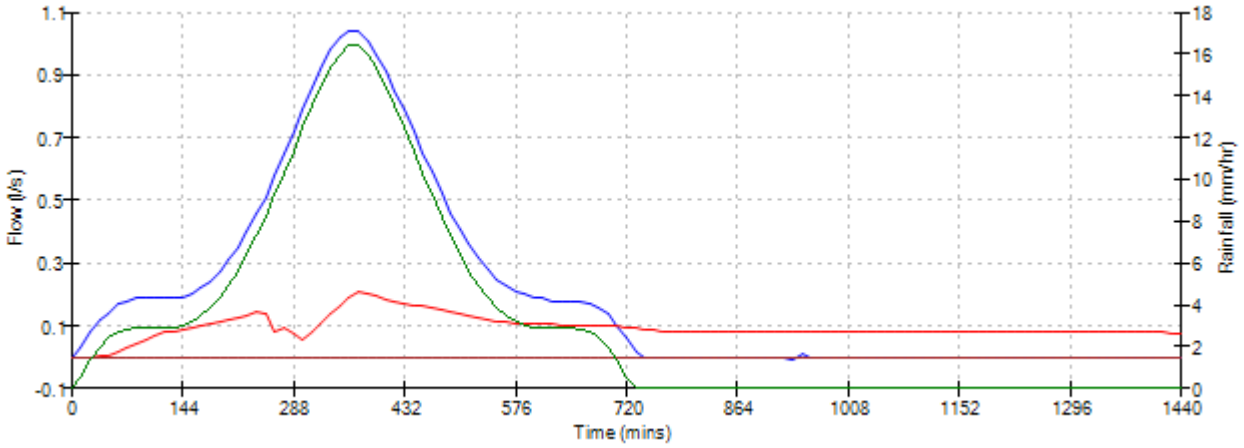


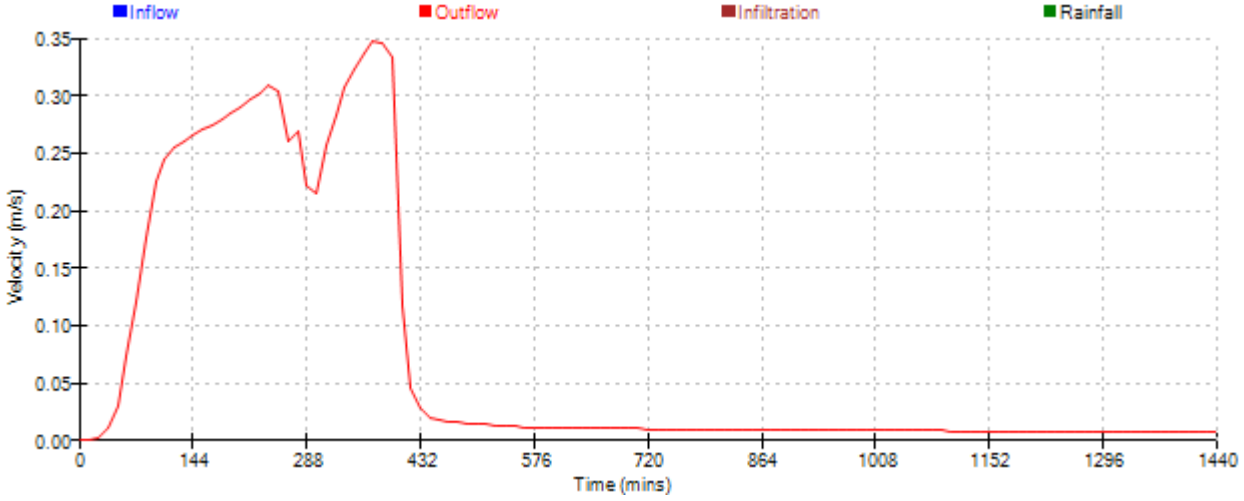


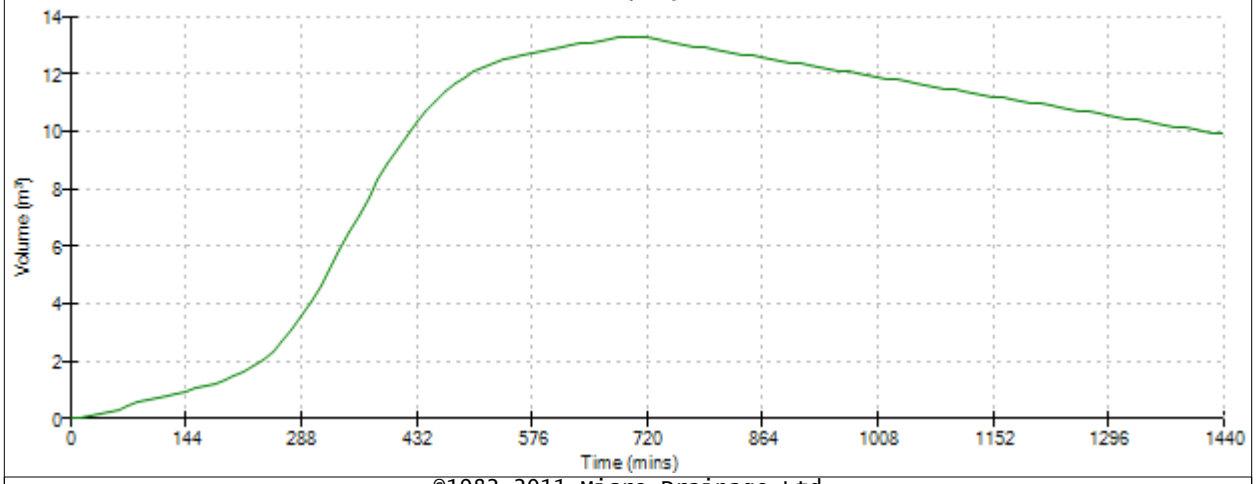


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Graphs for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year Winter
Status: SURCHARGED

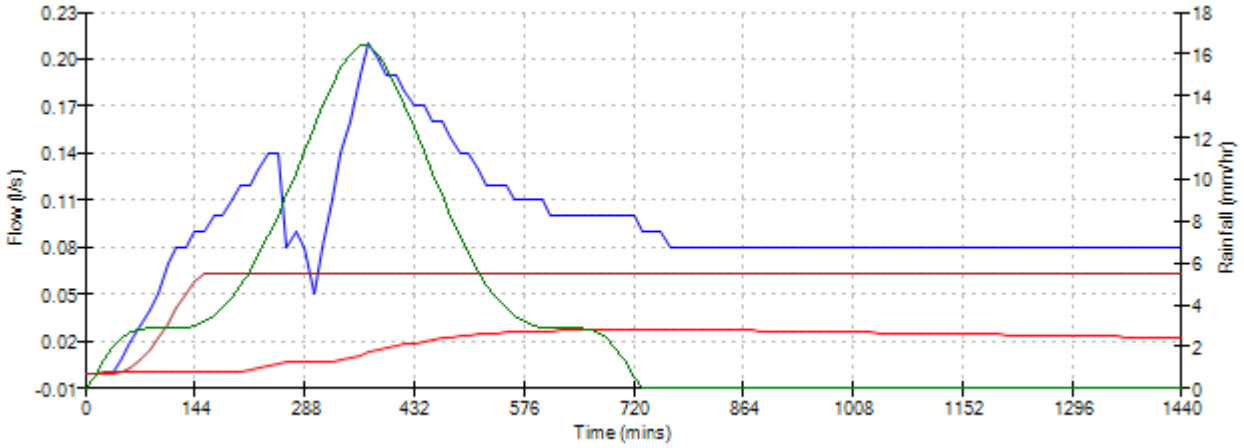


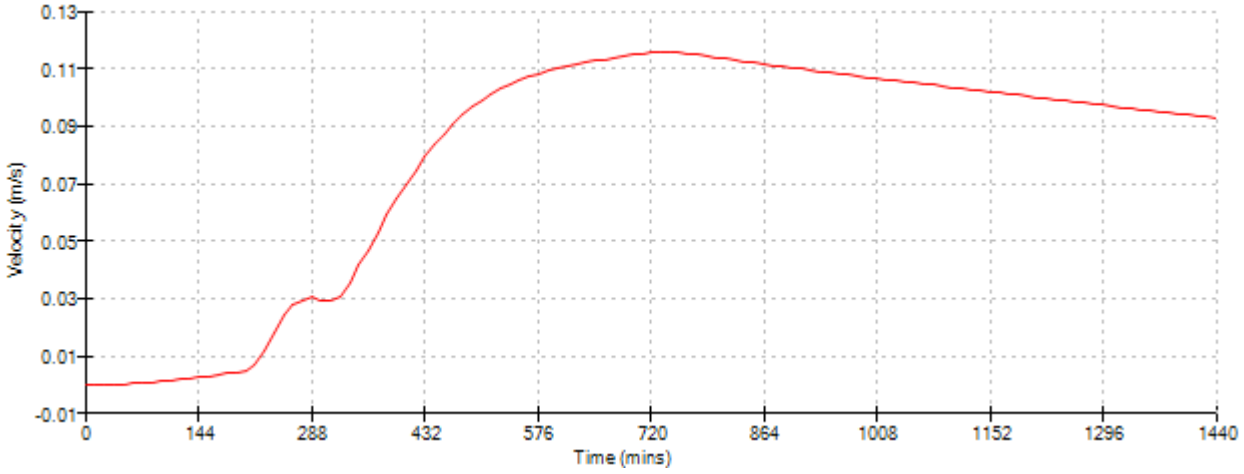


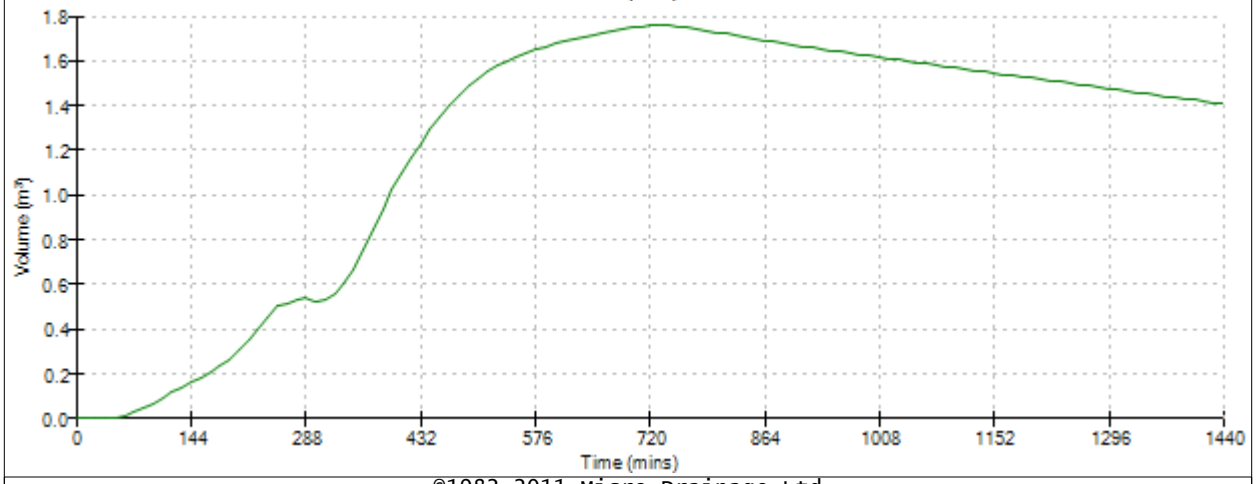


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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Winter
Status: SURCHARGED







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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1920
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	16

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	960
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 960 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.406	-0.104	0.000	0.01	0.0	0.3	OK
1.001	S1	63.694	0.090	0.000	0.09	0.0	0.6	SURCHARGED
2.000	RE2	65.408	-0.102	0.000	0.02	0.0	0.3	OK
2.001	S2	65.011	-0.099	0.000	0.02	0.0	0.6	OK
1.002	S3	63.694	0.139	0.000	0.18	0.0	1.3	SURCHARGED
1.003	S4	63.693	0.333	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.631	0.421	0.000	0.01	0.0	0.0	SURCHARGED

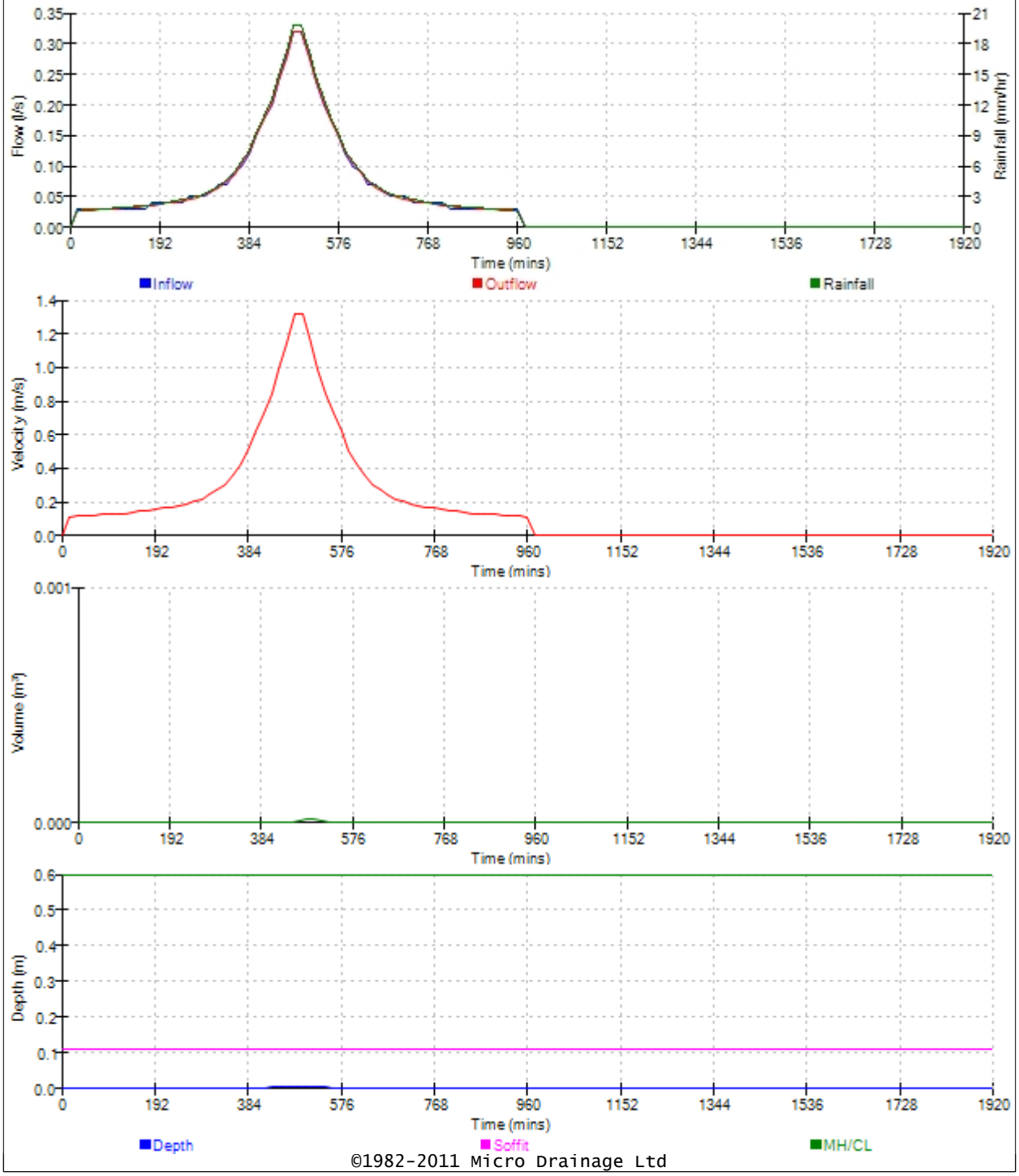
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Rainfall Hyetograph for 960 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
16	1.695	208	2.449	400	9.272	592	7.619	784	2.334
32	1.737	224	2.575	416	10.884	608	6.436	800	2.250
48	1.779	240	2.700	432	12.621	624	5.411	816	2.166
64	1.831	256	2.868	448	14.882	640	4.615	832	2.072
80	1.873	272	3.045	464	17.184	656	4.082	848	1.999
96	1.915	288	3.286	480	19.801	672	3.642	864	1.957
112	1.957	304	3.642	496	19.801	688	3.286	880	1.915
128	1.999	320	4.082	512	17.184	704	3.046	896	1.873
144	2.072	336	4.615	528	14.882	720	2.868	912	1.831
160	2.166	352	5.411	544	12.621	736	2.700	928	1.779
176	2.250	368	6.436	560	10.884	752	2.575	944	1.737
192	2.334	384	7.619	576	9.273	768	2.449	960	1.695

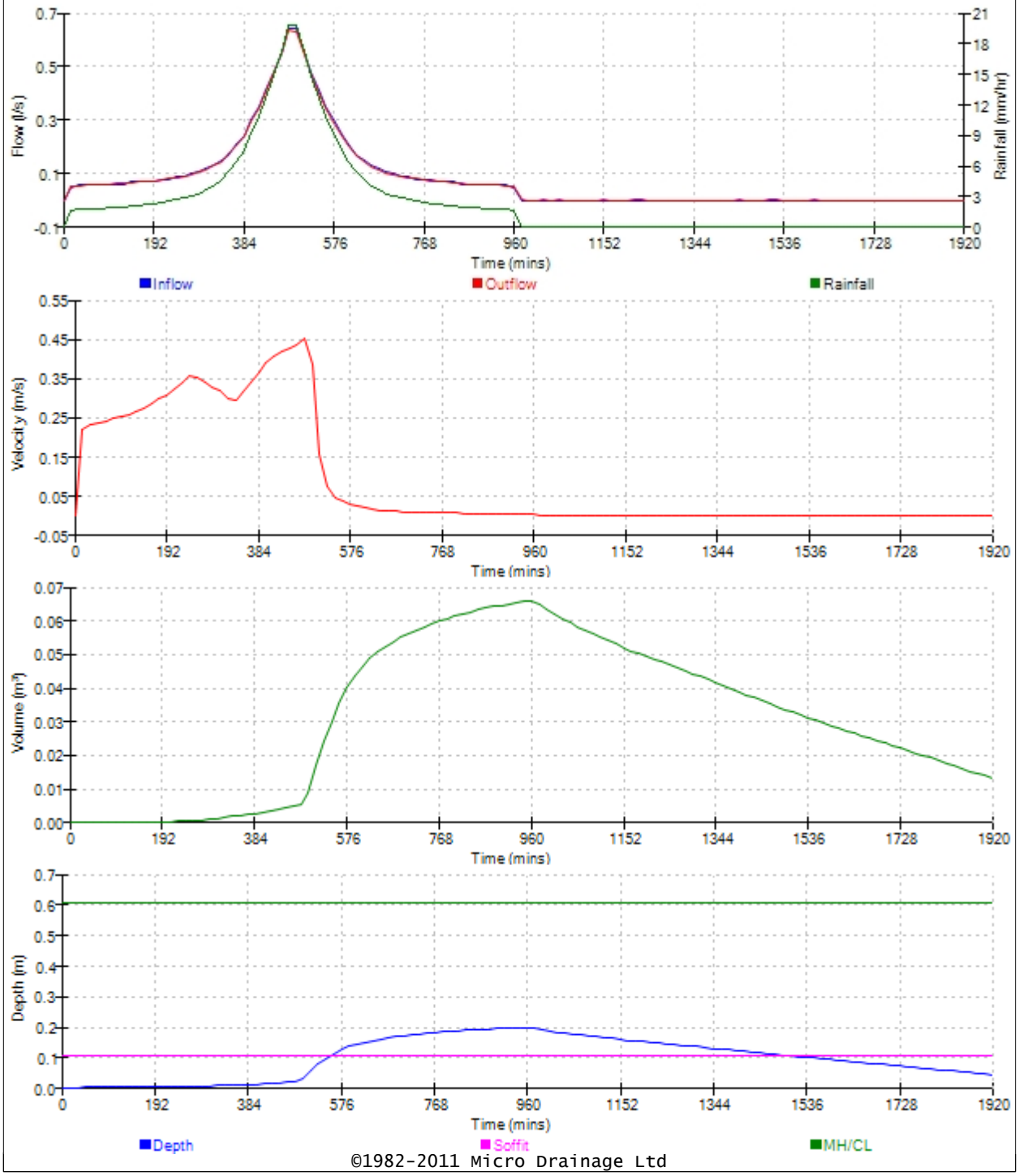
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
Status: OK



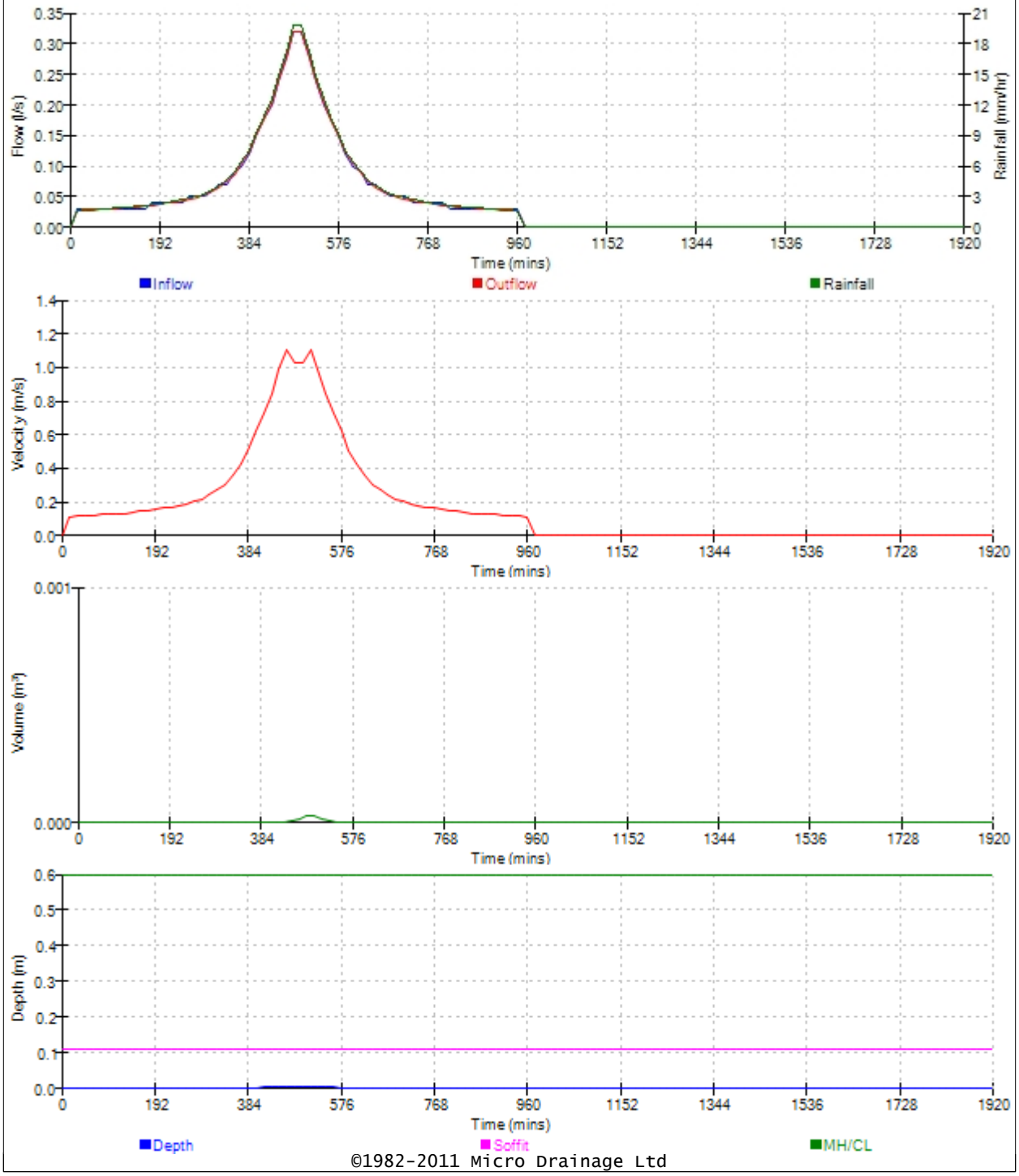
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Graphs for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Summer
Status: SURCHARGED



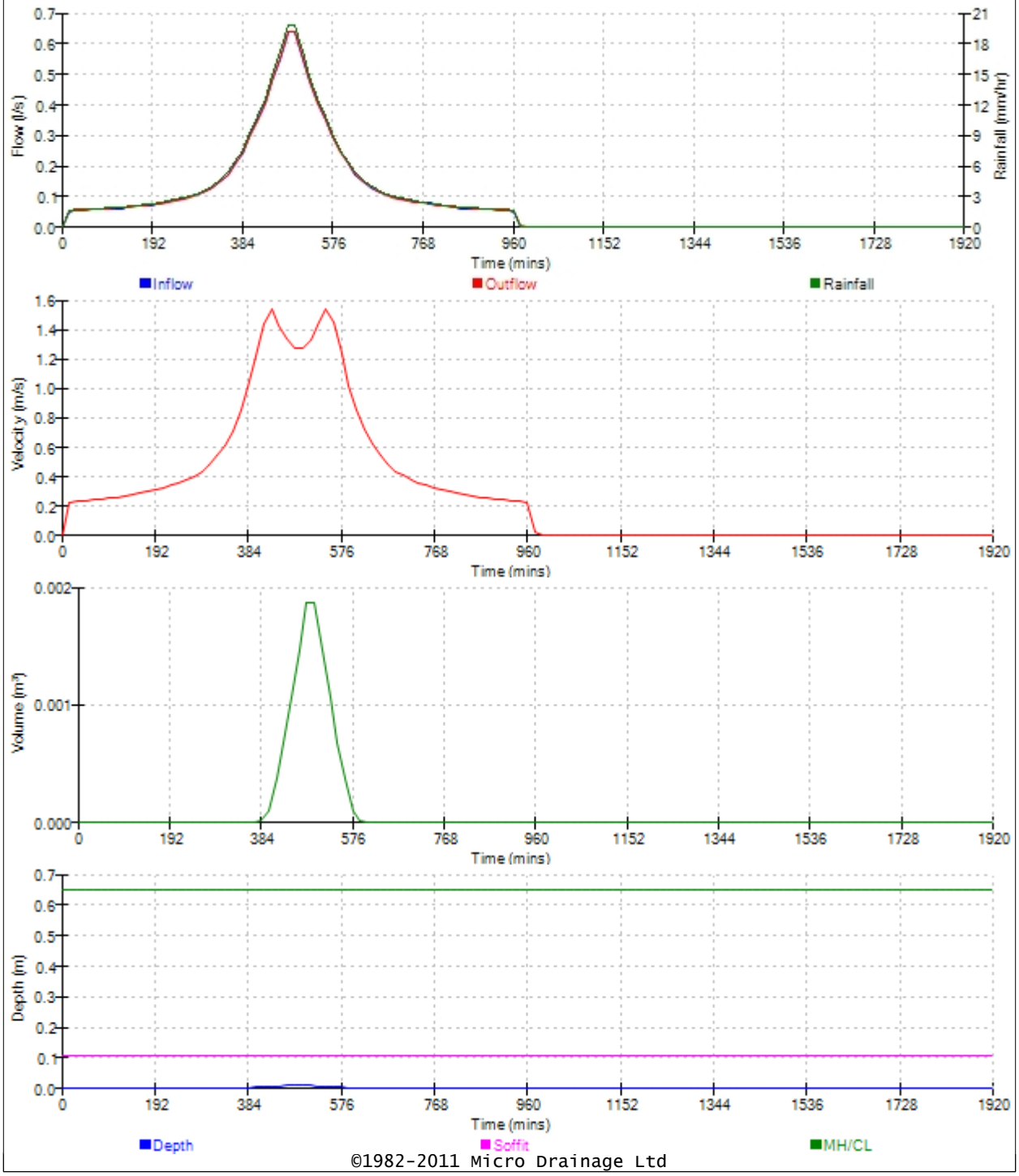
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Summer
Status: OK



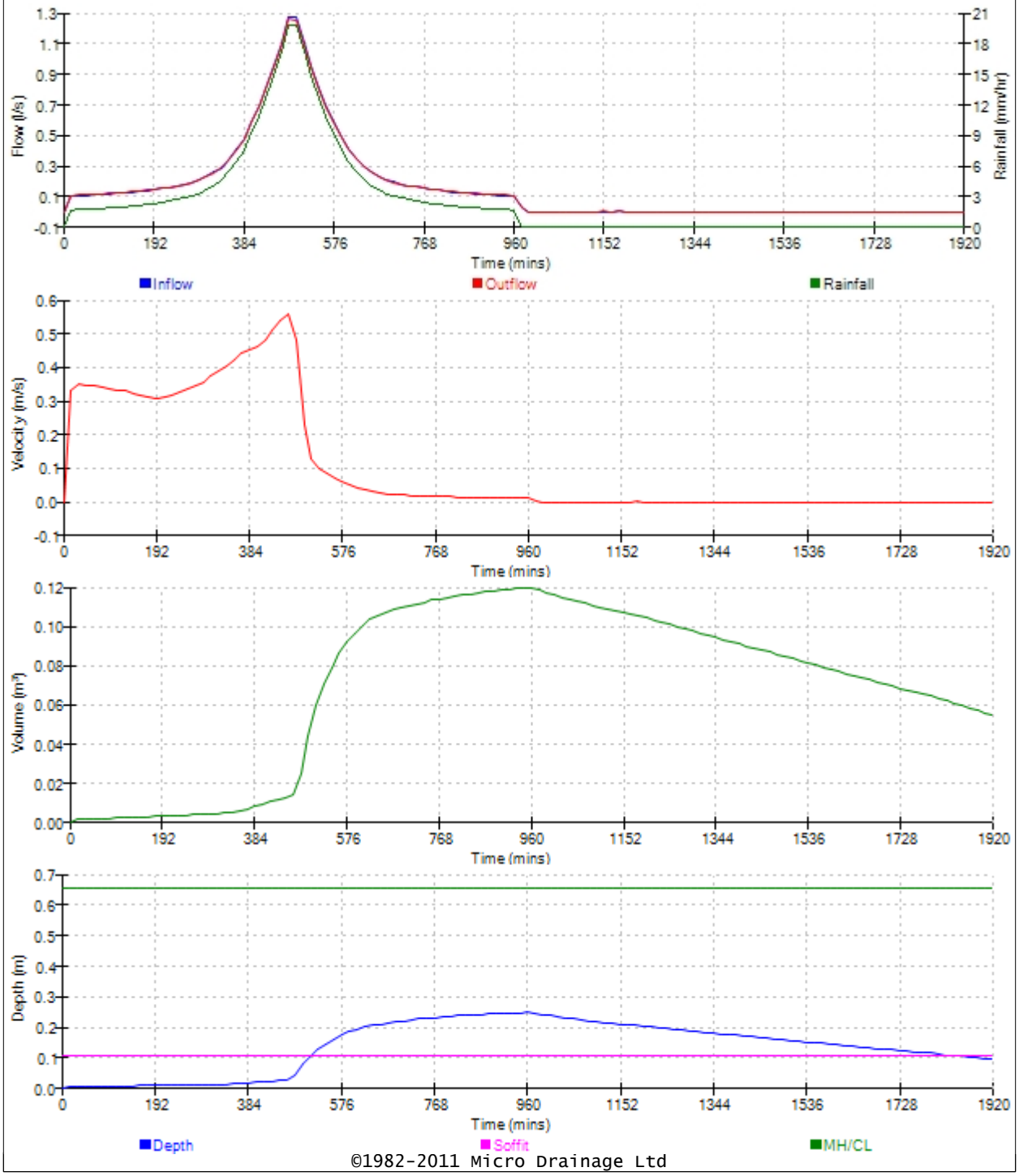
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Graphs for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Summer
Status: OK



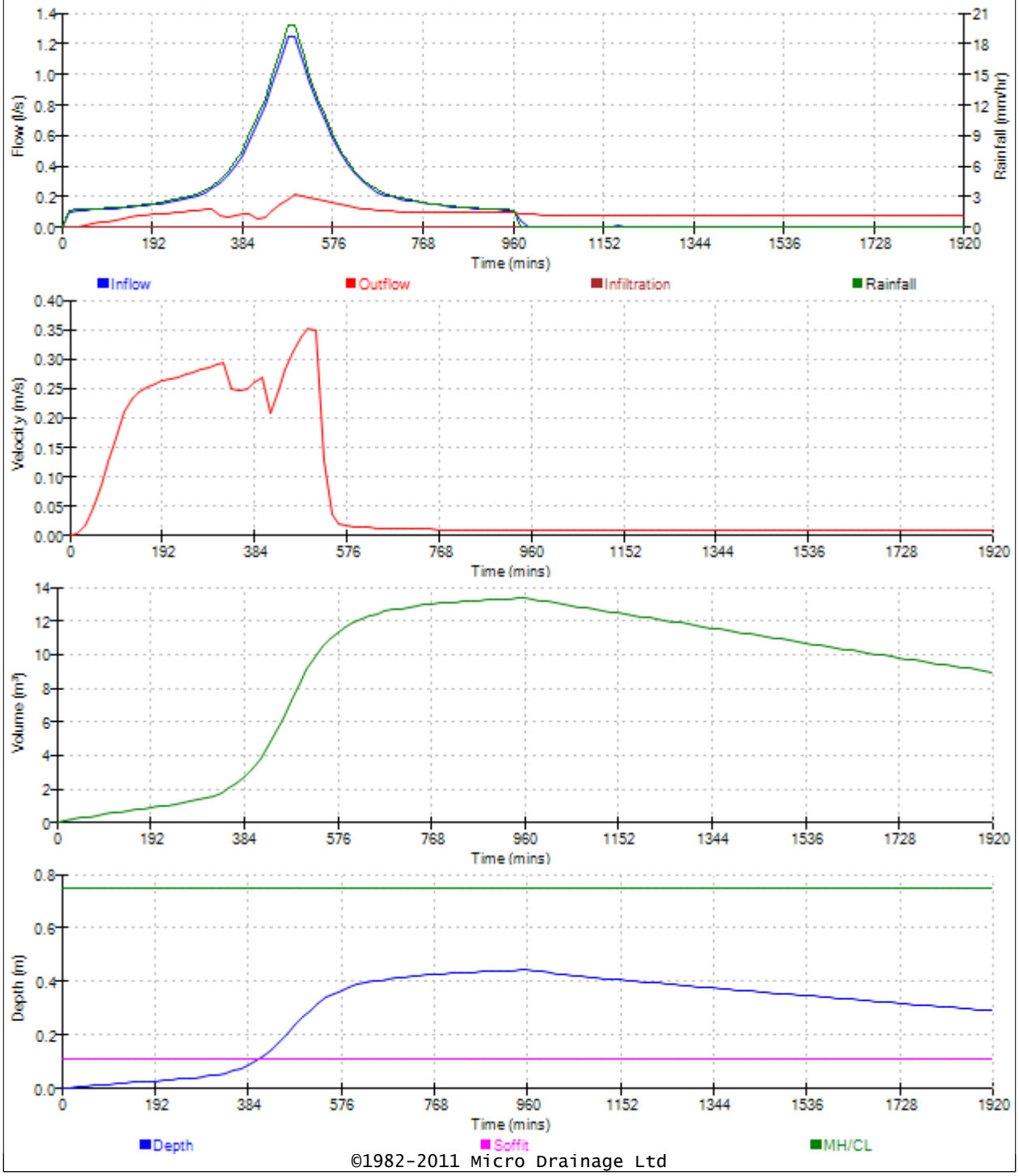
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Graphs for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Summer
Status: SURCHARGED



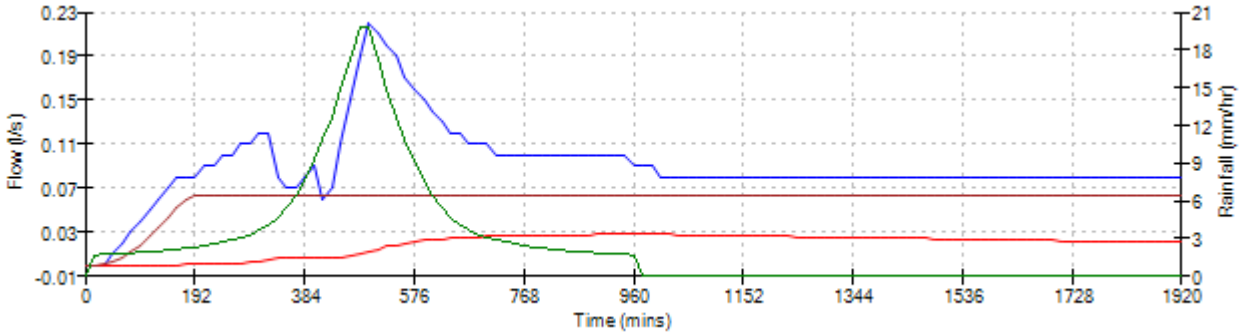
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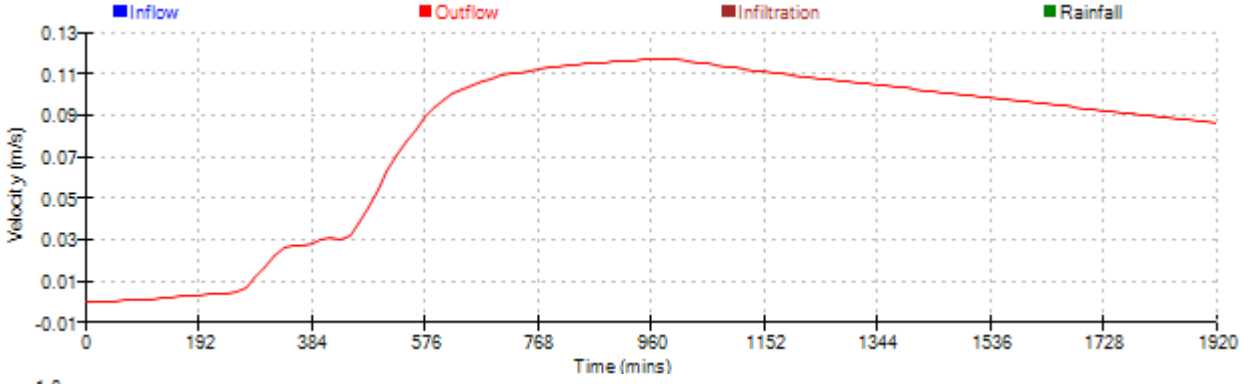
Graphs for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Summer
Status: SURCHARGED

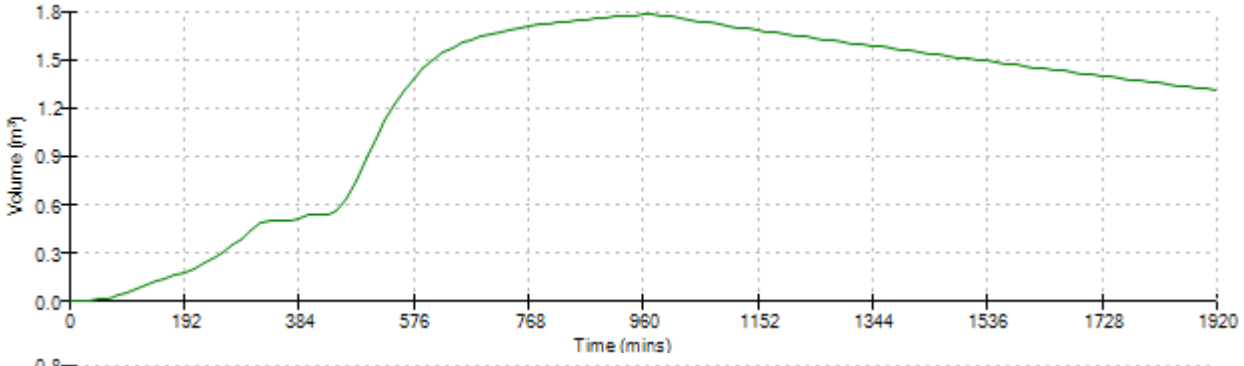


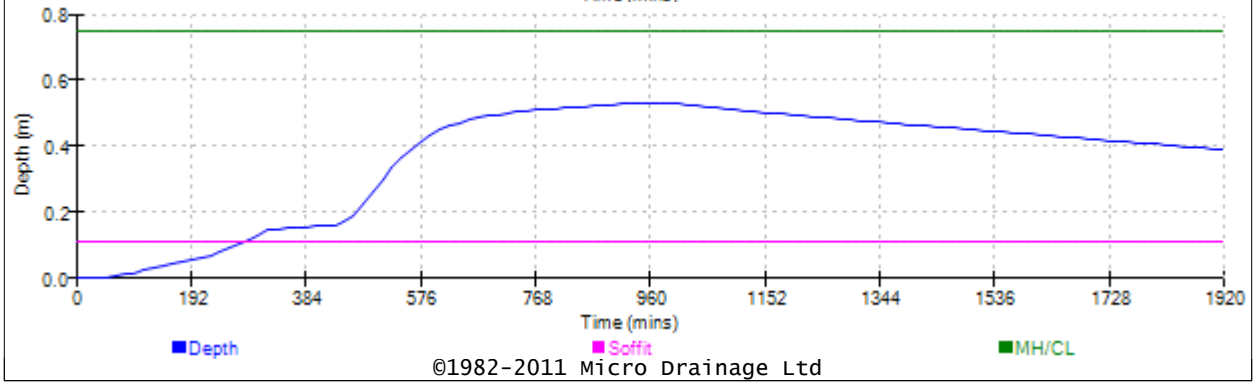
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.401	63.498	-0.109	0.0	0.1	0.0
32	65.401	63.498	-0.109	0.0	0.1	0.0
48	65.401	63.499	-0.109	0.0	0.1	0.0
64	65.401	63.499	-0.109	0.0	0.1	0.0
80	65.401	63.499	-0.109	0.0	0.1	0.0
96	65.401	63.499	-0.109	0.0	0.1	0.0
112	65.401	63.499	-0.109	0.0	0.1	0.0
128	65.401	63.499	-0.109	0.0	0.1	0.0
144	65.401	63.499	-0.109	0.0	0.1	0.0
160	65.401	63.500	-0.109	0.0	0.1	0.0
176	65.401	63.500	-0.109	0.0	0.1	0.0
192	65.401	63.500	-0.109	0.0	0.2	0.0
208	65.401	63.500	-0.109	0.0	0.2	0.0
224	65.401	63.501	-0.109	0.0	0.2	0.0
240	65.401	63.501	-0.109	0.0	0.2	0.0
256	65.401	63.501	-0.109	0.0	0.2	0.0
272	65.401	63.502	-0.109	0.0	0.2	0.0
288	65.401	63.502	-0.109	0.0	0.2	0.1
304	65.401	63.503	-0.109	0.0	0.2	0.1
320	65.401	63.504	-0.109	0.0	0.3	0.1
336	65.402	63.505	-0.108	0.0	0.3	0.1
352	65.402	63.506	-0.108	0.0	0.4	0.1
368	65.402	63.507	-0.108	0.0	0.4	0.1
384	65.402	63.508	-0.108	0.0	0.5	0.1
400	65.403	63.509	-0.107	0.0	0.6	0.1
416	65.404	63.510	-0.106	0.0	0.7	0.2
432	65.404	63.512	-0.106	0.0	0.8	0.2
448	65.405	63.513	-0.105	0.0	1.0	0.2
464	65.406	63.515	-0.104	0.0	1.1	0.3
480	65.406	63.517	-0.104	0.0	1.3	0.3
496	65.406	63.527	-0.104	0.0	1.3	0.3
512	65.406	63.552	-0.104	0.0	1.1	0.3
528	65.405	63.575	-0.105	0.0	1.0	0.2
544	65.404	63.593	-0.106	0.0	0.8	0.2
560	65.404	63.609	-0.106	0.0	0.7	0.2
576	65.403	63.622	-0.107	0.0	0.6	0.1
592	65.402	63.632	-0.108	0.0	0.5	0.1
608	65.402	63.640	-0.108	0.0	0.4	0.1
624	65.402	63.647	-0.108	0.0	0.4	0.1
640	65.402	63.652	-0.108	0.0	0.3	0.1
656	65.401	63.656	-0.109	0.0	0.3	0.1
672	65.401	63.660	-0.109	0.0	0.2	0.1
688	65.401	63.663	-0.109	0.0	0.2	0.1
704	65.401	63.666	-0.109	0.0	0.2	0.0
720	65.401	63.669	-0.109	0.0	0.2	0.0
736	65.401	63.672	-0.109	0.0	0.2	0.0
752	65.401	63.675	-0.109	0.0	0.2	0.0
768	65.401	63.677	-0.109	0.0	0.2	0.0
784	65.401	63.679	-0.109	0.0	0.2	0.0
800	65.401	63.681	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.401	63.683	-0.109	0.0	0.1	0.0
832	65.401	63.684	-0.109	0.0	0.1	0.0
848	65.401	63.686	-0.109	0.0	0.1	0.0
864	65.401	63.687	-0.109	0.0	0.1	0.0
880	65.401	63.689	-0.109	0.0	0.1	0.0
896	65.401	63.690	-0.109	0.0	0.1	0.0
912	65.401	63.691	-0.109	0.0	0.1	0.0
928	65.401	63.692	-0.109	0.0	0.1	0.0
944	65.401	63.693	-0.109	0.0	0.1	0.0
960	65.401	63.694	-0.109	0.0	0.1	0.0
976	65.400	63.690	-0.110	0.0	0.0	0.0
992	65.400	63.686	-0.110	0.0	0.0	0.0
1008	65.400	63.682	-0.110	0.0	0.0	0.0
1024	65.400	63.679	-0.110	0.0	0.0	0.0
1040	65.400	63.675	-0.110	0.0	0.0	0.0
1056	65.400	63.672	-0.110	0.0	0.0	0.0
1072	65.400	63.670	-0.110	0.0	0.0	0.0
1088	65.400	63.666	-0.110	0.0	0.0	0.0
1104	65.400	63.663	-0.110	0.0	0.0	0.0
1120	65.400	63.660	-0.110	0.0	0.0	0.0
1136	65.400	63.658	-0.110	0.0	0.0	0.0
1152	65.400	63.655	-0.110	0.0	0.0	0.0
1168	65.400	63.652	-0.110	0.0	0.0	0.0
1184	65.400	63.651	-0.110	0.0	0.0	0.0
1200	65.400	63.648	-0.110	0.0	0.0	0.0
1216	65.400	63.646	-0.110	0.0	0.0	0.0
1232	65.400	63.643	-0.110	0.0	0.0	0.0
1248	65.400	63.641	-0.110	0.0	0.0	0.0
1264	65.400	63.638	-0.110	0.0	0.0	0.0
1280	65.400	63.636	-0.110	0.0	0.0	0.0
1296	65.400	63.633	-0.110	0.0	0.0	0.0
1312	65.400	63.632	-0.110	0.0	0.0	0.0
1328	65.400	63.628	-0.110	0.0	0.0	0.0
1344	65.400	63.626	-0.110	0.0	0.0	0.0
1360	65.400	63.624	-0.110	0.0	0.0	0.0
1376	65.400	63.621	-0.110	0.0	0.0	0.0
1392	65.400	63.619	-0.110	0.0	0.0	0.0
1408	65.400	63.616	-0.110	0.0	0.0	0.0
1424	65.400	63.614	-0.110	0.0	0.0	0.0
1440	65.400	63.611	-0.110	0.0	0.0	0.0
1456	65.400	63.609	-0.110	0.0	0.0	0.0
1472	65.400	63.607	-0.110	0.0	0.0	0.0
1488	65.400	63.604	-0.110	0.0	0.0	0.0
1504	65.400	63.602	-0.110	0.0	0.0	0.0
1520	65.400	63.599	-0.110	0.0	0.0	0.0
1536	65.400	63.597	-0.110	0.0	0.0	0.0
1552	65.400	63.595	-0.110	0.0	0.0	0.0
1568	65.400	63.592	-0.110	0.0	0.0	0.0
1584	65.400	63.590	-0.110	0.0	0.0	0.0
1600	65.400	63.587	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.400	63.585	-0.110	0.0	0.0	0.0
1632	65.400	63.583	-0.110	0.0	0.0	0.0
1648	65.400	63.580	-0.110	0.0	0.0	0.0
1664	65.400	63.578	-0.110	0.0	0.0	0.0
1680	65.400	63.576	-0.110	0.0	0.0	0.0
1696	65.400	63.574	-0.110	0.0	0.0	0.0
1712	65.400	63.570	-0.110	0.0	0.0	0.0
1728	65.400	63.569	-0.110	0.0	0.0	0.0
1744	65.400	63.566	-0.110	0.0	0.0	0.0
1760	65.400	63.564	-0.110	0.0	0.0	0.0
1776	65.400	63.562	-0.110	0.0	0.0	0.0
1792	65.400	63.560	-0.110	0.0	0.0	0.0
1808	65.400	63.557	-0.110	0.0	0.0	0.0
1824	65.400	63.554	-0.110	0.0	0.0	0.0
1840	65.400	63.552	-0.110	0.0	0.0	0.0
1856	65.400	63.549	-0.110	0.0	0.0	0.0
1872	65.400	63.547	-0.110	0.0	0.0	0.0
1888	65.400	63.545	-0.110	0.0	0.0	0.0
1904	65.400	63.543	-0.110	0.0	0.0	0.0
1920	65.400	63.541	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.498	63.452	-0.106	0.0	0.2	0.1
32	63.498	63.452	-0.106	0.0	0.2	0.1
48	63.499	63.452	-0.106	0.0	0.2	0.1
64	63.499	63.453	-0.105	0.0	0.2	0.1
80	63.499	63.453	-0.105	0.0	0.2	0.1
96	63.499	63.453	-0.105	0.0	0.3	0.1
112	63.499	63.453	-0.105	0.0	0.3	0.1
128	63.499	63.453	-0.105	0.0	0.3	0.1
144	63.499	63.454	-0.105	0.0	0.3	0.1
160	63.500	63.454	-0.105	0.0	0.3	0.1
176	63.500	63.455	-0.104	0.0	0.3	0.1
192	63.500	63.455	-0.104	0.0	0.3	0.1
208	63.500	63.455	-0.104	0.0	0.3	0.1
224	63.501	63.455	-0.104	0.0	0.3	0.1
240	63.501	63.456	-0.103	0.0	0.4	0.1
256	63.501	63.456	-0.103	0.0	0.4	0.1
272	63.502	63.456	-0.102	0.0	0.3	0.1
288	63.502	63.457	-0.102	0.0	0.3	0.1
304	63.503	63.457	-0.101	0.0	0.3	0.1
320	63.504	63.458	-0.100	0.0	0.3	0.1
336	63.505	63.458	-0.099	0.0	0.3	0.1
352	63.506	63.460	-0.098	0.0	0.3	0.2
368	63.507	63.461	-0.097	0.0	0.3	0.2
384	63.508	63.463	-0.096	0.0	0.4	0.2
400	63.509	63.465	-0.095	0.0	0.4	0.3
416	63.510	63.467	-0.094	0.0	0.4	0.3
432	63.512	63.469	-0.093	0.0	0.4	0.4
448	63.513	63.471	-0.091	0.0	0.4	0.5
464	63.515	63.473	-0.089	0.0	0.4	0.6
480	63.517	63.491	-0.087	0.0	0.5	0.6
496	63.527	63.523	-0.077	0.0	0.4	0.6
512	63.552	63.550	-0.052	0.0	0.2	0.5
528	63.575	63.573	-0.029	0.0	0.1	0.5
544	63.593	63.592	-0.011	0.0	0.0	0.4
560	63.609	63.608	0.005	0.0	0.0	0.3
576	63.622	63.621	0.018	0.0	0.0	0.3
592	63.632	63.631	0.028	0.0	0.0	0.2
608	63.640	63.639	0.036	0.0	0.0	0.2
624	63.647	63.646	0.043	0.0	0.0	0.2
640	63.652	63.651	0.047	0.0	0.0	0.1
656	63.656	63.656	0.052	0.0	0.0	0.1
672	63.660	63.660	0.056	0.0	0.0	0.1
688	63.663	63.663	0.059	0.0	0.0	0.1
704	63.666	63.666	0.062	0.0	0.0	0.1
720	63.669	63.669	0.065	0.0	0.0	0.1
736	63.672	63.672	0.068	0.0	0.0	0.1
752	63.675	63.674	0.071	0.0	0.0	0.1
768	63.677	63.677	0.073	0.0	0.0	0.1
784	63.679	63.679	0.075	0.0	0.0	0.1
800	63.681	63.681	0.077	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.683	63.682	0.079	0.0	0.0	0.1
832	63.684	63.684	0.080	0.0	0.0	0.1
848	63.686	63.686	0.082	0.0	0.0	0.1
864	63.687	63.687	0.083	0.0	0.0	0.1
880	63.689	63.688	0.085	0.0	0.0	0.1
896	63.690	63.690	0.086	0.0	0.0	0.1
912	63.691	63.691	0.087	0.0	0.0	0.1
928	63.692	63.692	0.088	0.0	0.0	0.1
944	63.693	63.693	0.089	0.0	0.0	0.1
960	63.694	63.694	0.090	0.0	0.0	0.1
976	63.690	63.691	0.086	0.0	0.0	0.0
992	63.686	63.686	0.082	0.0	0.0	0.0
1008	63.682	63.682	0.078	0.0	0.0	0.0
1024	63.679	63.679	0.074	0.0	0.0	0.0
1040	63.675	63.675	0.071	0.0	0.0	0.0
1056	63.672	63.672	0.068	0.0	0.0	0.0
1072	63.670	63.670	0.065	0.0	0.0	0.0
1088	63.666	63.666	0.062	0.0	0.0	0.0
1104	63.663	63.663	0.059	0.0	0.0	0.0
1120	63.660	63.661	0.056	0.0	0.0	0.0
1136	63.658	63.658	0.054	0.0	0.0	0.0
1152	63.655	63.655	0.051	0.0	0.0	0.0
1168	63.652	63.653	0.048	0.0	0.0	0.0
1184	63.651	63.651	0.046	0.0	0.0	0.0
1200	63.648	63.649	0.044	0.0	0.0	0.0
1216	63.646	63.646	0.041	0.0	0.0	0.0
1232	63.643	63.643	0.039	0.0	0.0	0.0
1248	63.641	63.641	0.037	0.0	0.0	0.0
1264	63.638	63.638	0.034	0.0	0.0	0.0
1280	63.636	63.636	0.032	0.0	0.0	0.0
1296	63.633	63.633	0.029	0.0	0.0	0.0
1312	63.632	63.631	0.028	0.0	0.0	0.0
1328	63.628	63.629	0.024	0.0	0.0	0.0
1344	63.626	63.626	0.022	0.0	0.0	0.0
1360	63.624	63.624	0.019	0.0	0.0	0.0
1376	63.621	63.621	0.017	0.0	0.0	0.0
1392	63.619	63.619	0.015	0.0	0.0	0.0
1408	63.616	63.616	0.012	0.0	0.0	0.0
1424	63.614	63.614	0.010	0.0	0.0	0.0
1440	63.611	63.612	0.007	0.0	0.0	0.0
1456	63.609	63.609	0.005	0.0	0.0	0.0
1472	63.607	63.607	0.003	0.0	0.0	0.0
1488	63.604	63.604	0.000	0.0	0.0	0.0
1504	63.602	63.602	-0.002	0.0	0.0	0.0
1520	63.599	63.600	-0.005	0.0	0.0	0.0
1536	63.597	63.597	-0.008	0.0	0.0	0.0
1552	63.595	63.595	-0.010	0.0	0.0	0.0
1568	63.592	63.592	-0.012	0.0	0.0	0.0
1584	63.590	63.590	-0.014	0.0	0.0	0.0
1600	63.587	63.588	-0.017	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.585	63.585	-0.019	0.0	0.0	0.0
1632	63.583	63.583	-0.021	0.0	0.0	0.0
1648	63.580	63.581	-0.024	0.0	0.0	0.0
1664	63.578	63.578	-0.026	0.0	0.0	0.0
1680	63.576	63.576	-0.029	0.0	0.0	0.0
1696	63.574	63.573	-0.031	0.0	0.0	0.0
1712	63.570	63.571	-0.034	0.0	0.0	0.0
1728	63.569	63.569	-0.035	0.0	0.0	0.0
1744	63.566	63.566	-0.038	0.0	0.0	0.0
1760	63.564	63.564	-0.040	0.0	0.0	0.0
1776	63.562	63.562	-0.042	0.0	0.0	0.0
1792	63.560	63.560	-0.044	0.0	0.0	0.0
1808	63.557	63.557	-0.047	0.0	0.0	0.0
1824	63.554	63.555	-0.050	0.0	0.0	0.0
1840	63.552	63.552	-0.052	0.0	0.0	0.0
1856	63.549	63.550	-0.055	0.0	0.0	0.0
1872	63.547	63.547	-0.057	0.0	0.0	0.0
1888	63.545	63.546	-0.059	0.0	0.0	0.0
1904	63.543	63.543	-0.061	0.0	0.0	0.0
1920	63.541	63.541	-0.063	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.401	65.001	-0.109	0.0	0.1	0.0
32	65.401	65.001	-0.109	0.0	0.1	0.0
48	65.401	65.001	-0.109	0.0	0.1	0.0
64	65.401	65.001	-0.109	0.0	0.1	0.0
80	65.401	65.001	-0.109	0.0	0.1	0.0
96	65.401	65.001	-0.109	0.0	0.1	0.0
112	65.401	65.001	-0.109	0.0	0.1	0.0
128	65.401	65.001	-0.109	0.0	0.1	0.0
144	65.401	65.001	-0.109	0.0	0.1	0.0
160	65.401	65.001	-0.109	0.0	0.1	0.0
176	65.401	65.001	-0.109	0.0	0.1	0.0
192	65.401	65.001	-0.109	0.0	0.2	0.0
208	65.401	65.001	-0.109	0.0	0.2	0.0
224	65.401	65.001	-0.109	0.0	0.2	0.0
240	65.401	65.002	-0.109	0.0	0.2	0.0
256	65.401	65.002	-0.109	0.0	0.2	0.0
272	65.401	65.002	-0.109	0.0	0.2	0.0
288	65.401	65.002	-0.109	0.0	0.2	0.1
304	65.401	65.002	-0.109	0.0	0.2	0.1
320	65.402	65.002	-0.108	0.0	0.3	0.1
336	65.402	65.003	-0.108	0.0	0.3	0.1
352	65.402	65.003	-0.108	0.0	0.4	0.1
368	65.403	65.004	-0.107	0.0	0.4	0.1
384	65.403	65.004	-0.107	0.0	0.5	0.1
400	65.404	65.005	-0.106	0.0	0.6	0.1
416	65.404	65.006	-0.106	0.0	0.7	0.2
432	65.405	65.007	-0.105	0.0	0.8	0.2
448	65.406	65.008	-0.104	0.0	1.0	0.2
464	65.407	65.010	-0.103	0.0	1.1	0.3
480	65.408	65.011	-0.102	0.0	1.0	0.3
496	65.408	65.011	-0.102	0.0	1.0	0.3
512	65.407	65.010	-0.103	0.0	1.1	0.3
528	65.406	65.008	-0.104	0.0	1.0	0.2
544	65.405	65.007	-0.105	0.0	0.8	0.2
560	65.404	65.006	-0.106	0.0	0.7	0.2
576	65.404	65.005	-0.106	0.0	0.6	0.1
592	65.403	65.004	-0.107	0.0	0.5	0.1
608	65.403	65.004	-0.107	0.0	0.4	0.1
624	65.402	65.003	-0.108	0.0	0.4	0.1
640	65.402	65.003	-0.108	0.0	0.3	0.1
656	65.402	65.002	-0.108	0.0	0.3	0.1
672	65.401	65.002	-0.109	0.0	0.2	0.1
688	65.401	65.002	-0.109	0.0	0.2	0.1
704	65.401	65.002	-0.109	0.0	0.2	0.0
720	65.401	65.002	-0.109	0.0	0.2	0.0
736	65.401	65.002	-0.109	0.0	0.2	0.0
752	65.401	65.001	-0.109	0.0	0.2	0.0
768	65.401	65.001	-0.109	0.0	0.2	0.0
784	65.401	65.001	-0.109	0.0	0.2	0.0
800	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.401	65.001	-0.109	0.0	0.1	0.0
832	65.401	65.001	-0.109	0.0	0.1	0.0
848	65.401	65.001	-0.109	0.0	0.1	0.0
864	65.401	65.001	-0.109	0.0	0.1	0.0
880	65.401	65.001	-0.109	0.0	0.1	0.0
896	65.401	65.001	-0.109	0.0	0.1	0.0
912	65.401	65.001	-0.109	0.0	0.1	0.0
928	65.401	65.001	-0.109	0.0	0.1	0.0
944	65.401	65.001	-0.109	0.0	0.1	0.0
960	65.401	65.001	-0.109	0.0	0.1	0.0
976	65.400	65.000	-0.110	0.0	0.0	0.0
992	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1024	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1072	65.400	65.000	-0.110	0.0	0.0	0.0
1088	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1136	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1168	65.400	65.000	-0.110	0.0	0.0	0.0
1184	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0
1216	65.400	65.000	-0.110	0.0	0.0	0.0
1232	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1264	65.400	65.000	-0.110	0.0	0.0	0.0
1280	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1312	65.400	65.000	-0.110	0.0	0.0	0.0
1328	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1360	65.400	65.000	-0.110	0.0	0.0	0.0
1376	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1408	65.400	65.000	-0.110	0.0	0.0	0.0
1424	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1456	65.400	65.000	-0.110	0.0	0.0	0.0
1472	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1504	65.400	65.000	-0.110	0.0	0.0	0.0
1520	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1552	65.400	65.000	-0.110	0.0	0.0	0.0
1568	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1648	65.400	65.000	-0.110	0.0	0.0	0.0
1664	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1696	65.400	65.000	-0.110	0.0	0.0	0.0
1712	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1744	65.400	65.000	-0.110	0.0	0.0	0.0
1760	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1792	65.400	65.000	-0.110	0.0	0.0	0.0
1808	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1840	65.400	65.000	-0.110	0.0	0.0	0.0
1856	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1888	65.400	65.000	-0.110	0.0	0.0	0.0
1904	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.001	63.452	-0.109	0.0	0.2	0.1
32	65.001	63.452	-0.109	0.0	0.2	0.1
48	65.001	63.452	-0.109	0.0	0.2	0.1
64	65.001	63.453	-0.109	0.0	0.2	0.1
80	65.001	63.453	-0.109	0.0	0.2	0.1
96	65.001	63.453	-0.109	0.0	0.3	0.1
112	65.001	63.453	-0.109	0.0	0.3	0.1
128	65.001	63.453	-0.109	0.0	0.3	0.1
144	65.001	63.454	-0.109	0.0	0.3	0.1
160	65.001	63.454	-0.109	0.0	0.3	0.1
176	65.001	63.455	-0.109	0.0	0.3	0.1
192	65.001	63.455	-0.109	0.0	0.3	0.1
208	65.001	63.455	-0.109	0.0	0.3	0.1
224	65.001	63.455	-0.109	0.0	0.3	0.1
240	65.002	63.456	-0.108	0.0	0.4	0.1
256	65.002	63.456	-0.108	0.0	0.4	0.1
272	65.002	63.456	-0.108	0.0	0.4	0.1
288	65.002	63.457	-0.108	0.0	0.4	0.1
304	65.002	63.457	-0.108	0.0	0.5	0.1
320	65.002	63.458	-0.108	0.0	0.5	0.1
336	65.003	63.458	-0.107	0.0	0.6	0.1
352	65.003	63.460	-0.107	0.0	0.7	0.2
368	65.004	63.461	-0.106	0.0	0.9	0.2
384	65.004	63.463	-0.106	0.0	1.0	0.2
400	65.005	63.465	-0.105	0.0	1.2	0.3
416	65.006	63.467	-0.104	0.0	1.4	0.3
432	65.007	63.469	-0.103	0.0	1.5	0.4
448	65.008	63.471	-0.102	0.0	1.4	0.5
464	65.010	63.473	-0.100	0.0	1.3	0.6
480	65.011	63.491	-0.099	0.0	1.3	0.6
496	65.011	63.523	-0.099	0.0	1.3	0.6
512	65.010	63.550	-0.100	0.0	1.3	0.6
528	65.008	63.573	-0.102	0.0	1.4	0.5
544	65.007	63.592	-0.103	0.0	1.5	0.4
560	65.006	63.608	-0.104	0.0	1.5	0.4
576	65.005	63.621	-0.105	0.0	1.2	0.3
592	65.004	63.631	-0.106	0.0	1.0	0.2
608	65.004	63.639	-0.106	0.0	0.9	0.2
624	65.003	63.646	-0.107	0.0	0.7	0.2
640	65.003	63.651	-0.107	0.0	0.6	0.1
656	65.002	63.656	-0.108	0.0	0.5	0.1
672	65.002	63.660	-0.108	0.0	0.5	0.1
688	65.002	63.663	-0.108	0.0	0.4	0.1
704	65.002	63.666	-0.108	0.0	0.4	0.1
720	65.002	63.669	-0.108	0.0	0.4	0.1
736	65.002	63.672	-0.108	0.0	0.4	0.1
752	65.001	63.674	-0.109	0.0	0.3	0.1
768	65.001	63.677	-0.109	0.0	0.3	0.1
784	65.001	63.679	-0.109	0.0	0.3	0.1
800	65.001	63.681	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.001	63.682	-0.109	0.0	0.3	0.1
832	65.001	63.684	-0.109	0.0	0.3	0.1
848	65.001	63.686	-0.109	0.0	0.3	0.1
864	65.001	63.687	-0.109	0.0	0.3	0.1
880	65.001	63.688	-0.109	0.0	0.3	0.1
896	65.001	63.690	-0.109	0.0	0.2	0.1
912	65.001	63.691	-0.109	0.0	0.2	0.1
928	65.001	63.692	-0.109	0.0	0.2	0.1
944	65.001	63.693	-0.109	0.0	0.2	0.1
960	65.001	63.694	-0.109	0.0	0.2	0.1
976	65.000	63.691	-0.110	0.0	0.0	0.0
992	65.000	63.686	-0.110	0.0	0.0	0.0
1008	65.000	63.682	-0.110	0.0	0.0	0.0
1024	65.000	63.679	-0.110	0.0	0.0	0.0
1040	65.000	63.675	-0.110	0.0	0.0	0.0
1056	65.000	63.672	-0.110	0.0	0.0	0.0
1072	65.000	63.670	-0.110	0.0	0.0	0.0
1088	65.000	63.666	-0.110	0.0	0.0	0.0
1104	65.000	63.663	-0.110	0.0	0.0	0.0
1120	65.000	63.661	-0.110	0.0	0.0	0.0
1136	65.000	63.658	-0.110	0.0	0.0	0.0
1152	65.000	63.655	-0.110	0.0	0.0	0.0
1168	65.000	63.653	-0.110	0.0	0.0	0.0
1184	65.000	63.651	-0.110	0.0	0.0	0.0
1200	65.000	63.649	-0.110	0.0	0.0	0.0
1216	65.000	63.646	-0.110	0.0	0.0	0.0
1232	65.000	63.643	-0.110	0.0	0.0	0.0
1248	65.000	63.641	-0.110	0.0	0.0	0.0
1264	65.000	63.638	-0.110	0.0	0.0	0.0
1280	65.000	63.636	-0.110	0.0	0.0	0.0
1296	65.000	63.633	-0.110	0.0	0.0	0.0
1312	65.000	63.631	-0.110	0.0	0.0	0.0
1328	65.000	63.629	-0.110	0.0	0.0	0.0
1344	65.000	63.626	-0.110	0.0	0.0	0.0
1360	65.000	63.624	-0.110	0.0	0.0	0.0
1376	65.000	63.621	-0.110	0.0	0.0	0.0
1392	65.000	63.619	-0.110	0.0	0.0	0.0
1408	65.000	63.616	-0.110	0.0	0.0	0.0
1424	65.000	63.614	-0.110	0.0	0.0	0.0
1440	65.000	63.612	-0.110	0.0	0.0	0.0
1456	65.000	63.609	-0.110	0.0	0.0	0.0
1472	65.000	63.607	-0.110	0.0	0.0	0.0
1488	65.000	63.604	-0.110	0.0	0.0	0.0
1504	65.000	63.602	-0.110	0.0	0.0	0.0
1520	65.000	63.600	-0.110	0.0	0.0	0.0
1536	65.000	63.597	-0.110	0.0	0.0	0.0
1552	65.000	63.595	-0.110	0.0	0.0	0.0
1568	65.000	63.592	-0.110	0.0	0.0	0.0
1584	65.000	63.590	-0.110	0.0	0.0	0.0
1600	65.000	63.588	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.000	63.585	-0.110	0.0	0.0	0.0
1632	65.000	63.583	-0.110	0.0	0.0	0.0
1648	65.000	63.581	-0.110	0.0	0.0	0.0
1664	65.000	63.578	-0.110	0.0	0.0	0.0
1680	65.000	63.576	-0.110	0.0	0.0	0.0
1696	65.000	63.573	-0.110	0.0	0.0	0.0
1712	65.000	63.571	-0.110	0.0	0.0	0.0
1728	65.000	63.569	-0.110	0.0	0.0	0.0
1744	65.000	63.566	-0.110	0.0	0.0	0.0
1760	65.000	63.564	-0.110	0.0	0.0	0.0
1776	65.000	63.562	-0.110	0.0	0.0	0.0
1792	65.000	63.560	-0.110	0.0	0.0	0.0
1808	65.000	63.557	-0.110	0.0	0.0	0.0
1824	65.000	63.555	-0.110	0.0	0.0	0.0
1840	65.000	63.552	-0.110	0.0	0.0	0.0
1856	65.000	63.550	-0.110	0.0	0.0	0.0
1872	65.000	63.547	-0.110	0.0	0.0	0.0
1888	65.000	63.546	-0.110	0.0	0.0	0.0
1904	65.000	63.543	-0.110	0.0	0.0	0.0
1920	65.000	63.541	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.452	63.253	-0.102	0.0	0.3	0.1
32	63.452	63.256	-0.102	0.0	0.4	0.1
48	63.452	63.259	-0.102	0.0	0.3	0.1
64	63.453	63.262	-0.101	0.0	0.3	0.1
80	63.453	63.265	-0.101	0.0	0.3	0.1
96	63.453	63.267	-0.101	0.0	0.3	0.1
112	63.453	63.269	-0.101	0.0	0.3	0.1
128	63.453	63.272	-0.101	0.0	0.3	0.1
144	63.454	63.274	-0.100	0.0	0.3	0.1
160	63.454	63.275	-0.100	0.0	0.3	0.1
176	63.455	63.277	-0.099	0.0	0.3	0.1
192	63.455	63.279	-0.099	0.0	0.3	0.1
208	63.455	63.281	-0.099	0.0	0.3	0.2
224	63.455	63.283	-0.099	0.0	0.3	0.2
240	63.456	63.286	-0.098	0.0	0.3	0.2
256	63.456	63.289	-0.098	0.0	0.3	0.2
272	63.456	63.291	-0.098	0.0	0.3	0.2
288	63.457	63.294	-0.098	0.0	0.4	0.2
304	63.457	63.298	-0.097	0.0	0.4	0.2
320	63.458	63.302	-0.096	0.0	0.4	0.3
336	63.458	63.308	-0.096	0.0	0.4	0.3
352	63.460	63.317	-0.094	0.0	0.4	0.3
368	63.461	63.327	-0.093	0.0	0.4	0.4
384	63.463	63.339	-0.091	0.0	0.5	0.5
400	63.465	63.354	-0.089	0.0	0.5	0.6
416	63.467	63.373	-0.087	0.0	0.5	0.7
432	63.469	63.397	-0.085	0.0	0.5	0.8
448	63.471	63.423	-0.083	0.0	0.5	0.9
464	63.473	63.452	-0.081	0.0	0.6	1.1
480	63.491	63.487	-0.063	0.0	0.5	1.3
496	63.523	63.519	-0.031	0.0	0.2	1.3
512	63.550	63.546	-0.004	0.0	0.1	1.1
528	63.573	63.570	0.019	0.0	0.1	0.9
544	63.592	63.589	0.038	0.0	0.1	0.8
560	63.608	63.605	0.054	0.0	0.1	0.7
576	63.621	63.619	0.067	0.0	0.1	0.6
592	63.631	63.630	0.077	0.0	0.1	0.5
608	63.639	63.638	0.085	0.0	0.0	0.4
624	63.646	63.645	0.092	0.0	0.0	0.3
640	63.651	63.650	0.097	0.0	0.0	0.3
656	63.656	63.655	0.101	0.0	0.0	0.3
672	63.660	63.659	0.105	0.0	0.0	0.2
688	63.663	63.662	0.109	0.0	0.0	0.2
704	63.666	63.665	0.112	0.0	0.0	0.2
720	63.669	63.668	0.115	0.0	0.0	0.2
736	63.672	63.671	0.118	0.0	0.0	0.2
752	63.674	63.674	0.120	0.0	0.0	0.2
768	63.677	63.676	0.123	0.0	0.0	0.2
784	63.679	63.678	0.125	0.0	0.0	0.1
800	63.681	63.680	0.126	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.682	63.682	0.128	0.0	0.0	0.1
832	63.684	63.684	0.130	0.0	0.0	0.1
848	63.686	63.685	0.132	0.0	0.0	0.1
864	63.687	63.687	0.133	0.0	0.0	0.1
880	63.688	63.688	0.134	0.0	0.0	0.1
896	63.690	63.689	0.135	0.0	0.0	0.1
912	63.691	63.690	0.137	0.0	0.0	0.1
928	63.692	63.691	0.138	0.0	0.0	0.1
944	63.693	63.692	0.139	0.0	0.0	0.1
960	63.694	63.693	0.139	0.0	0.0	0.1
976	63.691	63.691	0.137	0.0	0.0	0.0
992	63.686	63.686	0.132	0.0	0.0	0.0
1008	63.682	63.682	0.128	0.0	0.0	0.0
1024	63.679	63.679	0.125	0.0	0.0	0.0
1040	63.675	63.675	0.121	0.0	0.0	0.0
1056	63.672	63.672	0.118	0.0	0.0	0.0
1072	63.670	63.669	0.116	0.0	0.0	0.0
1088	63.666	63.666	0.112	0.0	0.0	0.0
1104	63.663	63.663	0.109	0.0	0.0	0.0
1120	63.661	63.661	0.106	0.0	0.0	0.0
1136	63.658	63.658	0.104	0.0	0.0	0.0
1152	63.655	63.656	0.101	0.0	0.0	0.0
1168	63.653	63.653	0.098	0.0	0.0	0.0
1184	63.651	63.651	0.097	0.0	0.0	0.0
1200	63.649	63.648	0.095	0.0	0.0	0.0
1216	63.646	63.646	0.092	0.0	0.0	0.0
1232	63.643	63.643	0.089	0.0	0.0	0.0
1248	63.641	63.641	0.087	0.0	0.0	0.0
1264	63.638	63.639	0.084	0.0	0.0	0.0
1280	63.636	63.636	0.082	0.0	0.0	0.0
1296	63.633	63.634	0.079	0.0	0.0	0.0
1312	63.631	63.631	0.077	0.0	0.0	0.0
1328	63.629	63.629	0.075	0.0	0.0	0.0
1344	63.626	63.626	0.072	0.0	0.0	0.0
1360	63.624	63.624	0.070	0.0	0.0	0.0
1376	63.621	63.622	0.067	0.0	0.0	0.0
1392	63.619	63.619	0.065	0.0	0.0	0.0
1408	63.616	63.617	0.062	0.0	0.0	0.0
1424	63.614	63.614	0.060	0.0	0.0	0.0
1440	63.612	63.612	0.058	0.0	0.0	0.0
1456	63.609	63.609	0.055	0.0	0.0	0.0
1472	63.607	63.607	0.053	0.0	0.0	0.0
1488	63.604	63.605	0.050	0.0	0.0	0.0
1504	63.602	63.602	0.048	0.0	0.0	0.0
1520	63.600	63.600	0.045	0.0	0.0	0.0
1536	63.597	63.597	0.043	0.0	0.0	0.0
1552	63.595	63.595	0.041	0.0	0.0	0.0
1568	63.592	63.593	0.038	0.0	0.0	0.0
1584	63.590	63.590	0.036	0.0	0.0	0.0
1600	63.588	63.588	0.033	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.585	63.585	0.031	0.0	0.0	0.0
1632	63.583	63.583	0.029	0.0	0.0	0.0
1648	63.581	63.581	0.027	0.0	0.0	0.0
1664	63.578	63.578	0.024	0.0	0.0	0.0
1680	63.576	63.576	0.022	0.0	0.0	0.0
1696	63.573	63.574	0.019	0.0	0.0	0.0
1712	63.571	63.571	0.017	0.0	0.0	0.0
1728	63.569	63.569	0.015	0.0	0.0	0.0
1744	63.566	63.567	0.012	0.0	0.0	0.0
1760	63.564	63.564	0.010	0.0	0.0	0.0
1776	63.562	63.562	0.008	0.0	0.0	0.0
1792	63.560	63.560	0.006	0.0	0.0	0.0
1808	63.557	63.557	0.003	0.0	0.0	0.0
1824	63.555	63.555	0.001	0.0	0.0	0.0
1840	63.552	63.553	-0.002	0.0	0.0	0.0
1856	63.550	63.550	-0.004	0.0	0.0	0.0
1872	63.547	63.548	-0.007	0.0	0.0	0.0
1888	63.546	63.546	-0.009	0.0	0.0	0.0
1904	63.543	63.543	-0.011	0.0	0.0	0.0
1920	63.541	63.541	-0.013	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.253	63.100	-0.107	0.0	0.0	0.0
32	63.256	63.101	-0.104	0.0	0.0	0.0
48	63.259	63.103	-0.101	0.0	0.0	0.0
64	63.262	63.107	-0.098	0.0	0.1	0.0
80	63.265	63.111	-0.095	0.0	0.1	0.0
96	63.267	63.117	-0.093	0.0	0.2	0.0
112	63.269	63.124	-0.091	0.0	0.2	0.1
128	63.272	63.130	-0.088	0.0	0.2	0.1
144	63.274	63.137	-0.086	0.0	0.2	0.1
160	63.275	63.144	-0.085	0.0	0.3	0.1
176	63.277	63.150	-0.083	0.0	0.3	0.1
192	63.279	63.155	-0.081	0.0	0.3	0.1
208	63.281	63.162	-0.079	0.0	0.3	0.1
224	63.283	63.170	-0.077	0.0	0.3	0.1
240	63.286	63.180	-0.074	0.0	0.3	0.1
256	63.289	63.192	-0.071	0.0	0.3	0.1
272	63.291	63.204	-0.069	0.0	0.3	0.1
288	63.294	63.217	-0.066	0.0	0.3	0.1
304	63.298	63.231	-0.062	0.0	0.3	0.1
320	63.302	63.247	-0.058	0.0	0.3	0.1
336	63.308	63.251	-0.052	0.0	0.2	0.1
352	63.317	63.251	-0.043	0.0	0.2	0.1
368	63.327	63.252	-0.033	0.0	0.3	0.1
384	63.339	63.256	-0.021	0.0	0.3	0.1
400	63.354	63.262	-0.006	0.0	0.3	0.1
416	63.373	63.261	0.013	0.0	0.2	0.1
432	63.397	63.260	0.037	0.0	0.2	0.1
448	63.423	63.270	0.063	0.0	0.3	0.1
464	63.452	63.291	0.092	0.0	0.3	0.1
480	63.487	63.324	0.127	0.0	0.3	0.2
496	63.519	63.364	0.159	0.0	0.4	0.2
512	63.546	63.401	0.186	0.0	0.3	0.2
528	63.570	63.435	0.210	0.0	0.1	0.2
544	63.589	63.465	0.229	0.0	0.0	0.2
560	63.605	63.491	0.245	0.0	0.0	0.2
576	63.619	63.514	0.259	0.0	0.0	0.2
592	63.630	63.533	0.270	0.0	0.0	0.2
608	63.638	63.548	0.278	0.0	0.0	0.1
624	63.645	63.561	0.285	0.0	0.0	0.1
640	63.650	63.571	0.290	0.0	0.0	0.1
656	63.655	63.579	0.295	0.0	0.0	0.1
672	63.659	63.586	0.299	0.0	0.0	0.1
688	63.662	63.591	0.302	0.0	0.0	0.1
704	63.665	63.596	0.305	0.0	0.0	0.1
720	63.668	63.600	0.308	0.0	0.0	0.1
736	63.671	63.604	0.311	0.0	0.0	0.1
752	63.674	63.607	0.314	0.0	0.0	0.1
768	63.676	63.610	0.316	0.0	0.0	0.1
784	63.678	63.613	0.318	0.0	0.0	0.1
800	63.680	63.615	0.320	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.682	63.617	0.322	0.0	0.0	0.1
832	63.684	63.619	0.324	0.0	0.0	0.1
848	63.685	63.621	0.325	0.0	0.0	0.1
864	63.687	63.623	0.327	0.0	0.0	0.1
880	63.688	63.624	0.328	0.0	0.0	0.1
896	63.689	63.626	0.329	0.0	0.0	0.1
912	63.690	63.627	0.330	0.0	0.0	0.1
928	63.691	63.628	0.331	0.0	0.0	0.1
944	63.692	63.629	0.332	0.0	0.0	0.1
960	63.693	63.630	0.333	0.0	0.0	0.1
976	63.691	63.631	0.331	0.0	0.0	0.1
992	63.686	63.630	0.326	0.0	0.0	0.1
1008	63.682	63.628	0.322	0.0	0.0	0.1
1024	63.679	63.625	0.319	0.0	0.0	0.1
1040	63.675	63.622	0.315	0.0	0.0	0.1
1056	63.672	63.619	0.312	0.0	0.0	0.1
1072	63.669	63.616	0.309	0.0	0.0	0.1
1088	63.666	63.613	0.306	0.0	0.0	0.1
1104	63.663	63.610	0.303	0.0	0.0	0.1
1120	63.661	63.607	0.301	0.0	0.0	0.1
1136	63.658	63.605	0.298	0.0	0.0	0.1
1152	63.656	63.602	0.296	0.0	0.0	0.1
1168	63.653	63.599	0.293	0.0	0.0	0.1
1184	63.651	63.597	0.291	0.0	0.0	0.1
1200	63.648	63.595	0.288	0.0	0.0	0.1
1216	63.646	63.592	0.286	0.0	0.0	0.1
1232	63.643	63.590	0.283	0.0	0.0	0.1
1248	63.641	63.587	0.281	0.0	0.0	0.1
1264	63.639	63.585	0.279	0.0	0.0	0.1
1280	63.636	63.583	0.276	0.0	0.0	0.1
1296	63.634	63.580	0.274	0.0	0.0	0.1
1312	63.631	63.578	0.271	0.0	0.0	0.1
1328	63.629	63.576	0.269	0.0	0.0	0.1
1344	63.626	63.573	0.266	0.0	0.0	0.1
1360	63.624	63.571	0.264	0.0	0.0	0.1
1376	63.622	63.569	0.262	0.0	0.0	0.1
1392	63.619	63.566	0.259	0.0	0.0	0.1
1408	63.617	63.564	0.257	0.0	0.0	0.1
1424	63.614	63.561	0.254	0.0	0.0	0.1
1440	63.612	63.559	0.252	0.0	0.0	0.1
1456	63.609	63.557	0.249	0.0	0.0	0.1
1472	63.607	63.554	0.247	0.0	0.0	0.1
1488	63.605	63.552	0.245	0.0	0.0	0.1
1504	63.602	63.550	0.242	0.0	0.0	0.1
1520	63.600	63.547	0.240	0.0	0.0	0.1
1536	63.597	63.545	0.237	0.0	0.0	0.1
1552	63.595	63.543	0.235	0.0	0.0	0.1
1568	63.593	63.541	0.233	0.0	0.0	0.1
1584	63.590	63.538	0.230	0.0	0.0	0.1
1600	63.588	63.536	0.228	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.585	63.534	0.225	0.0	0.0	0.1
1632	63.583	63.531	0.223	0.0	0.0	0.1
1648	63.581	63.529	0.221	0.0	0.0	0.1
1664	63.578	63.527	0.218	0.0	0.0	0.1
1680	63.576	63.524	0.216	0.0	0.0	0.1
1696	63.574	63.522	0.214	0.0	0.0	0.1
1712	63.571	63.520	0.211	0.0	0.0	0.1
1728	63.569	63.518	0.209	0.0	0.0	0.1
1744	63.567	63.515	0.207	0.0	0.0	0.1
1760	63.564	63.513	0.204	0.0	0.0	0.1
1776	63.562	63.511	0.202	0.0	0.0	0.1
1792	63.560	63.508	0.200	0.0	0.0	0.1
1808	63.557	63.506	0.197	0.0	0.0	0.1
1824	63.555	63.504	0.195	0.0	0.0	0.1
1840	63.553	63.502	0.193	0.0	0.0	0.1
1856	63.550	63.499	0.190	0.0	0.0	0.1
1872	63.548	63.497	0.188	0.0	0.0	0.1
1888	63.546	63.495	0.186	0.0	0.0	0.1
1904	63.543	63.493	0.183	0.0	0.0	0.1
1920	63.541	63.491	0.181	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.100	63.096	-0.110	0.0	0.0	0.0
32	63.101	63.096	-0.109	0.0	0.0	0.0
48	63.103	63.096	-0.107	0.0	0.0	0.0
64	63.107	63.096	-0.103	0.0	0.0	0.0
80	63.111	63.096	-0.099	0.0	0.0	0.0
96	63.117	63.096	-0.093	0.0	0.0	0.0
112	63.124	63.096	-0.086	0.0	0.0	0.0
128	63.130	63.096	-0.080	0.0	0.0	0.0
144	63.137	63.096	-0.073	0.0	0.0	0.0
160	63.144	63.096	-0.066	0.0	0.0	0.0
176	63.150	63.096	-0.060	0.0	0.0	0.0
192	63.155	63.096	-0.055	0.0	0.0	0.0
208	63.162	63.096	-0.048	0.0	0.0	0.0
224	63.170	63.096	-0.040	0.0	0.0	0.0
240	63.180	63.096	-0.030	0.0	0.0	0.0
256	63.192	63.096	-0.018	0.0	0.0	0.0
272	63.204	63.096	-0.006	0.0	0.0	0.0
288	63.217	63.096	0.007	0.0	0.0	0.0
304	63.231	63.096	0.021	0.0	0.0	0.0
320	63.247	63.096	0.037	0.0	0.0	0.0
336	63.251	63.096	0.041	0.0	0.0	0.0
352	63.251	63.096	0.041	0.0	0.0	0.0
368	63.252	63.096	0.042	0.0	0.0	0.0
384	63.256	63.096	0.046	0.0	0.0	0.0
400	63.262	63.096	0.052	0.0	0.0	0.0
416	63.261	63.096	0.051	0.0	0.0	0.0
432	63.260	63.096	0.050	0.0	0.0	0.0
448	63.270	63.096	0.060	0.0	0.0	0.0
464	63.291	63.096	0.081	0.0	0.0	0.0
480	63.324	63.096	0.114	0.0	0.0	0.0
496	63.364	63.096	0.154	0.0	0.1	0.0
512	63.401	63.096	0.191	0.0	0.1	0.0
528	63.435	63.096	0.225	0.0	0.1	0.0
544	63.465	63.096	0.255	0.0	0.1	0.0
560	63.491	63.096	0.281	0.0	0.1	0.0
576	63.514	63.096	0.304	0.0	0.1	0.0
592	63.533	63.096	0.323	0.0	0.1	0.0
608	63.548	63.096	0.338	0.0	0.1	0.0
624	63.561	63.096	0.351	0.0	0.1	0.0
640	63.571	63.096	0.361	0.0	0.1	0.0
656	63.579	63.096	0.369	0.0	0.1	0.0
672	63.586	63.096	0.376	0.0	0.1	0.0
688	63.591	63.096	0.381	0.0	0.1	0.0
704	63.596	63.096	0.386	0.0	0.1	0.0
720	63.600	63.096	0.390	0.0	0.1	0.0
736	63.604	63.096	0.394	0.0	0.1	0.0
752	63.607	63.096	0.397	0.0	0.1	0.0
768	63.610	63.096	0.400	0.0	0.1	0.0
784	63.613	63.096	0.403	0.0	0.1	0.0
800	63.615	63.096	0.405	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.617	63.096	0.407	0.0	0.1	0.0
832	63.619	63.096	0.409	0.0	0.1	0.0
848	63.621	63.096	0.411	0.0	0.1	0.0
864	63.623	63.096	0.413	0.0	0.1	0.0
880	63.624	63.096	0.414	0.0	0.1	0.0
896	63.626	63.096	0.416	0.0	0.1	0.0
912	63.627	63.096	0.417	0.0	0.1	0.0
928	63.628	63.096	0.418	0.0	0.1	0.0
944	63.629	63.096	0.419	0.0	0.1	0.0
960	63.630	63.096	0.420	0.0	0.1	0.0
976	63.631	63.096	0.421	0.0	0.1	0.0
992	63.630	63.096	0.420	0.0	0.1	0.0
1008	63.628	63.096	0.418	0.0	0.1	0.0
1024	63.625	63.096	0.415	0.0	0.1	0.0
1040	63.622	63.096	0.412	0.0	0.1	0.0
1056	63.619	63.096	0.409	0.0	0.1	0.0
1072	63.616	63.096	0.406	0.0	0.1	0.0
1088	63.613	63.096	0.403	0.0	0.1	0.0
1104	63.610	63.096	0.400	0.0	0.1	0.0
1120	63.607	63.096	0.397	0.0	0.1	0.0
1136	63.605	63.096	0.395	0.0	0.1	0.0
1152	63.602	63.096	0.392	0.0	0.1	0.0
1168	63.599	63.096	0.389	0.0	0.1	0.0
1184	63.597	63.096	0.387	0.0	0.1	0.0
1200	63.595	63.096	0.385	0.0	0.1	0.0
1216	63.592	63.096	0.382	0.0	0.1	0.0
1232	63.590	63.096	0.380	0.0	0.1	0.0
1248	63.587	63.096	0.377	0.0	0.1	0.0
1264	63.585	63.096	0.375	0.0	0.1	0.0
1280	63.583	63.096	0.373	0.0	0.1	0.0
1296	63.580	63.096	0.370	0.0	0.1	0.0
1312	63.578	63.096	0.368	0.0	0.1	0.0
1328	63.576	63.096	0.366	0.0	0.1	0.0
1344	63.573	63.096	0.363	0.0	0.1	0.0
1360	63.571	63.096	0.361	0.0	0.1	0.0
1376	63.569	63.096	0.359	0.0	0.1	0.0
1392	63.566	63.096	0.356	0.0	0.1	0.0
1408	63.564	63.096	0.354	0.0	0.1	0.0
1424	63.561	63.096	0.351	0.0	0.1	0.0
1440	63.559	63.096	0.349	0.0	0.1	0.0
1456	63.557	63.096	0.347	0.0	0.1	0.0
1472	63.554	63.096	0.344	0.0	0.1	0.0
1488	63.552	63.096	0.342	0.0	0.1	0.0
1504	63.550	63.096	0.340	0.0	0.1	0.0
1520	63.547	63.096	0.337	0.0	0.1	0.0
1536	63.545	63.096	0.335	0.0	0.1	0.0
1552	63.543	63.096	0.333	0.0	0.1	0.0
1568	63.541	63.096	0.331	0.0	0.1	0.0
1584	63.538	63.096	0.328	0.0	0.1	0.0
1600	63.536	63.096	0.326	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Summer
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.534	63.096	0.324	0.0	0.1	0.0
1632	63.531	63.096	0.321	0.0	0.1	0.0
1648	63.529	63.096	0.319	0.0	0.1	0.0
1664	63.527	63.096	0.317	0.0	0.1	0.0
1680	63.524	63.096	0.314	0.0	0.1	0.0
1696	63.522	63.096	0.312	0.0	0.1	0.0
1712	63.520	63.096	0.310	0.0	0.1	0.0
1728	63.518	63.096	0.308	0.0	0.1	0.0
1744	63.515	63.096	0.305	0.0	0.1	0.0
1760	63.513	63.096	0.303	0.0	0.1	0.0
1776	63.511	63.096	0.301	0.0	0.1	0.0
1792	63.508	63.096	0.298	0.0	0.1	0.0
1808	63.506	63.096	0.296	0.0	0.1	0.0
1824	63.504	63.096	0.294	0.0	0.1	0.0
1840	63.502	63.096	0.292	0.0	0.1	0.0
1856	63.499	63.096	0.289	0.0	0.1	0.0
1872	63.497	63.096	0.287	0.0	0.1	0.0
1888	63.495	63.096	0.285	0.0	0.1	0.0
1904	63.493	63.096	0.283	0.0	0.1	0.0
1920	63.491	63.096	0.281	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1920
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	16

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	960
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 960 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.404	-0.106	0.000	0.01	0.0	0.2	OK
1.001	S1	63.700	0.096	0.000	0.06	0.0	0.4	SURCHARGED
2.000	RE2	65.405	-0.105	0.000	0.01	0.0	0.2	OK
2.001	S2	65.007	-0.103	0.000	0.01	0.0	0.4	OK
1.002	S3	63.700	0.146	0.000	0.12	0.0	0.8	SURCHARGED
1.003	S4	63.700	0.340	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.637	0.427	0.000	0.01	0.0	0.0	SURCHARGED

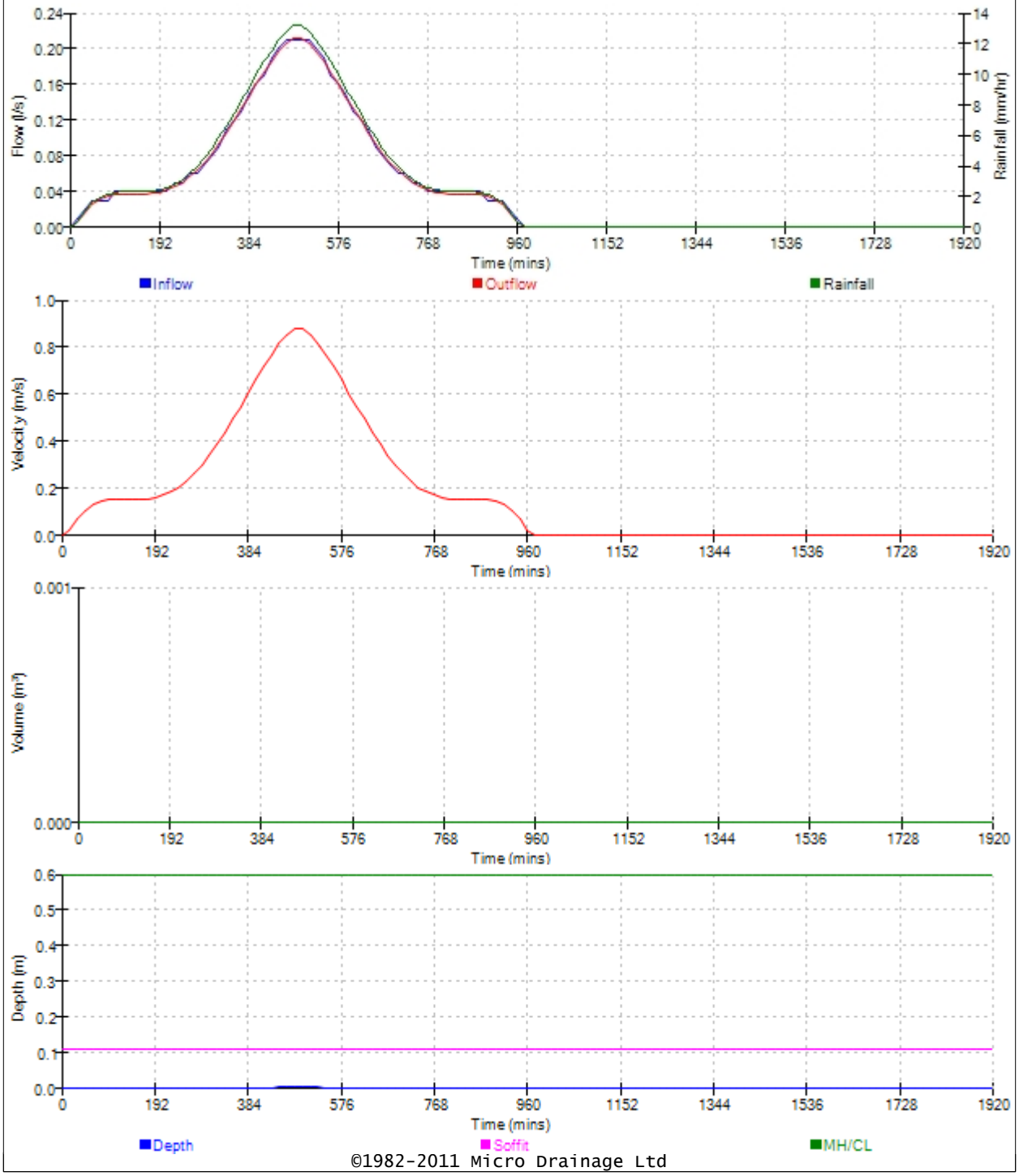
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Rainfall Hyetograph for 960 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
16	0.372	208	2.598	400	10.031	592	9.104	784	2.444
32	1.070	224	2.808	416	10.821	608	8.272	800	2.368
48	1.582	240	3.087	432	11.557	624	7.453	816	2.332
64	1.960	256	3.496	448	12.280	640	6.569	832	2.327
80	2.161	272	3.947	464	12.792	656	5.834	848	2.332
96	2.275	288	4.472	480	13.162	672	5.154	864	2.326
112	2.326	304	5.154	496	13.162	688	4.472	880	2.275
128	2.332	320	5.834	512	12.792	704	3.947	896	2.161
144	2.327	336	6.569	528	12.280	720	3.496	912	1.960
160	2.332	352	7.453	544	11.557	736	3.087	928	1.582
176	2.368	368	8.272	560	10.821	752	2.808	944	1.070
192	2.444	384	9.104	576	10.031	768	2.598	960	0.372

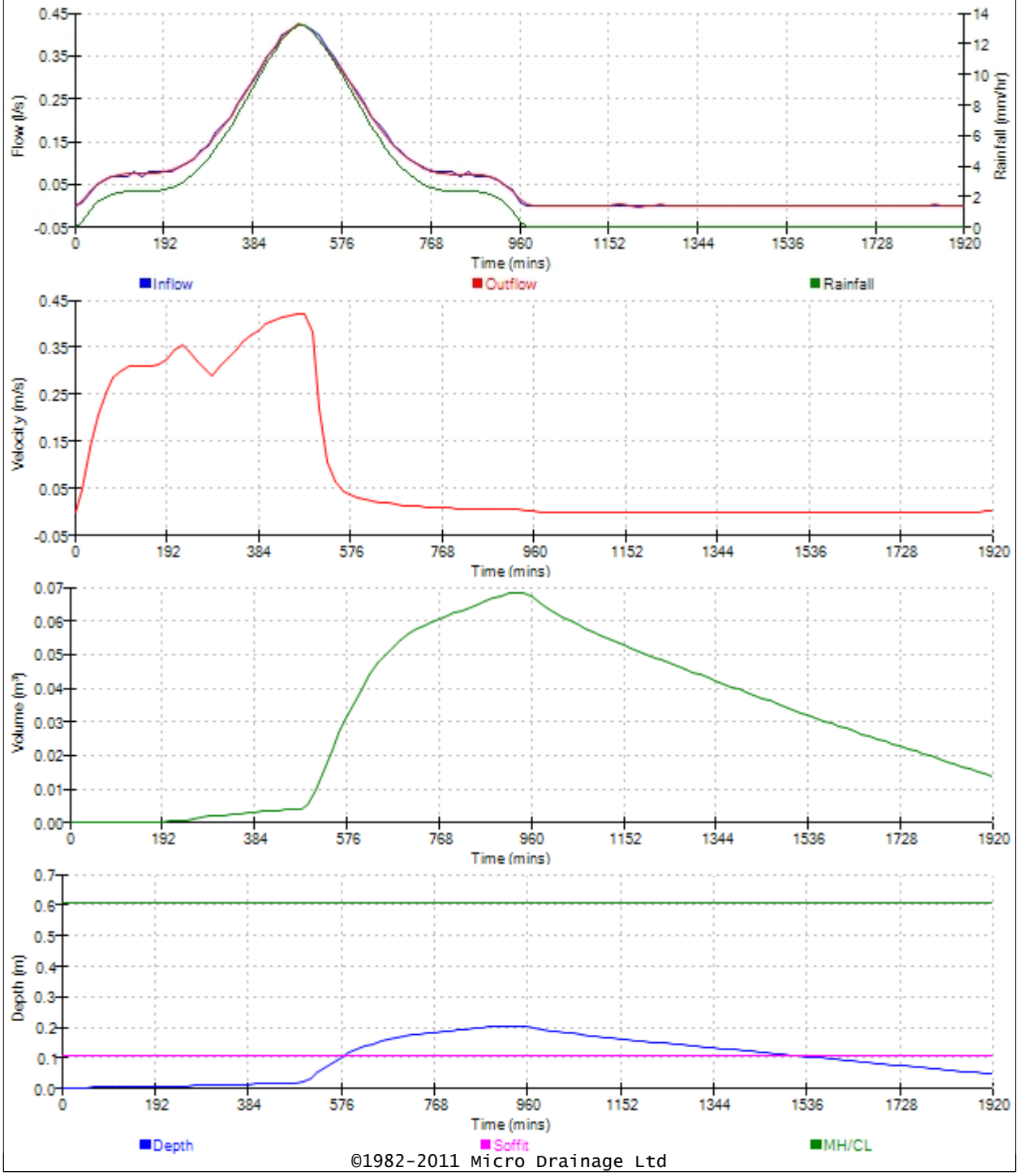
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Winter
Status: OK



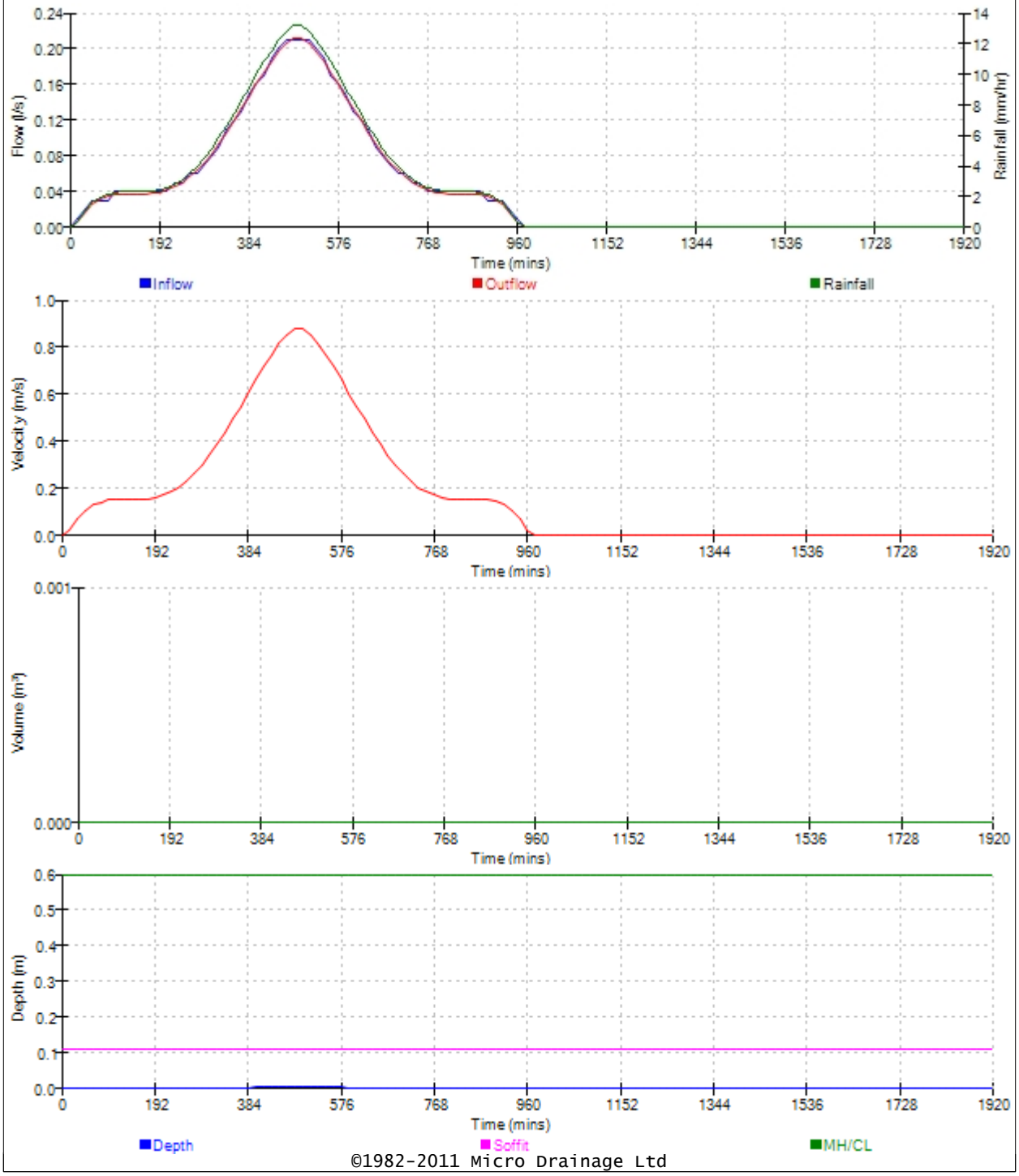
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Graphs for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Winter
Status: SURCHARGED



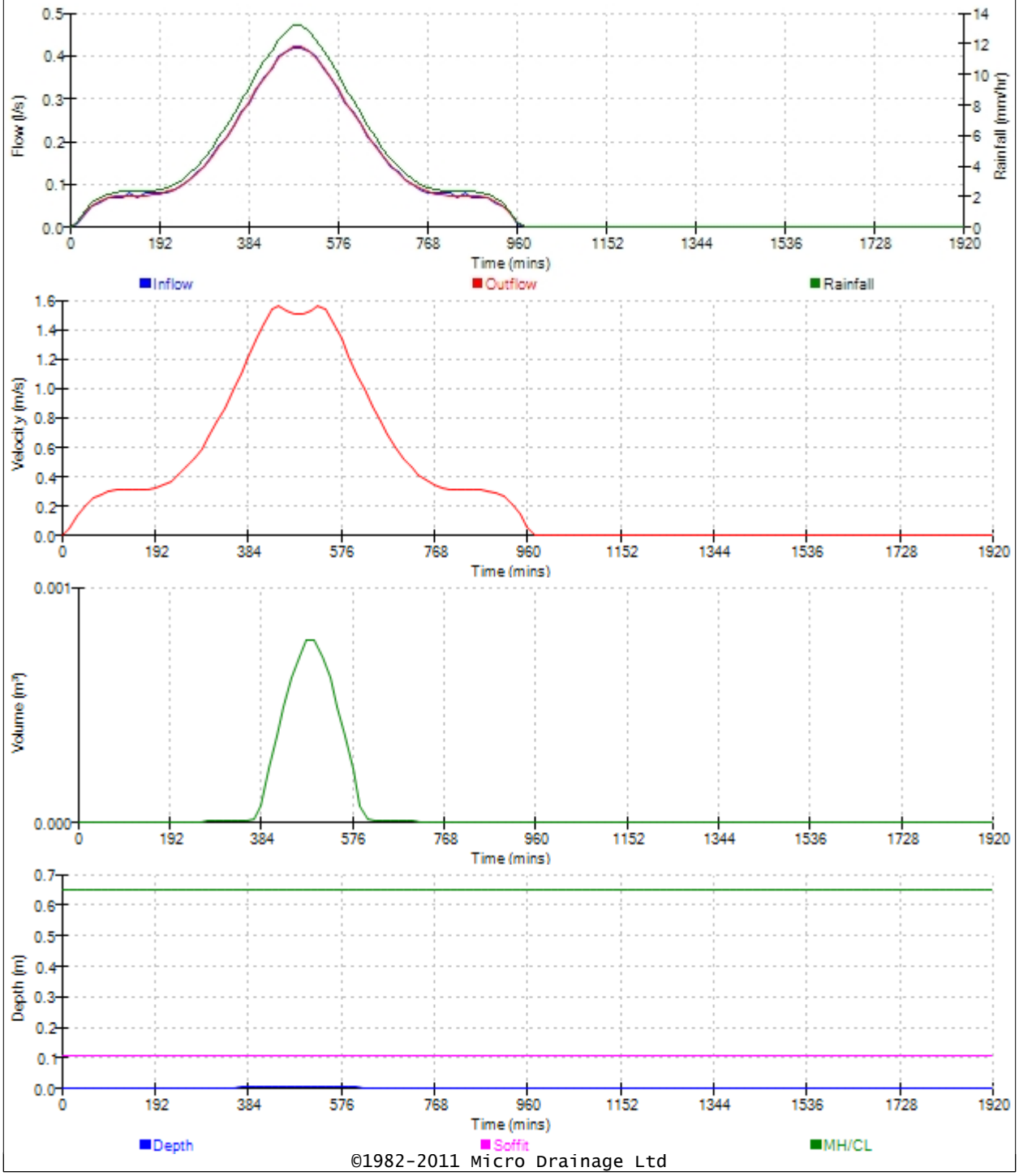
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Winter
Status: OK



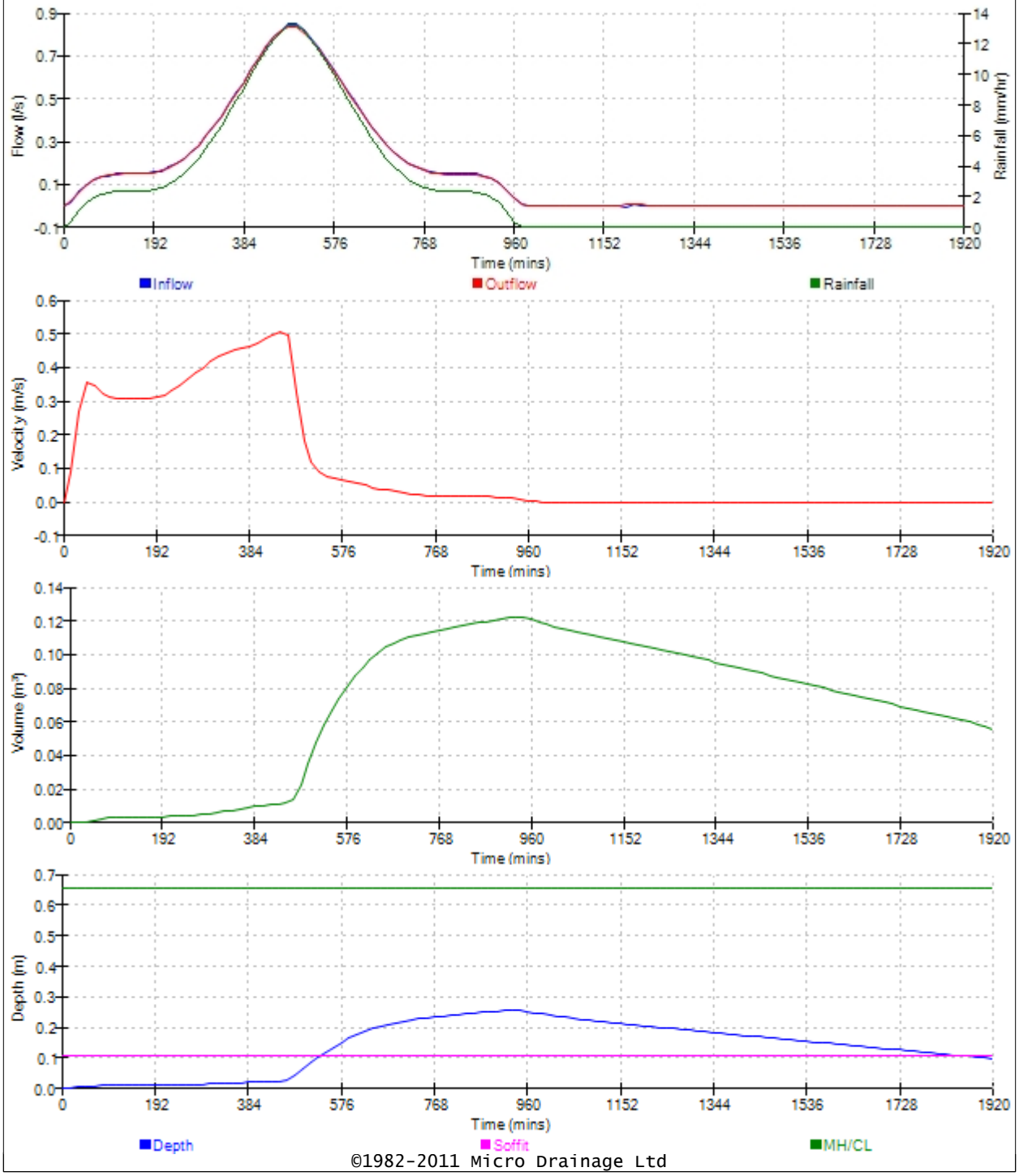
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Graphs for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Winter
Status: OK



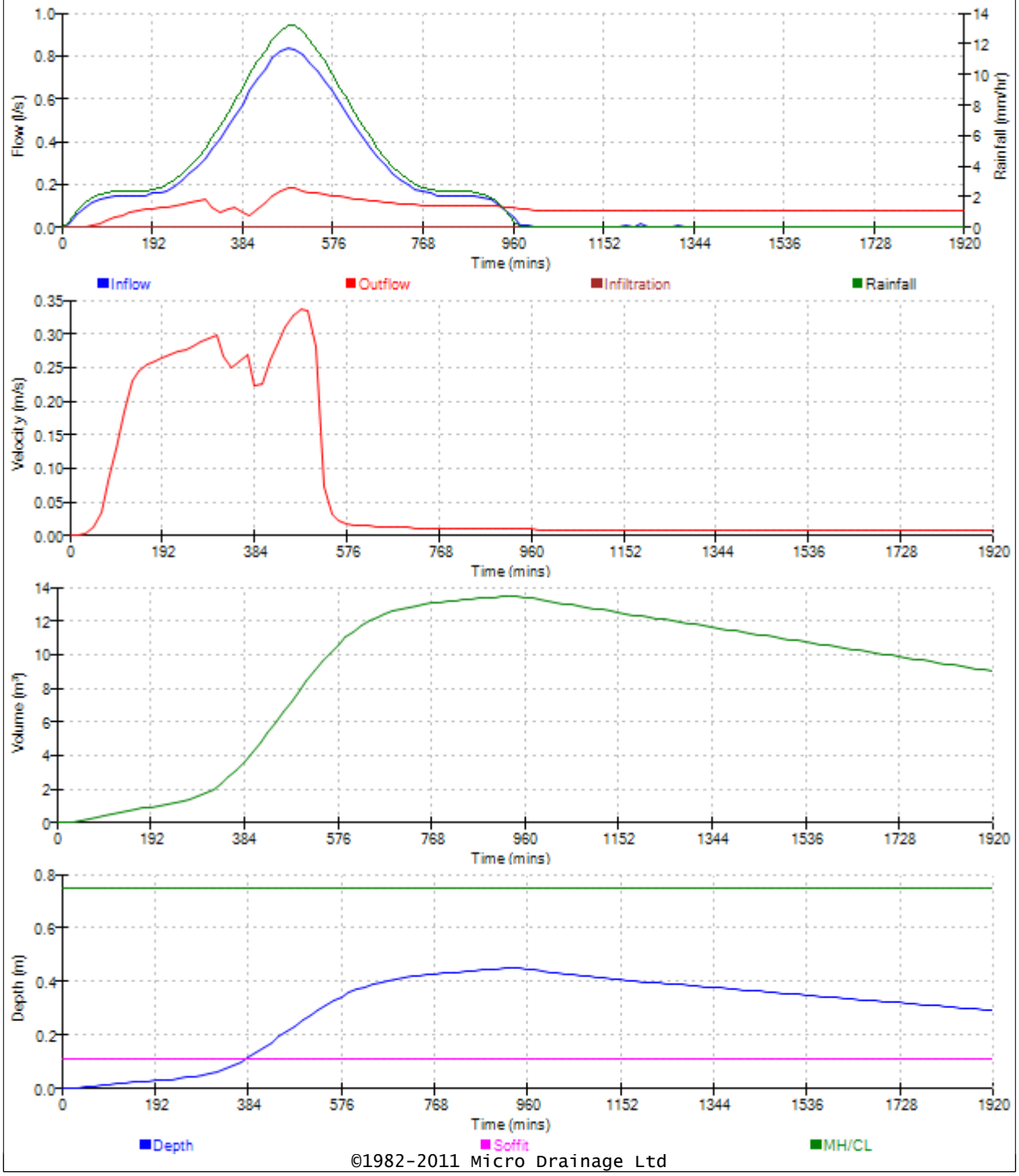
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Graphs for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Winter
Status: SURCHARGED



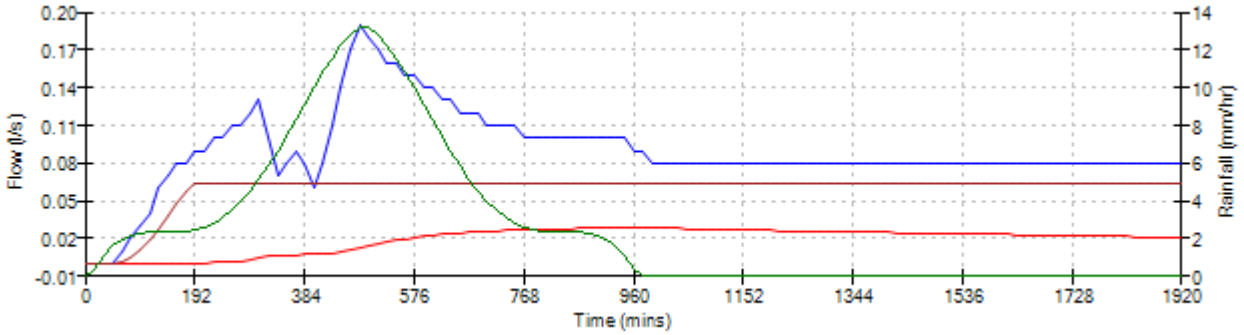
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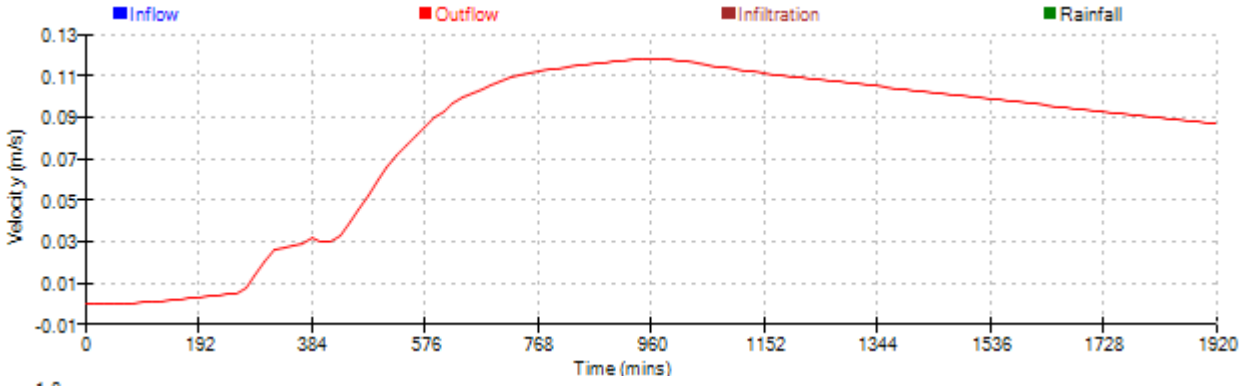
Graphs for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Winter
Status: SURCHARGED

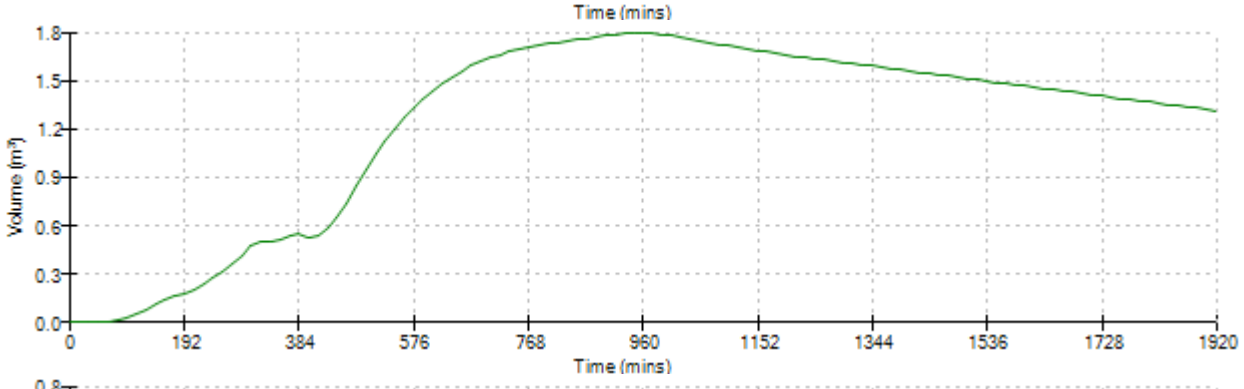


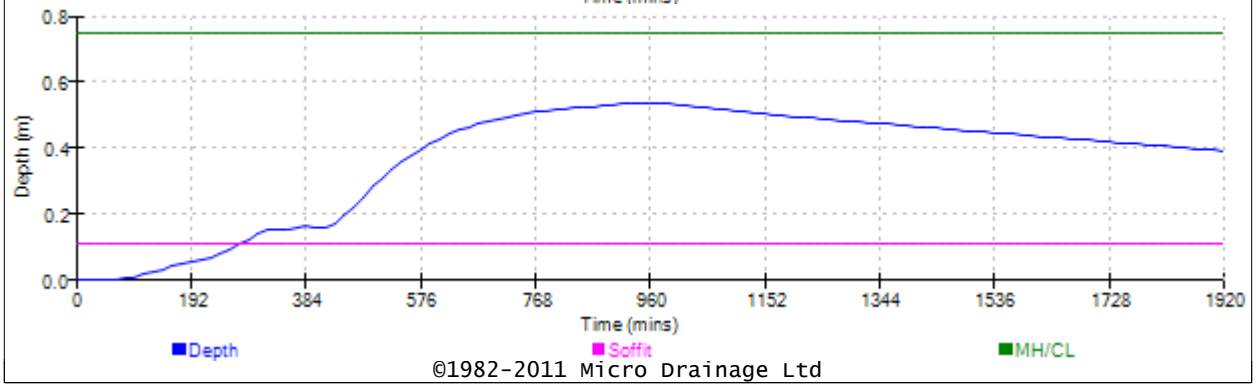
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.400	63.495	-0.110	0.0	0.0	0.0
32	65.400	63.497	-0.110	0.0	0.1	0.0
48	65.401	63.498	-0.109	0.0	0.1	0.0
64	65.401	63.499	-0.109	0.0	0.1	0.0
80	65.401	63.500	-0.109	0.0	0.1	0.0
96	65.401	63.500	-0.109	0.0	0.2	0.0
112	65.401	63.500	-0.109	0.0	0.2	0.0
128	65.401	63.500	-0.109	0.0	0.2	0.0
144	65.401	63.500	-0.109	0.0	0.2	0.0
160	65.401	63.500	-0.109	0.0	0.2	0.0
176	65.401	63.500	-0.109	0.0	0.2	0.0
192	65.401	63.500	-0.109	0.0	0.2	0.0
208	65.401	63.501	-0.109	0.0	0.2	0.0
224	65.401	63.501	-0.109	0.0	0.2	0.0
240	65.401	63.502	-0.109	0.0	0.2	0.0
256	65.401	63.503	-0.109	0.0	0.2	0.1
272	65.401	63.504	-0.109	0.0	0.3	0.1
288	65.401	63.505	-0.109	0.0	0.3	0.1
304	65.402	63.506	-0.108	0.0	0.3	0.1
320	65.402	63.506	-0.108	0.0	0.4	0.1
336	65.402	63.507	-0.108	0.0	0.4	0.1
352	65.402	63.508	-0.108	0.0	0.5	0.1
368	65.403	63.508	-0.107	0.0	0.6	0.1
384	65.403	63.509	-0.107	0.0	0.6	0.1
400	65.403	63.510	-0.107	0.0	0.7	0.2
416	65.404	63.510	-0.106	0.0	0.7	0.2
432	65.404	63.511	-0.106	0.0	0.8	0.2
448	65.404	63.511	-0.106	0.0	0.8	0.2
464	65.404	63.512	-0.106	0.0	0.9	0.2
480	65.404	63.512	-0.106	0.0	0.9	0.2
496	65.404	63.516	-0.106	0.0	0.9	0.2
512	65.404	63.530	-0.106	0.0	0.9	0.2
528	65.404	63.549	-0.106	0.0	0.8	0.2
544	65.404	63.566	-0.106	0.0	0.8	0.2
560	65.404	63.583	-0.106	0.0	0.7	0.2
576	65.403	63.598	-0.107	0.0	0.7	0.2
592	65.403	63.611	-0.107	0.0	0.6	0.1
608	65.403	63.623	-0.107	0.0	0.6	0.1
624	65.402	63.633	-0.108	0.0	0.5	0.1
640	65.402	63.642	-0.108	0.0	0.4	0.1
656	65.402	63.649	-0.108	0.0	0.4	0.1
672	65.402	63.656	-0.108	0.0	0.3	0.1
688	65.401	63.661	-0.109	0.0	0.3	0.1
704	65.401	63.666	-0.109	0.0	0.3	0.1
720	65.401	63.670	-0.109	0.0	0.2	0.1
736	65.401	63.673	-0.109	0.0	0.2	0.0
752	65.401	63.676	-0.109	0.0	0.2	0.0
768	65.401	63.679	-0.109	0.0	0.2	0.0
784	65.401	63.681	-0.109	0.0	0.2	0.0
800	65.401	63.684	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.401	63.686	-0.109	0.0	0.2	0.0
832	65.401	63.688	-0.109	0.0	0.2	0.0
848	65.401	63.691	-0.109	0.0	0.2	0.0
864	65.401	63.693	-0.109	0.0	0.2	0.0
880	65.401	63.696	-0.109	0.0	0.2	0.0
896	65.401	63.698	-0.109	0.0	0.1	0.0
912	65.401	63.699	-0.109	0.0	0.1	0.0
928	65.401	63.700	-0.109	0.0	0.1	0.0
944	65.400	63.699	-0.110	0.0	0.1	0.0
960	65.400	63.697	-0.110	0.0	0.0	0.0
976	65.400	63.692	-0.110	0.0	0.0	0.0
992	65.400	63.688	-0.110	0.0	0.0	0.0
1008	65.400	63.684	-0.110	0.0	0.0	0.0
1024	65.400	63.680	-0.110	0.0	0.0	0.0
1040	65.400	63.677	-0.110	0.0	0.0	0.0
1056	65.400	63.674	-0.110	0.0	0.0	0.0
1072	65.400	63.671	-0.110	0.0	0.0	0.0
1088	65.400	63.668	-0.110	0.0	0.0	0.0
1104	65.400	63.665	-0.110	0.0	0.0	0.0
1120	65.400	63.662	-0.110	0.0	0.0	0.0
1136	65.400	63.660	-0.110	0.0	0.0	0.0
1152	65.400	63.657	-0.110	0.0	0.0	0.0
1168	65.400	63.654	-0.110	0.0	0.0	0.0
1184	65.400	63.651	-0.110	0.0	0.0	0.0
1200	65.400	63.649	-0.110	0.0	0.0	0.0
1216	65.400	63.647	-0.110	0.0	0.0	0.0
1232	65.400	63.645	-0.110	0.0	0.0	0.0
1248	65.400	63.642	-0.110	0.0	0.0	0.0
1264	65.400	63.640	-0.110	0.0	0.0	0.0
1280	65.400	63.638	-0.110	0.0	0.0	0.0
1296	65.400	63.635	-0.110	0.0	0.0	0.0
1312	65.400	63.633	-0.110	0.0	0.0	0.0
1328	65.400	63.630	-0.110	0.0	0.0	0.0
1344	65.400	63.628	-0.110	0.0	0.0	0.0
1360	65.400	63.625	-0.110	0.0	0.0	0.0
1376	65.400	63.623	-0.110	0.0	0.0	0.0
1392	65.400	63.621	-0.110	0.0	0.0	0.0
1408	65.400	63.618	-0.110	0.0	0.0	0.0
1424	65.400	63.616	-0.110	0.0	0.0	0.0
1440	65.400	63.613	-0.110	0.0	0.0	0.0
1456	65.400	63.611	-0.110	0.0	0.0	0.0
1472	65.400	63.609	-0.110	0.0	0.0	0.0
1488	65.400	63.606	-0.110	0.0	0.0	0.0
1504	65.400	63.604	-0.110	0.0	0.0	0.0
1520	65.400	63.602	-0.110	0.0	0.0	0.0
1536	65.400	63.599	-0.110	0.0	0.0	0.0
1552	65.400	63.596	-0.110	0.0	0.0	0.0
1568	65.400	63.594	-0.110	0.0	0.0	0.0
1584	65.400	63.592	-0.110	0.0	0.0	0.0
1600	65.400	63.589	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.400	63.587	-0.110	0.0	0.0	0.0
1632	65.400	63.585	-0.110	0.0	0.0	0.0
1648	65.400	63.582	-0.110	0.0	0.0	0.0
1664	65.400	63.580	-0.110	0.0	0.0	0.0
1680	65.400	63.577	-0.110	0.0	0.0	0.0
1696	65.400	63.575	-0.110	0.0	0.0	0.0
1712	65.400	63.573	-0.110	0.0	0.0	0.0
1728	65.400	63.570	-0.110	0.0	0.0	0.0
1744	65.400	63.568	-0.110	0.0	0.0	0.0
1760	65.400	63.566	-0.110	0.0	0.0	0.0
1776	65.400	63.563	-0.110	0.0	0.0	0.0
1792	65.400	63.562	-0.110	0.0	0.0	0.0
1808	65.400	63.559	-0.110	0.0	0.0	0.0
1824	65.400	63.556	-0.110	0.0	0.0	0.0
1840	65.400	63.554	-0.110	0.0	0.0	0.0
1856	65.400	63.551	-0.110	0.0	0.0	0.0
1872	65.400	63.550	-0.110	0.0	0.0	0.0
1888	65.400	63.547	-0.110	0.0	0.0	0.0
1904	65.400	63.545	-0.110	0.0	0.0	0.0
1920	65.400	63.543	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.495	63.446	-0.109	0.0	0.0	0.0
32	63.497	63.449	-0.107	0.0	0.1	0.0
48	63.498	63.452	-0.106	0.0	0.2	0.0
64	63.499	63.453	-0.105	0.0	0.3	0.1
80	63.500	63.454	-0.105	0.0	0.3	0.1
96	63.500	63.455	-0.104	0.0	0.3	0.1
112	63.500	63.455	-0.104	0.0	0.3	0.1
128	63.500	63.455	-0.104	0.0	0.3	0.1
144	63.500	63.455	-0.104	0.0	0.3	0.1
160	63.500	63.455	-0.104	0.0	0.3	0.1
176	63.500	63.455	-0.104	0.0	0.3	0.1
192	63.500	63.455	-0.104	0.0	0.3	0.1
208	63.501	63.455	-0.104	0.0	0.3	0.1
224	63.501	63.456	-0.103	0.0	0.4	0.1
240	63.502	63.456	-0.102	0.0	0.3	0.1
256	63.503	63.457	-0.101	0.0	0.3	0.1
272	63.504	63.457	-0.100	0.0	0.3	0.1
288	63.505	63.458	-0.099	0.0	0.3	0.1
304	63.506	63.459	-0.098	0.0	0.3	0.2
320	63.506	63.460	-0.098	0.0	0.3	0.2
336	63.507	63.461	-0.097	0.0	0.3	0.2
352	63.508	63.463	-0.097	0.0	0.4	0.2
368	63.508	63.464	-0.096	0.0	0.4	0.3
384	63.509	63.465	-0.095	0.0	0.4	0.3
400	63.510	63.466	-0.095	0.0	0.4	0.3
416	63.510	63.467	-0.094	0.0	0.4	0.3
432	63.511	63.468	-0.093	0.0	0.4	0.4
448	63.511	63.468	-0.093	0.0	0.4	0.4
464	63.512	63.472	-0.092	0.0	0.4	0.4
480	63.512	63.488	-0.092	0.0	0.4	0.4
496	63.516	63.509	-0.088	0.0	0.4	0.4
512	63.530	63.528	-0.074	0.0	0.2	0.4
528	63.549	63.547	-0.055	0.0	0.1	0.4
544	63.566	63.565	-0.038	0.0	0.1	0.4
560	63.583	63.581	-0.021	0.0	0.0	0.3
576	63.598	63.596	-0.006	0.0	0.0	0.3
592	63.611	63.610	0.007	0.0	0.0	0.3
608	63.623	63.622	0.019	0.0	0.0	0.3
624	63.633	63.632	0.029	0.0	0.0	0.2
640	63.642	63.641	0.038	0.0	0.0	0.2
656	63.649	63.649	0.045	0.0	0.0	0.2
672	63.656	63.655	0.051	0.0	0.0	0.2
688	63.661	63.660	0.057	0.0	0.0	0.1
704	63.666	63.665	0.062	0.0	0.0	0.1
720	63.670	63.670	0.066	0.0	0.0	0.1
736	63.673	63.673	0.069	0.0	0.0	0.1
752	63.676	63.676	0.072	0.0	0.0	0.1
768	63.679	63.679	0.075	0.0	0.0	0.1
784	63.681	63.681	0.077	0.0	0.0	0.1
800	63.684	63.683	0.079	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.686	63.686	0.082	0.0	0.0	0.1
832	63.688	63.688	0.084	0.0	0.0	0.1
848	63.691	63.690	0.087	0.0	0.0	0.1
864	63.693	63.693	0.089	0.0	0.0	0.1
880	63.696	63.695	0.092	0.0	0.0	0.1
896	63.698	63.698	0.094	0.0	0.0	0.1
912	63.699	63.699	0.095	0.0	0.0	0.1
928	63.700	63.700	0.096	0.0	0.0	0.1
944	63.699	63.699	0.095	0.0	0.0	0.0
960	63.697	63.697	0.093	0.0	0.0	0.0
976	63.692	63.692	0.088	0.0	0.0	0.0
992	63.688	63.688	0.084	0.0	0.0	0.0
1008	63.684	63.684	0.080	0.0	0.0	0.0
1024	63.680	63.681	0.076	0.0	0.0	0.0
1040	63.677	63.677	0.073	0.0	0.0	0.0
1056	63.674	63.674	0.070	0.0	0.0	0.0
1072	63.671	63.671	0.067	0.0	0.0	0.0
1088	63.668	63.668	0.064	0.0	0.0	0.0
1104	63.665	63.665	0.061	0.0	0.0	0.0
1120	63.662	63.662	0.058	0.0	0.0	0.0
1136	63.660	63.660	0.056	0.0	0.0	0.0
1152	63.657	63.657	0.053	0.0	0.0	0.0
1168	63.654	63.654	0.050	0.0	0.0	0.0
1184	63.651	63.651	0.047	0.0	0.0	0.0
1200	63.649	63.649	0.045	0.0	0.0	0.0
1216	63.647	63.647	0.043	0.0	0.0	0.0
1232	63.645	63.645	0.041	0.0	0.0	0.0
1248	63.642	63.643	0.038	0.0	0.0	0.0
1264	63.640	63.640	0.036	0.0	0.0	0.0
1280	63.638	63.637	0.033	0.0	0.0	0.0
1296	63.635	63.635	0.031	0.0	0.0	0.0
1312	63.633	63.633	0.029	0.0	0.0	0.0
1328	63.630	63.631	0.026	0.0	0.0	0.0
1344	63.628	63.628	0.024	0.0	0.0	0.0
1360	63.625	63.626	0.021	0.0	0.0	0.0
1376	63.623	63.623	0.019	0.0	0.0	0.0
1392	63.621	63.621	0.017	0.0	0.0	0.0
1408	63.618	63.618	0.014	0.0	0.0	0.0
1424	63.616	63.616	0.012	0.0	0.0	0.0
1440	63.613	63.614	0.009	0.0	0.0	0.0
1456	63.611	63.611	0.007	0.0	0.0	0.0
1472	63.609	63.609	0.005	0.0	0.0	0.0
1488	63.606	63.606	0.002	0.0	0.0	0.0
1504	63.604	63.604	0.000	0.0	0.0	0.0
1520	63.602	63.602	-0.002	0.0	0.0	0.0
1536	63.599	63.599	-0.005	0.0	0.0	0.0
1552	63.596	63.597	-0.008	0.0	0.0	0.0
1568	63.594	63.594	-0.010	0.0	0.0	0.0
1584	63.592	63.592	-0.012	0.0	0.0	0.0
1600	63.589	63.590	-0.015	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.587	63.587	-0.017	0.0	0.0	0.0
1632	63.585	63.585	-0.019	0.0	0.0	0.0
1648	63.582	63.582	-0.022	0.0	0.0	0.0
1664	63.580	63.580	-0.024	0.0	0.0	0.0
1680	63.577	63.578	-0.027	0.0	0.0	0.0
1696	63.575	63.575	-0.029	0.0	0.0	0.0
1712	63.573	63.573	-0.031	0.0	0.0	0.0
1728	63.570	63.571	-0.034	0.0	0.0	0.0
1744	63.568	63.568	-0.036	0.0	0.0	0.0
1760	63.566	63.566	-0.038	0.0	0.0	0.0
1776	63.563	63.564	-0.041	0.0	0.0	0.0
1792	63.562	63.561	-0.043	0.0	0.0	0.0
1808	63.559	63.560	-0.045	0.0	0.0	0.0
1824	63.556	63.557	-0.048	0.0	0.0	0.0
1840	63.554	63.554	-0.050	0.0	0.0	0.0
1856	63.551	63.552	-0.053	0.0	0.0	0.0
1872	63.550	63.550	-0.055	0.0	0.0	0.0
1888	63.547	63.547	-0.057	0.0	0.0	0.0
1904	63.545	63.545	-0.059	0.0	0.0	0.0
1920	63.543	63.543	-0.062	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.400	65.000	-0.110	0.0	0.0	0.0
32	65.400	65.001	-0.110	0.0	0.1	0.0
48	65.401	65.001	-0.109	0.0	0.1	0.0
64	65.401	65.001	-0.109	0.0	0.1	0.0
80	65.401	65.001	-0.109	0.0	0.1	0.0
96	65.401	65.001	-0.109	0.0	0.2	0.0
112	65.401	65.001	-0.109	0.0	0.2	0.0
128	65.401	65.001	-0.109	0.0	0.2	0.0
144	65.401	65.001	-0.109	0.0	0.2	0.0
160	65.401	65.001	-0.109	0.0	0.2	0.0
176	65.401	65.001	-0.109	0.0	0.2	0.0
192	65.401	65.001	-0.109	0.0	0.2	0.0
208	65.401	65.001	-0.109	0.0	0.2	0.0
224	65.401	65.002	-0.109	0.0	0.2	0.0
240	65.401	65.002	-0.109	0.0	0.2	0.0
256	65.401	65.002	-0.109	0.0	0.2	0.1
272	65.402	65.002	-0.108	0.0	0.3	0.1
288	65.402	65.003	-0.108	0.0	0.3	0.1
304	65.402	65.003	-0.108	0.0	0.3	0.1
320	65.402	65.003	-0.108	0.0	0.4	0.1
336	65.403	65.004	-0.107	0.0	0.4	0.1
352	65.403	65.004	-0.107	0.0	0.5	0.1
368	65.403	65.005	-0.107	0.0	0.6	0.1
384	65.404	65.005	-0.106	0.0	0.6	0.1
400	65.404	65.006	-0.106	0.0	0.7	0.2
416	65.404	65.006	-0.106	0.0	0.7	0.2
432	65.405	65.007	-0.105	0.0	0.8	0.2
448	65.405	65.007	-0.105	0.0	0.8	0.2
464	65.405	65.007	-0.105	0.0	0.9	0.2
480	65.405	65.007	-0.105	0.0	0.9	0.2
496	65.405	65.007	-0.105	0.0	0.9	0.2
512	65.405	65.007	-0.105	0.0	0.9	0.2
528	65.405	65.007	-0.105	0.0	0.8	0.2
544	65.405	65.007	-0.105	0.0	0.8	0.2
560	65.404	65.006	-0.106	0.0	0.7	0.2
576	65.404	65.006	-0.106	0.0	0.7	0.2
592	65.404	65.005	-0.106	0.0	0.6	0.1
608	65.403	65.005	-0.107	0.0	0.6	0.1
624	65.403	65.004	-0.107	0.0	0.5	0.1
640	65.403	65.004	-0.107	0.0	0.4	0.1
656	65.402	65.003	-0.108	0.0	0.4	0.1
672	65.402	65.003	-0.108	0.0	0.3	0.1
688	65.402	65.003	-0.108	0.0	0.3	0.1
704	65.402	65.002	-0.108	0.0	0.3	0.1
720	65.401	65.002	-0.109	0.0	0.2	0.1
736	65.401	65.002	-0.109	0.0	0.2	0.0
752	65.401	65.002	-0.109	0.0	0.2	0.0
768	65.401	65.001	-0.109	0.0	0.2	0.0
784	65.401	65.001	-0.109	0.0	0.2	0.0
800	65.401	65.001	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.401	65.001	-0.109	0.0	0.2	0.0
832	65.401	65.001	-0.109	0.0	0.2	0.0
848	65.401	65.001	-0.109	0.0	0.2	0.0
864	65.401	65.001	-0.109	0.0	0.2	0.0
880	65.401	65.001	-0.109	0.0	0.2	0.0
896	65.401	65.001	-0.109	0.0	0.1	0.0
912	65.401	65.001	-0.109	0.0	0.1	0.0
928	65.401	65.001	-0.109	0.0	0.1	0.0
944	65.400	65.001	-0.110	0.0	0.1	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
976	65.400	65.000	-0.110	0.0	0.0	0.0
992	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1024	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1072	65.400	65.000	-0.110	0.0	0.0	0.0
1088	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1136	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1168	65.400	65.000	-0.110	0.0	0.0	0.0
1184	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0
1216	65.400	65.000	-0.110	0.0	0.0	0.0
1232	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1264	65.400	65.000	-0.110	0.0	0.0	0.0
1280	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1312	65.400	65.000	-0.110	0.0	0.0	0.0
1328	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1360	65.400	65.000	-0.110	0.0	0.0	0.0
1376	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1408	65.400	65.000	-0.110	0.0	0.0	0.0
1424	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1456	65.400	65.000	-0.110	0.0	0.0	0.0
1472	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1504	65.400	65.000	-0.110	0.0	0.0	0.0
1520	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1552	65.400	65.000	-0.110	0.0	0.0	0.0
1568	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1648	65.400	65.000	-0.110	0.0	0.0	0.0
1664	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1696	65.400	65.000	-0.110	0.0	0.0	0.0
1712	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1744	65.400	65.000	-0.110	0.0	0.0	0.0
1760	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1792	65.400	65.000	-0.110	0.0	0.0	0.0
1808	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1840	65.400	65.000	-0.110	0.0	0.0	0.0
1856	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1888	65.400	65.000	-0.110	0.0	0.0	0.0
1904	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	65.000	63.446	-0.110	0.0	0.0	0.0
32	65.001	63.449	-0.109	0.0	0.1	0.0
48	65.001	63.452	-0.109	0.0	0.2	0.1
64	65.001	63.453	-0.109	0.0	0.3	0.1
80	65.001	63.454	-0.109	0.0	0.3	0.1
96	65.001	63.455	-0.109	0.0	0.3	0.1
112	65.001	63.455	-0.109	0.0	0.3	0.1
128	65.001	63.455	-0.109	0.0	0.3	0.1
144	65.001	63.455	-0.109	0.0	0.3	0.1
160	65.001	63.455	-0.109	0.0	0.3	0.1
176	65.001	63.455	-0.109	0.0	0.3	0.1
192	65.001	63.455	-0.109	0.0	0.3	0.1
208	65.001	63.455	-0.109	0.0	0.3	0.1
224	65.002	63.456	-0.108	0.0	0.4	0.1
240	65.002	63.456	-0.108	0.0	0.4	0.1
256	65.002	63.457	-0.108	0.0	0.5	0.1
272	65.002	63.457	-0.108	0.0	0.5	0.1
288	65.003	63.458	-0.107	0.0	0.6	0.1
304	65.003	63.459	-0.107	0.0	0.7	0.2
320	65.003	63.460	-0.107	0.0	0.8	0.2
336	65.004	63.461	-0.106	0.0	0.9	0.2
352	65.004	63.463	-0.106	0.0	1.0	0.2
368	65.005	63.464	-0.105	0.0	1.1	0.3
384	65.005	63.465	-0.105	0.0	1.2	0.3
400	65.006	63.466	-0.104	0.0	1.3	0.3
416	65.006	63.467	-0.104	0.0	1.4	0.3
432	65.007	63.468	-0.103	0.0	1.5	0.4
448	65.007	63.468	-0.103	0.0	1.6	0.4
464	65.007	63.472	-0.103	0.0	1.5	0.4
480	65.007	63.488	-0.103	0.0	1.5	0.4
496	65.007	63.509	-0.103	0.0	1.5	0.4
512	65.007	63.528	-0.103	0.0	1.5	0.4
528	65.007	63.547	-0.103	0.0	1.6	0.4
544	65.007	63.565	-0.103	0.0	1.5	0.4
560	65.006	63.581	-0.104	0.0	1.4	0.3
576	65.006	63.596	-0.104	0.0	1.3	0.3
592	65.005	63.610	-0.105	0.0	1.2	0.3
608	65.005	63.622	-0.105	0.0	1.1	0.3
624	65.004	63.632	-0.106	0.0	1.0	0.2
640	65.004	63.641	-0.106	0.0	0.9	0.2
656	65.003	63.649	-0.107	0.0	0.8	0.2
672	65.003	63.655	-0.107	0.0	0.7	0.2
688	65.003	63.660	-0.107	0.0	0.6	0.1
704	65.002	63.665	-0.108	0.0	0.5	0.1
720	65.002	63.670	-0.108	0.0	0.5	0.1
736	65.002	63.673	-0.108	0.0	0.4	0.1
752	65.002	63.676	-0.108	0.0	0.4	0.1
768	65.001	63.679	-0.109	0.0	0.3	0.1
784	65.001	63.681	-0.109	0.0	0.3	0.1
800	65.001	63.683	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	65.001	63.686	-0.109	0.0	0.3	0.1
832	65.001	63.688	-0.109	0.0	0.3	0.1
848	65.001	63.690	-0.109	0.0	0.3	0.1
864	65.001	63.693	-0.109	0.0	0.3	0.1
880	65.001	63.695	-0.109	0.0	0.3	0.1
896	65.001	63.698	-0.109	0.0	0.3	0.1
912	65.001	63.699	-0.109	0.0	0.3	0.1
928	65.001	63.700	-0.109	0.0	0.2	0.1
944	65.001	63.699	-0.109	0.0	0.1	0.0
960	65.000	63.697	-0.110	0.0	0.1	0.0
976	65.000	63.692	-0.110	0.0	0.0	0.0
992	65.000	63.688	-0.110	0.0	0.0	0.0
1008	65.000	63.684	-0.110	0.0	0.0	0.0
1024	65.000	63.681	-0.110	0.0	0.0	0.0
1040	65.000	63.677	-0.110	0.0	0.0	0.0
1056	65.000	63.674	-0.110	0.0	0.0	0.0
1072	65.000	63.671	-0.110	0.0	0.0	0.0
1088	65.000	63.668	-0.110	0.0	0.0	0.0
1104	65.000	63.665	-0.110	0.0	0.0	0.0
1120	65.000	63.662	-0.110	0.0	0.0	0.0
1136	65.000	63.660	-0.110	0.0	0.0	0.0
1152	65.000	63.657	-0.110	0.0	0.0	0.0
1168	65.000	63.654	-0.110	0.0	0.0	0.0
1184	65.000	63.651	-0.110	0.0	0.0	0.0
1200	65.000	63.649	-0.110	0.0	0.0	0.0
1216	65.000	63.647	-0.110	0.0	0.0	0.0
1232	65.000	63.645	-0.110	0.0	0.0	0.0
1248	65.000	63.643	-0.110	0.0	0.0	0.0
1264	65.000	63.640	-0.110	0.0	0.0	0.0
1280	65.000	63.637	-0.110	0.0	0.0	0.0
1296	65.000	63.635	-0.110	0.0	0.0	0.0
1312	65.000	63.633	-0.110	0.0	0.0	0.0
1328	65.000	63.631	-0.110	0.0	0.0	0.0
1344	65.000	63.628	-0.110	0.0	0.0	0.0
1360	65.000	63.626	-0.110	0.0	0.0	0.0
1376	65.000	63.623	-0.110	0.0	0.0	0.0
1392	65.000	63.621	-0.110	0.0	0.0	0.0
1408	65.000	63.618	-0.110	0.0	0.0	0.0
1424	65.000	63.616	-0.110	0.0	0.0	0.0
1440	65.000	63.614	-0.110	0.0	0.0	0.0
1456	65.000	63.611	-0.110	0.0	0.0	0.0
1472	65.000	63.609	-0.110	0.0	0.0	0.0
1488	65.000	63.606	-0.110	0.0	0.0	0.0
1504	65.000	63.604	-0.110	0.0	0.0	0.0
1520	65.000	63.602	-0.110	0.0	0.0	0.0
1536	65.000	63.599	-0.110	0.0	0.0	0.0
1552	65.000	63.597	-0.110	0.0	0.0	0.0
1568	65.000	63.594	-0.110	0.0	0.0	0.0
1584	65.000	63.592	-0.110	0.0	0.0	0.0
1600	65.000	63.590	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	65.000	63.587	-0.110	0.0	0.0	0.0
1632	65.000	63.585	-0.110	0.0	0.0	0.0
1648	65.000	63.582	-0.110	0.0	0.0	0.0
1664	65.000	63.580	-0.110	0.0	0.0	0.0
1680	65.000	63.578	-0.110	0.0	0.0	0.0
1696	65.000	63.575	-0.110	0.0	0.0	0.0
1712	65.000	63.573	-0.110	0.0	0.0	0.0
1728	65.000	63.571	-0.110	0.0	0.0	0.0
1744	65.000	63.568	-0.110	0.0	0.0	0.0
1760	65.000	63.566	-0.110	0.0	0.0	0.0
1776	65.000	63.564	-0.110	0.0	0.0	0.0
1792	65.000	63.561	-0.110	0.0	0.0	0.0
1808	65.000	63.560	-0.110	0.0	0.0	0.0
1824	65.000	63.557	-0.110	0.0	0.0	0.0
1840	65.000	63.554	-0.110	0.0	0.0	0.0
1856	65.000	63.552	-0.110	0.0	0.0	0.0
1872	65.000	63.550	-0.110	0.0	0.0	0.0
1888	65.000	63.547	-0.110	0.0	0.0	0.0
1904	65.000	63.545	-0.110	0.0	0.0	0.0
1920	65.000	63.543	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.446	63.251	-0.108	0.0	0.1	0.0
32	63.449	63.253	-0.105	0.0	0.3	0.1
48	63.452	63.255	-0.103	0.0	0.4	0.1
64	63.453	63.258	-0.101	0.0	0.3	0.1
80	63.454	63.262	-0.100	0.0	0.3	0.1
96	63.455	63.265	-0.099	0.0	0.3	0.1
112	63.455	63.268	-0.099	0.0	0.3	0.1
128	63.455	63.271	-0.099	0.0	0.3	0.2
144	63.455	63.274	-0.099	0.0	0.3	0.2
160	63.455	63.276	-0.099	0.0	0.3	0.2
176	63.455	63.278	-0.099	0.0	0.3	0.2
192	63.455	63.280	-0.099	0.0	0.3	0.2
208	63.455	63.283	-0.099	0.0	0.3	0.2
224	63.456	63.285	-0.098	0.0	0.3	0.2
240	63.456	63.288	-0.098	0.0	0.3	0.2
256	63.457	63.292	-0.097	0.0	0.4	0.2
272	63.457	63.296	-0.097	0.0	0.4	0.2
288	63.458	63.301	-0.096	0.0	0.4	0.3
304	63.459	63.307	-0.095	0.0	0.4	0.3
320	63.460	63.315	-0.094	0.0	0.4	0.4
336	63.461	63.326	-0.093	0.0	0.4	0.4
352	63.463	63.338	-0.091	0.0	0.5	0.5
368	63.464	63.351	-0.090	0.0	0.5	0.5
384	63.465	63.367	-0.089	0.0	0.5	0.6
400	63.466	63.386	-0.088	0.0	0.5	0.6
416	63.467	63.405	-0.087	0.0	0.5	0.7
432	63.468	63.425	-0.086	0.0	0.5	0.7
448	63.468	63.445	-0.086	0.0	0.5	0.8
464	63.472	63.465	-0.082	0.0	0.5	0.8
480	63.488	63.485	-0.066	0.0	0.3	0.8
496	63.509	63.506	-0.045	0.0	0.2	0.8
512	63.528	63.526	-0.026	0.0	0.1	0.8
528	63.547	63.545	-0.007	0.0	0.1	0.8
544	63.565	63.562	0.011	0.0	0.1	0.7
560	63.581	63.579	0.027	0.0	0.1	0.7
576	63.596	63.594	0.042	0.0	0.1	0.6
592	63.610	63.608	0.056	0.0	0.1	0.6
608	63.622	63.620	0.068	0.0	0.1	0.5
624	63.632	63.631	0.078	0.0	0.0	0.5
640	63.641	63.640	0.087	0.0	0.0	0.4
656	63.649	63.647	0.094	0.0	0.0	0.4
672	63.655	63.654	0.101	0.0	0.0	0.3
688	63.660	63.659	0.106	0.0	0.0	0.3
704	63.665	63.664	0.111	0.0	0.0	0.3
720	63.670	63.669	0.115	0.0	0.0	0.2
736	63.673	63.672	0.119	0.0	0.0	0.2
752	63.676	63.675	0.122	0.0	0.0	0.2
768	63.679	63.678	0.124	0.0	0.0	0.2
784	63.681	63.680	0.127	0.0	0.0	0.2
800	63.683	63.683	0.129	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.686	63.685	0.131	0.0	0.0	0.1
832	63.688	63.687	0.134	0.0	0.0	0.1
848	63.690	63.690	0.136	0.0	0.0	0.1
864	63.693	63.692	0.139	0.0	0.0	0.1
880	63.695	63.695	0.141	0.0	0.0	0.1
896	63.698	63.697	0.143	0.0	0.0	0.1
912	63.699	63.699	0.145	0.0	0.0	0.1
928	63.700	63.700	0.146	0.0	0.0	0.1
944	63.699	63.699	0.145	0.0	0.0	0.1
960	63.697	63.696	0.143	0.0	0.0	0.0
976	63.692	63.692	0.138	0.0	0.0	0.0
992	63.688	63.688	0.134	0.0	0.0	0.0
1008	63.684	63.684	0.130	0.0	0.0	0.0
1024	63.681	63.681	0.127	0.0	0.0	0.0
1040	63.677	63.677	0.123	0.0	0.0	0.0
1056	63.674	63.674	0.120	0.0	0.0	0.0
1072	63.671	63.671	0.117	0.0	0.0	0.0
1088	63.668	63.668	0.114	0.0	0.0	0.0
1104	63.665	63.665	0.111	0.0	0.0	0.0
1120	63.662	63.662	0.108	0.0	0.0	0.0
1136	63.660	63.660	0.106	0.0	0.0	0.0
1152	63.657	63.657	0.103	0.0	0.0	0.0
1168	63.654	63.654	0.100	0.0	0.0	0.0
1184	63.651	63.652	0.097	0.0	0.0	0.0
1200	63.649	63.649	0.095	0.0	0.0	0.0
1216	63.647	63.647	0.093	0.0	0.0	0.0
1232	63.645	63.645	0.091	0.0	0.0	0.0
1248	63.643	63.643	0.088	0.0	0.0	0.0
1264	63.640	63.640	0.086	0.0	0.0	0.0
1280	63.637	63.638	0.083	0.0	0.0	0.0
1296	63.635	63.635	0.081	0.0	0.0	0.0
1312	63.633	63.633	0.079	0.0	0.0	0.0
1328	63.631	63.631	0.076	0.0	0.0	0.0
1344	63.628	63.628	0.074	0.0	0.0	0.0
1360	63.626	63.626	0.072	0.0	0.0	0.0
1376	63.623	63.623	0.069	0.0	0.0	0.0
1392	63.621	63.621	0.067	0.0	0.0	0.0
1408	63.618	63.619	0.064	0.0	0.0	0.0
1424	63.616	63.616	0.062	0.0	0.0	0.0
1440	63.614	63.614	0.060	0.0	0.0	0.0
1456	63.611	63.611	0.057	0.0	0.0	0.0
1472	63.609	63.609	0.055	0.0	0.0	0.0
1488	63.606	63.607	0.052	0.0	0.0	0.0
1504	63.604	63.604	0.050	0.0	0.0	0.0
1520	63.602	63.602	0.048	0.0	0.0	0.0
1536	63.599	63.599	0.045	0.0	0.0	0.0
1552	63.597	63.597	0.043	0.0	0.0	0.0
1568	63.594	63.595	0.040	0.0	0.0	0.0
1584	63.592	63.592	0.038	0.0	0.0	0.0
1600	63.590	63.590	0.036	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.587	63.587	0.033	0.0	0.0	0.0
1632	63.585	63.585	0.031	0.0	0.0	0.0
1648	63.582	63.583	0.028	0.0	0.0	0.0
1664	63.580	63.580	0.026	0.0	0.0	0.0
1680	63.578	63.578	0.024	0.0	0.0	0.0
1696	63.575	63.576	0.021	0.0	0.0	0.0
1712	63.573	63.573	0.019	0.0	0.0	0.0
1728	63.571	63.571	0.017	0.0	0.0	0.0
1744	63.568	63.568	0.014	0.0	0.0	0.0
1760	63.566	63.566	0.012	0.0	0.0	0.0
1776	63.564	63.564	0.009	0.0	0.0	0.0
1792	63.561	63.561	0.007	0.0	0.0	0.0
1808	63.560	63.559	0.006	0.0	0.0	0.0
1824	63.557	63.557	0.002	0.0	0.0	0.0
1840	63.554	63.554	0.000	0.0	0.0	0.0
1856	63.552	63.552	-0.002	0.0	0.0	0.0
1872	63.550	63.550	-0.004	0.0	0.0	0.0
1888	63.547	63.548	-0.007	0.0	0.0	0.0
1904	63.545	63.545	-0.009	0.0	0.0	0.0
1920	63.543	63.543	-0.011	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.251	63.100	-0.109	0.0	0.0	0.0
32	63.253	63.100	-0.107	0.0	0.0	0.0
48	63.255	63.101	-0.105	0.0	0.0	0.0
64	63.258	63.102	-0.102	0.0	0.0	0.0
80	63.262	63.106	-0.098	0.0	0.1	0.0
96	63.265	63.111	-0.095	0.0	0.1	0.0
112	63.268	63.118	-0.092	0.0	0.2	0.0
128	63.271	63.125	-0.089	0.0	0.2	0.1
144	63.274	63.134	-0.086	0.0	0.2	0.1
160	63.276	63.142	-0.084	0.0	0.3	0.1
176	63.278	63.149	-0.082	0.0	0.3	0.1
192	63.280	63.155	-0.080	0.0	0.3	0.1
208	63.283	63.163	-0.077	0.0	0.3	0.1
224	63.285	63.172	-0.075	0.0	0.3	0.1
240	63.288	63.184	-0.072	0.0	0.3	0.1
256	63.292	63.196	-0.068	0.0	0.3	0.1
272	63.296	63.210	-0.064	0.0	0.3	0.1
288	63.301	63.225	-0.059	0.0	0.3	0.1
304	63.307	63.242	-0.053	0.0	0.3	0.1
320	63.315	63.251	-0.045	0.0	0.3	0.1
336	63.326	63.252	-0.034	0.0	0.2	0.1
352	63.338	63.255	-0.022	0.0	0.3	0.1
368	63.351	63.261	-0.009	0.0	0.3	0.1
384	63.367	63.264	0.007	0.0	0.2	0.1
400	63.386	63.259	0.026	0.0	0.2	0.1
416	63.405	63.263	0.045	0.0	0.3	0.1
432	63.425	63.275	0.065	0.0	0.3	0.1
448	63.445	63.295	0.085	0.0	0.3	0.1
464	63.465	63.322	0.105	0.0	0.3	0.2
480	63.485	63.353	0.125	0.0	0.3	0.2
496	63.506	63.384	0.146	0.0	0.3	0.2
512	63.526	63.411	0.166	0.0	0.3	0.2
528	63.545	63.435	0.185	0.0	0.1	0.2
544	63.562	63.458	0.202	0.0	0.0	0.2
560	63.579	63.478	0.219	0.0	0.0	0.2
576	63.594	63.497	0.234	0.0	0.0	0.1
592	63.608	63.514	0.248	0.0	0.0	0.1
608	63.620	63.529	0.260	0.0	0.0	0.1
624	63.631	63.543	0.271	0.0	0.0	0.1
640	63.640	63.555	0.280	0.0	0.0	0.1
656	63.647	63.566	0.287	0.0	0.0	0.1
672	63.654	63.575	0.294	0.0	0.0	0.1
688	63.659	63.583	0.299	0.0	0.0	0.1
704	63.664	63.590	0.304	0.0	0.0	0.1
720	63.669	63.596	0.309	0.0	0.0	0.1
736	63.672	63.601	0.312	0.0	0.0	0.1
752	63.675	63.606	0.315	0.0	0.0	0.1
768	63.678	63.610	0.318	0.0	0.0	0.1
784	63.680	63.613	0.320	0.0	0.0	0.1
800	63.683	63.616	0.323	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.685	63.619	0.325	0.0	0.0	0.1
832	63.687	63.621	0.327	0.0	0.0	0.1
848	63.690	63.624	0.330	0.0	0.0	0.1
864	63.692	63.626	0.332	0.0	0.0	0.1
880	63.695	63.629	0.335	0.0	0.0	0.1
896	63.697	63.631	0.337	0.0	0.0	0.1
912	63.699	63.633	0.339	0.0	0.0	0.1
928	63.700	63.635	0.340	0.0	0.0	0.1
944	63.699	63.636	0.339	0.0	0.0	0.1
960	63.696	63.637	0.336	0.0	0.0	0.1
976	63.692	63.636	0.332	0.0	0.0	0.1
992	63.688	63.634	0.328	0.0	0.0	0.1
1008	63.684	63.631	0.324	0.0	0.0	0.1
1024	63.681	63.628	0.321	0.0	0.0	0.1
1040	63.677	63.624	0.317	0.0	0.0	0.1
1056	63.674	63.621	0.314	0.0	0.0	0.1
1072	63.671	63.618	0.311	0.0	0.0	0.1
1088	63.668	63.615	0.308	0.0	0.0	0.1
1104	63.665	63.612	0.305	0.0	0.0	0.1
1120	63.662	63.609	0.302	0.0	0.0	0.1
1136	63.660	63.606	0.300	0.0	0.0	0.1
1152	63.657	63.604	0.297	0.0	0.0	0.1
1168	63.654	63.601	0.294	0.0	0.0	0.1
1184	63.652	63.598	0.292	0.0	0.0	0.1
1200	63.649	63.595	0.289	0.0	0.0	0.1
1216	63.647	63.593	0.287	0.0	0.0	0.1
1232	63.645	63.591	0.285	0.0	0.0	0.1
1248	63.643	63.589	0.283	0.0	0.0	0.1
1264	63.640	63.587	0.280	0.0	0.0	0.1
1280	63.638	63.584	0.278	0.0	0.0	0.1
1296	63.635	63.582	0.275	0.0	0.0	0.1
1312	63.633	63.580	0.273	0.0	0.0	0.1
1328	63.631	63.577	0.271	0.0	0.0	0.1
1344	63.628	63.575	0.268	0.0	0.0	0.1
1360	63.626	63.573	0.266	0.0	0.0	0.1
1376	63.623	63.570	0.263	0.0	0.0	0.1
1392	63.621	63.568	0.261	0.0	0.0	0.1
1408	63.619	63.566	0.259	0.0	0.0	0.1
1424	63.616	63.563	0.256	0.0	0.0	0.1
1440	63.614	63.561	0.254	0.0	0.0	0.1
1456	63.611	63.559	0.251	0.0	0.0	0.1
1472	63.609	63.556	0.249	0.0	0.0	0.1
1488	63.607	63.554	0.247	0.0	0.0	0.1
1504	63.604	63.552	0.244	0.0	0.0	0.1
1520	63.602	63.549	0.242	0.0	0.0	0.1
1536	63.599	63.547	0.239	0.0	0.0	0.1
1552	63.597	63.545	0.237	0.0	0.0	0.1
1568	63.595	63.542	0.235	0.0	0.0	0.1
1584	63.592	63.540	0.232	0.0	0.0	0.1
1600	63.590	63.538	0.230	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.587	63.535	0.227	0.0	0.0	0.1
1632	63.585	63.533	0.225	0.0	0.0	0.1
1648	63.583	63.531	0.223	0.0	0.0	0.1
1664	63.580	63.529	0.220	0.0	0.0	0.1
1680	63.578	63.526	0.218	0.0	0.0	0.1
1696	63.576	63.524	0.216	0.0	0.0	0.1
1712	63.573	63.522	0.213	0.0	0.0	0.1
1728	63.571	63.519	0.211	0.0	0.0	0.1
1744	63.568	63.517	0.208	0.0	0.0	0.1
1760	63.566	63.515	0.206	0.0	0.0	0.1
1776	63.564	63.513	0.204	0.0	0.0	0.1
1792	63.561	63.510	0.201	0.0	0.0	0.1
1808	63.559	63.508	0.199	0.0	0.0	0.1
1824	63.557	63.506	0.197	0.0	0.0	0.1
1840	63.554	63.504	0.194	0.0	0.0	0.1
1856	63.552	63.501	0.192	0.0	0.0	0.1
1872	63.550	63.499	0.190	0.0	0.0	0.1
1888	63.548	63.497	0.188	0.0	0.0	0.1
1904	63.545	63.495	0.185	0.0	0.0	0.1
1920	63.543	63.492	0.183	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16	63.100	63.096	-0.110	0.0	0.0	0.0
32	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.101	63.096	-0.109	0.0	0.0	0.0
64	63.102	63.096	-0.108	0.0	0.0	0.0
80	63.106	63.096	-0.104	0.0	0.0	0.0
96	63.111	63.096	-0.099	0.0	0.0	0.0
112	63.118	63.096	-0.092	0.0	0.0	0.0
128	63.125	63.096	-0.085	0.0	0.0	0.0
144	63.134	63.096	-0.076	0.0	0.0	0.0
160	63.142	63.096	-0.068	0.0	0.0	0.0
176	63.149	63.096	-0.061	0.0	0.0	0.0
192	63.155	63.096	-0.055	0.0	0.0	0.0
208	63.163	63.096	-0.047	0.0	0.0	0.0
224	63.172	63.096	-0.038	0.0	0.0	0.0
240	63.184	63.096	-0.026	0.0	0.0	0.0
256	63.196	63.096	-0.014	0.0	0.0	0.0
272	63.210	63.096	0.000	0.0	0.0	0.0
288	63.225	63.096	0.015	0.0	0.0	0.0
304	63.242	63.096	0.032	0.0	0.0	0.0
320	63.251	63.096	0.041	0.0	0.0	0.0
336	63.252	63.096	0.042	0.0	0.0	0.0
352	63.255	63.096	0.045	0.0	0.0	0.0
368	63.261	63.096	0.051	0.0	0.0	0.0
384	63.264	63.096	0.054	0.0	0.0	0.0
400	63.259	63.096	0.049	0.0	0.0	0.0
416	63.263	63.096	0.053	0.0	0.0	0.0
432	63.275	63.096	0.065	0.0	0.0	0.0
448	63.295	63.096	0.085	0.0	0.0	0.0
464	63.322	63.096	0.112	0.0	0.0	0.0
480	63.353	63.096	0.143	0.0	0.1	0.0
496	63.384	63.096	0.174	0.0	0.1	0.0
512	63.411	63.096	0.201	0.0	0.1	0.0
528	63.435	63.096	0.225	0.0	0.1	0.0
544	63.458	63.096	0.248	0.0	0.1	0.0
560	63.478	63.096	0.268	0.0	0.1	0.0
576	63.497	63.096	0.287	0.0	0.1	0.0
592	63.514	63.096	0.304	0.0	0.1	0.0
608	63.529	63.096	0.319	0.0	0.1	0.0
624	63.543	63.096	0.333	0.0	0.1	0.0
640	63.555	63.096	0.345	0.0	0.1	0.0
656	63.566	63.096	0.356	0.0	0.1	0.0
672	63.575	63.096	0.365	0.0	0.1	0.0
688	63.583	63.096	0.373	0.0	0.1	0.0
704	63.590	63.096	0.380	0.0	0.1	0.0
720	63.596	63.096	0.386	0.0	0.1	0.0
736	63.601	63.096	0.391	0.0	0.1	0.0
752	63.606	63.096	0.396	0.0	0.1	0.0
768	63.610	63.096	0.400	0.0	0.1	0.0
784	63.613	63.096	0.403	0.0	0.1	0.0
800	63.616	63.096	0.406	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
816	63.619	63.096	0.409	0.0	0.1	0.0
832	63.621	63.096	0.411	0.0	0.1	0.0
848	63.624	63.096	0.414	0.0	0.1	0.0
864	63.626	63.096	0.416	0.0	0.1	0.0
880	63.629	63.096	0.419	0.0	0.1	0.0
896	63.631	63.096	0.421	0.0	0.1	0.0
912	63.633	63.096	0.423	0.0	0.1	0.0
928	63.635	63.096	0.425	0.0	0.1	0.0
944	63.636	63.096	0.426	0.0	0.1	0.0
960	63.637	63.096	0.427	0.0	0.1	0.0
976	63.636	63.096	0.426	0.0	0.1	0.0
992	63.634	63.096	0.424	0.0	0.1	0.0
1008	63.631	63.096	0.421	0.0	0.1	0.0
1024	63.628	63.096	0.418	0.0	0.1	0.0
1040	63.624	63.096	0.414	0.0	0.1	0.0
1056	63.621	63.096	0.411	0.0	0.1	0.0
1072	63.618	63.096	0.408	0.0	0.1	0.0
1088	63.615	63.096	0.405	0.0	0.1	0.0
1104	63.612	63.096	0.402	0.0	0.1	0.0
1120	63.609	63.096	0.399	0.0	0.1	0.0
1136	63.606	63.096	0.396	0.0	0.1	0.0
1152	63.604	63.096	0.394	0.0	0.1	0.0
1168	63.601	63.096	0.391	0.0	0.1	0.0
1184	63.598	63.096	0.388	0.0	0.1	0.0
1200	63.595	63.096	0.385	0.0	0.1	0.0
1216	63.593	63.096	0.383	0.0	0.1	0.0
1232	63.591	63.096	0.381	0.0	0.1	0.0
1248	63.589	63.096	0.379	0.0	0.1	0.0
1264	63.587	63.096	0.377	0.0	0.1	0.0
1280	63.584	63.096	0.374	0.0	0.1	0.0
1296	63.582	63.096	0.372	0.0	0.1	0.0
1312	63.580	63.096	0.370	0.0	0.1	0.0
1328	63.577	63.096	0.367	0.0	0.1	0.0
1344	63.575	63.096	0.365	0.0	0.1	0.0
1360	63.573	63.096	0.363	0.0	0.1	0.0
1376	63.570	63.096	0.360	0.0	0.1	0.0
1392	63.568	63.096	0.358	0.0	0.1	0.0
1408	63.566	63.096	0.356	0.0	0.1	0.0
1424	63.563	63.096	0.353	0.0	0.1	0.0
1440	63.561	63.096	0.351	0.0	0.1	0.0
1456	63.559	63.096	0.349	0.0	0.1	0.0
1472	63.556	63.096	0.346	0.0	0.1	0.0
1488	63.554	63.096	0.344	0.0	0.1	0.0
1504	63.552	63.096	0.342	0.0	0.1	0.0
1520	63.549	63.096	0.339	0.0	0.1	0.0
1536	63.547	63.096	0.337	0.0	0.1	0.0
1552	63.545	63.096	0.335	0.0	0.1	0.0
1568	63.542	63.096	0.332	0.0	0.1	0.0
1584	63.540	63.096	0.330	0.0	0.1	0.0
1600	63.538	63.096	0.328	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1616	63.535	63.096	0.325	0.0	0.1	0.0
1632	63.533	63.096	0.323	0.0	0.1	0.0
1648	63.531	63.096	0.321	0.0	0.1	0.0
1664	63.529	63.096	0.319	0.0	0.1	0.0
1680	63.526	63.096	0.316	0.0	0.1	0.0
1696	63.524	63.096	0.314	0.0	0.1	0.0
1712	63.522	63.096	0.312	0.0	0.1	0.0
1728	63.519	63.096	0.309	0.0	0.1	0.0
1744	63.517	63.096	0.307	0.0	0.1	0.0
1760	63.515	63.096	0.305	0.0	0.1	0.0
1776	63.513	63.096	0.303	0.0	0.1	0.0
1792	63.510	63.096	0.300	0.0	0.1	0.0
1808	63.508	63.096	0.298	0.0	0.1	0.0
1824	63.506	63.096	0.296	0.0	0.1	0.0
1840	63.504	63.096	0.294	0.0	0.1	0.0
1856	63.501	63.096	0.291	0.0	0.1	0.0
1872	63.499	63.096	0.289	0.0	0.1	0.0
1888	63.497	63.096	0.287	0.0	0.1	0.0
1904	63.495	63.096	0.285	0.0	0.1	0.0
1920	63.492	63.096	0.282	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	2880
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	1440
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 1440 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.405	-0.105	0.000	0.01	0.0	0.2	OK
1.001	S1	63.685	0.081	0.000	0.07	0.0	0.5	SURCHARGED
2.000	RE2	65.406	-0.104	0.000	0.01	0.0	0.2	OK
2.001	S2	65.008	-0.102	0.000	0.02	0.0	0.5	OK
1.002	S3	63.685	0.131	0.000	0.13	0.0	0.9	SURCHARGED
1.003	S4	63.684	0.324	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.624	0.414	0.000	0.01	0.0	0.0	SURCHARGED

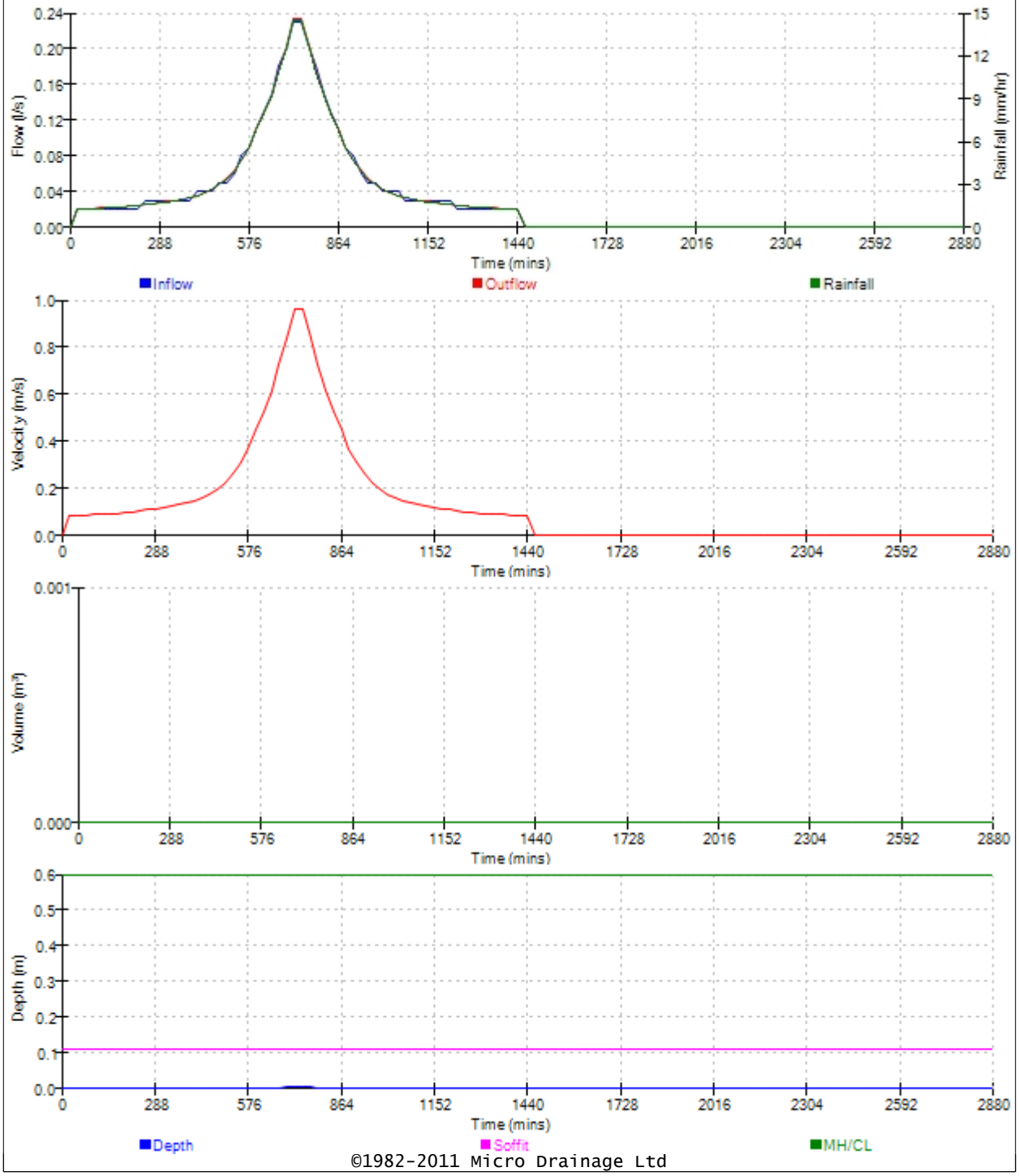
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Rainfall Hyetograph for 1440 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	1.239	312	1.790	600	6.777	888	5.568	1176	1.706
48	1.270	336	1.882	624	7.955	912	4.704	1200	1.644
72	1.300	360	1.973	648	9.224	936	3.954	1224	1.583
96	1.339	384	2.096	672	10.876	960	3.373	1248	1.514
120	1.369	408	2.226	696	12.559	984	2.983	1272	1.461
144	1.400	432	2.402	720	14.471	1008	2.662	1296	1.430
168	1.430	456	2.662	744	14.471	1032	2.402	1320	1.400
192	1.461	480	2.983	768	12.559	1056	2.226	1344	1.369
216	1.514	504	3.373	792	10.876	1080	2.096	1368	1.338
240	1.583	528	3.954	816	9.224	1104	1.973	1392	1.300
264	1.644	552	4.704	840	7.955	1128	1.882	1416	1.270
288	1.706	576	5.568	864	6.777	1152	1.790	1440	1.239

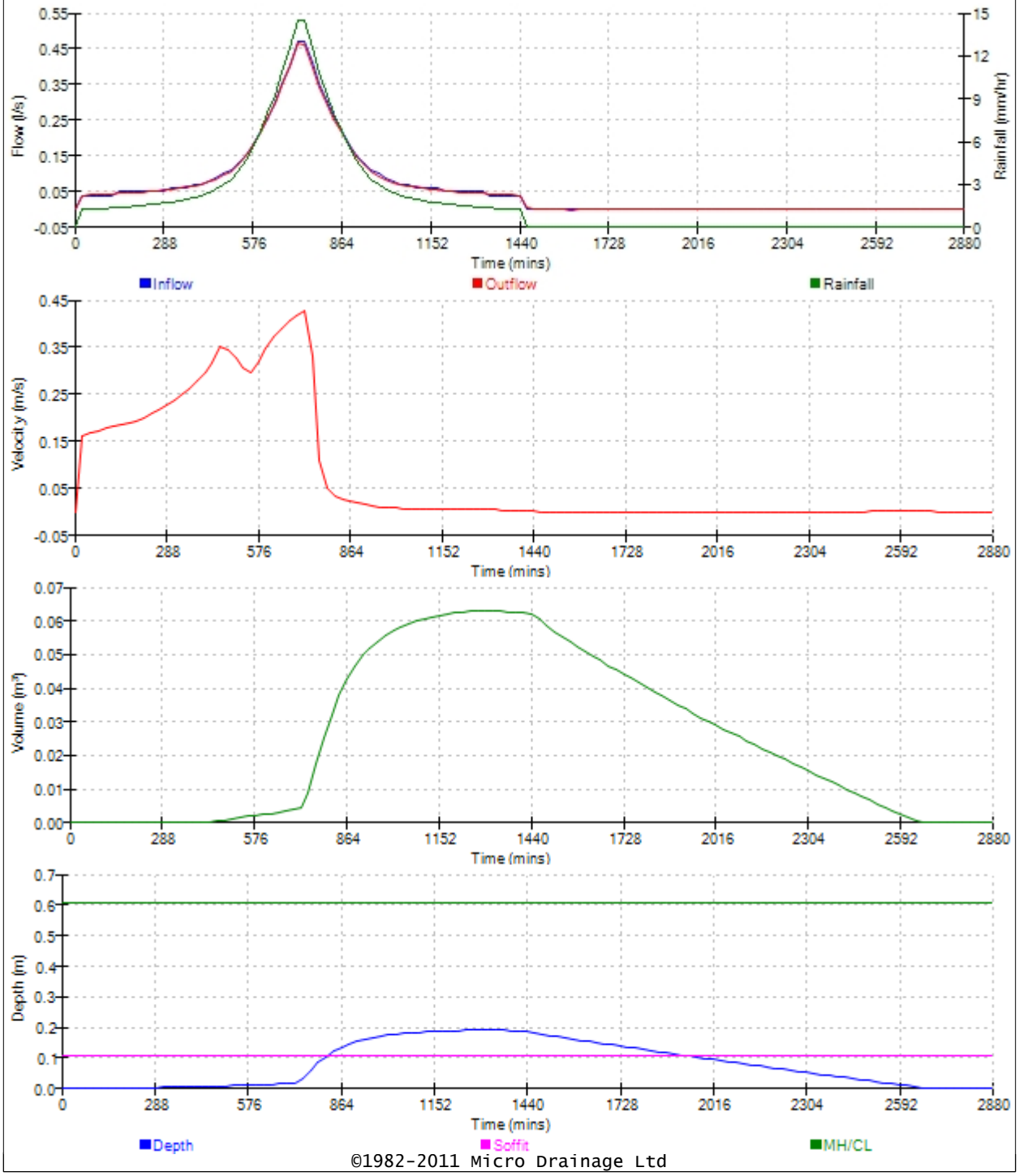
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Summer
Status: OK



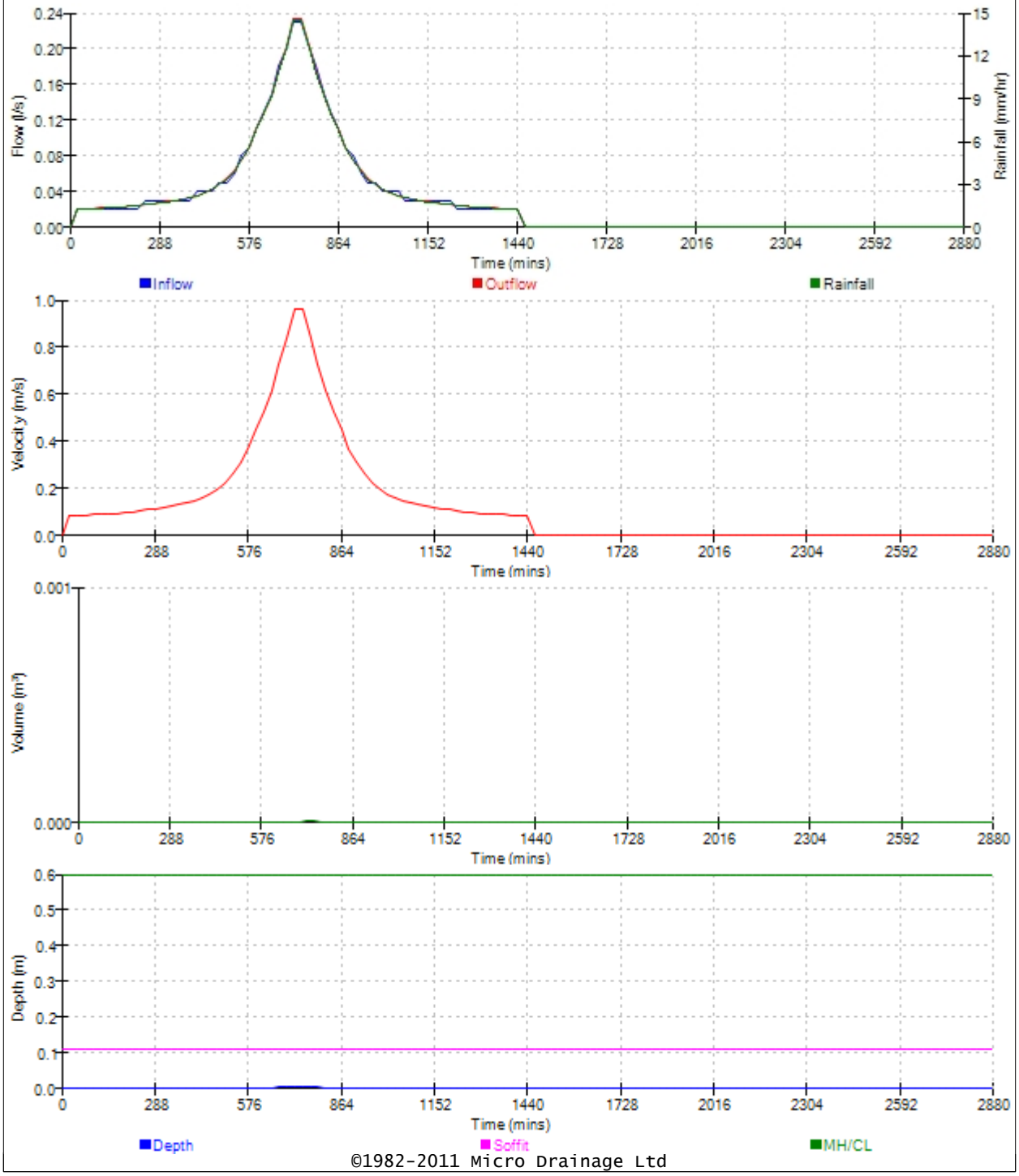
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Graphs for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Summer
Status: SURCHARGED



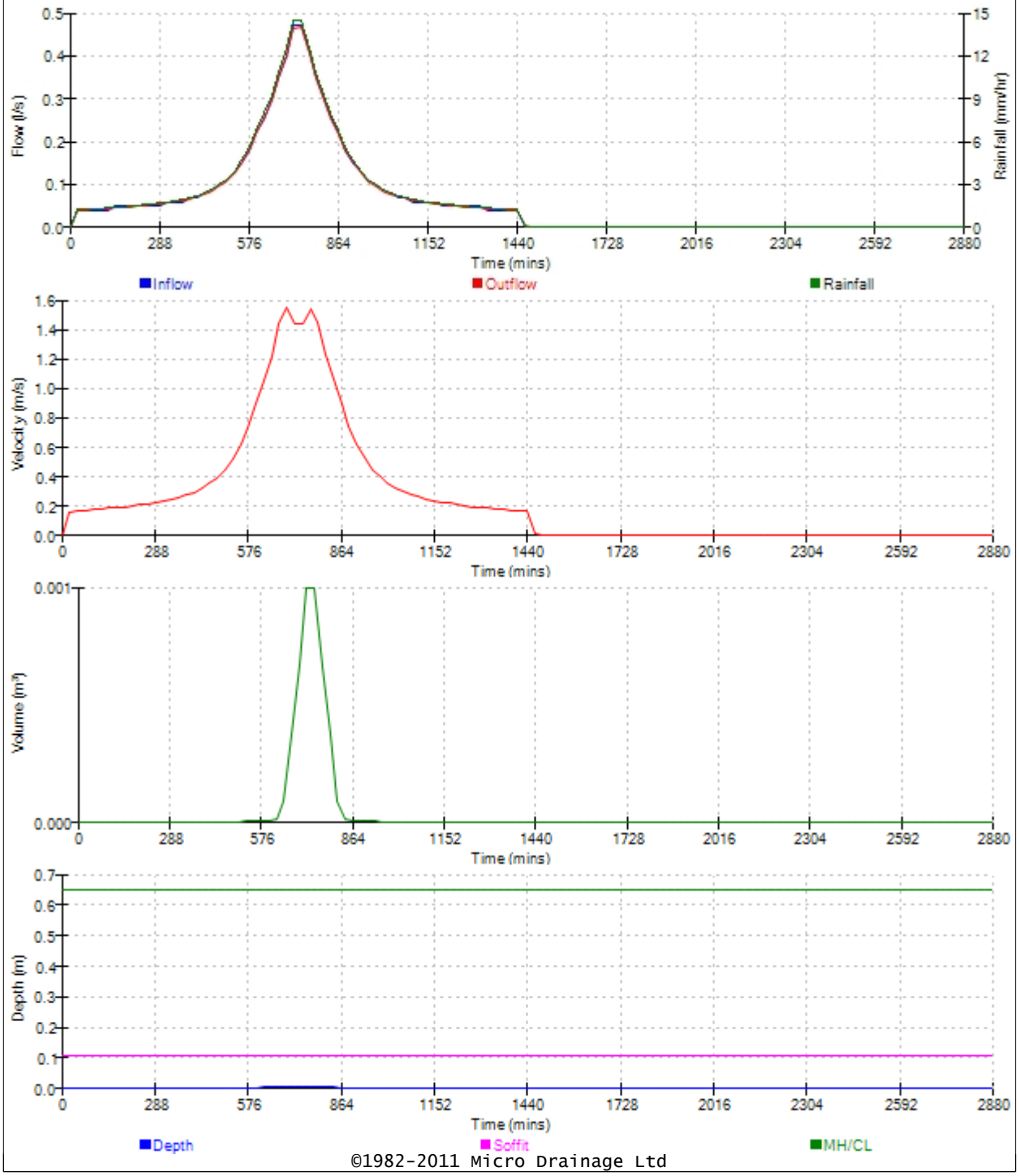
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Summer
Status: OK



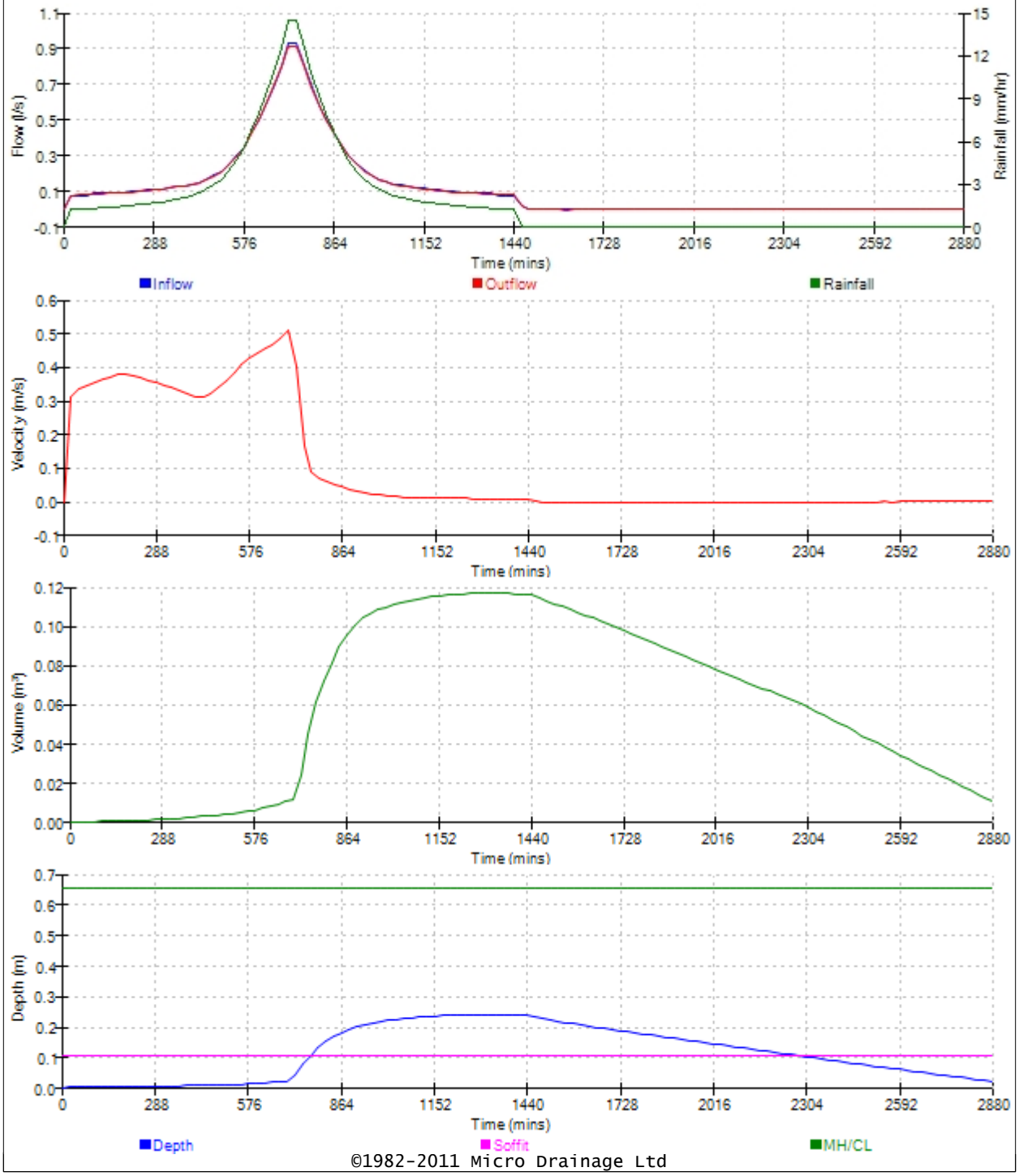
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Graphs for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Summer
Status: OK



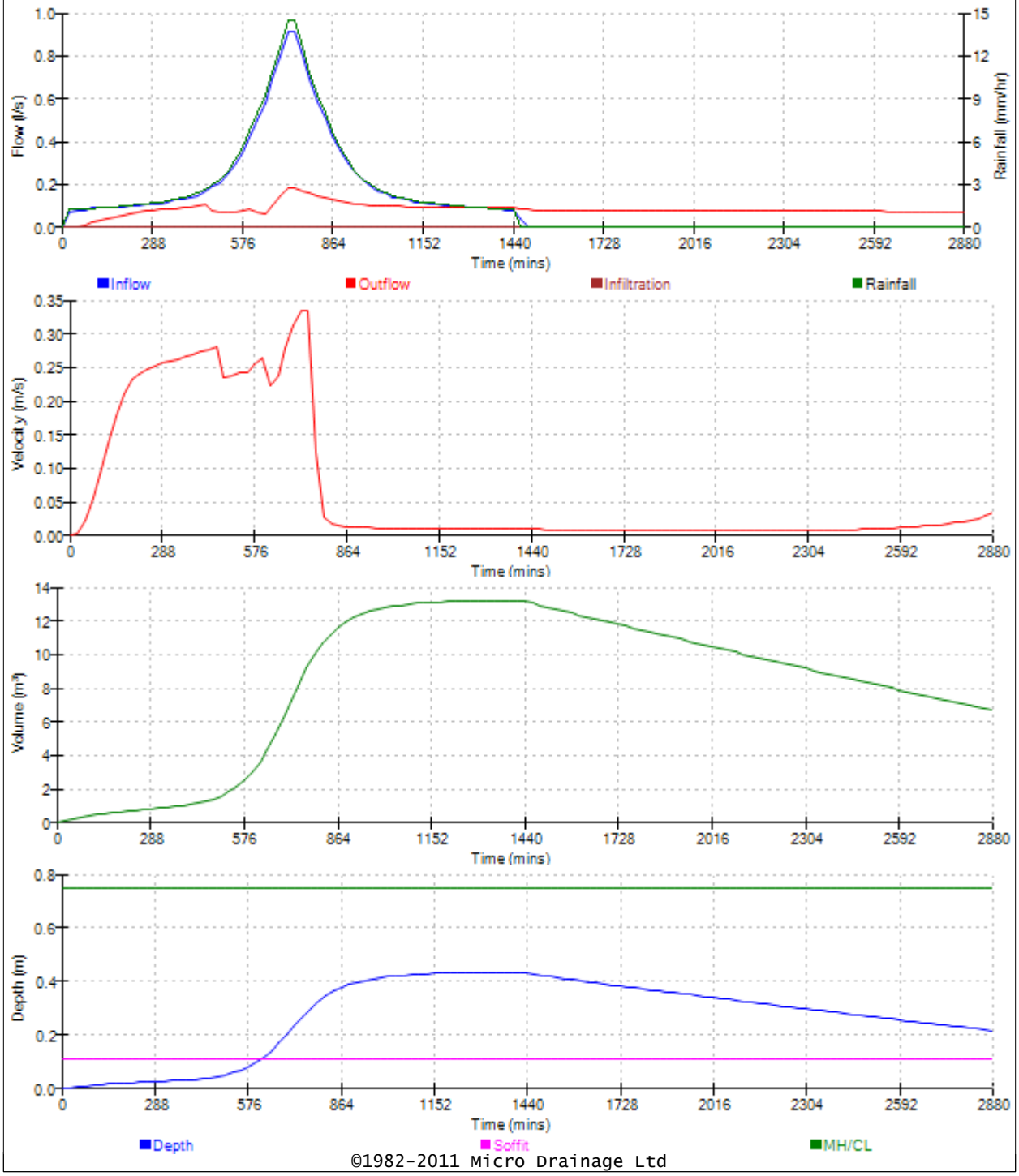
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Graphs for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Summer
Status: SURCHARGED



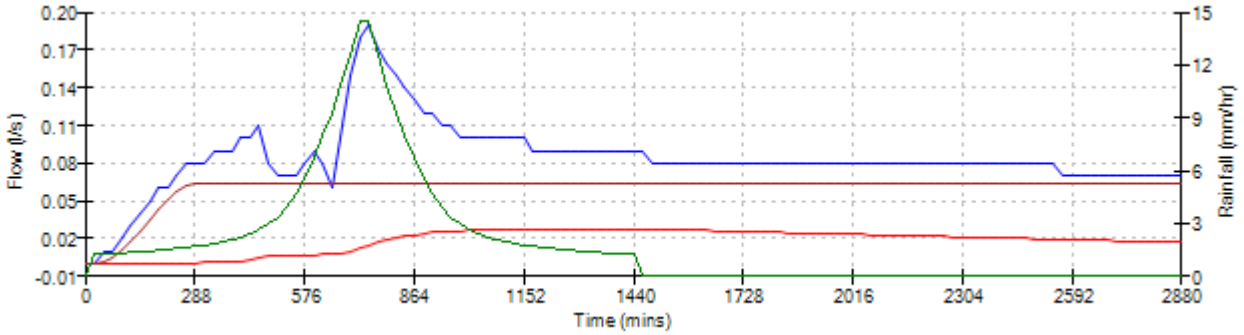
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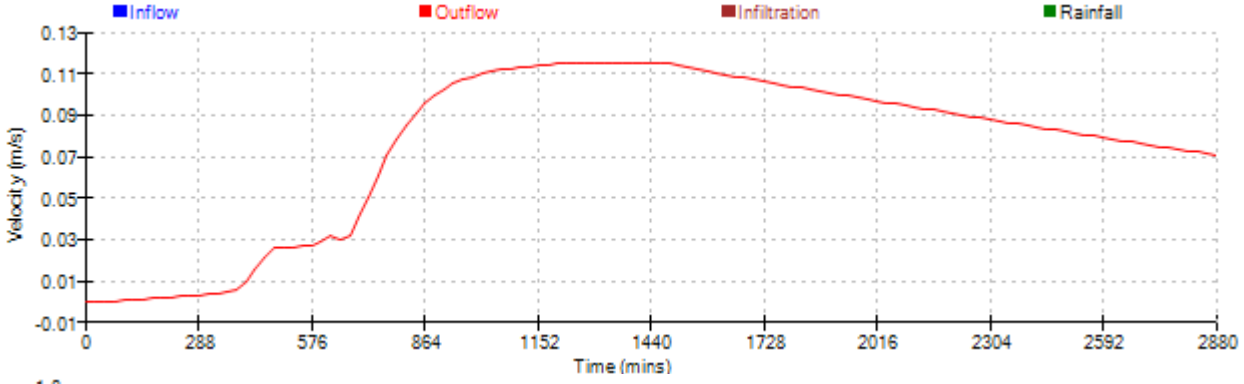
Graphs for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Summer
Status: SURCHARGED

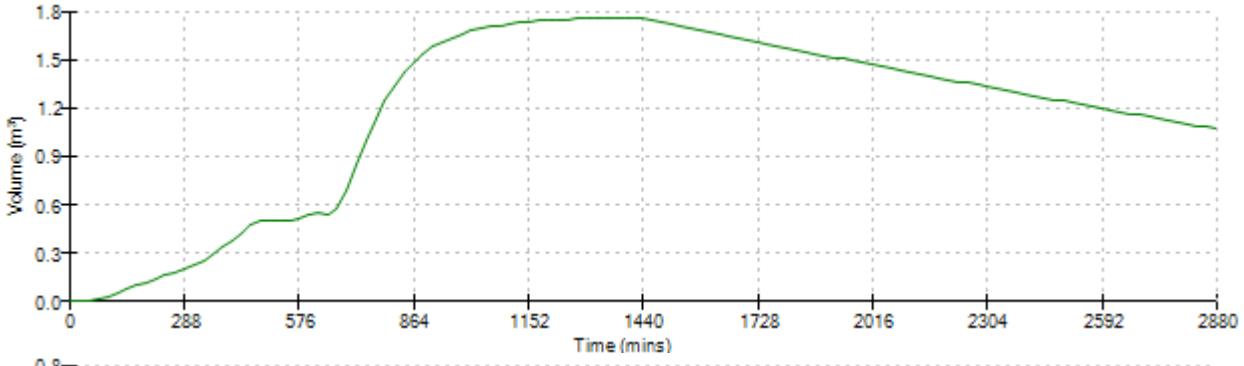


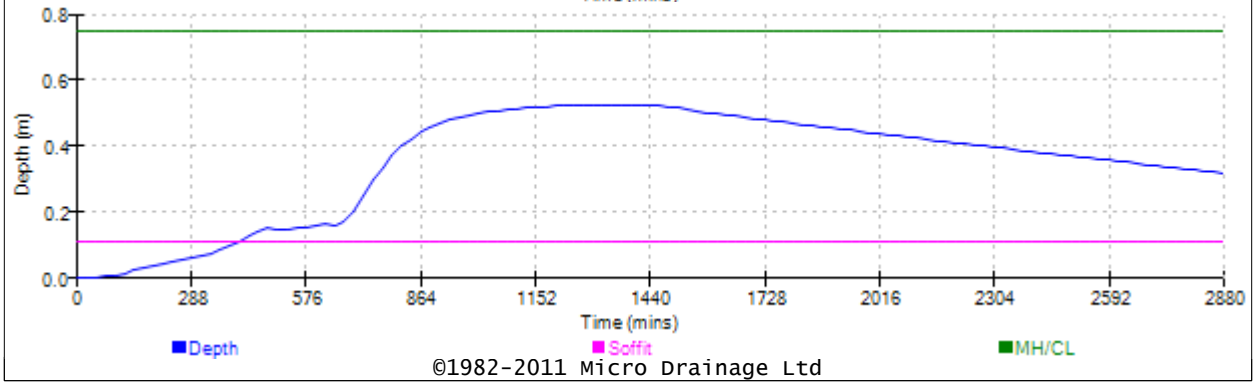
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.497	-0.110	0.0	0.1	0.0
48	65.400	63.497	-0.110	0.0	0.1	0.0
72	65.400	63.497	-0.110	0.0	0.1	0.0
96	65.400	63.497	-0.110	0.0	0.1	0.0
120	65.400	63.498	-0.110	0.0	0.1	0.0
144	65.400	63.498	-0.110	0.0	0.1	0.0
168	65.400	63.498	-0.110	0.0	0.1	0.0
192	65.400	63.498	-0.110	0.0	0.1	0.0
216	65.400	63.498	-0.110	0.0	0.1	0.0
240	65.401	63.498	-0.109	0.0	0.1	0.0
264	65.401	63.498	-0.109	0.0	0.1	0.0
288	65.401	63.498	-0.109	0.0	0.1	0.0
312	65.401	63.499	-0.109	0.0	0.1	0.0
336	65.401	63.499	-0.109	0.0	0.1	0.0
360	65.401	63.499	-0.109	0.0	0.1	0.0
384	65.401	63.499	-0.109	0.0	0.1	0.0
408	65.401	63.500	-0.109	0.0	0.1	0.0
432	65.401	63.500	-0.109	0.0	0.2	0.0
456	65.401	63.501	-0.109	0.0	0.2	0.0
480	65.401	63.502	-0.109	0.0	0.2	0.0
504	65.401	63.503	-0.109	0.0	0.2	0.1
528	65.401	63.504	-0.109	0.0	0.3	0.1
552	65.402	63.505	-0.108	0.0	0.3	0.1
576	65.402	63.506	-0.108	0.0	0.4	0.1
600	65.402	63.507	-0.108	0.0	0.5	0.1
624	65.403	63.508	-0.107	0.0	0.5	0.1
648	65.403	63.509	-0.107	0.0	0.6	0.1
672	65.404	63.510	-0.106	0.0	0.7	0.2
696	65.404	63.512	-0.106	0.0	0.8	0.2
720	65.405	63.513	-0.105	0.0	1.0	0.2
744	65.405	63.526	-0.105	0.0	1.0	0.2
768	65.404	63.555	-0.106	0.0	0.8	0.2
792	65.404	63.579	-0.106	0.0	0.7	0.2
816	65.403	63.599	-0.107	0.0	0.6	0.1
840	65.403	63.616	-0.107	0.0	0.5	0.1
864	65.402	63.630	-0.108	0.0	0.5	0.1
888	65.402	63.640	-0.108	0.0	0.4	0.1
912	65.402	63.649	-0.108	0.0	0.3	0.1
936	65.401	63.655	-0.109	0.0	0.3	0.1
960	65.401	63.660	-0.109	0.0	0.2	0.1
984	65.401	63.665	-0.109	0.0	0.2	0.0
1008	65.401	63.669	-0.109	0.0	0.2	0.0
1032	65.401	63.672	-0.109	0.0	0.2	0.0
1056	65.401	63.674	-0.109	0.0	0.1	0.0
1080	65.401	63.677	-0.109	0.0	0.1	0.0
1104	65.401	63.679	-0.109	0.0	0.1	0.0
1128	65.401	63.680	-0.109	0.0	0.1	0.0
1152	65.401	63.681	-0.109	0.0	0.1	0.0
1176	65.401	63.683	-0.109	0.0	0.1	0.0
1200	65.401	63.683	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	63.684	-0.109	0.0	0.1	0.0
1248	65.400	63.685	-0.110	0.0	0.1	0.0
1272	65.400	63.685	-0.110	0.0	0.1	0.0
1296	65.400	63.685	-0.110	0.0	0.1	0.0
1320	65.400	63.685	-0.110	0.0	0.1	0.0
1344	65.400	63.685	-0.110	0.0	0.1	0.0
1368	65.400	63.684	-0.110	0.0	0.1	0.0
1392	65.400	63.684	-0.110	0.0	0.1	0.0
1416	65.400	63.684	-0.110	0.0	0.1	0.0
1440	65.400	63.683	-0.110	0.0	0.1	0.0
1464	65.400	63.679	-0.110	0.0	0.0	0.0
1488	65.400	63.673	-0.110	0.0	0.0	0.0
1512	65.400	63.668	-0.110	0.0	0.0	0.0
1536	65.400	63.664	-0.110	0.0	0.0	0.0
1560	65.400	63.660	-0.110	0.0	0.0	0.0
1584	65.400	63.656	-0.110	0.0	0.0	0.0
1608	65.400	63.651	-0.110	0.0	0.0	0.0
1632	65.400	63.648	-0.110	0.0	0.0	0.0
1656	65.400	63.645	-0.110	0.0	0.0	0.0
1680	65.400	63.640	-0.110	0.0	0.0	0.0
1704	65.400	63.637	-0.110	0.0	0.0	0.0
1728	65.400	63.633	-0.110	0.0	0.0	0.0
1752	65.400	63.630	-0.110	0.0	0.0	0.0
1776	65.400	63.626	-0.110	0.0	0.0	0.0
1800	65.400	63.623	-0.110	0.0	0.0	0.0
1824	65.400	63.619	-0.110	0.0	0.0	0.0
1848	65.400	63.615	-0.110	0.0	0.0	0.0
1872	65.400	63.612	-0.110	0.0	0.0	0.0
1896	65.400	63.608	-0.110	0.0	0.0	0.0
1920	65.400	63.604	-0.110	0.0	0.0	0.0
1944	65.400	63.600	-0.110	0.0	0.0	0.0
1968	65.400	63.597	-0.110	0.0	0.0	0.0
1992	65.400	63.594	-0.110	0.0	0.0	0.0
2016	65.400	63.590	-0.110	0.0	0.0	0.0
2040	65.400	63.587	-0.110	0.0	0.0	0.0
2064	65.400	63.583	-0.110	0.0	0.0	0.0
2088	65.400	63.579	-0.110	0.0	0.0	0.0
2112	65.400	63.576	-0.110	0.0	0.0	0.0
2136	65.400	63.572	-0.110	0.0	0.0	0.0
2160	65.400	63.569	-0.110	0.0	0.0	0.0
2184	65.400	63.565	-0.110	0.0	0.0	0.0
2208	65.400	63.562	-0.110	0.0	0.0	0.0
2232	65.400	63.558	-0.110	0.0	0.0	0.0
2256	65.400	63.555	-0.110	0.0	0.0	0.0
2280	65.400	63.552	-0.110	0.0	0.0	0.0
2304	65.400	63.548	-0.110	0.0	0.0	0.0
2328	65.400	63.544	-0.110	0.0	0.0	0.0
2352	65.400	63.541	-0.110	0.0	0.0	0.0
2376	65.400	63.538	-0.110	0.0	0.0	0.0
2400	65.400	63.534	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.530	-0.110	0.0	0.0	0.0
2448	65.400	63.527	-0.110	0.0	0.0	0.0
2472	65.400	63.524	-0.110	0.0	0.0	0.0
2496	65.400	63.520	-0.110	0.0	0.0	0.0
2520	65.400	63.517	-0.110	0.0	0.0	0.0
2544	65.400	63.514	-0.110	0.0	0.0	0.0
2568	65.400	63.510	-0.110	0.0	0.0	0.0
2592	65.400	63.507	-0.110	0.0	0.0	0.0
2616	65.400	63.504	-0.110	0.0	0.0	0.0
2640	65.400	63.501	-0.110	0.0	0.0	0.0
2664	65.400	63.497	-0.110	0.0	0.0	0.0
2688	65.400	63.494	-0.110	0.0	0.0	0.0
2712	65.400	63.494	-0.110	0.0	0.0	0.0
2736	65.400	63.494	-0.110	0.0	0.0	0.0
2760	65.400	63.494	-0.110	0.0	0.0	0.0
2784	65.400	63.494	-0.110	0.0	0.0	0.0
2808	65.400	63.494	-0.110	0.0	0.0	0.0
2832	65.400	63.494	-0.110	0.0	0.0	0.0
2856	65.400	63.494	-0.110	0.0	0.0	0.0
2880	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.497	63.450	-0.107	0.0	0.2	0.0
48	63.497	63.450	-0.107	0.0	0.2	0.0
72	63.497	63.450	-0.107	0.0	0.2	0.0
96	63.497	63.450	-0.107	0.0	0.2	0.0
120	63.498	63.451	-0.107	0.0	0.2	0.0
144	63.498	63.451	-0.106	0.0	0.2	0.0
168	63.498	63.451	-0.106	0.0	0.2	0.0
192	63.498	63.451	-0.106	0.0	0.2	0.0
216	63.498	63.451	-0.106	0.0	0.2	0.0
240	63.498	63.452	-0.106	0.0	0.2	0.1
264	63.498	63.452	-0.106	0.0	0.2	0.1
288	63.498	63.452	-0.106	0.0	0.2	0.1
312	63.499	63.453	-0.106	0.0	0.2	0.1
336	63.499	63.453	-0.105	0.0	0.2	0.1
360	63.499	63.453	-0.105	0.0	0.3	0.1
384	63.499	63.454	-0.105	0.0	0.3	0.1
408	63.500	63.455	-0.104	0.0	0.3	0.1
432	63.500	63.455	-0.104	0.0	0.3	0.1
456	63.501	63.456	-0.103	0.0	0.4	0.1
480	63.502	63.456	-0.103	0.0	0.3	0.1
504	63.503	63.457	-0.102	0.0	0.3	0.1
528	63.504	63.457	-0.100	0.0	0.3	0.1
552	63.505	63.459	-0.099	0.0	0.3	0.2
576	63.506	63.460	-0.098	0.0	0.3	0.2
600	63.507	63.462	-0.097	0.0	0.3	0.2
624	63.508	63.463	-0.096	0.0	0.4	0.3
648	63.509	63.465	-0.095	0.0	0.4	0.3
672	63.510	63.467	-0.094	0.0	0.4	0.3
696	63.512	63.469	-0.093	0.0	0.4	0.4
720	63.513	63.490	-0.091	0.0	0.4	0.5
744	63.526	63.524	-0.078	0.0	0.3	0.5
768	63.555	63.553	-0.050	0.0	0.1	0.4
792	63.579	63.578	-0.025	0.0	0.1	0.3
816	63.599	63.598	-0.005	0.0	0.0	0.3
840	63.616	63.615	0.012	0.0	0.0	0.3
864	63.630	63.629	0.026	0.0	0.0	0.2
888	63.640	63.640	0.036	0.0	0.0	0.2
912	63.649	63.648	0.045	0.0	0.0	0.1
936	63.655	63.654	0.051	0.0	0.0	0.1
960	63.660	63.660	0.056	0.0	0.0	0.1
984	63.665	63.664	0.061	0.0	0.0	0.1
1008	63.669	63.668	0.065	0.0	0.0	0.1
1032	63.672	63.671	0.067	0.0	0.0	0.1
1056	63.674	63.674	0.070	0.0	0.0	0.1
1080	63.677	63.676	0.072	0.0	0.0	0.1
1104	63.679	63.678	0.074	0.0	0.0	0.1
1128	63.680	63.680	0.076	0.0	0.0	0.1
1152	63.681	63.681	0.077	0.0	0.0	0.1
1176	63.683	63.682	0.078	0.0	0.0	0.1
1200	63.683	63.683	0.079	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.684	63.684	0.080	0.0	0.0	0.1
1248	63.685	63.684	0.080	0.0	0.0	0.0
1272	63.685	63.685	0.081	0.0	0.0	0.0
1296	63.685	63.685	0.081	0.0	0.0	0.0
1320	63.685	63.685	0.081	0.0	0.0	0.0
1344	63.685	63.685	0.081	0.0	0.0	0.0
1368	63.684	63.684	0.080	0.0	0.0	0.0
1392	63.684	63.684	0.080	0.0	0.0	0.0
1416	63.684	63.683	0.079	0.0	0.0	0.0
1440	63.683	63.683	0.079	0.0	0.0	0.0
1464	63.679	63.679	0.075	0.0	0.0	0.0
1488	63.673	63.673	0.069	0.0	0.0	0.0
1512	63.668	63.669	0.064	0.0	0.0	0.0
1536	63.664	63.665	0.060	0.0	0.0	0.0
1560	63.660	63.660	0.056	0.0	0.0	0.0
1584	63.656	63.656	0.052	0.0	0.0	0.0
1608	63.651	63.652	0.047	0.0	0.0	0.0
1632	63.648	63.648	0.044	0.0	0.0	0.0
1656	63.645	63.644	0.040	0.0	0.0	0.0
1680	63.640	63.641	0.036	0.0	0.0	0.0
1704	63.637	63.637	0.033	0.0	0.0	0.0
1728	63.633	63.633	0.029	0.0	0.0	0.0
1752	63.630	63.630	0.026	0.0	0.0	0.0
1776	63.626	63.626	0.022	0.0	0.0	0.0
1800	63.623	63.623	0.019	0.0	0.0	0.0
1824	63.619	63.619	0.015	0.0	0.0	0.0
1848	63.615	63.615	0.011	0.0	0.0	0.0
1872	63.612	63.612	0.007	0.0	0.0	0.0
1896	63.608	63.608	0.004	0.0	0.0	0.0
1920	63.604	63.605	0.000	0.0	0.0	0.0
1944	63.600	63.601	-0.004	0.0	0.0	0.0
1968	63.597	63.597	-0.007	0.0	0.0	0.0
1992	63.594	63.594	-0.011	0.0	0.0	0.0
2016	63.590	63.590	-0.014	0.0	0.0	0.0
2040	63.587	63.587	-0.018	0.0	0.0	0.0
2064	63.583	63.583	-0.021	0.0	0.0	0.0
2088	63.579	63.580	-0.025	0.0	0.0	0.0
2112	63.576	63.576	-0.028	0.0	0.0	0.0
2136	63.572	63.572	-0.032	0.0	0.0	0.0
2160	63.569	63.569	-0.036	0.0	0.0	0.0
2184	63.565	63.565	-0.039	0.0	0.0	0.0
2208	63.562	63.562	-0.043	0.0	0.0	0.0
2232	63.558	63.558	-0.046	0.0	0.0	0.0
2256	63.555	63.555	-0.049	0.0	0.0	0.0
2280	63.552	63.552	-0.053	0.0	0.0	0.0
2304	63.548	63.548	-0.056	0.0	0.0	0.0
2328	63.544	63.544	-0.060	0.0	0.0	0.0
2352	63.541	63.541	-0.063	0.0	0.0	0.0
2376	63.538	63.538	-0.067	0.0	0.0	0.0
2400	63.534	63.534	-0.070	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.530	63.531	-0.074	0.0	0.0	0.0
2448	63.527	63.527	-0.077	0.0	0.0	0.0
2472	63.524	63.524	-0.080	0.0	0.0	0.0
2496	63.520	63.521	-0.084	0.0	0.0	0.0
2520	63.517	63.517	-0.087	0.0	0.0	0.0
2544	63.514	63.514	-0.090	0.0	0.0	0.0
2568	63.510	63.510	-0.094	0.0	0.0	0.0
2592	63.507	63.507	-0.097	0.0	0.0	0.0
2616	63.504	63.504	-0.100	0.0	0.0	0.0
2640	63.501	63.500	-0.103	0.0	0.0	0.0
2664	63.497	63.497	-0.107	0.0	0.0	0.0
2688	63.494	63.494	-0.110	0.0	0.0	0.0
2712	63.494	63.490	-0.110	0.0	0.0	0.0
2736	63.494	63.487	-0.110	0.0	0.0	0.0
2760	63.494	63.484	-0.110	0.0	0.0	0.0
2784	63.494	63.480	-0.110	0.0	0.0	0.0
2808	63.494	63.477	-0.110	0.0	0.0	0.0
2832	63.494	63.474	-0.110	0.0	0.0	0.0
2856	63.494	63.470	-0.110	0.0	0.0	0.0
2880	63.494	63.467	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.401	65.001	-0.109	0.0	0.1	0.0
48	65.401	65.001	-0.109	0.0	0.1	0.0
72	65.401	65.001	-0.109	0.0	0.1	0.0
96	65.401	65.001	-0.109	0.0	0.1	0.0
120	65.401	65.001	-0.109	0.0	0.1	0.0
144	65.401	65.001	-0.109	0.0	0.1	0.0
168	65.401	65.001	-0.109	0.0	0.1	0.0
192	65.401	65.001	-0.109	0.0	0.1	0.0
216	65.401	65.001	-0.109	0.0	0.1	0.0
240	65.401	65.001	-0.109	0.0	0.1	0.0
264	65.401	65.001	-0.109	0.0	0.1	0.0
288	65.401	65.001	-0.109	0.0	0.1	0.0
312	65.401	65.001	-0.109	0.0	0.1	0.0
336	65.401	65.001	-0.109	0.0	0.1	0.0
360	65.401	65.001	-0.109	0.0	0.1	0.0
384	65.401	65.001	-0.109	0.0	0.1	0.0
408	65.401	65.001	-0.109	0.0	0.1	0.0
432	65.401	65.001	-0.109	0.0	0.2	0.0
456	65.401	65.002	-0.109	0.0	0.2	0.0
480	65.401	65.002	-0.109	0.0	0.2	0.0
504	65.401	65.002	-0.109	0.0	0.2	0.1
528	65.402	65.002	-0.108	0.0	0.3	0.1
552	65.402	65.003	-0.108	0.0	0.3	0.1
576	65.402	65.003	-0.108	0.0	0.4	0.1
600	65.403	65.004	-0.107	0.0	0.5	0.1
624	65.403	65.005	-0.107	0.0	0.5	0.1
648	65.404	65.005	-0.106	0.0	0.6	0.1
672	65.404	65.006	-0.106	0.0	0.7	0.2
696	65.405	65.007	-0.105	0.0	0.8	0.2
720	65.406	65.008	-0.104	0.0	1.0	0.2
744	65.406	65.008	-0.104	0.0	1.0	0.2
768	65.405	65.007	-0.105	0.0	0.8	0.2
792	65.404	65.006	-0.106	0.0	0.7	0.2
816	65.404	65.005	-0.106	0.0	0.6	0.1
840	65.403	65.005	-0.107	0.0	0.5	0.1
864	65.403	65.004	-0.107	0.0	0.5	0.1
888	65.402	65.003	-0.108	0.0	0.4	0.1
912	65.402	65.003	-0.108	0.0	0.3	0.1
936	65.402	65.002	-0.108	0.0	0.3	0.1
960	65.401	65.002	-0.109	0.0	0.2	0.1
984	65.401	65.002	-0.109	0.0	0.2	0.0
1008	65.401	65.002	-0.109	0.0	0.2	0.0
1032	65.401	65.001	-0.109	0.0	0.2	0.0
1056	65.401	65.001	-0.109	0.0	0.1	0.0
1080	65.401	65.001	-0.109	0.0	0.1	0.0
1104	65.401	65.001	-0.109	0.0	0.1	0.0
1128	65.401	65.001	-0.109	0.0	0.1	0.0
1152	65.401	65.001	-0.109	0.0	0.1	0.0
1176	65.401	65.001	-0.109	0.0	0.1	0.0
1200	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	65.001	-0.109	0.0	0.1	0.0
1248	65.401	65.001	-0.109	0.0	0.1	0.0
1272	65.401	65.001	-0.109	0.0	0.1	0.0
1296	65.401	65.001	-0.109	0.0	0.1	0.0
1320	65.401	65.001	-0.109	0.0	0.1	0.0
1344	65.401	65.001	-0.109	0.0	0.1	0.0
1368	65.401	65.001	-0.109	0.0	0.1	0.0
1392	65.401	65.001	-0.109	0.0	0.1	0.0
1416	65.401	65.001	-0.109	0.0	0.1	0.0
1440	65.400	65.001	-0.110	0.0	0.1	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.001	63.450	-0.109	0.0	0.2	0.0
48	65.001	63.450	-0.109	0.0	0.2	0.0
72	65.001	63.450	-0.109	0.0	0.2	0.0
96	65.001	63.450	-0.109	0.0	0.2	0.0
120	65.001	63.451	-0.109	0.0	0.2	0.0
144	65.001	63.451	-0.109	0.0	0.2	0.0
168	65.001	63.451	-0.109	0.0	0.2	0.0
192	65.001	63.451	-0.109	0.0	0.2	0.0
216	65.001	63.451	-0.109	0.0	0.2	0.0
240	65.001	63.452	-0.109	0.0	0.2	0.1
264	65.001	63.452	-0.109	0.0	0.2	0.1
288	65.001	63.452	-0.109	0.0	0.2	0.1
312	65.001	63.453	-0.109	0.0	0.2	0.1
336	65.001	63.453	-0.109	0.0	0.2	0.1
360	65.001	63.453	-0.109	0.0	0.3	0.1
384	65.001	63.454	-0.109	0.0	0.3	0.1
408	65.001	63.455	-0.109	0.0	0.3	0.1
432	65.001	63.455	-0.109	0.0	0.3	0.1
456	65.002	63.456	-0.108	0.0	0.4	0.1
480	65.002	63.456	-0.108	0.0	0.4	0.1
504	65.002	63.457	-0.108	0.0	0.4	0.1
528	65.002	63.457	-0.108	0.0	0.5	0.1
552	65.003	63.459	-0.107	0.0	0.6	0.2
576	65.003	63.460	-0.107	0.0	0.7	0.2
600	65.004	63.462	-0.106	0.0	0.9	0.2
624	65.005	63.463	-0.105	0.0	1.1	0.3
648	65.005	63.465	-0.105	0.0	1.2	0.3
672	65.006	63.467	-0.104	0.0	1.4	0.3
696	65.007	63.469	-0.103	0.0	1.5	0.4
720	65.008	63.490	-0.102	0.0	1.4	0.5
744	65.008	63.524	-0.102	0.0	1.4	0.5
768	65.007	63.553	-0.103	0.0	1.5	0.4
792	65.006	63.578	-0.104	0.0	1.5	0.4
816	65.005	63.598	-0.105	0.0	1.2	0.3
840	65.005	63.615	-0.105	0.0	1.1	0.3
864	65.004	63.629	-0.106	0.0	0.9	0.2
888	65.003	63.640	-0.107	0.0	0.7	0.2
912	65.003	63.648	-0.107	0.0	0.6	0.2
936	65.002	63.654	-0.108	0.0	0.5	0.1
960	65.002	63.660	-0.108	0.0	0.5	0.1
984	65.002	63.664	-0.108	0.0	0.4	0.1
1008	65.002	63.668	-0.108	0.0	0.4	0.1
1032	65.001	63.671	-0.109	0.0	0.3	0.1
1056	65.001	63.674	-0.109	0.0	0.3	0.1
1080	65.001	63.676	-0.109	0.0	0.3	0.1
1104	65.001	63.678	-0.109	0.0	0.3	0.1
1128	65.001	63.680	-0.109	0.0	0.3	0.1
1152	65.001	63.681	-0.109	0.0	0.2	0.1
1176	65.001	63.682	-0.109	0.0	0.2	0.1
1200	65.001	63.683	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.001	63.684	-0.109	0.0	0.2	0.1
1248	65.001	63.684	-0.109	0.0	0.2	0.0
1272	65.001	63.685	-0.109	0.0	0.2	0.0
1296	65.001	63.685	-0.109	0.0	0.2	0.0
1320	65.001	63.685	-0.109	0.0	0.2	0.0
1344	65.001	63.685	-0.109	0.0	0.2	0.0
1368	65.001	63.684	-0.109	0.0	0.2	0.0
1392	65.001	63.684	-0.109	0.0	0.2	0.0
1416	65.001	63.683	-0.109	0.0	0.2	0.0
1440	65.001	63.683	-0.109	0.0	0.2	0.0
1464	65.000	63.679	-0.110	0.0	0.0	0.0
1488	65.000	63.673	-0.110	0.0	0.0	0.0
1512	65.000	63.669	-0.110	0.0	0.0	0.0
1536	65.000	63.665	-0.110	0.0	0.0	0.0
1560	65.000	63.660	-0.110	0.0	0.0	0.0
1584	65.000	63.656	-0.110	0.0	0.0	0.0
1608	65.000	63.652	-0.110	0.0	0.0	0.0
1632	65.000	63.648	-0.110	0.0	0.0	0.0
1656	65.000	63.644	-0.110	0.0	0.0	0.0
1680	65.000	63.641	-0.110	0.0	0.0	0.0
1704	65.000	63.637	-0.110	0.0	0.0	0.0
1728	65.000	63.633	-0.110	0.0	0.0	0.0
1752	65.000	63.630	-0.110	0.0	0.0	0.0
1776	65.000	63.626	-0.110	0.0	0.0	0.0
1800	65.000	63.623	-0.110	0.0	0.0	0.0
1824	65.000	63.619	-0.110	0.0	0.0	0.0
1848	65.000	63.615	-0.110	0.0	0.0	0.0
1872	65.000	63.612	-0.110	0.0	0.0	0.0
1896	65.000	63.608	-0.110	0.0	0.0	0.0
1920	65.000	63.605	-0.110	0.0	0.0	0.0
1944	65.000	63.601	-0.110	0.0	0.0	0.0
1968	65.000	63.597	-0.110	0.0	0.0	0.0
1992	65.000	63.594	-0.110	0.0	0.0	0.0
2016	65.000	63.590	-0.110	0.0	0.0	0.0
2040	65.000	63.587	-0.110	0.0	0.0	0.0
2064	65.000	63.583	-0.110	0.0	0.0	0.0
2088	65.000	63.580	-0.110	0.0	0.0	0.0
2112	65.000	63.576	-0.110	0.0	0.0	0.0
2136	65.000	63.572	-0.110	0.0	0.0	0.0
2160	65.000	63.569	-0.110	0.0	0.0	0.0
2184	65.000	63.565	-0.110	0.0	0.0	0.0
2208	65.000	63.562	-0.110	0.0	0.0	0.0
2232	65.000	63.558	-0.110	0.0	0.0	0.0
2256	65.000	63.555	-0.110	0.0	0.0	0.0
2280	65.000	63.552	-0.110	0.0	0.0	0.0
2304	65.000	63.548	-0.110	0.0	0.0	0.0
2328	65.000	63.544	-0.110	0.0	0.0	0.0
2352	65.000	63.541	-0.110	0.0	0.0	0.0
2376	65.000	63.538	-0.110	0.0	0.0	0.0
2400	65.000	63.534	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.531	-0.110	0.0	0.0	0.0
2448	65.000	63.527	-0.110	0.0	0.0	0.0
2472	65.000	63.524	-0.110	0.0	0.0	0.0
2496	65.000	63.521	-0.110	0.0	0.0	0.0
2520	65.000	63.517	-0.110	0.0	0.0	0.0
2544	65.000	63.514	-0.110	0.0	0.0	0.0
2568	65.000	63.510	-0.110	0.0	0.0	0.0
2592	65.000	63.507	-0.110	0.0	0.0	0.0
2616	65.000	63.504	-0.110	0.0	0.0	0.0
2640	65.000	63.500	-0.110	0.0	0.0	0.0
2664	65.000	63.497	-0.110	0.0	0.0	0.0
2688	65.000	63.494	-0.110	0.0	0.0	0.0
2712	65.000	63.490	-0.110	0.0	0.0	0.0
2736	65.000	63.487	-0.110	0.0	0.0	0.0
2760	65.000	63.484	-0.110	0.0	0.0	0.0
2784	65.000	63.480	-0.110	0.0	0.0	0.0
2808	65.000	63.477	-0.110	0.0	0.0	0.0
2832	65.000	63.474	-0.110	0.0	0.0	0.0
2856	65.000	63.470	-0.110	0.0	0.0	0.0
2880	65.000	63.467	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.450	63.253	-0.104	0.0	0.3	0.1
48	63.450	63.257	-0.104	0.0	0.3	0.1
72	63.450	63.260	-0.104	0.0	0.3	0.1
96	63.450	63.263	-0.104	0.0	0.4	0.1
120	63.451	63.265	-0.104	0.0	0.4	0.1
144	63.451	63.268	-0.103	0.0	0.4	0.1
168	63.451	63.269	-0.103	0.0	0.4	0.1
192	63.451	63.271	-0.103	0.0	0.4	0.1
216	63.451	63.273	-0.103	0.0	0.4	0.1
240	63.452	63.274	-0.103	0.0	0.4	0.1
264	63.452	63.275	-0.102	0.0	0.4	0.1
288	63.452	63.277	-0.102	0.0	0.4	0.1
312	63.453	63.278	-0.102	0.0	0.3	0.1
336	63.453	63.280	-0.101	0.0	0.3	0.1
360	63.453	63.281	-0.101	0.0	0.3	0.1
384	63.454	63.283	-0.100	0.0	0.3	0.1
408	63.455	63.285	-0.100	0.0	0.3	0.1
432	63.455	63.288	-0.099	0.0	0.3	0.2
456	63.456	63.291	-0.099	0.0	0.3	0.2
480	63.456	63.296	-0.098	0.0	0.3	0.2
504	63.457	63.302	-0.097	0.0	0.4	0.2
528	63.457	63.310	-0.097	0.0	0.4	0.2
552	63.459	63.321	-0.096	0.0	0.4	0.3
576	63.460	63.333	-0.094	0.0	0.4	0.4
600	63.462	63.348	-0.092	0.0	0.4	0.4
624	63.463	63.368	-0.091	0.0	0.5	0.5
648	63.465	63.394	-0.089	0.0	0.5	0.6
672	63.467	63.422	-0.087	0.0	0.5	0.7
696	63.469	63.452	-0.085	0.0	0.5	0.8
720	63.490	63.487	-0.064	0.0	0.4	0.9
744	63.524	63.521	-0.030	0.0	0.2	0.9
768	63.553	63.550	-0.001	0.0	0.1	0.8
792	63.578	63.575	0.023	0.0	0.1	0.7
816	63.598	63.596	0.044	0.0	0.1	0.6
840	63.615	63.613	0.061	0.0	0.1	0.5
864	63.629	63.627	0.075	0.0	0.0	0.4
888	63.640	63.638	0.085	0.0	0.0	0.4
912	63.648	63.647	0.094	0.0	0.0	0.3
936	63.654	63.654	0.100	0.0	0.0	0.3
960	63.660	63.659	0.106	0.0	0.0	0.2
984	63.664	63.664	0.110	0.0	0.0	0.2
1008	63.668	63.668	0.114	0.0	0.0	0.2
1032	63.671	63.671	0.117	0.0	0.0	0.2
1056	63.674	63.673	0.120	0.0	0.0	0.1
1080	63.676	63.676	0.122	0.0	0.0	0.1
1104	63.678	63.678	0.124	0.0	0.0	0.1
1128	63.680	63.679	0.126	0.0	0.0	0.1
1152	63.681	63.681	0.127	0.0	0.0	0.1
1176	63.682	63.682	0.128	0.0	0.0	0.1
1200	63.683	63.683	0.129	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.684	63.684	0.130	0.0	0.0	0.1
1248	63.684	63.684	0.130	0.0	0.0	0.1
1272	63.685	63.684	0.131	0.0	0.0	0.1
1296	63.685	63.684	0.131	0.0	0.0	0.1
1320	63.685	63.684	0.131	0.0	0.0	0.1
1344	63.685	63.684	0.130	0.0	0.0	0.1
1368	63.684	63.684	0.130	0.0	0.0	0.1
1392	63.684	63.684	0.130	0.0	0.0	0.1
1416	63.683	63.683	0.129	0.0	0.0	0.1
1440	63.683	63.682	0.129	0.0	0.0	0.1
1464	63.679	63.679	0.125	0.0	0.0	0.0
1488	63.673	63.673	0.119	0.0	0.0	0.0
1512	63.669	63.669	0.114	0.0	0.0	0.0
1536	63.665	63.664	0.110	0.0	0.0	0.0
1560	63.660	63.660	0.106	0.0	0.0	0.0
1584	63.656	63.656	0.102	0.0	0.0	0.0
1608	63.652	63.652	0.097	0.0	0.0	0.0
1632	63.648	63.648	0.094	0.0	0.0	0.0
1656	63.644	63.645	0.090	0.0	0.0	0.0
1680	63.641	63.641	0.087	0.0	0.0	0.0
1704	63.637	63.637	0.083	0.0	0.0	0.0
1728	63.633	63.634	0.079	0.0	0.0	0.0
1752	63.630	63.630	0.076	0.0	0.0	0.0
1776	63.626	63.626	0.072	0.0	0.0	0.0
1800	63.623	63.623	0.068	0.0	0.0	0.0
1824	63.619	63.619	0.065	0.0	0.0	0.0
1848	63.615	63.615	0.061	0.0	0.0	0.0
1872	63.612	63.612	0.058	0.0	0.0	0.0
1896	63.608	63.608	0.054	0.0	0.0	0.0
1920	63.605	63.605	0.050	0.0	0.0	0.0
1944	63.601	63.601	0.046	0.0	0.0	0.0
1968	63.597	63.597	0.043	0.0	0.0	0.0
1992	63.594	63.594	0.040	0.0	0.0	0.0
2016	63.590	63.590	0.036	0.0	0.0	0.0
2040	63.587	63.587	0.033	0.0	0.0	0.0
2064	63.583	63.583	0.029	0.0	0.0	0.0
2088	63.580	63.580	0.026	0.0	0.0	0.0
2112	63.576	63.576	0.022	0.0	0.0	0.0
2136	63.572	63.572	0.018	0.0	0.0	0.0
2160	63.569	63.569	0.015	0.0	0.0	0.0
2184	63.565	63.565	0.011	0.0	0.0	0.0
2208	63.562	63.562	0.008	0.0	0.0	0.0
2232	63.558	63.558	0.004	0.0	0.0	0.0
2256	63.555	63.555	0.001	0.0	0.0	0.0
2280	63.552	63.551	-0.002	0.0	0.0	0.0
2304	63.548	63.548	-0.006	0.0	0.0	0.0
2328	63.544	63.545	-0.010	0.0	0.0	0.0
2352	63.541	63.541	-0.013	0.0	0.0	0.0
2376	63.538	63.538	-0.017	0.0	0.0	0.0
2400	63.534	63.534	-0.020	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.531	63.531	-0.023	0.0	0.0	0.0
2448	63.527	63.527	-0.027	0.0	0.0	0.0
2472	63.524	63.524	-0.030	0.0	0.0	0.0
2496	63.521	63.521	-0.034	0.0	0.0	0.0
2520	63.517	63.517	-0.037	0.0	0.0	0.0
2544	63.514	63.514	-0.040	0.0	0.0	0.0
2568	63.510	63.510	-0.044	0.0	0.0	0.0
2592	63.507	63.507	-0.047	0.0	0.0	0.0
2616	63.504	63.504	-0.051	0.0	0.0	0.0
2640	63.500	63.500	-0.054	0.0	0.0	0.0
2664	63.497	63.497	-0.057	0.0	0.0	0.0
2688	63.494	63.494	-0.061	0.0	0.0	0.0
2712	63.490	63.490	-0.064	0.0	0.0	0.0
2736	63.487	63.487	-0.067	0.0	0.0	0.0
2760	63.484	63.484	-0.070	0.0	0.0	0.0
2784	63.480	63.481	-0.074	0.0	0.0	0.0
2808	63.477	63.477	-0.077	0.0	0.0	0.0
2832	63.474	63.474	-0.080	0.0	0.0	0.0
2856	63.470	63.471	-0.084	0.0	0.0	0.0
2880	63.467	63.467	-0.087	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.253	63.100	-0.107	0.0	0.0	0.0
48	63.257	63.102	-0.103	0.0	0.0	0.0
72	63.260	63.105	-0.100	0.0	0.1	0.0
96	63.263	63.111	-0.097	0.0	0.1	0.0
120	63.265	63.117	-0.095	0.0	0.1	0.0
144	63.268	63.124	-0.092	0.0	0.2	0.0
168	63.269	63.130	-0.091	0.0	0.2	0.1
192	63.271	63.137	-0.089	0.0	0.2	0.1
216	63.273	63.143	-0.087	0.0	0.2	0.1
240	63.274	63.148	-0.086	0.0	0.2	0.1
264	63.275	63.154	-0.085	0.0	0.3	0.1
288	63.277	63.160	-0.083	0.0	0.3	0.1
312	63.278	63.168	-0.082	0.0	0.3	0.1
336	63.280	63.178	-0.080	0.0	0.3	0.1
360	63.281	63.188	-0.079	0.0	0.3	0.1
384	63.283	63.200	-0.077	0.0	0.3	0.1
408	63.285	63.214	-0.075	0.0	0.3	0.1
432	63.288	63.228	-0.072	0.0	0.3	0.1
456	63.291	63.244	-0.069	0.0	0.3	0.1
480	63.296	63.251	-0.064	0.0	0.2	0.1
504	63.302	63.250	-0.058	0.0	0.2	0.1
528	63.310	63.250	-0.050	0.0	0.2	0.1
552	63.321	63.251	-0.039	0.0	0.2	0.1
576	63.333	63.254	-0.027	0.0	0.3	0.1
600	63.348	63.262	-0.012	0.0	0.3	0.1
624	63.368	63.264	0.008	0.0	0.2	0.1
648	63.394	63.260	0.034	0.0	0.2	0.1
672	63.422	63.273	0.062	0.0	0.3	0.1
696	63.452	63.304	0.092	0.0	0.3	0.1
720	63.487	63.352	0.127	0.0	0.3	0.2
744	63.521	63.398	0.161	0.0	0.3	0.2
768	63.550	63.438	0.190	0.0	0.1	0.2
792	63.575	63.471	0.215	0.0	0.0	0.2
816	63.596	63.500	0.236	0.0	0.0	0.1
840	63.613	63.524	0.253	0.0	0.0	0.1
864	63.627	63.543	0.267	0.0	0.0	0.1
888	63.638	63.559	0.278	0.0	0.0	0.1
912	63.647	63.571	0.287	0.0	0.0	0.1
936	63.654	63.581	0.294	0.0	0.0	0.1
960	63.659	63.589	0.299	0.0	0.0	0.1
984	63.664	63.595	0.304	0.0	0.0	0.1
1008	63.668	63.601	0.308	0.0	0.0	0.1
1032	63.671	63.605	0.311	0.0	0.0	0.1
1056	63.673	63.609	0.313	0.0	0.0	0.1
1080	63.676	63.612	0.316	0.0	0.0	0.1
1104	63.678	63.614	0.318	0.0	0.0	0.1
1128	63.679	63.616	0.319	0.0	0.0	0.1
1152	63.681	63.618	0.321	0.0	0.0	0.1
1176	63.682	63.620	0.322	0.0	0.0	0.1
1200	63.683	63.621	0.323	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.684	63.622	0.324	0.0	0.0	0.1
1248	63.684	63.623	0.324	0.0	0.0	0.1
1272	63.684	63.623	0.324	0.0	0.0	0.1
1296	63.684	63.624	0.324	0.0	0.0	0.1
1320	63.684	63.624	0.324	0.0	0.0	0.1
1344	63.684	63.624	0.324	0.0	0.0	0.1
1368	63.684	63.624	0.324	0.0	0.0	0.1
1392	63.684	63.624	0.324	0.0	0.0	0.1
1416	63.683	63.623	0.323	0.0	0.0	0.1
1440	63.682	63.623	0.322	0.0	0.0	0.1
1464	63.679	63.622	0.319	0.0	0.0	0.1
1488	63.673	63.619	0.313	0.0	0.0	0.1
1512	63.669	63.615	0.309	0.0	0.0	0.1
1536	63.664	63.611	0.304	0.0	0.0	0.1
1560	63.660	63.607	0.300	0.0	0.0	0.1
1584	63.656	63.603	0.296	0.0	0.0	0.1
1608	63.652	63.598	0.292	0.0	0.0	0.1
1632	63.648	63.594	0.288	0.0	0.0	0.1
1656	63.645	63.591	0.285	0.0	0.0	0.1
1680	63.641	63.587	0.281	0.0	0.0	0.1
1704	63.637	63.584	0.277	0.0	0.0	0.1
1728	63.634	63.580	0.274	0.0	0.0	0.1
1752	63.630	63.577	0.270	0.0	0.0	0.1
1776	63.626	63.573	0.266	0.0	0.0	0.1
1800	63.623	63.570	0.263	0.0	0.0	0.1
1824	63.619	63.566	0.259	0.0	0.0	0.1
1848	63.615	63.563	0.255	0.0	0.0	0.1
1872	63.612	63.559	0.252	0.0	0.0	0.1
1896	63.608	63.556	0.248	0.0	0.0	0.1
1920	63.605	63.552	0.245	0.0	0.0	0.1
1944	63.601	63.549	0.241	0.0	0.0	0.1
1968	63.597	63.545	0.237	0.0	0.0	0.1
1992	63.594	63.542	0.234	0.0	0.0	0.1
2016	63.590	63.538	0.230	0.0	0.0	0.1
2040	63.587	63.535	0.227	0.0	0.0	0.1
2064	63.583	63.531	0.223	0.0	0.0	0.1
2088	63.580	63.528	0.220	0.0	0.0	0.1
2112	63.576	63.524	0.216	0.0	0.0	0.1
2136	63.572	63.521	0.212	0.0	0.0	0.1
2160	63.569	63.518	0.209	0.0	0.0	0.1
2184	63.565	63.514	0.205	0.0	0.0	0.1
2208	63.562	63.511	0.202	0.0	0.0	0.1
2232	63.558	63.507	0.198	0.0	0.0	0.1
2256	63.555	63.504	0.195	0.0	0.0	0.1
2280	63.551	63.501	0.191	0.0	0.0	0.1
2304	63.548	63.497	0.188	0.0	0.0	0.1
2328	63.545	63.494	0.185	0.0	0.0	0.1
2352	63.541	63.491	0.181	0.0	0.0	0.1
2376	63.538	63.487	0.178	0.0	0.0	0.1
2400	63.534	63.484	0.174	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.531	63.481	0.171	0.0	0.0	0.1
2448	63.527	63.477	0.167	0.0	0.0	0.1
2472	63.524	63.474	0.164	0.0	0.0	0.1
2496	63.521	63.471	0.161	0.0	0.0	0.1
2520	63.517	63.467	0.157	0.0	0.0	0.1
2544	63.514	63.464	0.154	0.0	0.0	0.1
2568	63.510	63.461	0.150	0.0	0.0	0.1
2592	63.507	63.458	0.147	0.0	0.0	0.1
2616	63.504	63.454	0.144	0.0	0.0	0.1
2640	63.500	63.451	0.140	0.0	0.0	0.1
2664	63.497	63.448	0.137	0.0	0.0	0.1
2688	63.494	63.445	0.134	0.0	0.0	0.1
2712	63.490	63.441	0.130	0.0	0.0	0.1
2736	63.487	63.438	0.127	0.0	0.0	0.1
2760	63.484	63.435	0.124	0.0	0.0	0.1
2784	63.481	63.432	0.121	0.0	0.0	0.1
2808	63.477	63.429	0.117	0.0	0.0	0.1
2832	63.474	63.426	0.114	0.0	0.0	0.1
2856	63.471	63.422	0.111	0.0	0.0	0.1
2880	63.467	63.419	0.107	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.102	63.096	-0.108	0.0	0.0	0.0
72	63.105	63.096	-0.105	0.0	0.0	0.0
96	63.111	63.096	-0.099	0.0	0.0	0.0
120	63.117	63.096	-0.093	0.0	0.0	0.0
144	63.124	63.096	-0.086	0.0	0.0	0.0
168	63.130	63.096	-0.080	0.0	0.0	0.0
192	63.137	63.096	-0.073	0.0	0.0	0.0
216	63.143	63.096	-0.067	0.0	0.0	0.0
240	63.148	63.096	-0.062	0.0	0.0	0.0
264	63.154	63.096	-0.056	0.0	0.0	0.0
288	63.160	63.096	-0.050	0.0	0.0	0.0
312	63.168	63.096	-0.042	0.0	0.0	0.0
336	63.178	63.096	-0.032	0.0	0.0	0.0
360	63.188	63.096	-0.022	0.0	0.0	0.0
384	63.200	63.096	-0.010	0.0	0.0	0.0
408	63.214	63.096	0.004	0.0	0.0	0.0
432	63.228	63.096	0.018	0.0	0.0	0.0
456	63.244	63.096	0.034	0.0	0.0	0.0
480	63.251	63.096	0.041	0.0	0.0	0.0
504	63.250	63.096	0.040	0.0	0.0	0.0
528	63.250	63.096	0.040	0.0	0.0	0.0
552	63.251	63.096	0.041	0.0	0.0	0.0
576	63.254	63.096	0.044	0.0	0.0	0.0
600	63.262	63.096	0.052	0.0	0.0	0.0
624	63.264	63.096	0.054	0.0	0.0	0.0
648	63.260	63.096	0.050	0.0	0.0	0.0
672	63.273	63.096	0.063	0.0	0.0	0.0
696	63.304	63.096	0.094	0.0	0.0	0.0
720	63.352	63.096	0.142	0.0	0.1	0.0
744	63.398	63.096	0.188	0.0	0.1	0.0
768	63.438	63.096	0.228	0.0	0.1	0.0
792	63.471	63.096	0.261	0.0	0.1	0.0
816	63.500	63.096	0.290	0.0	0.1	0.0
840	63.524	63.096	0.314	0.0	0.1	0.0
864	63.543	63.096	0.333	0.0	0.1	0.0
888	63.559	63.096	0.349	0.0	0.1	0.0
912	63.571	63.096	0.361	0.0	0.1	0.0
936	63.581	63.096	0.371	0.0	0.1	0.0
960	63.589	63.096	0.379	0.0	0.1	0.0
984	63.595	63.096	0.385	0.0	0.1	0.0
1008	63.601	63.096	0.391	0.0	0.1	0.0
1032	63.605	63.096	0.395	0.0	0.1	0.0
1056	63.609	63.096	0.399	0.0	0.1	0.0
1080	63.612	63.096	0.402	0.0	0.1	0.0
1104	63.614	63.096	0.404	0.0	0.1	0.0
1128	63.616	63.096	0.406	0.0	0.1	0.0
1152	63.618	63.096	0.408	0.0	0.1	0.0
1176	63.620	63.096	0.410	0.0	0.1	0.0
1200	63.621	63.096	0.411	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.622	63.096	0.412	0.0	0.1	0.0
1248	63.623	63.096	0.413	0.0	0.1	0.0
1272	63.623	63.096	0.413	0.0	0.1	0.0
1296	63.624	63.096	0.414	0.0	0.1	0.0
1320	63.624	63.096	0.414	0.0	0.1	0.0
1344	63.624	63.096	0.414	0.0	0.1	0.0
1368	63.624	63.096	0.414	0.0	0.1	0.0
1392	63.624	63.096	0.414	0.0	0.1	0.0
1416	63.623	63.096	0.413	0.0	0.1	0.0
1440	63.623	63.096	0.413	0.0	0.1	0.0
1464	63.622	63.096	0.412	0.0	0.1	0.0
1488	63.619	63.096	0.409	0.0	0.1	0.0
1512	63.615	63.096	0.405	0.0	0.1	0.0
1536	63.611	63.096	0.401	0.0	0.1	0.0
1560	63.607	63.096	0.397	0.0	0.1	0.0
1584	63.603	63.096	0.393	0.0	0.1	0.0
1608	63.598	63.096	0.388	0.0	0.1	0.0
1632	63.594	63.096	0.384	0.0	0.1	0.0
1656	63.591	63.096	0.381	0.0	0.1	0.0
1680	63.587	63.096	0.377	0.0	0.1	0.0
1704	63.584	63.096	0.374	0.0	0.1	0.0
1728	63.580	63.096	0.370	0.0	0.1	0.0
1752	63.577	63.096	0.367	0.0	0.1	0.0
1776	63.573	63.096	0.363	0.0	0.1	0.0
1800	63.570	63.096	0.360	0.0	0.1	0.0
1824	63.566	63.096	0.356	0.0	0.1	0.0
1848	63.563	63.096	0.353	0.0	0.1	0.0
1872	63.559	63.096	0.349	0.0	0.1	0.0
1896	63.556	63.096	0.346	0.0	0.1	0.0
1920	63.552	63.096	0.342	0.0	0.1	0.0
1944	63.549	63.096	0.339	0.0	0.1	0.0
1968	63.545	63.096	0.335	0.0	0.1	0.0
1992	63.542	63.096	0.332	0.0	0.1	0.0
2016	63.538	63.096	0.328	0.0	0.1	0.0
2040	63.535	63.096	0.325	0.0	0.1	0.0
2064	63.531	63.096	0.321	0.0	0.1	0.0
2088	63.528	63.096	0.318	0.0	0.1	0.0
2112	63.524	63.096	0.314	0.0	0.1	0.0
2136	63.521	63.096	0.311	0.0	0.1	0.0
2160	63.518	63.096	0.308	0.0	0.1	0.0
2184	63.514	63.096	0.304	0.0	0.1	0.0
2208	63.511	63.096	0.301	0.0	0.1	0.0
2232	63.507	63.096	0.297	0.0	0.1	0.0
2256	63.504	63.096	0.294	0.0	0.1	0.0
2280	63.501	63.096	0.291	0.0	0.1	0.0
2304	63.497	63.096	0.287	0.0	0.1	0.0
2328	63.494	63.096	0.284	0.0	0.1	0.0
2352	63.491	63.096	0.281	0.0	0.1	0.0
2376	63.487	63.096	0.277	0.0	0.1	0.0
2400	63.484	63.096	0.274	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Summer
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.481	63.096	0.271	0.0	0.1	0.0
2448	63.477	63.096	0.267	0.0	0.1	0.0
2472	63.474	63.096	0.264	0.0	0.1	0.0
2496	63.471	63.096	0.261	0.0	0.1	0.0
2520	63.467	63.096	0.257	0.0	0.1	0.0
2544	63.464	63.096	0.254	0.0	0.1	0.0
2568	63.461	63.096	0.251	0.0	0.1	0.0
2592	63.458	63.096	0.248	0.0	0.1	0.0
2616	63.454	63.096	0.244	0.0	0.1	0.0
2640	63.451	63.096	0.241	0.0	0.1	0.0
2664	63.448	63.096	0.238	0.0	0.1	0.0
2688	63.445	63.096	0.235	0.0	0.1	0.0
2712	63.441	63.096	0.231	0.0	0.1	0.0
2736	63.438	63.096	0.228	0.0	0.1	0.0
2760	63.435	63.096	0.225	0.0	0.1	0.0
2784	63.432	63.096	0.222	0.0	0.1	0.0
2808	63.429	63.096	0.219	0.0	0.1	0.0
2832	63.426	63.096	0.216	0.0	0.1	0.0
2856	63.422	63.096	0.212	0.0	0.1	0.0
2880	63.419	63.096	0.209	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	2880
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	1440
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 1440 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.403	-0.107	0.000	0.01	0.0	0.2	OK
1.001	S1	63.693	0.089	0.000	0.05	0.0	0.3	SURCHARGED
2.000	RE2	65.404	-0.106	0.000	0.01	0.0	0.2	OK
2.001	S2	65.005	-0.105	0.000	0.01	0.0	0.3	OK
1.002	S3	63.693	0.139	0.000	0.09	0.0	0.6	SURCHARGED
1.003	S4	63.693	0.333	0.000	0.03	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.632	0.422	0.000	0.01	0.0	0.0	SURCHARGED

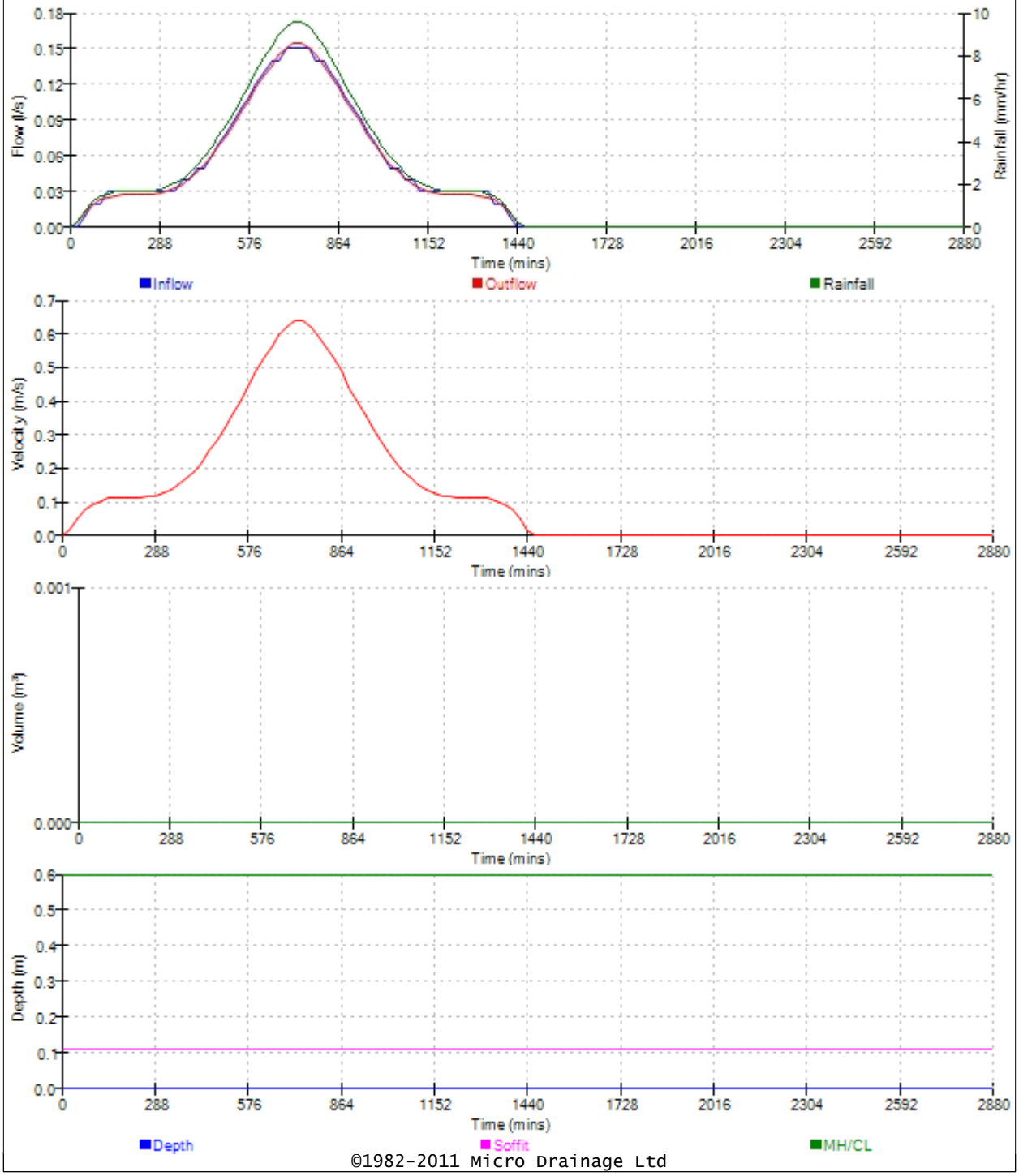
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Rainfall Hyetograph for 1440 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.272	312	1.899	600	7.331	888	6.654	1176	1.786
48	0.782	336	2.052	624	7.908	912	6.046	1200	1.730
72	1.156	360	2.256	648	8.446	936	5.447	1224	1.705
96	1.432	384	2.555	672	8.975	960	4.801	1248	1.701
120	1.579	408	2.885	696	9.349	984	4.264	1272	1.704
144	1.663	432	3.268	720	9.619	1008	3.766	1296	1.700
168	1.700	456	3.766	744	9.619	1032	3.268	1320	1.663
192	1.704	480	4.264	768	9.349	1056	2.885	1344	1.579
216	1.701	504	4.801	792	8.975	1080	2.555	1368	1.432
240	1.705	528	5.447	816	8.446	1104	2.256	1392	1.156
264	1.730	552	6.046	840	7.908	1128	2.052	1416	0.782
288	1.786	576	6.654	864	7.331	1152	1.899	1440	0.272

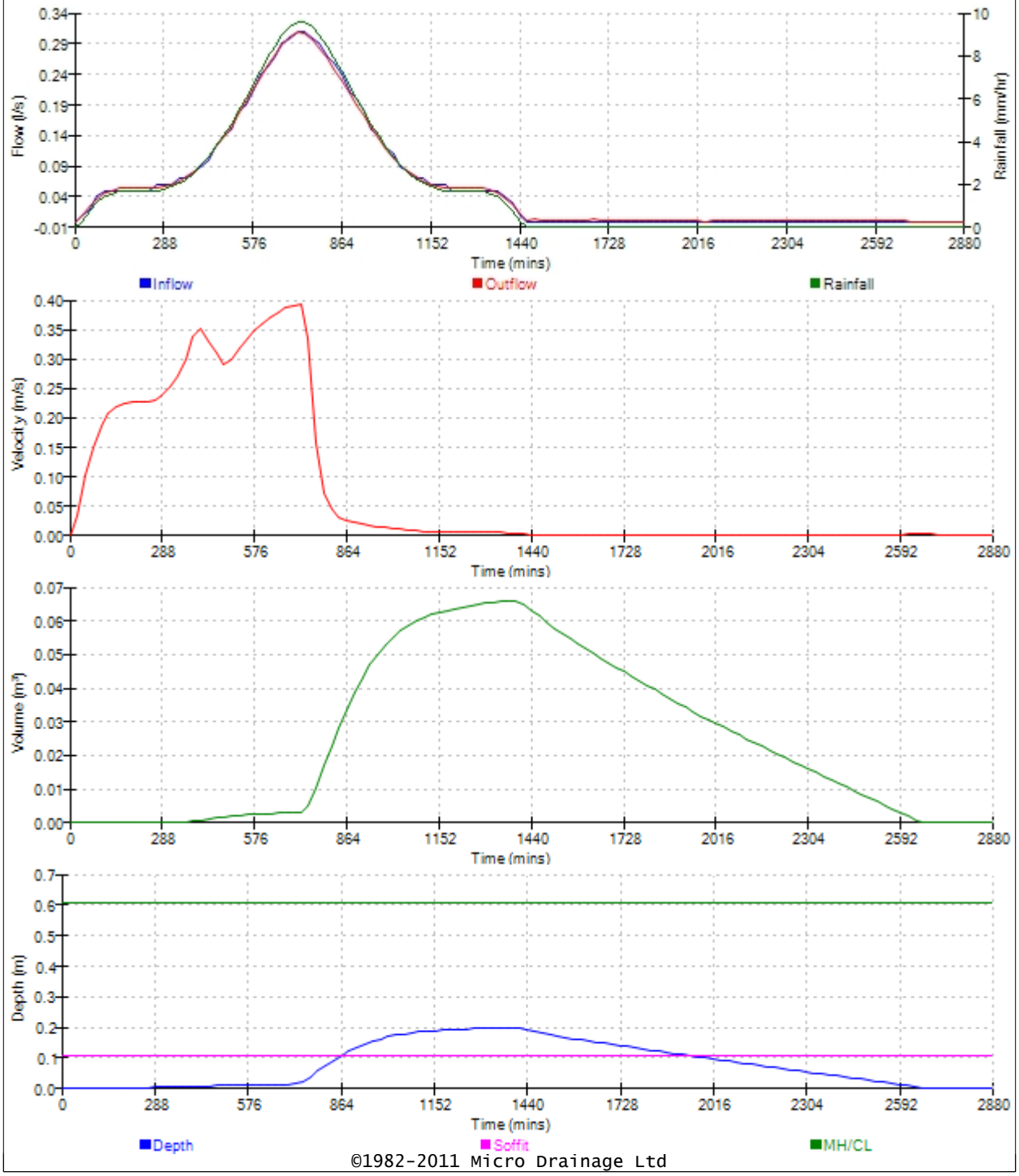
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Winter
Status: OK



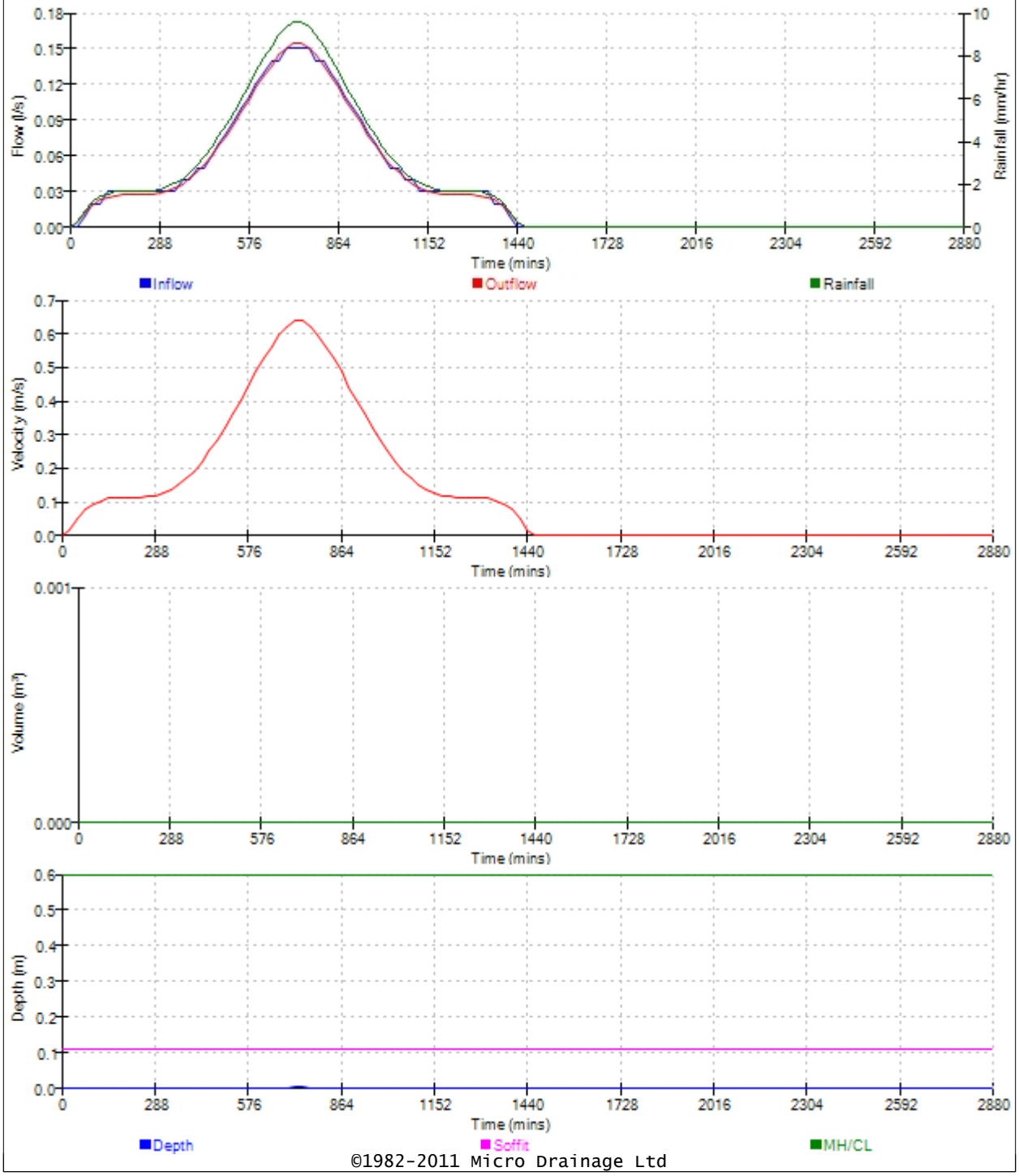
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Graphs for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Winter
Status: SURCHARGED



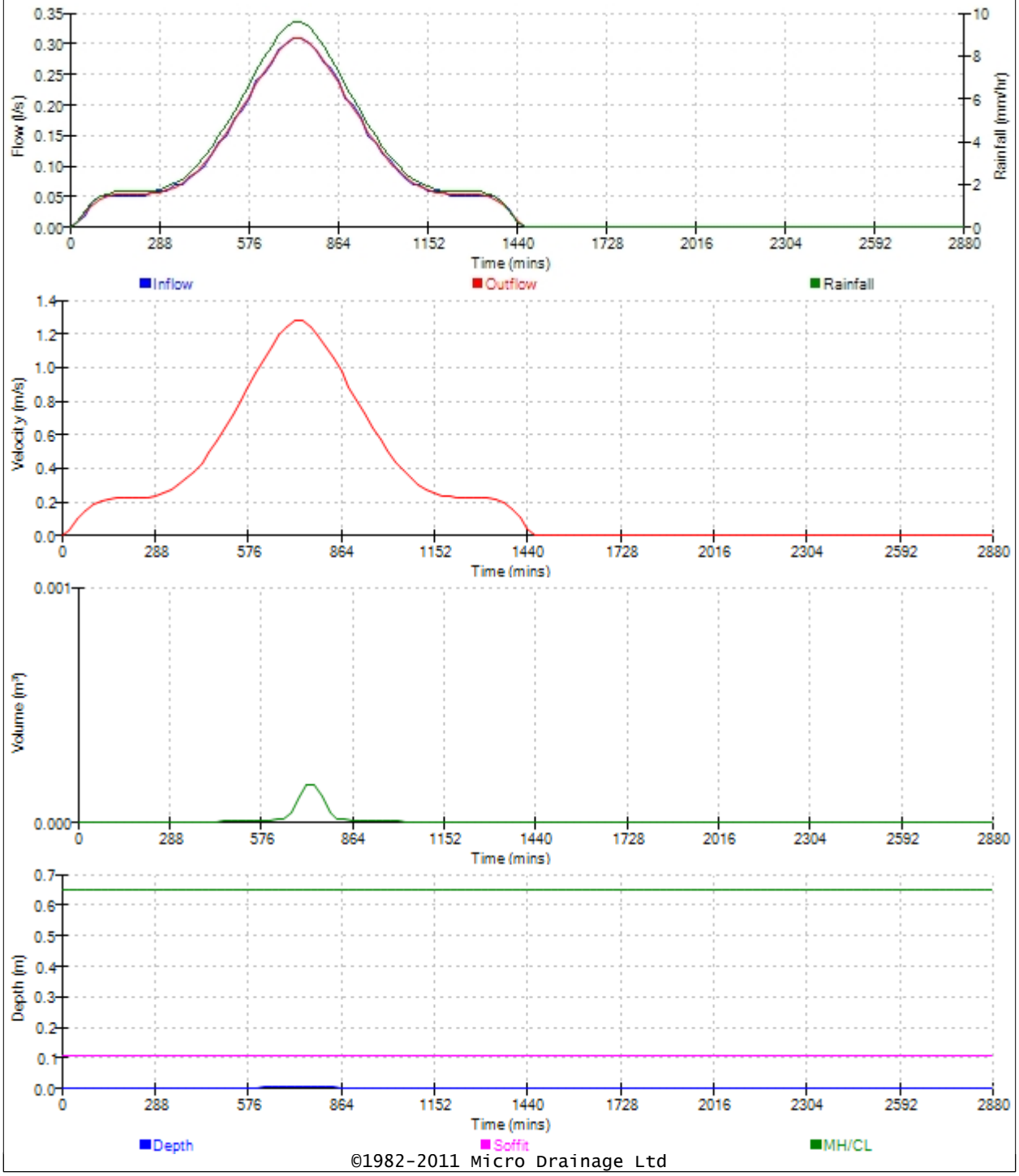
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Winter
Status: OK



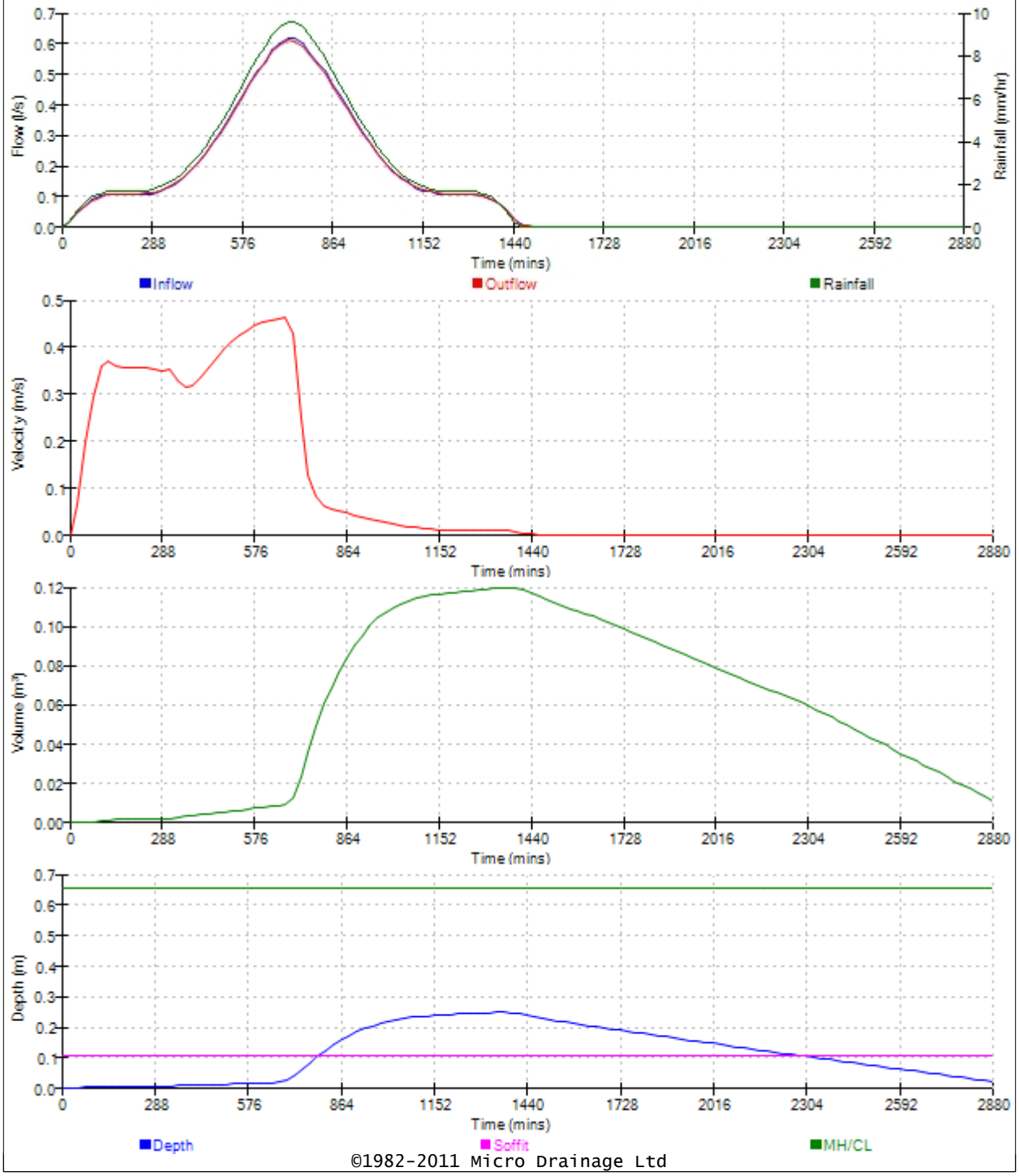
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Graphs for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Winter
Status: OK



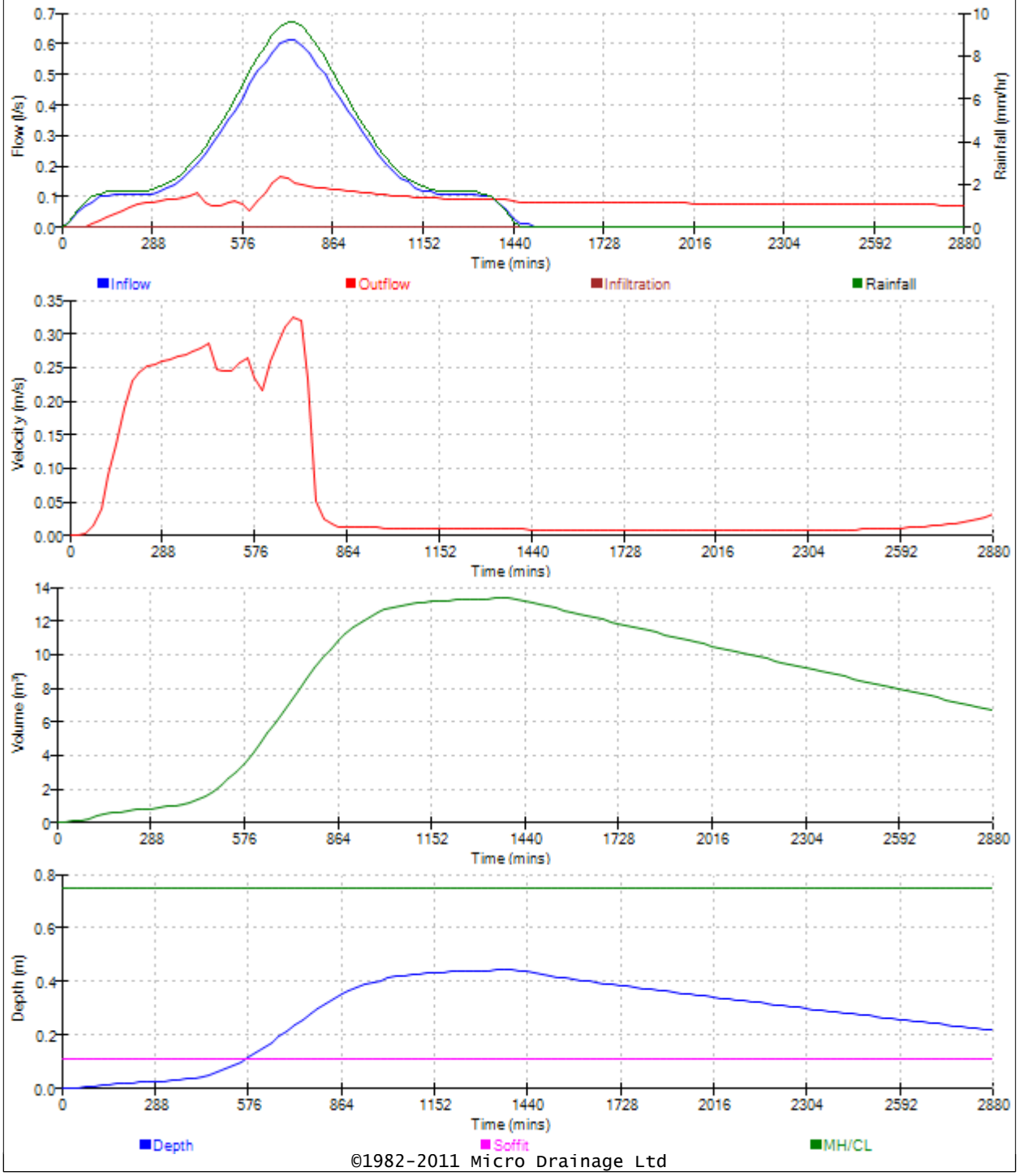
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Graphs for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Winter
Status: SURCHARGED



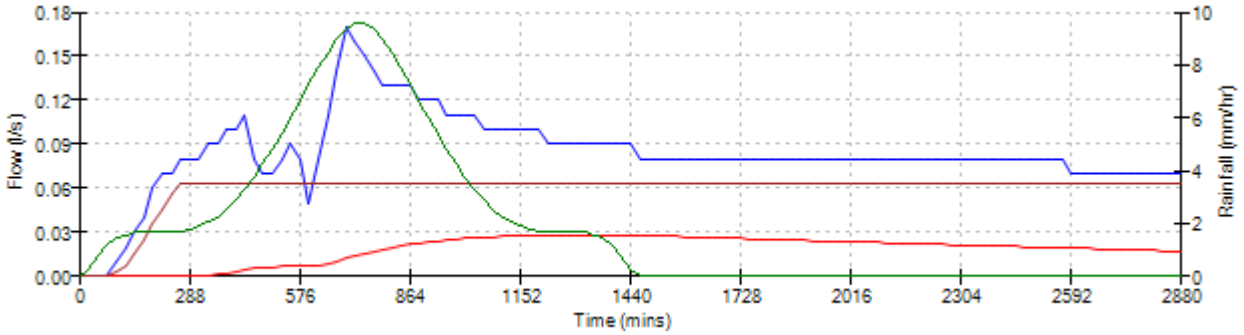
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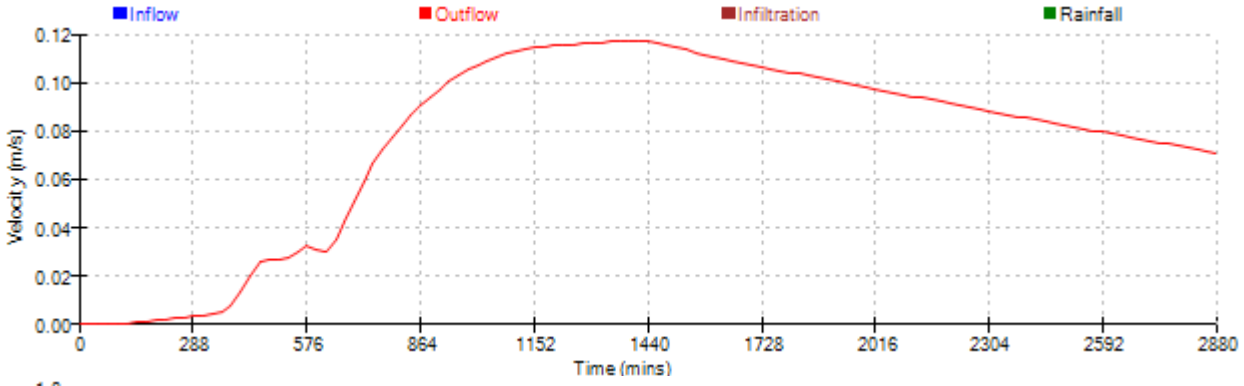
Graphs for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Winter
Status: SURCHARGED

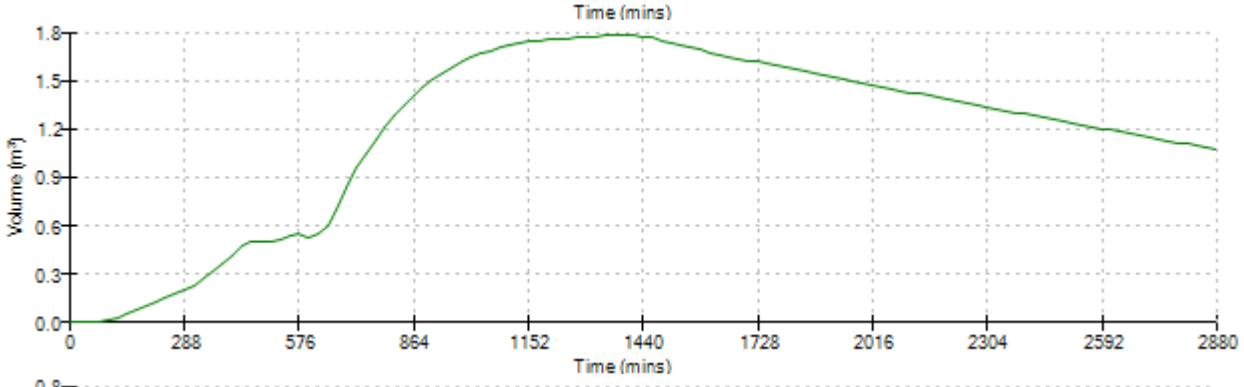


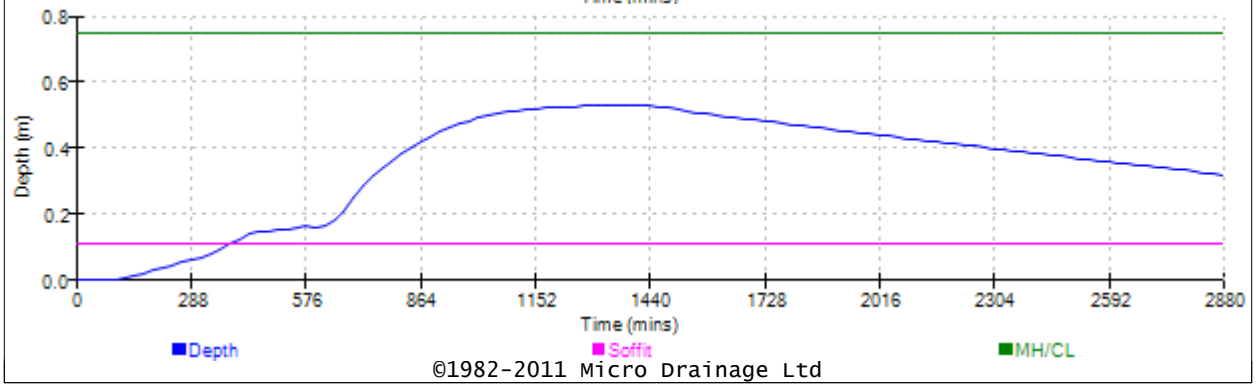
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.496	-0.110	0.0	0.1	0.0
72	65.400	63.497	-0.110	0.0	0.1	0.0
96	65.400	63.498	-0.110	0.0	0.1	0.0
120	65.401	63.498	-0.109	0.0	0.1	0.0
144	65.401	63.498	-0.109	0.0	0.1	0.0
168	65.401	63.498	-0.109	0.0	0.1	0.0
192	65.401	63.498	-0.109	0.0	0.1	0.0
216	65.401	63.498	-0.109	0.0	0.1	0.0
240	65.401	63.498	-0.109	0.0	0.1	0.0
264	65.401	63.498	-0.109	0.0	0.1	0.0
288	65.401	63.499	-0.109	0.0	0.1	0.0
312	65.401	63.499	-0.109	0.0	0.1	0.0
336	65.401	63.499	-0.109	0.0	0.1	0.0
360	65.401	63.500	-0.109	0.0	0.2	0.0
384	65.401	63.501	-0.109	0.0	0.2	0.0
408	65.401	63.501	-0.109	0.0	0.2	0.0
432	65.401	63.502	-0.109	0.0	0.2	0.1
456	65.401	63.504	-0.109	0.0	0.3	0.1
480	65.401	63.505	-0.109	0.0	0.3	0.1
504	65.402	63.505	-0.108	0.0	0.3	0.1
528	65.402	63.506	-0.108	0.0	0.4	0.1
552	65.402	63.506	-0.108	0.0	0.4	0.1
576	65.402	63.507	-0.108	0.0	0.4	0.1
600	65.402	63.507	-0.108	0.0	0.5	0.1
624	65.403	63.508	-0.107	0.0	0.5	0.1
648	65.403	63.508	-0.107	0.0	0.6	0.1
672	65.403	63.509	-0.107	0.0	0.6	0.1
696	65.403	63.509	-0.107	0.0	0.6	0.2
720	65.403	63.509	-0.107	0.0	0.6	0.2
744	65.403	63.515	-0.107	0.0	0.6	0.2
768	65.403	63.532	-0.107	0.0	0.6	0.2
792	65.403	63.552	-0.107	0.0	0.6	0.1
816	65.403	63.571	-0.107	0.0	0.6	0.1
840	65.403	63.588	-0.107	0.0	0.5	0.1
864	65.402	63.604	-0.108	0.0	0.5	0.1
888	65.402	63.618	-0.108	0.0	0.4	0.1
912	65.402	63.630	-0.108	0.0	0.4	0.1
936	65.402	63.641	-0.108	0.0	0.4	0.1
960	65.402	63.649	-0.108	0.0	0.3	0.1
984	65.401	63.657	-0.109	0.0	0.3	0.1
1008	65.401	63.663	-0.109	0.0	0.3	0.1
1032	65.401	63.669	-0.109	0.0	0.2	0.1
1056	65.401	63.674	-0.109	0.0	0.2	0.0
1080	65.401	63.677	-0.109	0.0	0.2	0.0
1104	65.401	63.680	-0.109	0.0	0.2	0.0
1128	65.401	63.682	-0.109	0.0	0.1	0.0
1152	65.401	63.684	-0.109	0.0	0.1	0.0
1176	65.401	63.685	-0.109	0.0	0.1	0.0
1200	65.401	63.687	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	63.688	-0.109	0.0	0.1	0.0
1248	65.401	63.689	-0.109	0.0	0.1	0.0
1272	65.401	63.690	-0.109	0.0	0.1	0.0
1296	65.401	63.691	-0.109	0.0	0.1	0.0
1320	65.401	63.692	-0.109	0.0	0.1	0.0
1344	65.401	63.693	-0.109	0.0	0.1	0.0
1368	65.400	63.693	-0.110	0.0	0.1	0.0
1392	65.400	63.693	-0.110	0.0	0.1	0.0
1416	65.400	63.690	-0.110	0.0	0.1	0.0
1440	65.400	63.685	-0.110	0.0	0.0	0.0
1464	65.400	63.681	-0.110	0.0	0.0	0.0
1488	65.400	63.675	-0.110	0.0	0.0	0.0
1512	65.400	63.670	-0.110	0.0	0.0	0.0
1536	65.400	63.666	-0.110	0.0	0.0	0.0
1560	65.400	63.662	-0.110	0.0	0.0	0.0
1584	65.400	63.658	-0.110	0.0	0.0	0.0
1608	65.400	63.654	-0.110	0.0	0.0	0.0
1632	65.400	63.650	-0.110	0.0	0.0	0.0
1656	65.400	63.646	-0.110	0.0	0.0	0.0
1680	65.400	63.643	-0.110	0.0	0.0	0.0
1704	65.400	63.639	-0.110	0.0	0.0	0.0
1728	65.400	63.635	-0.110	0.0	0.0	0.0
1752	65.400	63.632	-0.110	0.0	0.0	0.0
1776	65.400	63.628	-0.110	0.0	0.0	0.0
1800	65.400	63.624	-0.110	0.0	0.0	0.0
1824	65.400	63.621	-0.110	0.0	0.0	0.0
1848	65.400	63.617	-0.110	0.0	0.0	0.0
1872	65.400	63.613	-0.110	0.0	0.0	0.0
1896	65.400	63.610	-0.110	0.0	0.0	0.0
1920	65.400	63.606	-0.110	0.0	0.0	0.0
1944	65.400	63.602	-0.110	0.0	0.0	0.0
1968	65.400	63.599	-0.110	0.0	0.0	0.0
1992	65.400	63.595	-0.110	0.0	0.0	0.0
2016	65.400	63.592	-0.110	0.0	0.0	0.0
2040	65.400	63.588	-0.110	0.0	0.0	0.0
2064	65.400	63.584	-0.110	0.0	0.0	0.0
2088	65.400	63.581	-0.110	0.0	0.0	0.0
2112	65.400	63.577	-0.110	0.0	0.0	0.0
2136	65.400	63.574	-0.110	0.0	0.0	0.0
2160	65.400	63.570	-0.110	0.0	0.0	0.0
2184	65.400	63.567	-0.110	0.0	0.0	0.0
2208	65.400	63.563	-0.110	0.0	0.0	0.0
2232	65.400	63.560	-0.110	0.0	0.0	0.0
2256	65.400	63.556	-0.110	0.0	0.0	0.0
2280	65.400	63.553	-0.110	0.0	0.0	0.0
2304	65.400	63.549	-0.110	0.0	0.0	0.0
2328	65.400	63.546	-0.110	0.0	0.0	0.0
2352	65.400	63.543	-0.110	0.0	0.0	0.0
2376	65.400	63.539	-0.110	0.0	0.0	0.0
2400	65.400	63.536	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.532	-0.110	0.0	0.0	0.0
2448	65.400	63.529	-0.110	0.0	0.0	0.0
2472	65.400	63.525	-0.110	0.0	0.0	0.0
2496	65.400	63.522	-0.110	0.0	0.0	0.0
2520	65.400	63.519	-0.110	0.0	0.0	0.0
2544	65.400	63.515	-0.110	0.0	0.0	0.0
2568	65.400	63.512	-0.110	0.0	0.0	0.0
2592	65.400	63.509	-0.110	0.0	0.0	0.0
2616	65.400	63.505	-0.110	0.0	0.0	0.0
2640	65.400	63.501	-0.110	0.0	0.0	0.0
2664	65.400	63.498	-0.110	0.0	0.0	0.0
2688	65.400	63.495	-0.110	0.0	0.0	0.0
2712	65.400	63.494	-0.110	0.0	0.0	0.0
2736	65.400	63.494	-0.110	0.0	0.0	0.0
2760	65.400	63.494	-0.110	0.0	0.0	0.0
2784	65.400	63.494	-0.110	0.0	0.0	0.0
2808	65.400	63.494	-0.110	0.0	0.0	0.0
2832	65.400	63.494	-0.110	0.0	0.0	0.0
2856	65.400	63.494	-0.110	0.0	0.0	0.0
2880	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.445	-0.109	0.0	0.0	0.0
48	63.496	63.448	-0.108	0.0	0.1	0.0
72	63.497	63.450	-0.107	0.0	0.2	0.0
96	63.498	63.451	-0.106	0.0	0.2	0.0
120	63.498	63.452	-0.106	0.0	0.2	0.1
144	63.498	63.452	-0.106	0.0	0.2	0.1
168	63.498	63.452	-0.106	0.0	0.2	0.1
192	63.498	63.452	-0.106	0.0	0.2	0.1
216	63.498	63.452	-0.106	0.0	0.2	0.1
240	63.498	63.452	-0.106	0.0	0.2	0.1
264	63.498	63.452	-0.106	0.0	0.2	0.1
288	63.499	63.453	-0.106	0.0	0.2	0.1
312	63.499	63.453	-0.105	0.0	0.3	0.1
336	63.499	63.454	-0.105	0.0	0.3	0.1
360	63.500	63.455	-0.104	0.0	0.3	0.1
384	63.501	63.455	-0.104	0.0	0.3	0.1
408	63.501	63.456	-0.103	0.0	0.4	0.1
432	63.502	63.456	-0.102	0.0	0.3	0.1
456	63.504	63.457	-0.101	0.0	0.3	0.1
480	63.505	63.458	-0.099	0.0	0.3	0.1
504	63.505	63.459	-0.099	0.0	0.3	0.2
528	63.506	63.460	-0.098	0.0	0.3	0.2
552	63.506	63.461	-0.098	0.0	0.3	0.2
576	63.507	63.461	-0.097	0.0	0.3	0.2
600	63.507	63.462	-0.097	0.0	0.4	0.2
624	63.508	63.463	-0.096	0.0	0.4	0.3
648	63.508	63.464	-0.096	0.0	0.4	0.3
672	63.509	63.465	-0.095	0.0	0.4	0.3
696	63.509	63.470	-0.095	0.0	0.4	0.3
720	63.509	63.488	-0.095	0.0	0.4	0.3
744	63.515	63.510	-0.089	0.0	0.3	0.3
768	63.532	63.531	-0.072	0.0	0.2	0.3
792	63.552	63.551	-0.052	0.0	0.1	0.3
816	63.571	63.570	-0.033	0.0	0.0	0.3
840	63.588	63.587	-0.016	0.0	0.0	0.2
864	63.604	63.603	0.000	0.0	0.0	0.2
888	63.618	63.617	0.014	0.0	0.0	0.2
912	63.630	63.629	0.026	0.0	0.0	0.2
936	63.641	63.640	0.036	0.0	0.0	0.2
960	63.649	63.649	0.045	0.0	0.0	0.2
984	63.657	63.656	0.053	0.0	0.0	0.1
1008	63.663	63.663	0.059	0.0	0.0	0.1
1032	63.669	63.669	0.065	0.0	0.0	0.1
1056	63.674	63.673	0.070	0.0	0.0	0.1
1080	63.677	63.677	0.073	0.0	0.0	0.1
1104	63.680	63.680	0.076	0.0	0.0	0.1
1128	63.682	63.682	0.078	0.0	0.0	0.1
1152	63.684	63.684	0.080	0.0	0.0	0.1
1176	63.685	63.685	0.081	0.0	0.0	0.1
1200	63.687	63.686	0.083	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.688	63.688	0.084	0.0	0.0	0.1
1248	63.689	63.689	0.085	0.0	0.0	0.1
1272	63.690	63.690	0.086	0.0	0.0	0.1
1296	63.691	63.691	0.087	0.0	0.0	0.1
1320	63.692	63.692	0.088	0.0	0.0	0.1
1344	63.693	63.693	0.089	0.0	0.0	0.1
1368	63.693	63.693	0.089	0.0	0.0	0.0
1392	63.693	63.692	0.088	0.0	0.0	0.0
1416	63.690	63.690	0.086	0.0	0.0	0.0
1440	63.685	63.686	0.081	0.0	0.0	0.0
1464	63.681	63.681	0.077	0.0	0.0	0.0
1488	63.675	63.675	0.071	0.0	0.0	0.0
1512	63.670	63.670	0.066	0.0	0.0	0.0
1536	63.666	63.666	0.062	0.0	0.0	0.0
1560	63.662	63.662	0.058	0.0	0.0	0.0
1584	63.658	63.658	0.054	0.0	0.0	0.0
1608	63.654	63.654	0.050	0.0	0.0	0.0
1632	63.650	63.650	0.046	0.0	0.0	0.0
1656	63.646	63.647	0.042	0.0	0.0	0.0
1680	63.643	63.642	0.038	0.0	0.0	0.0
1704	63.639	63.639	0.035	0.0	0.0	0.0
1728	63.635	63.635	0.031	0.0	0.0	0.0
1752	63.632	63.632	0.027	0.0	0.0	0.0
1776	63.628	63.628	0.024	0.0	0.0	0.0
1800	63.624	63.624	0.020	0.0	0.0	0.0
1824	63.621	63.621	0.016	0.0	0.0	0.0
1848	63.617	63.618	0.013	0.0	0.0	0.0
1872	63.613	63.613	0.009	0.0	0.0	0.0
1896	63.610	63.610	0.006	0.0	0.0	0.0
1920	63.606	63.606	0.002	0.0	0.0	0.0
1944	63.602	63.602	-0.002	0.0	0.0	0.0
1968	63.599	63.599	-0.005	0.0	0.0	0.0
1992	63.595	63.595	-0.009	0.0	0.0	0.0
2016	63.592	63.592	-0.012	0.0	0.0	0.0
2040	63.588	63.589	-0.016	0.0	0.0	0.0
2064	63.584	63.585	-0.020	0.0	0.0	0.0
2088	63.581	63.581	-0.023	0.0	0.0	0.0
2112	63.577	63.578	-0.027	0.0	0.0	0.0
2136	63.574	63.574	-0.030	0.0	0.0	0.0
2160	63.570	63.570	-0.034	0.0	0.0	0.0
2184	63.567	63.567	-0.037	0.0	0.0	0.0
2208	63.563	63.563	-0.041	0.0	0.0	0.0
2232	63.560	63.560	-0.044	0.0	0.0	0.0
2256	63.556	63.556	-0.048	0.0	0.0	0.0
2280	63.553	63.553	-0.051	0.0	0.0	0.0
2304	63.549	63.549	-0.055	0.0	0.0	0.0
2328	63.546	63.546	-0.058	0.0	0.0	0.0
2352	63.543	63.543	-0.062	0.0	0.0	0.0
2376	63.539	63.539	-0.065	0.0	0.0	0.0
2400	63.536	63.536	-0.068	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.532	63.532	-0.072	0.0	0.0	0.0
2448	63.529	63.529	-0.075	0.0	0.0	0.0
2472	63.525	63.526	-0.079	0.0	0.0	0.0
2496	63.522	63.522	-0.082	0.0	0.0	0.0
2520	63.519	63.519	-0.085	0.0	0.0	0.0
2544	63.515	63.516	-0.089	0.0	0.0	0.0
2568	63.512	63.512	-0.092	0.0	0.0	0.0
2592	63.509	63.509	-0.095	0.0	0.0	0.0
2616	63.505	63.505	-0.099	0.0	0.0	0.0
2640	63.501	63.502	-0.103	0.0	0.0	0.0
2664	63.498	63.499	-0.106	0.0	0.0	0.0
2688	63.495	63.495	-0.109	0.0	0.0	0.0
2712	63.494	63.492	-0.110	0.0	0.0	0.0
2736	63.494	63.488	-0.110	0.0	0.0	0.0
2760	63.494	63.485	-0.110	0.0	0.0	0.0
2784	63.494	63.482	-0.110	0.0	0.0	0.0
2808	63.494	63.478	-0.110	0.0	0.0	0.0
2832	63.494	63.475	-0.110	0.0	0.0	0.0
2856	63.494	63.472	-0.110	0.0	0.0	0.0
2880	63.494	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.1	0.0
72	65.400	65.001	-0.110	0.0	0.1	0.0
96	65.401	65.001	-0.109	0.0	0.1	0.0
120	65.401	65.001	-0.109	0.0	0.1	0.0
144	65.401	65.001	-0.109	0.0	0.1	0.0
168	65.401	65.001	-0.109	0.0	0.1	0.0
192	65.401	65.001	-0.109	0.0	0.1	0.0
216	65.401	65.001	-0.109	0.0	0.1	0.0
240	65.401	65.001	-0.109	0.0	0.1	0.0
264	65.401	65.001	-0.109	0.0	0.1	0.0
288	65.401	65.001	-0.109	0.0	0.1	0.0
312	65.401	65.001	-0.109	0.0	0.1	0.0
336	65.401	65.001	-0.109	0.0	0.1	0.0
360	65.401	65.001	-0.109	0.0	0.2	0.0
384	65.401	65.001	-0.109	0.0	0.2	0.0
408	65.401	65.002	-0.109	0.0	0.2	0.0
432	65.401	65.002	-0.109	0.0	0.2	0.1
456	65.402	65.002	-0.108	0.0	0.3	0.1
480	65.402	65.002	-0.108	0.0	0.3	0.1
504	65.402	65.003	-0.108	0.0	0.3	0.1
528	65.402	65.003	-0.108	0.0	0.4	0.1
552	65.402	65.003	-0.108	0.0	0.4	0.1
576	65.403	65.004	-0.107	0.0	0.4	0.1
600	65.403	65.004	-0.107	0.0	0.5	0.1
624	65.403	65.005	-0.107	0.0	0.5	0.1
648	65.403	65.005	-0.107	0.0	0.6	0.1
672	65.404	65.005	-0.106	0.0	0.6	0.1
696	65.404	65.005	-0.106	0.0	0.6	0.2
720	65.404	65.005	-0.106	0.0	0.6	0.2
744	65.404	65.005	-0.106	0.0	0.6	0.2
768	65.404	65.005	-0.106	0.0	0.6	0.2
792	65.404	65.005	-0.106	0.0	0.6	0.1
816	65.403	65.005	-0.107	0.0	0.6	0.1
840	65.403	65.005	-0.107	0.0	0.5	0.1
864	65.403	65.004	-0.107	0.0	0.5	0.1
888	65.403	65.004	-0.107	0.0	0.4	0.1
912	65.402	65.003	-0.108	0.0	0.4	0.1
936	65.402	65.003	-0.108	0.0	0.4	0.1
960	65.402	65.003	-0.108	0.0	0.3	0.1
984	65.402	65.002	-0.108	0.0	0.3	0.1
1008	65.402	65.002	-0.108	0.0	0.3	0.1
1032	65.401	65.002	-0.109	0.0	0.2	0.1
1056	65.401	65.002	-0.109	0.0	0.2	0.0
1080	65.401	65.001	-0.109	0.0	0.2	0.0
1104	65.401	65.001	-0.109	0.0	0.2	0.0
1128	65.401	65.001	-0.109	0.0	0.1	0.0
1152	65.401	65.001	-0.109	0.0	0.1	0.0
1176	65.401	65.001	-0.109	0.0	0.1	0.0
1200	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	65.001	-0.109	0.0	0.1	0.0
1248	65.401	65.001	-0.109	0.0	0.1	0.0
1272	65.401	65.001	-0.109	0.0	0.1	0.0
1296	65.401	65.001	-0.109	0.0	0.1	0.0
1320	65.401	65.001	-0.109	0.0	0.1	0.0
1344	65.401	65.001	-0.109	0.0	0.1	0.0
1368	65.401	65.001	-0.109	0.0	0.1	0.0
1392	65.400	65.001	-0.110	0.0	0.1	0.0
1416	65.400	65.000	-0.110	0.0	0.1	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.445	-0.110	0.0	0.0	0.0
48	65.000	63.448	-0.110	0.0	0.1	0.0
72	65.001	63.450	-0.109	0.0	0.2	0.0
96	65.001	63.451	-0.109	0.0	0.2	0.0
120	65.001	63.452	-0.109	0.0	0.2	0.1
144	65.001	63.452	-0.109	0.0	0.2	0.1
168	65.001	63.452	-0.109	0.0	0.2	0.1
192	65.001	63.452	-0.109	0.0	0.2	0.1
216	65.001	63.452	-0.109	0.0	0.2	0.1
240	65.001	63.452	-0.109	0.0	0.2	0.1
264	65.001	63.452	-0.109	0.0	0.2	0.1
288	65.001	63.453	-0.109	0.0	0.2	0.1
312	65.001	63.453	-0.109	0.0	0.3	0.1
336	65.001	63.454	-0.109	0.0	0.3	0.1
360	65.001	63.455	-0.109	0.0	0.3	0.1
384	65.001	63.455	-0.109	0.0	0.3	0.1
408	65.002	63.456	-0.108	0.0	0.4	0.1
432	65.002	63.456	-0.108	0.0	0.4	0.1
456	65.002	63.457	-0.108	0.0	0.5	0.1
480	65.002	63.458	-0.108	0.0	0.6	0.1
504	65.003	63.459	-0.107	0.0	0.6	0.2
528	65.003	63.460	-0.107	0.0	0.7	0.2
552	65.003	63.461	-0.107	0.0	0.8	0.2
576	65.004	63.461	-0.106	0.0	0.9	0.2
600	65.004	63.462	-0.106	0.0	1.0	0.2
624	65.005	63.463	-0.105	0.0	1.1	0.3
648	65.005	63.464	-0.105	0.0	1.1	0.3
672	65.005	63.465	-0.105	0.0	1.2	0.3
696	65.005	63.470	-0.105	0.0	1.2	0.3
720	65.005	63.488	-0.105	0.0	1.3	0.3
744	65.005	63.510	-0.105	0.0	1.3	0.3
768	65.005	63.531	-0.105	0.0	1.2	0.3
792	65.005	63.551	-0.105	0.0	1.2	0.3
816	65.005	63.570	-0.105	0.0	1.1	0.3
840	65.005	63.587	-0.105	0.0	1.1	0.3
864	65.004	63.603	-0.106	0.0	1.0	0.2
888	65.004	63.617	-0.106	0.0	0.9	0.2
912	65.003	63.629	-0.107	0.0	0.8	0.2
936	65.003	63.640	-0.107	0.0	0.7	0.2
960	65.003	63.649	-0.107	0.0	0.6	0.2
984	65.002	63.656	-0.108	0.0	0.6	0.1
1008	65.002	63.663	-0.108	0.0	0.5	0.1
1032	65.002	63.669	-0.108	0.0	0.4	0.1
1056	65.002	63.673	-0.108	0.0	0.4	0.1
1080	65.001	63.677	-0.109	0.0	0.3	0.1
1104	65.001	63.680	-0.109	0.0	0.3	0.1
1128	65.001	63.682	-0.109	0.0	0.3	0.1
1152	65.001	63.684	-0.109	0.0	0.3	0.1
1176	65.001	63.685	-0.109	0.0	0.2	0.1
1200	65.001	63.686	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.001	63.688	-0.109	0.0	0.2	0.1
1248	65.001	63.689	-0.109	0.0	0.2	0.1
1272	65.001	63.690	-0.109	0.0	0.2	0.1
1296	65.001	63.691	-0.109	0.0	0.2	0.1
1320	65.001	63.692	-0.109	0.0	0.2	0.1
1344	65.001	63.693	-0.109	0.0	0.2	0.1
1368	65.001	63.693	-0.109	0.0	0.2	0.0
1392	65.001	63.692	-0.109	0.0	0.2	0.0
1416	65.000	63.690	-0.110	0.0	0.1	0.0
1440	65.000	63.686	-0.110	0.0	0.0	0.0
1464	65.000	63.681	-0.110	0.0	0.0	0.0
1488	65.000	63.675	-0.110	0.0	0.0	0.0
1512	65.000	63.670	-0.110	0.0	0.0	0.0
1536	65.000	63.666	-0.110	0.0	0.0	0.0
1560	65.000	63.662	-0.110	0.0	0.0	0.0
1584	65.000	63.658	-0.110	0.0	0.0	0.0
1608	65.000	63.654	-0.110	0.0	0.0	0.0
1632	65.000	63.650	-0.110	0.0	0.0	0.0
1656	65.000	63.647	-0.110	0.0	0.0	0.0
1680	65.000	63.642	-0.110	0.0	0.0	0.0
1704	65.000	63.639	-0.110	0.0	0.0	0.0
1728	65.000	63.635	-0.110	0.0	0.0	0.0
1752	65.000	63.632	-0.110	0.0	0.0	0.0
1776	65.000	63.628	-0.110	0.0	0.0	0.0
1800	65.000	63.624	-0.110	0.0	0.0	0.0
1824	65.000	63.621	-0.110	0.0	0.0	0.0
1848	65.000	63.618	-0.110	0.0	0.0	0.0
1872	65.000	63.613	-0.110	0.0	0.0	0.0
1896	65.000	63.610	-0.110	0.0	0.0	0.0
1920	65.000	63.606	-0.110	0.0	0.0	0.0
1944	65.000	63.602	-0.110	0.0	0.0	0.0
1968	65.000	63.599	-0.110	0.0	0.0	0.0
1992	65.000	63.595	-0.110	0.0	0.0	0.0
2016	65.000	63.592	-0.110	0.0	0.0	0.0
2040	65.000	63.589	-0.110	0.0	0.0	0.0
2064	65.000	63.585	-0.110	0.0	0.0	0.0
2088	65.000	63.581	-0.110	0.0	0.0	0.0
2112	65.000	63.578	-0.110	0.0	0.0	0.0
2136	65.000	63.574	-0.110	0.0	0.0	0.0
2160	65.000	63.570	-0.110	0.0	0.0	0.0
2184	65.000	63.567	-0.110	0.0	0.0	0.0
2208	65.000	63.563	-0.110	0.0	0.0	0.0
2232	65.000	63.560	-0.110	0.0	0.0	0.0
2256	65.000	63.556	-0.110	0.0	0.0	0.0
2280	65.000	63.553	-0.110	0.0	0.0	0.0
2304	65.000	63.549	-0.110	0.0	0.0	0.0
2328	65.000	63.546	-0.110	0.0	0.0	0.0
2352	65.000	63.543	-0.110	0.0	0.0	0.0
2376	65.000	63.539	-0.110	0.0	0.0	0.0
2400	65.000	63.536	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.532	-0.110	0.0	0.0	0.0
2448	65.000	63.529	-0.110	0.0	0.0	0.0
2472	65.000	63.526	-0.110	0.0	0.0	0.0
2496	65.000	63.522	-0.110	0.0	0.0	0.0
2520	65.000	63.519	-0.110	0.0	0.0	0.0
2544	65.000	63.516	-0.110	0.0	0.0	0.0
2568	65.000	63.512	-0.110	0.0	0.0	0.0
2592	65.000	63.509	-0.110	0.0	0.0	0.0
2616	65.000	63.505	-0.110	0.0	0.0	0.0
2640	65.000	63.502	-0.110	0.0	0.0	0.0
2664	65.000	63.499	-0.110	0.0	0.0	0.0
2688	65.000	63.495	-0.110	0.0	0.0	0.0
2712	65.000	63.492	-0.110	0.0	0.0	0.0
2736	65.000	63.488	-0.110	0.0	0.0	0.0
2760	65.000	63.485	-0.110	0.0	0.0	0.0
2784	65.000	63.482	-0.110	0.0	0.0	0.0
2808	65.000	63.478	-0.110	0.0	0.0	0.0
2832	65.000	63.475	-0.110	0.0	0.0	0.0
2856	65.000	63.472	-0.110	0.0	0.0	0.0
2880	65.000	63.468	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.445	63.251	-0.109	0.0	0.1	0.0
48	63.448	63.253	-0.106	0.0	0.2	0.0
72	63.450	63.256	-0.105	0.0	0.3	0.1
96	63.451	63.259	-0.103	0.0	0.4	0.1
120	63.452	63.262	-0.103	0.0	0.4	0.1
144	63.452	63.266	-0.102	0.0	0.4	0.1
168	63.452	63.269	-0.102	0.0	0.4	0.1
192	63.452	63.271	-0.102	0.0	0.4	0.1
216	63.452	63.273	-0.102	0.0	0.4	0.1
240	63.452	63.275	-0.102	0.0	0.4	0.1
264	63.452	63.276	-0.102	0.0	0.4	0.1
288	63.453	63.278	-0.102	0.0	0.3	0.1
312	63.453	63.279	-0.101	0.0	0.4	0.1
336	63.454	63.281	-0.100	0.0	0.3	0.1
360	63.455	63.284	-0.099	0.0	0.3	0.1
384	63.455	63.287	-0.099	0.0	0.3	0.2
408	63.456	63.290	-0.098	0.0	0.3	0.2
432	63.456	63.295	-0.098	0.0	0.4	0.2
456	63.457	63.302	-0.097	0.0	0.4	0.2
480	63.458	63.312	-0.096	0.0	0.4	0.3
504	63.459	63.323	-0.095	0.0	0.4	0.3
528	63.460	63.335	-0.094	0.0	0.4	0.3
552	63.461	63.349	-0.094	0.0	0.4	0.4
576	63.461	63.365	-0.093	0.0	0.4	0.4
600	63.462	63.384	-0.092	0.0	0.5	0.5
624	63.463	63.404	-0.091	0.0	0.5	0.5
648	63.464	63.424	-0.090	0.0	0.5	0.5
672	63.465	63.444	-0.089	0.0	0.5	0.6
696	63.470	63.465	-0.084	0.0	0.4	0.6
720	63.488	63.486	-0.066	0.0	0.2	0.6
744	63.510	63.508	-0.044	0.0	0.1	0.6
768	63.531	63.529	-0.023	0.0	0.1	0.6
792	63.551	63.549	-0.003	0.0	0.1	0.6
816	63.570	63.568	0.016	0.0	0.1	0.5
840	63.587	63.586	0.033	0.0	0.1	0.5
864	63.603	63.601	0.049	0.0	0.0	0.5
888	63.617	63.616	0.063	0.0	0.0	0.4
912	63.629	63.628	0.075	0.0	0.0	0.4
936	63.640	63.639	0.086	0.0	0.0	0.3
960	63.649	63.648	0.095	0.0	0.0	0.3
984	63.656	63.655	0.102	0.0	0.0	0.3
1008	63.663	63.662	0.109	0.0	0.0	0.2
1032	63.669	63.668	0.114	0.0	0.0	0.2
1056	63.673	63.673	0.119	0.0	0.0	0.2
1080	63.677	63.677	0.123	0.0	0.0	0.2
1104	63.680	63.679	0.126	0.0	0.0	0.1
1128	63.682	63.682	0.128	0.0	0.0	0.1
1152	63.684	63.684	0.130	0.0	0.0	0.1
1176	63.685	63.685	0.131	0.0	0.0	0.1
1200	63.686	63.686	0.132	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.688	63.687	0.133	0.0	0.0	0.1
1248	63.689	63.688	0.135	0.0	0.0	0.1
1272	63.690	63.690	0.136	0.0	0.0	0.1
1296	63.691	63.691	0.137	0.0	0.0	0.1
1320	63.692	63.692	0.138	0.0	0.0	0.1
1344	63.693	63.693	0.139	0.0	0.0	0.1
1368	63.693	63.693	0.139	0.0	0.0	0.1
1392	63.692	63.692	0.138	0.0	0.0	0.1
1416	63.690	63.690	0.136	0.0	0.0	0.1
1440	63.686	63.686	0.132	0.0	0.0	0.0
1464	63.681	63.681	0.127	0.0	0.0	0.0
1488	63.675	63.675	0.121	0.0	0.0	0.0
1512	63.670	63.671	0.116	0.0	0.0	0.0
1536	63.666	63.666	0.112	0.0	0.0	0.0
1560	63.662	63.662	0.108	0.0	0.0	0.0
1584	63.658	63.658	0.104	0.0	0.0	0.0
1608	63.654	63.654	0.100	0.0	0.0	0.0
1632	63.650	63.650	0.096	0.0	0.0	0.0
1656	63.647	63.646	0.092	0.0	0.0	0.0
1680	63.642	63.643	0.088	0.0	0.0	0.0
1704	63.639	63.639	0.085	0.0	0.0	0.0
1728	63.635	63.635	0.081	0.0	0.0	0.0
1752	63.632	63.632	0.078	0.0	0.0	0.0
1776	63.628	63.628	0.074	0.0	0.0	0.0
1800	63.624	63.624	0.070	0.0	0.0	0.0
1824	63.621	63.621	0.067	0.0	0.0	0.0
1848	63.618	63.617	0.063	0.0	0.0	0.0
1872	63.613	63.614	0.059	0.0	0.0	0.0
1896	63.610	63.610	0.056	0.0	0.0	0.0
1920	63.606	63.606	0.052	0.0	0.0	0.0
1944	63.602	63.603	0.048	0.0	0.0	0.0
1968	63.599	63.599	0.045	0.0	0.0	0.0
1992	63.595	63.596	0.041	0.0	0.0	0.0
2016	63.592	63.592	0.038	0.0	0.0	0.0
2040	63.589	63.588	0.035	0.0	0.0	0.0
2064	63.585	63.585	0.031	0.0	0.0	0.0
2088	63.581	63.581	0.027	0.0	0.0	0.0
2112	63.578	63.578	0.024	0.0	0.0	0.0
2136	63.574	63.574	0.020	0.0	0.0	0.0
2160	63.570	63.571	0.016	0.0	0.0	0.0
2184	63.567	63.567	0.013	0.0	0.0	0.0
2208	63.563	63.564	0.009	0.0	0.0	0.0
2232	63.560	63.560	0.006	0.0	0.0	0.0
2256	63.556	63.557	0.002	0.0	0.0	0.0
2280	63.553	63.553	-0.001	0.0	0.0	0.0
2304	63.549	63.550	-0.005	0.0	0.0	0.0
2328	63.546	63.546	-0.008	0.0	0.0	0.0
2352	63.543	63.543	-0.011	0.0	0.0	0.0
2376	63.539	63.539	-0.015	0.0	0.0	0.0
2400	63.536	63.536	-0.018	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.532	63.532	-0.022	0.0	0.0	0.0
2448	63.529	63.529	-0.025	0.0	0.0	0.0
2472	63.526	63.526	-0.029	0.0	0.0	0.0
2496	63.522	63.522	-0.032	0.0	0.0	0.0
2520	63.519	63.519	-0.035	0.0	0.0	0.0
2544	63.516	63.515	-0.038	0.0	0.0	0.0
2568	63.512	63.512	-0.042	0.0	0.0	0.0
2592	63.509	63.509	-0.046	0.0	0.0	0.0
2616	63.505	63.505	-0.049	0.0	0.0	0.0
2640	63.502	63.502	-0.052	0.0	0.0	0.0
2664	63.499	63.499	-0.056	0.0	0.0	0.0
2688	63.495	63.495	-0.059	0.0	0.0	0.0
2712	63.492	63.492	-0.062	0.0	0.0	0.0
2736	63.488	63.488	-0.066	0.0	0.0	0.0
2760	63.485	63.485	-0.069	0.0	0.0	0.0
2784	63.482	63.482	-0.072	0.0	0.0	0.0
2808	63.478	63.478	-0.076	0.0	0.0	0.0
2832	63.475	63.475	-0.079	0.0	0.0	0.0
2856	63.472	63.472	-0.082	0.0	0.0	0.0
2880	63.468	63.468	-0.086	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.253	63.100	-0.107	0.0	0.0	0.0
72	63.256	63.101	-0.104	0.0	0.0	0.0
96	63.259	63.103	-0.101	0.0	0.0	0.0
120	63.262	63.108	-0.098	0.0	0.1	0.0
144	63.266	63.115	-0.094	0.0	0.1	0.0
168	63.269	63.123	-0.091	0.0	0.2	0.0
192	63.271	63.132	-0.089	0.0	0.2	0.1
216	63.273	63.140	-0.087	0.0	0.2	0.1
240	63.275	63.147	-0.085	0.0	0.3	0.1
264	63.276	63.154	-0.084	0.0	0.3	0.1
288	63.278	63.161	-0.082	0.0	0.3	0.1
312	63.279	63.170	-0.081	0.0	0.3	0.1
336	63.281	63.182	-0.079	0.0	0.3	0.1
360	63.284	63.195	-0.076	0.0	0.3	0.1
384	63.287	63.209	-0.073	0.0	0.3	0.1
408	63.290	63.225	-0.070	0.0	0.3	0.1
432	63.295	63.243	-0.065	0.0	0.3	0.1
456	63.302	63.250	-0.058	0.0	0.2	0.1
480	63.312	63.251	-0.048	0.0	0.2	0.1
504	63.323	63.251	-0.037	0.0	0.2	0.1
528	63.335	63.255	-0.025	0.0	0.3	0.1
552	63.349	63.263	-0.011	0.0	0.3	0.1
576	63.365	63.266	0.005	0.0	0.2	0.1
600	63.384	63.259	0.024	0.0	0.2	0.1
624	63.404	63.264	0.044	0.0	0.3	0.1
648	63.424	63.281	0.064	0.0	0.3	0.1
672	63.444	63.311	0.084	0.0	0.3	0.1
696	63.465	63.351	0.105	0.0	0.3	0.2
720	63.486	63.386	0.126	0.0	0.3	0.2
744	63.508	63.415	0.148	0.0	0.2	0.1
768	63.529	63.439	0.169	0.0	0.1	0.1
792	63.549	63.462	0.189	0.0	0.0	0.1
816	63.568	63.482	0.208	0.0	0.0	0.1
840	63.586	63.501	0.226	0.0	0.0	0.1
864	63.601	63.519	0.241	0.0	0.0	0.1
888	63.616	63.535	0.256	0.0	0.0	0.1
912	63.628	63.549	0.268	0.0	0.0	0.1
936	63.639	63.562	0.279	0.0	0.0	0.1
960	63.648	63.573	0.288	0.0	0.0	0.1
984	63.655	63.582	0.295	0.0	0.0	0.1
1008	63.662	63.591	0.302	0.0	0.0	0.1
1032	63.668	63.598	0.308	0.0	0.0	0.1
1056	63.673	63.604	0.313	0.0	0.0	0.1
1080	63.677	63.609	0.317	0.0	0.0	0.1
1104	63.679	63.613	0.319	0.0	0.0	0.1
1128	63.682	63.617	0.322	0.0	0.0	0.1
1152	63.684	63.620	0.324	0.0	0.0	0.1
1176	63.685	63.622	0.325	0.0	0.0	0.1
1200	63.686	63.623	0.326	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.687	63.625	0.327	0.0	0.0	0.1
1248	63.688	63.626	0.328	0.0	0.0	0.1
1272	63.690	63.627	0.330	0.0	0.0	0.1
1296	63.691	63.628	0.331	0.0	0.0	0.1
1320	63.692	63.630	0.332	0.0	0.0	0.1
1344	63.693	63.631	0.333	0.0	0.0	0.1
1368	63.693	63.631	0.333	0.0	0.0	0.1
1392	63.692	63.632	0.332	0.0	0.0	0.1
1416	63.690	63.631	0.330	0.0	0.0	0.1
1440	63.686	63.630	0.326	0.0	0.0	0.1
1464	63.681	63.627	0.321	0.0	0.0	0.1
1488	63.675	63.622	0.315	0.0	0.0	0.1
1512	63.671	63.617	0.311	0.0	0.0	0.1
1536	63.666	63.613	0.306	0.0	0.0	0.1
1560	63.662	63.609	0.302	0.0	0.0	0.1
1584	63.658	63.604	0.298	0.0	0.0	0.1
1608	63.654	63.600	0.294	0.0	0.0	0.1
1632	63.650	63.597	0.290	0.0	0.0	0.1
1656	63.646	63.593	0.286	0.0	0.0	0.1
1680	63.643	63.589	0.283	0.0	0.0	0.1
1704	63.639	63.586	0.279	0.0	0.0	0.1
1728	63.635	63.582	0.275	0.0	0.0	0.1
1752	63.632	63.578	0.272	0.0	0.0	0.1
1776	63.628	63.575	0.268	0.0	0.0	0.1
1800	63.624	63.571	0.264	0.0	0.0	0.1
1824	63.621	63.568	0.261	0.0	0.0	0.1
1848	63.617	63.564	0.257	0.0	0.0	0.1
1872	63.614	63.561	0.254	0.0	0.0	0.1
1896	63.610	63.557	0.250	0.0	0.0	0.1
1920	63.606	63.554	0.246	0.0	0.0	0.1
1944	63.603	63.550	0.243	0.0	0.0	0.1
1968	63.599	63.547	0.239	0.0	0.0	0.1
1992	63.596	63.543	0.236	0.0	0.0	0.1
2016	63.592	63.540	0.232	0.0	0.0	0.1
2040	63.588	63.536	0.228	0.0	0.0	0.1
2064	63.585	63.533	0.225	0.0	0.0	0.1
2088	63.581	63.530	0.221	0.0	0.0	0.1
2112	63.578	63.526	0.218	0.0	0.0	0.1
2136	63.574	63.523	0.214	0.0	0.0	0.1
2160	63.571	63.519	0.211	0.0	0.0	0.1
2184	63.567	63.516	0.207	0.0	0.0	0.1
2208	63.564	63.512	0.204	0.0	0.0	0.1
2232	63.560	63.509	0.200	0.0	0.0	0.1
2256	63.557	63.506	0.197	0.0	0.0	0.1
2280	63.553	63.502	0.193	0.0	0.0	0.1
2304	63.550	63.499	0.190	0.0	0.0	0.1
2328	63.546	63.495	0.186	0.0	0.0	0.1
2352	63.543	63.492	0.183	0.0	0.0	0.1
2376	63.539	63.489	0.179	0.0	0.0	0.1
2400	63.536	63.485	0.176	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.532	63.482	0.172	0.0	0.0	0.1
2448	63.529	63.479	0.169	0.0	0.0	0.1
2472	63.526	63.476	0.166	0.0	0.0	0.1
2496	63.522	63.472	0.162	0.0	0.0	0.1
2520	63.519	63.469	0.159	0.0	0.0	0.1
2544	63.515	63.466	0.155	0.0	0.0	0.1
2568	63.512	63.462	0.152	0.0	0.0	0.1
2592	63.509	63.459	0.149	0.0	0.0	0.1
2616	63.505	63.456	0.145	0.0	0.0	0.1
2640	63.502	63.453	0.142	0.0	0.0	0.1
2664	63.499	63.449	0.139	0.0	0.0	0.1
2688	63.495	63.446	0.135	0.0	0.0	0.1
2712	63.492	63.443	0.132	0.0	0.0	0.1
2736	63.488	63.440	0.128	0.0	0.0	0.1
2760	63.485	63.436	0.125	0.0	0.0	0.1
2784	63.482	63.433	0.122	0.0	0.0	0.1
2808	63.478	63.430	0.118	0.0	0.0	0.1
2832	63.475	63.427	0.115	0.0	0.0	0.1
2856	63.472	63.423	0.112	0.0	0.0	0.1
2880	63.468	63.420	0.108	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.101	63.096	-0.109	0.0	0.0	0.0
96	63.103	63.096	-0.107	0.0	0.0	0.0
120	63.108	63.096	-0.102	0.0	0.0	0.0
144	63.115	63.096	-0.095	0.0	0.0	0.0
168	63.123	63.096	-0.087	0.0	0.0	0.0
192	63.132	63.096	-0.078	0.0	0.0	0.0
216	63.140	63.096	-0.070	0.0	0.0	0.0
240	63.147	63.096	-0.063	0.0	0.0	0.0
264	63.154	63.096	-0.056	0.0	0.0	0.0
288	63.161	63.096	-0.049	0.0	0.0	0.0
312	63.170	63.096	-0.040	0.0	0.0	0.0
336	63.182	63.096	-0.028	0.0	0.0	0.0
360	63.195	63.096	-0.015	0.0	0.0	0.0
384	63.209	63.096	-0.001	0.0	0.0	0.0
408	63.225	63.096	0.015	0.0	0.0	0.0
432	63.243	63.096	0.033	0.0	0.0	0.0
456	63.250	63.096	0.040	0.0	0.0	0.0
480	63.251	63.096	0.041	0.0	0.0	0.0
504	63.251	63.096	0.041	0.0	0.0	0.0
528	63.255	63.096	0.045	0.0	0.0	0.0
552	63.263	63.096	0.053	0.0	0.0	0.0
576	63.266	63.096	0.056	0.0	0.0	0.0
600	63.259	63.096	0.049	0.0	0.0	0.0
624	63.264	63.096	0.054	0.0	0.0	0.0
648	63.281	63.096	0.071	0.0	0.0	0.0
672	63.311	63.096	0.101	0.0	0.0	0.0
696	63.351	63.096	0.141	0.0	0.1	0.0
720	63.386	63.096	0.176	0.0	0.1	0.0
744	63.415	63.096	0.205	0.0	0.1	0.0
768	63.439	63.096	0.229	0.0	0.1	0.0
792	63.462	63.096	0.252	0.0	0.1	0.0
816	63.482	63.096	0.272	0.0	0.1	0.0
840	63.501	63.096	0.291	0.0	0.1	0.0
864	63.519	63.096	0.309	0.0	0.1	0.0
888	63.535	63.096	0.325	0.0	0.1	0.0
912	63.549	63.096	0.339	0.0	0.1	0.0
936	63.562	63.096	0.352	0.0	0.1	0.0
960	63.573	63.096	0.363	0.0	0.1	0.0
984	63.582	63.096	0.372	0.0	0.1	0.0
1008	63.591	63.096	0.381	0.0	0.1	0.0
1032	63.598	63.096	0.388	0.0	0.1	0.0
1056	63.604	63.096	0.394	0.0	0.1	0.0
1080	63.609	63.096	0.399	0.0	0.1	0.0
1104	63.613	63.096	0.403	0.0	0.1	0.0
1128	63.617	63.096	0.407	0.0	0.1	0.0
1152	63.620	63.096	0.410	0.0	0.1	0.0
1176	63.622	63.096	0.412	0.0	0.1	0.0
1200	63.623	63.096	0.413	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.625	63.096	0.415	0.0	0.1	0.0
1248	63.626	63.096	0.416	0.0	0.1	0.0
1272	63.627	63.096	0.417	0.0	0.1	0.0
1296	63.628	63.096	0.418	0.0	0.1	0.0
1320	63.630	63.096	0.420	0.0	0.1	0.0
1344	63.631	63.096	0.421	0.0	0.1	0.0
1368	63.631	63.096	0.421	0.0	0.1	0.0
1392	63.632	63.096	0.422	0.0	0.1	0.0
1416	63.631	63.096	0.421	0.0	0.1	0.0
1440	63.630	63.096	0.420	0.0	0.1	0.0
1464	63.627	63.096	0.417	0.0	0.1	0.0
1488	63.622	63.096	0.412	0.0	0.1	0.0
1512	63.617	63.096	0.407	0.0	0.1	0.0
1536	63.613	63.096	0.403	0.0	0.1	0.0
1560	63.609	63.096	0.399	0.0	0.1	0.0
1584	63.604	63.096	0.394	0.0	0.1	0.0
1608	63.600	63.096	0.390	0.0	0.1	0.0
1632	63.597	63.096	0.387	0.0	0.1	0.0
1656	63.593	63.096	0.383	0.0	0.1	0.0
1680	63.589	63.096	0.379	0.0	0.1	0.0
1704	63.586	63.096	0.376	0.0	0.1	0.0
1728	63.582	63.096	0.372	0.0	0.1	0.0
1752	63.578	63.096	0.368	0.0	0.1	0.0
1776	63.575	63.096	0.365	0.0	0.1	0.0
1800	63.571	63.096	0.361	0.0	0.1	0.0
1824	63.568	63.096	0.358	0.0	0.1	0.0
1848	63.564	63.096	0.354	0.0	0.1	0.0
1872	63.561	63.096	0.351	0.0	0.1	0.0
1896	63.557	63.096	0.347	0.0	0.1	0.0
1920	63.554	63.096	0.344	0.0	0.1	0.0
1944	63.550	63.096	0.340	0.0	0.1	0.0
1968	63.547	63.096	0.337	0.0	0.1	0.0
1992	63.543	63.096	0.333	0.0	0.1	0.0
2016	63.540	63.096	0.330	0.0	0.1	0.0
2040	63.536	63.096	0.326	0.0	0.1	0.0
2064	63.533	63.096	0.323	0.0	0.1	0.0
2088	63.530	63.096	0.320	0.0	0.1	0.0
2112	63.526	63.096	0.316	0.0	0.1	0.0
2136	63.523	63.096	0.313	0.0	0.1	0.0
2160	63.519	63.096	0.309	0.0	0.1	0.0
2184	63.516	63.096	0.306	0.0	0.1	0.0
2208	63.512	63.096	0.302	0.0	0.1	0.0
2232	63.509	63.096	0.299	0.0	0.1	0.0
2256	63.506	63.096	0.296	0.0	0.1	0.0
2280	63.502	63.096	0.292	0.0	0.1	0.0
2304	63.499	63.096	0.289	0.0	0.1	0.0
2328	63.495	63.096	0.285	0.0	0.1	0.0
2352	63.492	63.096	0.282	0.0	0.1	0.0
2376	63.489	63.096	0.279	0.0	0.1	0.0
2400	63.485	63.096	0.275	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
1440 minute 100 year Winter
Average Rainfall Intensity 3.824 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.482	63.096	0.272	0.0	0.1	0.0
2448	63.479	63.096	0.269	0.0	0.1	0.0
2472	63.476	63.096	0.266	0.0	0.1	0.0
2496	63.472	63.096	0.262	0.0	0.1	0.0
2520	63.469	63.096	0.259	0.0	0.1	0.0
2544	63.466	63.096	0.256	0.0	0.1	0.0
2568	63.462	63.096	0.252	0.0	0.1	0.0
2592	63.459	63.096	0.249	0.0	0.1	0.0
2616	63.456	63.096	0.246	0.0	0.1	0.0
2640	63.453	63.096	0.243	0.0	0.1	0.0
2664	63.449	63.096	0.239	0.0	0.1	0.0
2688	63.446	63.096	0.236	0.0	0.1	0.0
2712	63.443	63.096	0.233	0.0	0.1	0.0
2736	63.440	63.096	0.230	0.0	0.1	0.0
2760	63.436	63.096	0.226	0.0	0.1	0.0
2784	63.433	63.096	0.223	0.0	0.1	0.0
2808	63.430	63.096	0.220	0.0	0.1	0.0
2832	63.427	63.096	0.217	0.0	0.1	0.0
2856	63.423	63.096	0.213	0.0	0.1	0.0
2880	63.420	63.096	0.210	0.0	0.1	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	4320
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	2160
Ratio R	0.343		

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 2160 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.404	-0.106	0.000	0.01	0.0	0.2	OK
1.001	S1	63.665	0.061	0.000	0.05	0.0	0.3	SURCHARGED
2.000	RE2	65.404	-0.106	0.000	0.01	0.0	0.2	OK
2.001	S2	65.006	-0.104	0.000	0.01	0.0	0.3	OK
1.002	S3	63.665	0.111	0.000	0.10	0.0	0.7	SURCHARGED
1.003	S4	63.665	0.305	0.000	0.03	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.605	0.395	0.000	0.01	0.0	0.0	SURCHARGED

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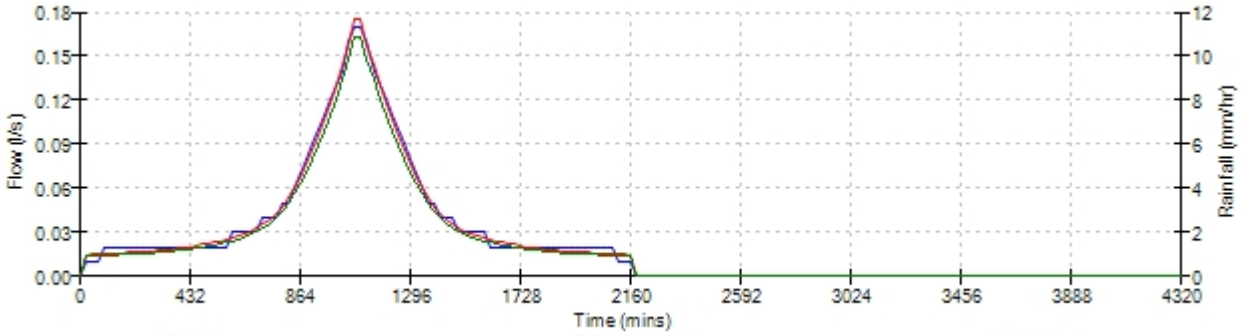
Rainfall Hyetograph for 2160 minute 100 year Summer (Storm)

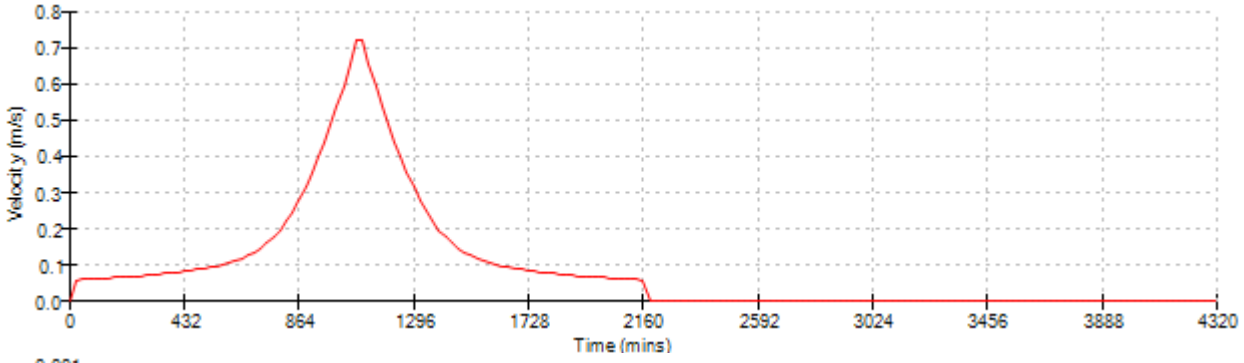
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.895	456	1.288	888	4.791	1320	4.194	1752	1.252
48	0.920	480	1.344	912	5.354	1344	3.720	1776	1.221
72	0.929	504	1.383	936	5.968	1368	3.321	1800	1.191
96	0.948	528	1.433	960	6.603	1392	2.945	1824	1.160
120	0.962	552	1.478	984	7.306	1416	2.649	1848	1.129
144	0.976	576	1.539	1008	8.076	1440	2.421	1872	1.099
168	0.996	600	1.601	1032	8.912	1464	2.225	1896	1.068
192	1.004	624	1.684	1056	9.816	1488	2.041	1920	1.060
216	1.029	648	1.776	1080	10.837	1512	1.907	1944	1.035
240	1.035	672	1.907	1104	10.837	1536	1.776	1968	1.029
264	1.060	696	2.041	1128	9.816	1560	1.684	1992	1.004
288	1.068	720	2.225	1152	8.912	1584	1.601	2016	0.996
312	1.099	744	2.421	1176	8.076	1608	1.539	2040	0.976
336	1.129	768	2.649	1200	7.306	1632	1.478	2064	0.962
360	1.160	792	2.945	1224	6.603	1656	1.433	2088	0.948
384	1.191	816	3.321	1248	5.968	1680	1.383	2112	0.929
408	1.221	840	3.720	1272	5.354	1704	1.344	2136	0.920
432	1.252	864	4.194	1296	4.791	1728	1.288	2160	0.895

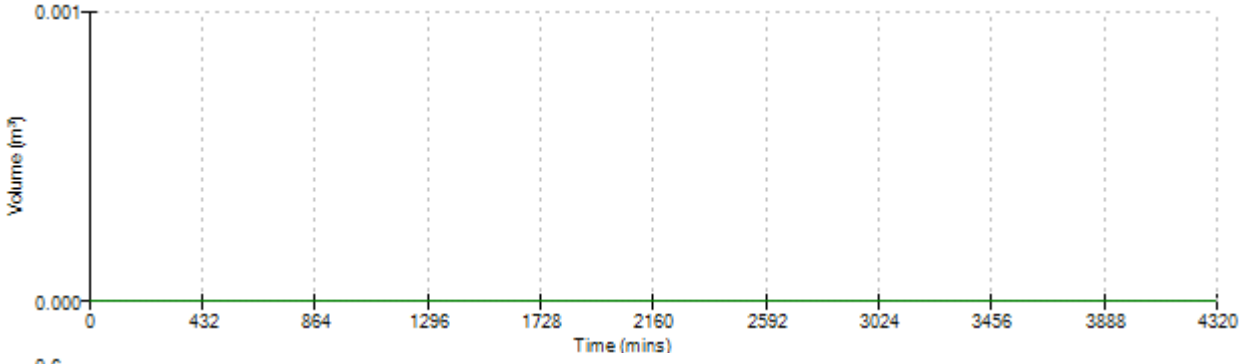
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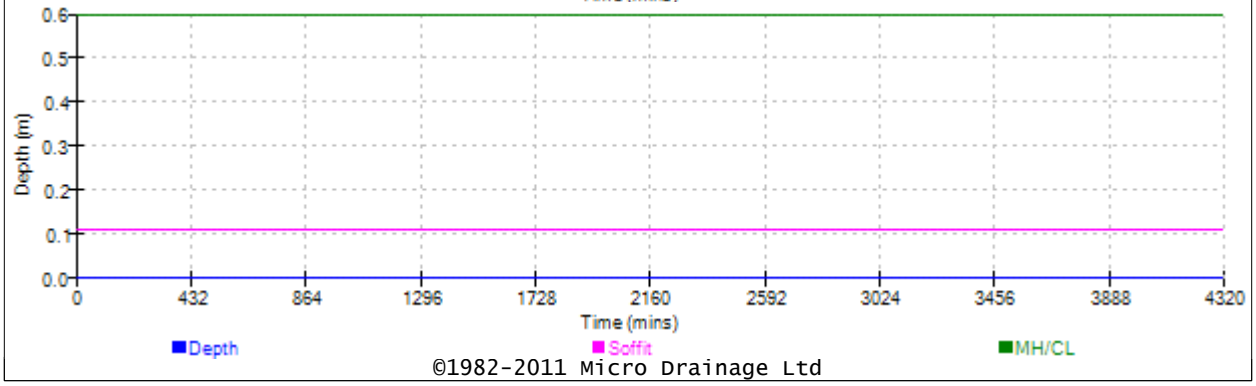
Dixon Hurst Kemp		Page 7
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road. Hassocks Surface Water Drainage Design Simulation Rev03	Micro Drainage
Date Nov 25 File COMBINED ATTENUATION ...	Designed by JS Checked by	
Elstree Computing Ltd	Network W.12.6	

Graphs for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Summer
Status: OK



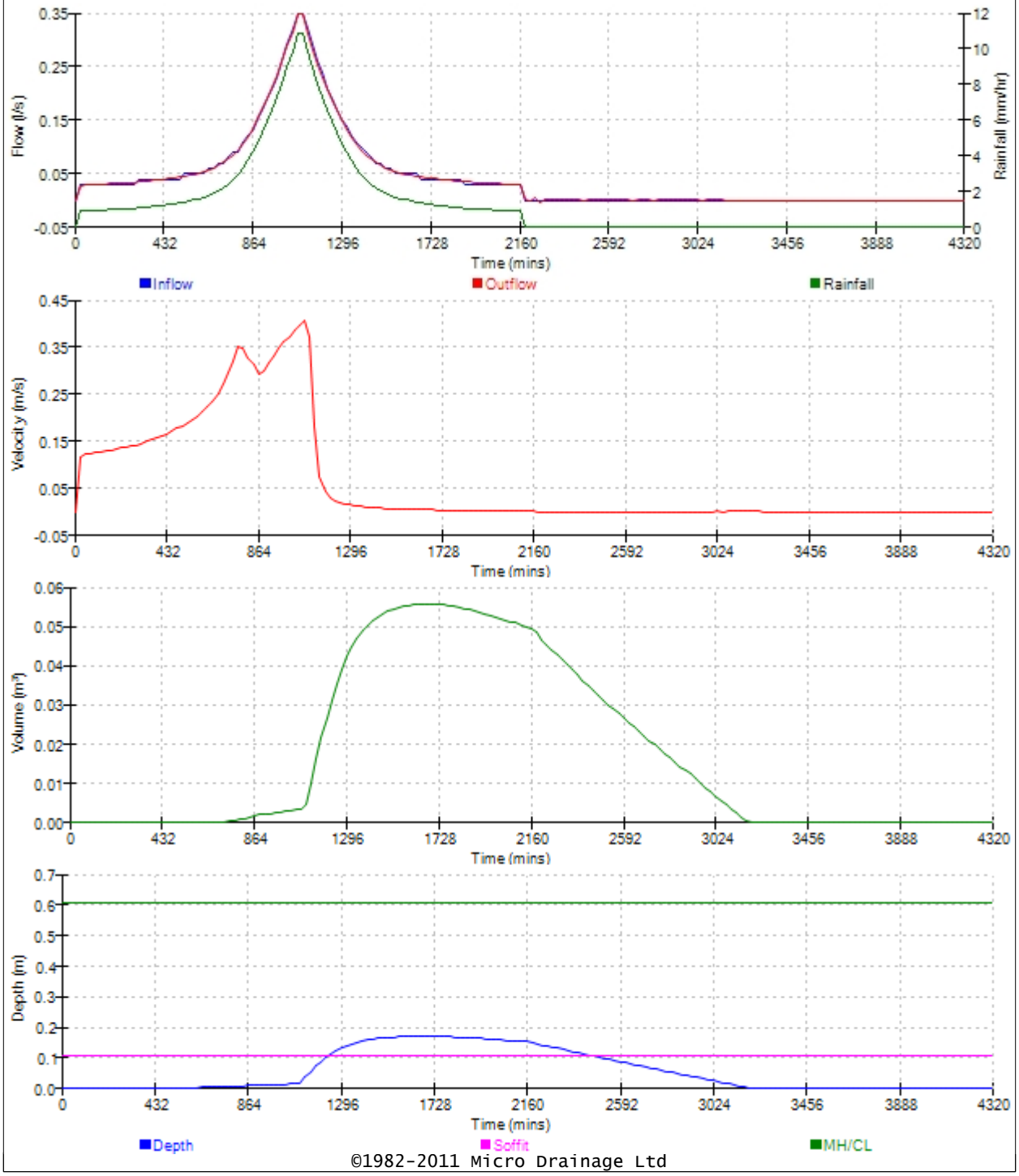






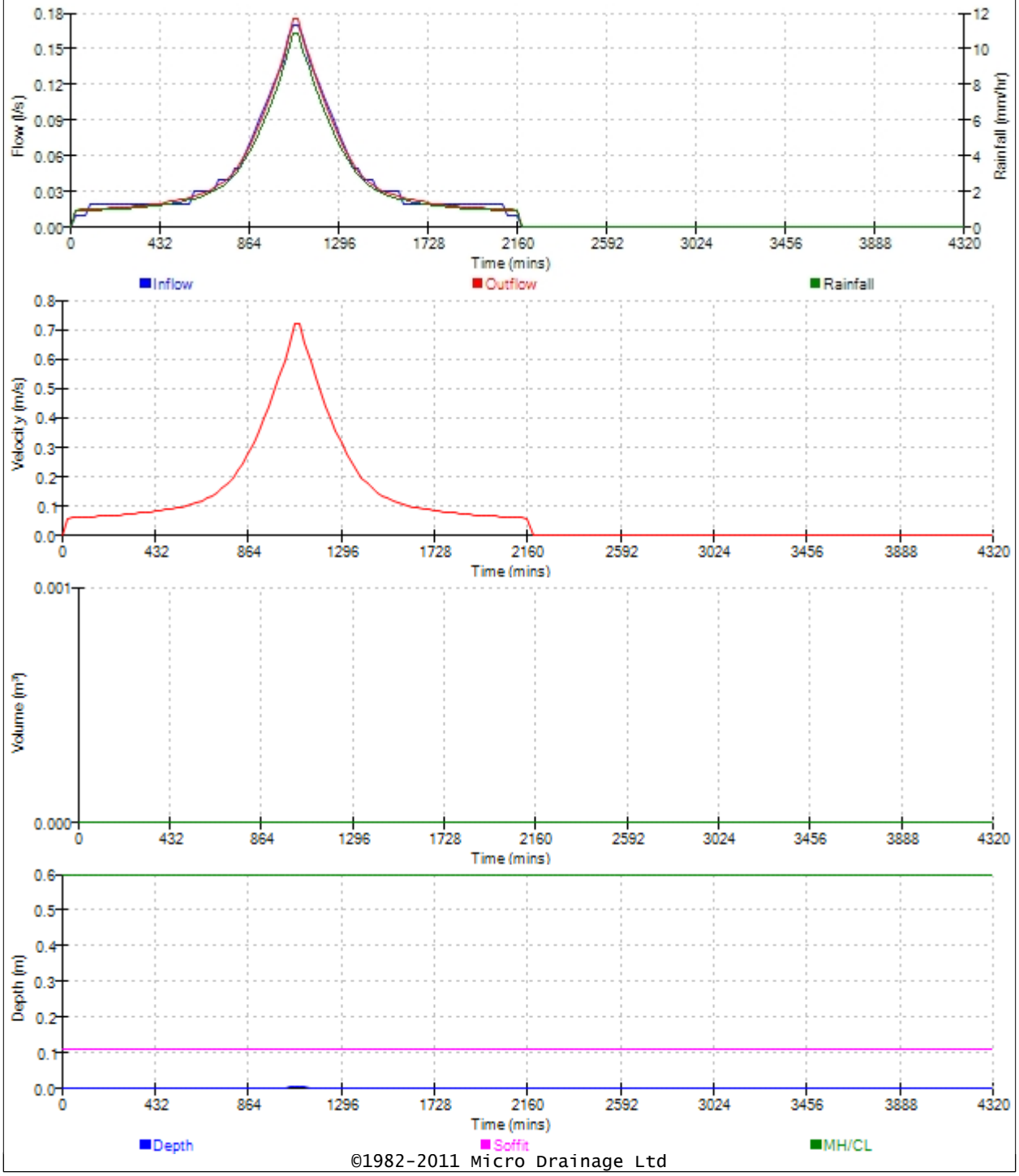
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Graphs for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Summer
Status: SURCHARGED



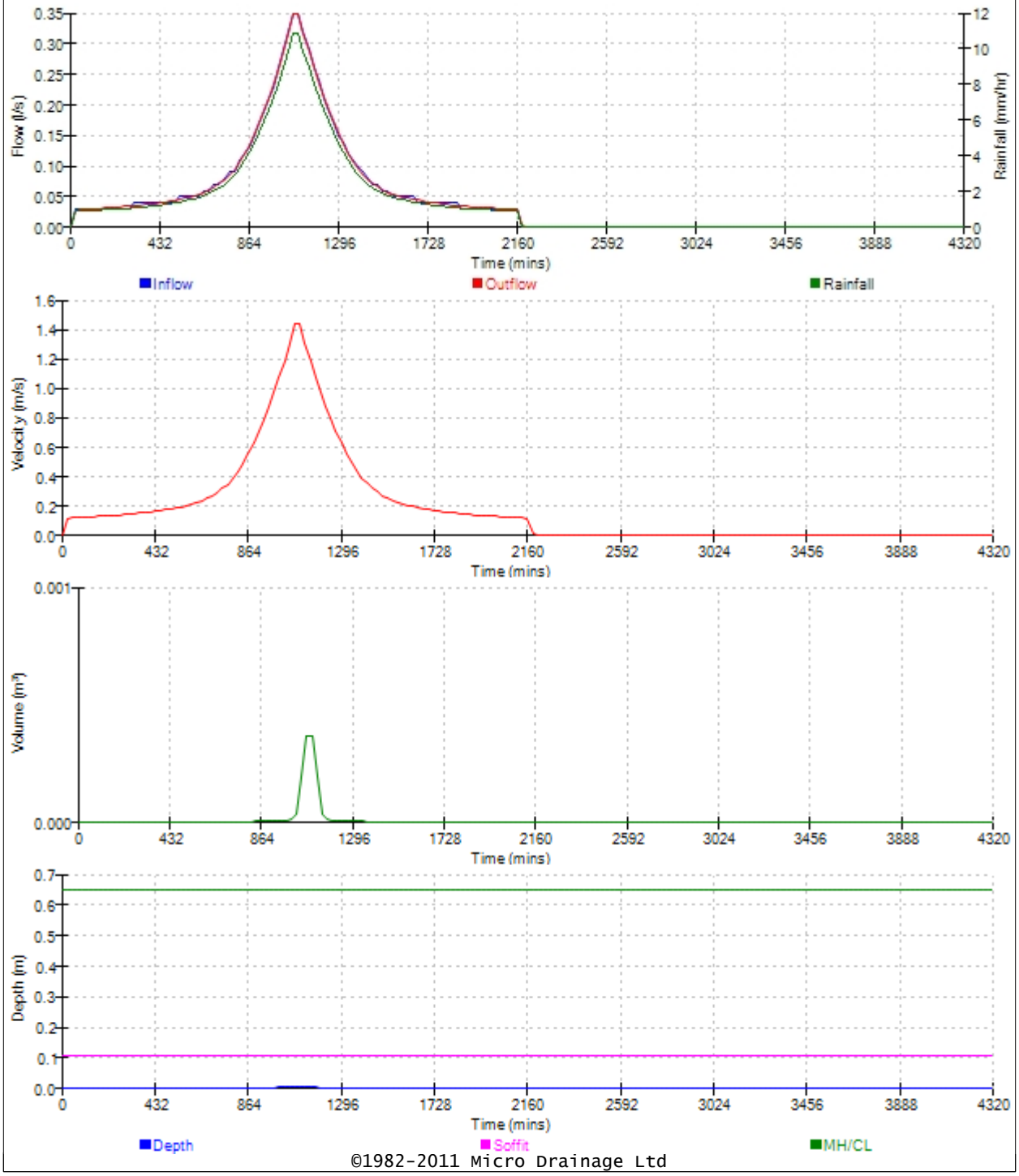
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Summer
Status: OK



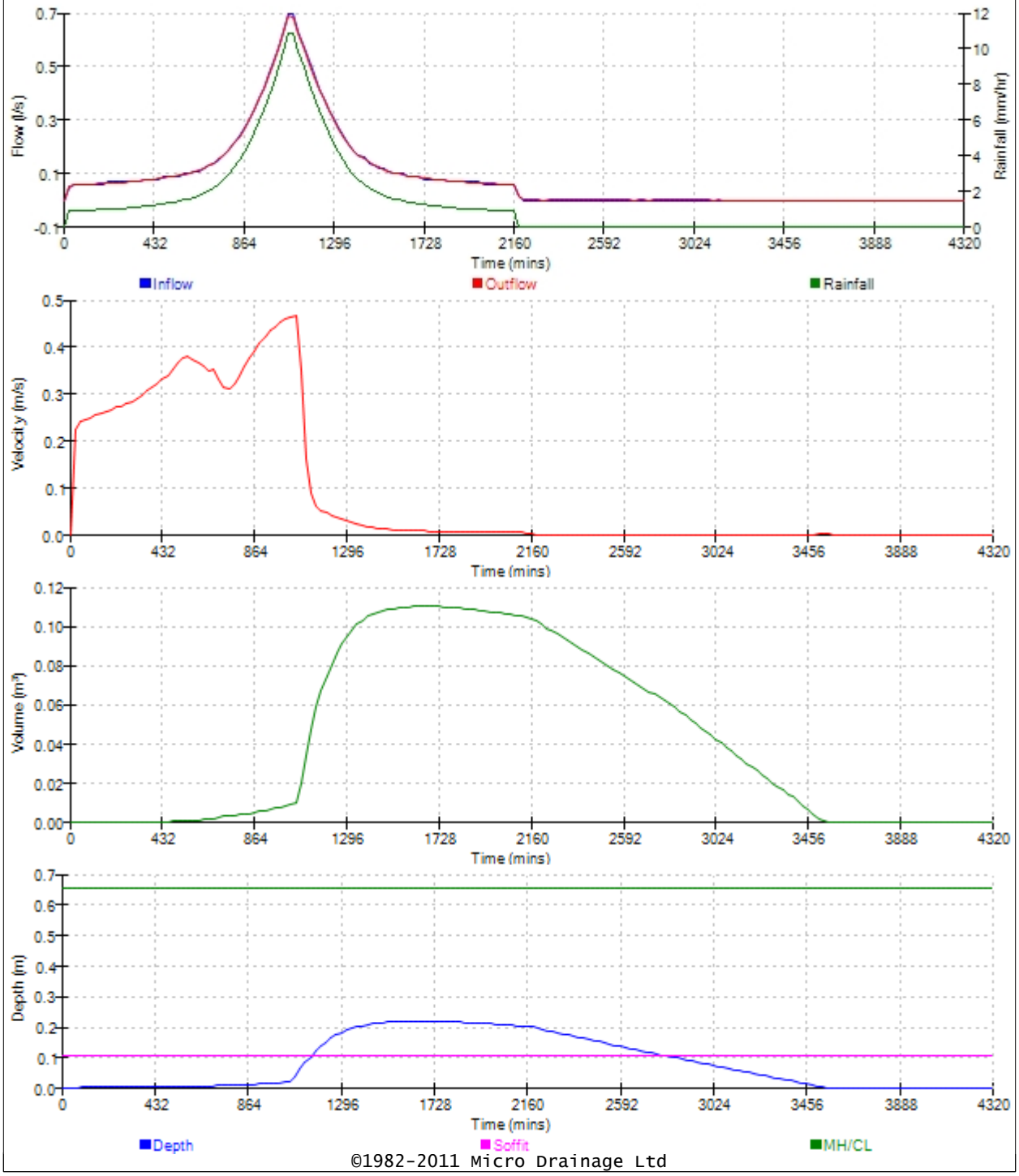
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Graphs for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Summer
Status: OK



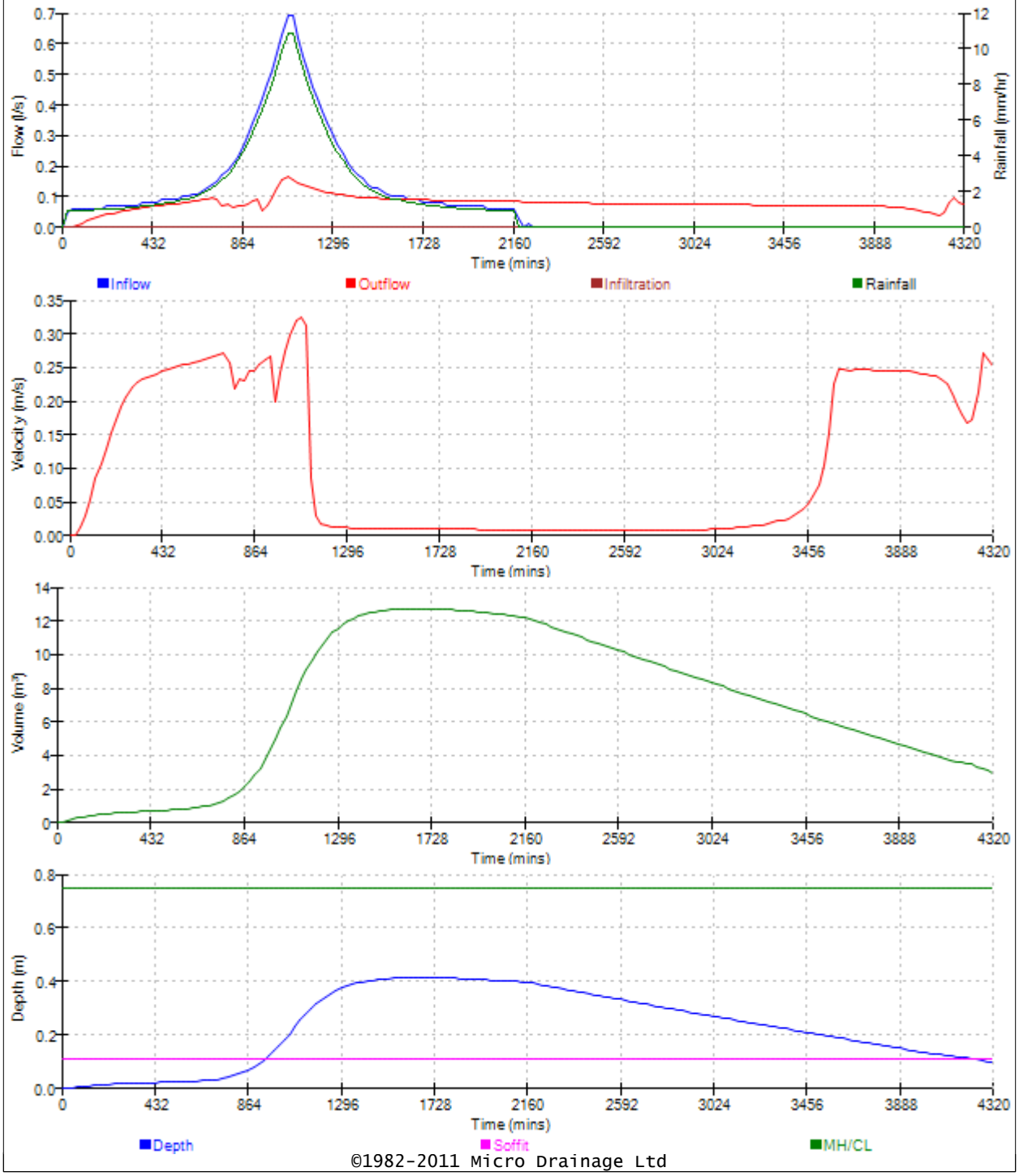
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Graphs for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Summer
Status: SURCHARGED



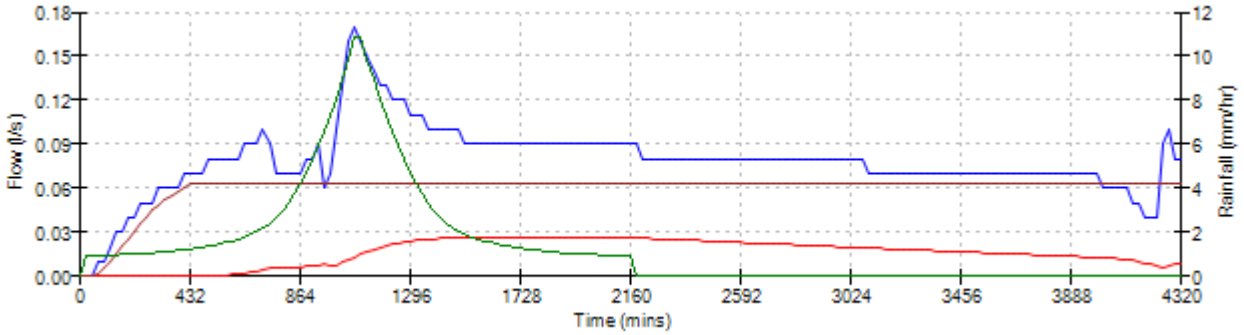
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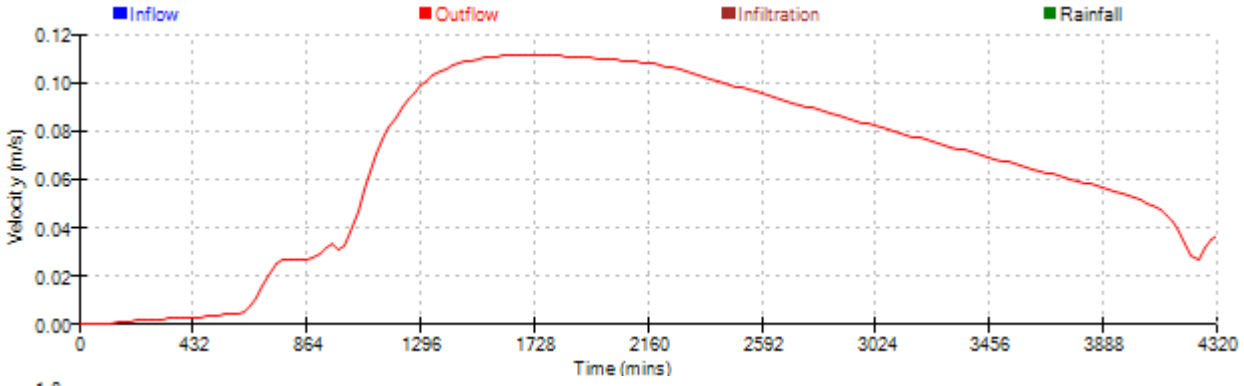
Graphs for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Summer
Status: SURCHARGED

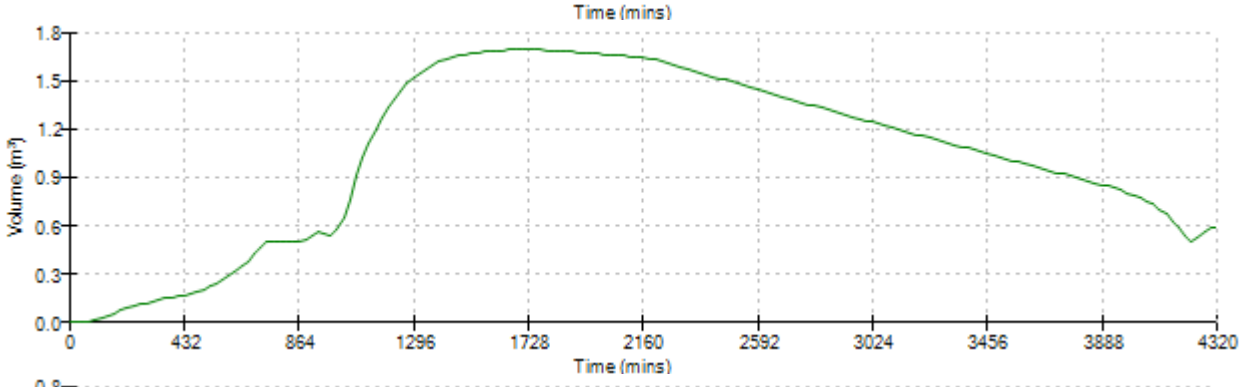


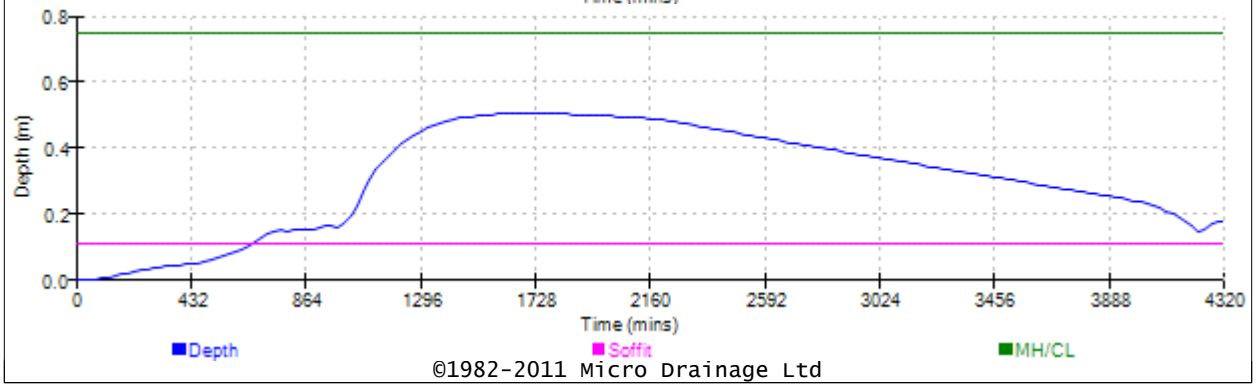
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.496	-0.110	0.0	0.1	0.0
48	65.400	63.496	-0.110	0.0	0.1	0.0
72	65.400	63.496	-0.110	0.0	0.1	0.0
96	65.400	63.496	-0.110	0.0	0.1	0.0
120	65.400	63.497	-0.110	0.0	0.1	0.0
144	65.400	63.497	-0.110	0.0	0.1	0.0
168	65.400	63.497	-0.110	0.0	0.1	0.0
192	65.400	63.497	-0.110	0.0	0.1	0.0
216	65.400	63.497	-0.110	0.0	0.1	0.0
240	65.400	63.497	-0.110	0.0	0.1	0.0
264	65.400	63.497	-0.110	0.0	0.1	0.0
288	65.400	63.497	-0.110	0.0	0.1	0.0
312	65.400	63.497	-0.110	0.0	0.1	0.0
336	65.400	63.497	-0.110	0.0	0.1	0.0
360	65.400	63.497	-0.110	0.0	0.1	0.0
384	65.400	63.497	-0.110	0.0	0.1	0.0
408	65.400	63.497	-0.110	0.0	0.1	0.0
432	65.400	63.497	-0.110	0.0	0.1	0.0
456	65.400	63.497	-0.110	0.0	0.1	0.0
480	65.400	63.497	-0.110	0.0	0.1	0.0
504	65.400	63.498	-0.110	0.0	0.1	0.0
528	65.400	63.498	-0.110	0.0	0.1	0.0
552	65.400	63.498	-0.110	0.0	0.1	0.0
576	65.401	63.498	-0.109	0.0	0.1	0.0
600	65.401	63.498	-0.109	0.0	0.1	0.0
624	65.401	63.498	-0.109	0.0	0.1	0.0
648	65.401	63.499	-0.109	0.0	0.1	0.0
672	65.401	63.499	-0.109	0.0	0.1	0.0
696	65.401	63.499	-0.109	0.0	0.1	0.0
720	65.401	63.500	-0.109	0.0	0.1	0.0
744	65.401	63.500	-0.109	0.0	0.2	0.0
768	65.401	63.501	-0.109	0.0	0.2	0.0
792	65.401	63.501	-0.109	0.0	0.2	0.0
816	65.401	63.502	-0.109	0.0	0.2	0.1
840	65.401	63.503	-0.109	0.0	0.2	0.1
864	65.401	63.505	-0.109	0.0	0.3	0.1
888	65.402	63.505	-0.108	0.0	0.3	0.1
912	65.402	63.506	-0.108	0.0	0.4	0.1
936	65.402	63.506	-0.108	0.0	0.4	0.1
960	65.402	63.507	-0.108	0.0	0.4	0.1
984	65.402	63.507	-0.108	0.0	0.5	0.1
1008	65.403	63.508	-0.107	0.0	0.5	0.1
1032	65.403	63.509	-0.107	0.0	0.6	0.1
1056	65.403	63.509	-0.107	0.0	0.7	0.2
1080	65.404	63.510	-0.106	0.0	0.7	0.2
1104	65.404	63.514	-0.106	0.0	0.7	0.2
1128	65.403	63.530	-0.107	0.0	0.7	0.2
1152	65.403	63.550	-0.107	0.0	0.6	0.1
1176	65.403	63.568	-0.107	0.0	0.5	0.1
1200	65.402	63.583	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.402	63.597	-0.108	0.0	0.4	0.1
1248	65.402	63.609	-0.108	0.0	0.4	0.1
1272	65.402	63.619	-0.108	0.0	0.4	0.1
1296	65.402	63.628	-0.108	0.0	0.3	0.1
1320	65.401	63.635	-0.109	0.0	0.3	0.1
1344	65.401	63.641	-0.109	0.0	0.2	0.1
1368	65.401	63.646	-0.109	0.0	0.2	0.1
1392	65.401	63.650	-0.109	0.0	0.2	0.0
1416	65.401	63.653	-0.109	0.0	0.2	0.0
1440	65.401	63.656	-0.109	0.0	0.2	0.0
1464	65.401	63.658	-0.109	0.0	0.1	0.0
1488	65.401	63.660	-0.109	0.0	0.1	0.0
1512	65.401	63.661	-0.109	0.0	0.1	0.0
1536	65.401	63.663	-0.109	0.0	0.1	0.0
1560	65.401	63.664	-0.109	0.0	0.1	0.0
1584	65.401	63.664	-0.109	0.0	0.1	0.0
1608	65.401	63.665	-0.109	0.0	0.1	0.0
1632	65.400	63.665	-0.110	0.0	0.1	0.0
1656	65.400	63.665	-0.110	0.0	0.1	0.0
1680	65.400	63.665	-0.110	0.0	0.1	0.0
1704	65.400	63.665	-0.110	0.0	0.1	0.0
1728	65.400	63.665	-0.110	0.0	0.1	0.0
1752	65.400	63.664	-0.110	0.0	0.1	0.0
1776	65.400	63.664	-0.110	0.0	0.1	0.0
1800	65.400	63.663	-0.110	0.0	0.1	0.0
1824	65.400	63.663	-0.110	0.0	0.1	0.0
1848	65.400	63.662	-0.110	0.0	0.1	0.0
1872	65.400	63.661	-0.110	0.0	0.1	0.0
1896	65.400	63.660	-0.110	0.0	0.1	0.0
1920	65.400	63.659	-0.110	0.0	0.1	0.0
1944	65.400	63.658	-0.110	0.0	0.1	0.0
1968	65.400	63.657	-0.110	0.0	0.1	0.0
1992	65.400	63.656	-0.110	0.0	0.1	0.0
2016	65.400	63.654	-0.110	0.0	0.1	0.0
2040	65.400	63.654	-0.110	0.0	0.1	0.0
2064	65.400	63.653	-0.110	0.0	0.1	0.0
2088	65.400	63.652	-0.110	0.0	0.1	0.0
2112	65.400	63.650	-0.110	0.0	0.1	0.0
2136	65.400	63.649	-0.110	0.0	0.1	0.0
2160	65.400	63.648	-0.110	0.0	0.1	0.0
2184	65.400	63.645	-0.110	0.0	0.0	0.0
2208	65.400	63.640	-0.110	0.0	0.0	0.0
2232	65.400	63.636	-0.110	0.0	0.0	0.0
2256	65.400	63.633	-0.110	0.0	0.0	0.0
2280	65.400	63.629	-0.110	0.0	0.0	0.0
2304	65.400	63.626	-0.110	0.0	0.0	0.0
2328	65.400	63.622	-0.110	0.0	0.0	0.0
2352	65.400	63.619	-0.110	0.0	0.0	0.0
2376	65.400	63.615	-0.110	0.0	0.0	0.0
2400	65.400	63.612	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.608	-0.110	0.0	0.0	0.0
2448	65.400	63.604	-0.110	0.0	0.0	0.0
2472	65.400	63.601	-0.110	0.0	0.0	0.0
2496	65.400	63.597	-0.110	0.0	0.0	0.0
2520	65.400	63.594	-0.110	0.0	0.0	0.0
2544	65.400	63.590	-0.110	0.0	0.0	0.0
2568	65.400	63.586	-0.110	0.0	0.0	0.0
2592	65.400	63.583	-0.110	0.0	0.0	0.0
2616	65.400	63.579	-0.110	0.0	0.0	0.0
2640	65.400	63.576	-0.110	0.0	0.0	0.0
2664	65.400	63.572	-0.110	0.0	0.0	0.0
2688	65.400	63.569	-0.110	0.0	0.0	0.0
2712	65.400	63.565	-0.110	0.0	0.0	0.0
2736	65.400	63.562	-0.110	0.0	0.0	0.0
2760	65.400	63.558	-0.110	0.0	0.0	0.0
2784	65.400	63.554	-0.110	0.0	0.0	0.0
2808	65.400	63.551	-0.110	0.0	0.0	0.0
2832	65.400	63.548	-0.110	0.0	0.0	0.0
2856	65.400	63.544	-0.110	0.0	0.0	0.0
2880	65.400	63.541	-0.110	0.0	0.0	0.0
2904	65.400	63.538	-0.110	0.0	0.0	0.0
2928	65.400	63.534	-0.110	0.0	0.0	0.0
2952	65.400	63.531	-0.110	0.0	0.0	0.0
2976	65.400	63.527	-0.110	0.0	0.0	0.0
3000	65.400	63.524	-0.110	0.0	0.0	0.0
3024	65.400	63.520	-0.110	0.0	0.0	0.0
3048	65.400	63.517	-0.110	0.0	0.0	0.0
3072	65.400	63.514	-0.110	0.0	0.0	0.0
3096	65.400	63.510	-0.110	0.0	0.0	0.0
3120	65.400	63.507	-0.110	0.0	0.0	0.0
3144	65.400	63.504	-0.110	0.0	0.0	0.0
3168	65.400	63.501	-0.110	0.0	0.0	0.0
3192	65.400	63.497	-0.110	0.0	0.0	0.0
3216	65.400	63.494	-0.110	0.0	0.0	0.0
3240	65.400	63.494	-0.110	0.0	0.0	0.0
3264	65.400	63.494	-0.110	0.0	0.0	0.0
3288	65.400	63.494	-0.110	0.0	0.0	0.0
3312	65.400	63.494	-0.110	0.0	0.0	0.0
3336	65.400	63.494	-0.110	0.0	0.0	0.0
3360	65.400	63.494	-0.110	0.0	0.0	0.0
3384	65.400	63.494	-0.110	0.0	0.0	0.0
3408	65.400	63.494	-0.110	0.0	0.0	0.0
3432	65.400	63.494	-0.110	0.0	0.0	0.0
3456	65.400	63.494	-0.110	0.0	0.0	0.0
3480	65.400	63.494	-0.110	0.0	0.0	0.0
3504	65.400	63.494	-0.110	0.0	0.0	0.0
3528	65.400	63.494	-0.110	0.0	0.0	0.0
3552	65.400	63.494	-0.110	0.0	0.0	0.0
3576	65.400	63.494	-0.110	0.0	0.0	0.0
3600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.494	-0.110	0.0	0.0	0.0
3648	65.400	63.494	-0.110	0.0	0.0	0.0
3672	65.400	63.494	-0.110	0.0	0.0	0.0
3696	65.400	63.494	-0.110	0.0	0.0	0.0
3720	65.400	63.494	-0.110	0.0	0.0	0.0
3744	65.400	63.494	-0.110	0.0	0.0	0.0
3768	65.400	63.494	-0.110	0.0	0.0	0.0
3792	65.400	63.494	-0.110	0.0	0.0	0.0
3816	65.400	63.494	-0.110	0.0	0.0	0.0
3840	65.400	63.494	-0.110	0.0	0.0	0.0
3864	65.400	63.494	-0.110	0.0	0.0	0.0
3888	65.400	63.494	-0.110	0.0	0.0	0.0
3912	65.400	63.494	-0.110	0.0	0.0	0.0
3936	65.400	63.494	-0.110	0.0	0.0	0.0
3960	65.400	63.494	-0.110	0.0	0.0	0.0
3984	65.400	63.494	-0.110	0.0	0.0	0.0
4008	65.400	63.494	-0.110	0.0	0.0	0.0
4032	65.400	63.494	-0.110	0.0	0.0	0.0
4056	65.400	63.494	-0.110	0.0	0.0	0.0
4080	65.400	63.494	-0.110	0.0	0.0	0.0
4104	65.400	63.494	-0.110	0.0	0.0	0.0
4128	65.400	63.494	-0.110	0.0	0.0	0.0
4152	65.400	63.494	-0.110	0.0	0.0	0.0
4176	65.400	63.494	-0.110	0.0	0.0	0.0
4200	65.400	63.494	-0.110	0.0	0.0	0.0
4224	65.400	63.494	-0.110	0.0	0.0	0.0
4248	65.400	63.494	-0.110	0.0	0.0	0.0
4272	65.400	63.494	-0.110	0.0	0.0	0.0
4296	65.400	63.494	-0.110	0.0	0.0	0.0
4320	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.496	63.448	-0.108	0.0	0.1	0.0
48	63.496	63.448	-0.108	0.0	0.1	0.0
72	63.496	63.448	-0.108	0.0	0.1	0.0
96	63.496	63.449	-0.108	0.0	0.1	0.0
120	63.497	63.449	-0.108	0.0	0.1	0.0
144	63.497	63.449	-0.108	0.0	0.1	0.0
168	63.497	63.449	-0.108	0.0	0.1	0.0
192	63.497	63.449	-0.107	0.0	0.1	0.0
216	63.497	63.449	-0.107	0.0	0.1	0.0
240	63.497	63.449	-0.107	0.0	0.1	0.0
264	63.497	63.449	-0.107	0.0	0.1	0.0
288	63.497	63.449	-0.107	0.0	0.1	0.0
312	63.497	63.449	-0.107	0.0	0.1	0.0
336	63.497	63.449	-0.107	0.0	0.1	0.0
360	63.497	63.450	-0.107	0.0	0.2	0.0
384	63.497	63.450	-0.107	0.0	0.2	0.0
408	63.497	63.450	-0.107	0.0	0.2	0.0
432	63.497	63.450	-0.107	0.0	0.2	0.0
456	63.497	63.450	-0.107	0.0	0.2	0.0
480	63.497	63.450	-0.107	0.0	0.2	0.0
504	63.498	63.451	-0.107	0.0	0.2	0.0
528	63.498	63.451	-0.106	0.0	0.2	0.0
552	63.498	63.451	-0.106	0.0	0.2	0.0
576	63.498	63.451	-0.106	0.0	0.2	0.0
600	63.498	63.452	-0.106	0.0	0.2	0.1
624	63.498	63.452	-0.106	0.0	0.2	0.1
648	63.499	63.452	-0.106	0.0	0.2	0.1
672	63.499	63.453	-0.105	0.0	0.3	0.1
696	63.499	63.454	-0.105	0.0	0.3	0.1
720	63.500	63.455	-0.104	0.0	0.3	0.1
744	63.500	63.455	-0.104	0.0	0.3	0.1
768	63.501	63.456	-0.103	0.0	0.4	0.1
792	63.501	63.456	-0.103	0.0	0.3	0.1
816	63.502	63.457	-0.102	0.0	0.3	0.1
840	63.503	63.457	-0.101	0.0	0.3	0.1
864	63.505	63.458	-0.100	0.0	0.3	0.1
888	63.505	63.459	-0.099	0.0	0.3	0.2
912	63.506	63.460	-0.098	0.0	0.3	0.2
936	63.506	63.460	-0.098	0.0	0.3	0.2
960	63.507	63.461	-0.097	0.0	0.3	0.2
984	63.507	63.462	-0.097	0.0	0.4	0.2
1008	63.508	63.464	-0.096	0.0	0.4	0.3
1032	63.509	63.465	-0.095	0.0	0.4	0.3
1056	63.509	63.466	-0.095	0.0	0.4	0.3
1080	63.510	63.482	-0.094	0.0	0.4	0.3
1104	63.514	63.507	-0.090	0.0	0.4	0.3
1128	63.530	63.529	-0.074	0.0	0.2	0.3
1152	63.550	63.549	-0.054	0.0	0.1	0.3
1176	63.568	63.566	-0.037	0.0	0.0	0.3
1200	63.583	63.582	-0.021	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.597	63.596	-0.007	0.0	0.0	0.2
1248	63.609	63.608	0.005	0.0	0.0	0.2
1272	63.619	63.618	0.015	0.0	0.0	0.2
1296	63.628	63.627	0.024	0.0	0.0	0.2
1320	63.635	63.634	0.031	0.0	0.0	0.1
1344	63.641	63.641	0.037	0.0	0.0	0.1
1368	63.646	63.646	0.042	0.0	0.0	0.1
1392	63.650	63.650	0.046	0.0	0.0	0.1
1416	63.653	63.653	0.049	0.0	0.0	0.1
1440	63.656	63.656	0.052	0.0	0.0	0.1
1464	63.658	63.658	0.054	0.0	0.0	0.1
1488	63.660	63.660	0.056	0.0	0.0	0.1
1512	63.661	63.661	0.057	0.0	0.0	0.1
1536	63.663	63.662	0.059	0.0	0.0	0.1
1560	63.664	63.663	0.060	0.0	0.0	0.1
1584	63.664	63.664	0.060	0.0	0.0	0.1
1608	63.665	63.665	0.061	0.0	0.0	0.0
1632	63.665	63.665	0.061	0.0	0.0	0.0
1656	63.665	63.665	0.061	0.0	0.0	0.0
1680	63.665	63.665	0.061	0.0	0.0	0.0
1704	63.665	63.665	0.061	0.0	0.0	0.0
1728	63.665	63.665	0.061	0.0	0.0	0.0
1752	63.664	63.664	0.060	0.0	0.0	0.0
1776	63.664	63.664	0.060	0.0	0.0	0.0
1800	63.663	63.663	0.059	0.0	0.0	0.0
1824	63.663	63.662	0.058	0.0	0.0	0.0
1848	63.662	63.662	0.058	0.0	0.0	0.0
1872	63.661	63.661	0.057	0.0	0.0	0.0
1896	63.660	63.660	0.056	0.0	0.0	0.0
1920	63.659	63.659	0.055	0.0	0.0	0.0
1944	63.658	63.658	0.054	0.0	0.0	0.0
1968	63.657	63.657	0.053	0.0	0.0	0.0
1992	63.656	63.656	0.052	0.0	0.0	0.0
2016	63.654	63.655	0.050	0.0	0.0	0.0
2040	63.654	63.654	0.050	0.0	0.0	0.0
2064	63.653	63.652	0.048	0.0	0.0	0.0
2088	63.652	63.652	0.048	0.0	0.0	0.0
2112	63.650	63.650	0.046	0.0	0.0	0.0
2136	63.649	63.649	0.044	0.0	0.0	0.0
2160	63.648	63.647	0.043	0.0	0.0	0.0
2184	63.645	63.645	0.041	0.0	0.0	0.0
2208	63.640	63.640	0.036	0.0	0.0	0.0
2232	63.636	63.636	0.032	0.0	0.0	0.0
2256	63.633	63.633	0.029	0.0	0.0	0.0
2280	63.629	63.630	0.025	0.0	0.0	0.0
2304	63.626	63.626	0.022	0.0	0.0	0.0
2328	63.622	63.623	0.018	0.0	0.0	0.0
2352	63.619	63.619	0.015	0.0	0.0	0.0
2376	63.615	63.615	0.011	0.0	0.0	0.0
2400	63.612	63.612	0.007	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.608	63.608	0.004	0.0	0.0	0.0
2448	63.604	63.604	0.000	0.0	0.0	0.0
2472	63.601	63.601	-0.003	0.0	0.0	0.0
2496	63.597	63.597	-0.007	0.0	0.0	0.0
2520	63.594	63.594	-0.011	0.0	0.0	0.0
2544	63.590	63.590	-0.014	0.0	0.0	0.0
2568	63.586	63.587	-0.018	0.0	0.0	0.0
2592	63.583	63.583	-0.021	0.0	0.0	0.0
2616	63.579	63.579	-0.025	0.0	0.0	0.0
2640	63.576	63.576	-0.028	0.0	0.0	0.0
2664	63.572	63.572	-0.032	0.0	0.0	0.0
2688	63.569	63.569	-0.035	0.0	0.0	0.0
2712	63.565	63.565	-0.039	0.0	0.0	0.0
2736	63.562	63.562	-0.042	0.0	0.0	0.0
2760	63.558	63.558	-0.046	0.0	0.0	0.0
2784	63.554	63.554	-0.050	0.0	0.0	0.0
2808	63.551	63.551	-0.053	0.0	0.0	0.0
2832	63.548	63.548	-0.056	0.0	0.0	0.0
2856	63.544	63.544	-0.060	0.0	0.0	0.0
2880	63.541	63.541	-0.063	0.0	0.0	0.0
2904	63.538	63.538	-0.066	0.0	0.0	0.0
2928	63.534	63.534	-0.070	0.0	0.0	0.0
2952	63.531	63.531	-0.073	0.0	0.0	0.0
2976	63.527	63.527	-0.077	0.0	0.0	0.0
3000	63.524	63.524	-0.080	0.0	0.0	0.0
3024	63.520	63.520	-0.084	0.0	0.0	0.0
3048	63.517	63.517	-0.087	0.0	0.0	0.0
3072	63.514	63.514	-0.091	0.0	0.0	0.0
3096	63.510	63.510	-0.094	0.0	0.0	0.0
3120	63.507	63.507	-0.097	0.0	0.0	0.0
3144	63.504	63.504	-0.100	0.0	0.0	0.0
3168	63.501	63.500	-0.103	0.0	0.0	0.0
3192	63.497	63.497	-0.107	0.0	0.0	0.0
3216	63.494	63.493	-0.110	0.0	0.0	0.0
3240	63.494	63.490	-0.110	0.0	0.0	0.0
3264	63.494	63.487	-0.110	0.0	0.0	0.0
3288	63.494	63.483	-0.110	0.0	0.0	0.0
3312	63.494	63.480	-0.110	0.0	0.0	0.0
3336	63.494	63.477	-0.110	0.0	0.0	0.0
3360	63.494	63.474	-0.110	0.0	0.0	0.0
3384	63.494	63.471	-0.110	0.0	0.0	0.0
3408	63.494	63.467	-0.110	0.0	0.0	0.0
3432	63.494	63.464	-0.110	0.0	0.0	0.0
3456	63.494	63.460	-0.110	0.0	0.0	0.0
3480	63.494	63.457	-0.110	0.0	0.0	0.0
3504	63.494	63.453	-0.110	0.0	0.0	0.0
3528	63.494	63.451	-0.110	0.0	0.0	0.0
3552	63.494	63.447	-0.110	0.0	0.0	0.0
3576	63.494	63.444	-0.110	0.0	0.0	0.0
3600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.494	63.444	-0.110	0.0	0.0	0.0
3648	63.494	63.444	-0.110	0.0	0.0	0.0
3672	63.494	63.444	-0.110	0.0	0.0	0.0
3696	63.494	63.444	-0.110	0.0	0.0	0.0
3720	63.494	63.444	-0.110	0.0	0.0	0.0
3744	63.494	63.444	-0.110	0.0	0.0	0.0
3768	63.494	63.444	-0.110	0.0	0.0	0.0
3792	63.494	63.444	-0.110	0.0	0.0	0.0
3816	63.494	63.444	-0.110	0.0	0.0	0.0
3840	63.494	63.444	-0.110	0.0	0.0	0.0
3864	63.494	63.444	-0.110	0.0	0.0	0.0
3888	63.494	63.444	-0.110	0.0	0.0	0.0
3912	63.494	63.444	-0.110	0.0	0.0	0.0
3936	63.494	63.444	-0.110	0.0	0.0	0.0
3960	63.494	63.444	-0.110	0.0	0.0	0.0
3984	63.494	63.444	-0.110	0.0	0.0	0.0
4008	63.494	63.444	-0.110	0.0	0.0	0.0
4032	63.494	63.444	-0.110	0.0	0.0	0.0
4056	63.494	63.444	-0.110	0.0	0.0	0.0
4080	63.494	63.444	-0.110	0.0	0.0	0.0
4104	63.494	63.444	-0.110	0.0	0.0	0.0
4128	63.494	63.444	-0.110	0.0	0.0	0.0
4152	63.494	63.444	-0.110	0.0	0.0	0.0
4176	63.494	63.444	-0.110	0.0	0.0	0.0
4200	63.494	63.444	-0.110	0.0	0.0	0.0
4224	63.494	63.444	-0.110	0.0	0.0	0.0
4248	63.494	63.444	-0.110	0.0	0.0	0.0
4272	63.494	63.444	-0.110	0.0	0.0	0.0
4296	63.494	63.444	-0.110	0.0	0.0	0.0
4320	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.001	-0.110	0.0	0.1	0.0
48	65.400	65.001	-0.110	0.0	0.1	0.0
72	65.400	65.001	-0.110	0.0	0.1	0.0
96	65.400	65.001	-0.110	0.0	0.1	0.0
120	65.400	65.001	-0.110	0.0	0.1	0.0
144	65.400	65.001	-0.110	0.0	0.1	0.0
168	65.400	65.001	-0.110	0.0	0.1	0.0
192	65.400	65.001	-0.110	0.0	0.1	0.0
216	65.400	65.001	-0.110	0.0	0.1	0.0
240	65.400	65.001	-0.110	0.0	0.1	0.0
264	65.400	65.001	-0.110	0.0	0.1	0.0
288	65.400	65.001	-0.110	0.0	0.1	0.0
312	65.400	65.001	-0.110	0.0	0.1	0.0
336	65.400	65.001	-0.110	0.0	0.1	0.0
360	65.400	65.001	-0.110	0.0	0.1	0.0
384	65.400	65.001	-0.110	0.0	0.1	0.0
408	65.400	65.001	-0.110	0.0	0.1	0.0
432	65.401	65.001	-0.109	0.0	0.1	0.0
456	65.401	65.001	-0.109	0.0	0.1	0.0
480	65.401	65.001	-0.109	0.0	0.1	0.0
504	65.401	65.001	-0.109	0.0	0.1	0.0
528	65.401	65.001	-0.109	0.0	0.1	0.0
552	65.401	65.001	-0.109	0.0	0.1	0.0
576	65.401	65.001	-0.109	0.0	0.1	0.0
600	65.401	65.001	-0.109	0.0	0.1	0.0
624	65.401	65.001	-0.109	0.0	0.1	0.0
648	65.401	65.001	-0.109	0.0	0.1	0.0
672	65.401	65.001	-0.109	0.0	0.1	0.0
696	65.401	65.001	-0.109	0.0	0.1	0.0
720	65.401	65.001	-0.109	0.0	0.1	0.0
744	65.401	65.001	-0.109	0.0	0.2	0.0
768	65.401	65.002	-0.109	0.0	0.2	0.0
792	65.401	65.002	-0.109	0.0	0.2	0.0
816	65.401	65.002	-0.109	0.0	0.2	0.1
840	65.402	65.002	-0.108	0.0	0.2	0.1
864	65.402	65.002	-0.108	0.0	0.3	0.1
888	65.402	65.003	-0.108	0.0	0.3	0.1
912	65.402	65.003	-0.108	0.0	0.4	0.1
936	65.402	65.003	-0.108	0.0	0.4	0.1
960	65.403	65.004	-0.107	0.0	0.4	0.1
984	65.403	65.004	-0.107	0.0	0.5	0.1
1008	65.403	65.005	-0.107	0.0	0.5	0.1
1032	65.404	65.005	-0.106	0.0	0.6	0.1
1056	65.404	65.006	-0.106	0.0	0.7	0.2
1080	65.404	65.006	-0.106	0.0	0.7	0.2
1104	65.404	65.006	-0.106	0.0	0.7	0.2
1128	65.404	65.006	-0.106	0.0	0.7	0.2
1152	65.404	65.005	-0.106	0.0	0.6	0.1
1176	65.403	65.005	-0.107	0.0	0.5	0.1
1200	65.403	65.004	-0.107	0.0	0.5	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.403	65.004	-0.107	0.0	0.4	0.1
1248	65.402	65.003	-0.108	0.0	0.4	0.1
1272	65.402	65.003	-0.108	0.0	0.4	0.1
1296	65.402	65.003	-0.108	0.0	0.3	0.1
1320	65.402	65.002	-0.108	0.0	0.3	0.1
1344	65.402	65.002	-0.108	0.0	0.2	0.1
1368	65.401	65.002	-0.109	0.0	0.2	0.1
1392	65.401	65.002	-0.109	0.0	0.2	0.0
1416	65.401	65.002	-0.109	0.0	0.2	0.0
1440	65.401	65.001	-0.109	0.0	0.2	0.0
1464	65.401	65.001	-0.109	0.0	0.1	0.0
1488	65.401	65.001	-0.109	0.0	0.1	0.0
1512	65.401	65.001	-0.109	0.0	0.1	0.0
1536	65.401	65.001	-0.109	0.0	0.1	0.0
1560	65.401	65.001	-0.109	0.0	0.1	0.0
1584	65.401	65.001	-0.109	0.0	0.1	0.0
1608	65.401	65.001	-0.109	0.0	0.1	0.0
1632	65.401	65.001	-0.109	0.0	0.1	0.0
1656	65.401	65.001	-0.109	0.0	0.1	0.0
1680	65.401	65.001	-0.109	0.0	0.1	0.0
1704	65.401	65.001	-0.109	0.0	0.1	0.0
1728	65.401	65.001	-0.109	0.0	0.1	0.0
1752	65.401	65.001	-0.109	0.0	0.1	0.0
1776	65.400	65.001	-0.110	0.0	0.1	0.0
1800	65.400	65.001	-0.110	0.0	0.1	0.0
1824	65.400	65.001	-0.110	0.0	0.1	0.0
1848	65.400	65.001	-0.110	0.0	0.1	0.0
1872	65.400	65.001	-0.110	0.0	0.1	0.0
1896	65.400	65.001	-0.110	0.0	0.1	0.0
1920	65.400	65.001	-0.110	0.0	0.1	0.0
1944	65.400	65.001	-0.110	0.0	0.1	0.0
1968	65.400	65.001	-0.110	0.0	0.1	0.0
1992	65.400	65.001	-0.110	0.0	0.1	0.0
2016	65.400	65.001	-0.110	0.0	0.1	0.0
2040	65.400	65.001	-0.110	0.0	0.1	0.0
2064	65.400	65.001	-0.110	0.0	0.1	0.0
2088	65.400	65.001	-0.110	0.0	0.1	0.0
2112	65.400	65.001	-0.110	0.0	0.1	0.0
2136	65.400	65.001	-0.110	0.0	0.1	0.0
2160	65.400	65.001	-0.110	0.0	0.1	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.0	0.0
3072	65.400	65.000	-0.110	0.0	0.0	0.0
3096	65.400	65.000	-0.110	0.0	0.0	0.0
3120	65.400	65.000	-0.110	0.0	0.0	0.0
3144	65.400	65.000	-0.110	0.0	0.0	0.0
3168	65.400	65.000	-0.110	0.0	0.0	0.0
3192	65.400	65.000	-0.110	0.0	0.0	0.0
3216	65.400	65.000	-0.110	0.0	0.0	0.0
3240	65.400	65.000	-0.110	0.0	0.0	0.0
3264	65.400	65.000	-0.110	0.0	0.0	0.0
3288	65.400	65.000	-0.110	0.0	0.0	0.0
3312	65.400	65.000	-0.110	0.0	0.0	0.0
3336	65.400	65.000	-0.110	0.0	0.0	0.0
3360	65.400	65.000	-0.110	0.0	0.0	0.0
3384	65.400	65.000	-0.110	0.0	0.0	0.0
3408	65.400	65.000	-0.110	0.0	0.0	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.0	0.0
3480	65.400	65.000	-0.110	0.0	0.0	0.0
3504	65.400	65.000	-0.110	0.0	0.0	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.001	63.448	-0.109	0.0	0.1	0.0
48	65.001	63.448	-0.109	0.0	0.1	0.0
72	65.001	63.448	-0.109	0.0	0.1	0.0
96	65.001	63.449	-0.109	0.0	0.1	0.0
120	65.001	63.449	-0.109	0.0	0.1	0.0
144	65.001	63.449	-0.109	0.0	0.1	0.0
168	65.001	63.449	-0.109	0.0	0.1	0.0
192	65.001	63.449	-0.109	0.0	0.1	0.0
216	65.001	63.449	-0.109	0.0	0.1	0.0
240	65.001	63.449	-0.109	0.0	0.1	0.0
264	65.001	63.449	-0.109	0.0	0.1	0.0
288	65.001	63.449	-0.109	0.0	0.1	0.0
312	65.001	63.449	-0.109	0.0	0.1	0.0
336	65.001	63.449	-0.109	0.0	0.2	0.0
360	65.001	63.450	-0.109	0.0	0.2	0.0
384	65.001	63.450	-0.109	0.0	0.2	0.0
408	65.001	63.450	-0.109	0.0	0.2	0.0
432	65.001	63.450	-0.109	0.0	0.2	0.0
456	65.001	63.450	-0.109	0.0	0.2	0.0
480	65.001	63.450	-0.109	0.0	0.2	0.0
504	65.001	63.451	-0.109	0.0	0.2	0.0
528	65.001	63.451	-0.109	0.0	0.2	0.0
552	65.001	63.451	-0.109	0.0	0.2	0.0
576	65.001	63.451	-0.109	0.0	0.2	0.0
600	65.001	63.452	-0.109	0.0	0.2	0.1
624	65.001	63.452	-0.109	0.0	0.2	0.1
648	65.001	63.452	-0.109	0.0	0.2	0.1
672	65.001	63.453	-0.109	0.0	0.3	0.1
696	65.001	63.454	-0.109	0.0	0.3	0.1
720	65.001	63.455	-0.109	0.0	0.3	0.1
744	65.001	63.455	-0.109	0.0	0.3	0.1
768	65.002	63.456	-0.108	0.0	0.4	0.1
792	65.002	63.456	-0.108	0.0	0.4	0.1
816	65.002	63.457	-0.108	0.0	0.4	0.1
840	65.002	63.457	-0.108	0.0	0.5	0.1
864	65.002	63.458	-0.108	0.0	0.6	0.1
888	65.003	63.459	-0.107	0.0	0.6	0.2
912	65.003	63.460	-0.107	0.0	0.7	0.2
936	65.003	63.460	-0.107	0.0	0.8	0.2
960	65.004	63.461	-0.106	0.0	0.9	0.2
984	65.004	63.462	-0.106	0.0	1.0	0.2
1008	65.005	63.464	-0.105	0.0	1.1	0.3
1032	65.005	63.465	-0.105	0.0	1.2	0.3
1056	65.006	63.466	-0.104	0.0	1.3	0.3
1080	65.006	63.482	-0.104	0.0	1.4	0.3
1104	65.006	63.507	-0.104	0.0	1.4	0.3
1128	65.006	63.529	-0.104	0.0	1.3	0.3
1152	65.005	63.549	-0.105	0.0	1.2	0.3
1176	65.005	63.566	-0.105	0.0	1.1	0.3
1200	65.004	63.582	-0.106	0.0	1.0	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.004	63.596	-0.106	0.0	0.9	0.2
1248	65.003	63.608	-0.107	0.0	0.8	0.2
1272	65.003	63.618	-0.107	0.0	0.7	0.2
1296	65.003	63.627	-0.107	0.0	0.6	0.2
1320	65.002	63.634	-0.108	0.0	0.6	0.1
1344	65.002	63.641	-0.108	0.0	0.5	0.1
1368	65.002	63.646	-0.108	0.0	0.4	0.1
1392	65.002	63.650	-0.108	0.0	0.4	0.1
1416	65.002	63.653	-0.108	0.0	0.4	0.1
1440	65.001	63.656	-0.109	0.0	0.3	0.1
1464	65.001	63.658	-0.109	0.0	0.3	0.1
1488	65.001	63.660	-0.109	0.0	0.3	0.1
1512	65.001	63.661	-0.109	0.0	0.3	0.1
1536	65.001	63.662	-0.109	0.0	0.2	0.1
1560	65.001	63.663	-0.109	0.0	0.2	0.1
1584	65.001	63.664	-0.109	0.0	0.2	0.1
1608	65.001	63.665	-0.109	0.0	0.2	0.0
1632	65.001	63.665	-0.109	0.0	0.2	0.0
1656	65.001	63.665	-0.109	0.0	0.2	0.0
1680	65.001	63.665	-0.109	0.0	0.2	0.0
1704	65.001	63.665	-0.109	0.0	0.2	0.0
1728	65.001	63.665	-0.109	0.0	0.2	0.0
1752	65.001	63.664	-0.109	0.0	0.2	0.0
1776	65.001	63.664	-0.109	0.0	0.2	0.0
1800	65.001	63.663	-0.109	0.0	0.2	0.0
1824	65.001	63.662	-0.109	0.0	0.2	0.0
1848	65.001	63.662	-0.109	0.0	0.2	0.0
1872	65.001	63.661	-0.109	0.0	0.1	0.0
1896	65.001	63.660	-0.109	0.0	0.1	0.0
1920	65.001	63.659	-0.109	0.0	0.1	0.0
1944	65.001	63.658	-0.109	0.0	0.1	0.0
1968	65.001	63.657	-0.109	0.0	0.1	0.0
1992	65.001	63.656	-0.109	0.0	0.1	0.0
2016	65.001	63.655	-0.109	0.0	0.1	0.0
2040	65.001	63.654	-0.109	0.0	0.1	0.0
2064	65.001	63.652	-0.109	0.0	0.1	0.0
2088	65.001	63.652	-0.109	0.0	0.1	0.0
2112	65.001	63.650	-0.109	0.0	0.1	0.0
2136	65.001	63.649	-0.109	0.0	0.1	0.0
2160	65.001	63.647	-0.109	0.0	0.1	0.0
2184	65.000	63.645	-0.110	0.0	0.0	0.0
2208	65.000	63.640	-0.110	0.0	0.0	0.0
2232	65.000	63.636	-0.110	0.0	0.0	0.0
2256	65.000	63.633	-0.110	0.0	0.0	0.0
2280	65.000	63.630	-0.110	0.0	0.0	0.0
2304	65.000	63.626	-0.110	0.0	0.0	0.0
2328	65.000	63.623	-0.110	0.0	0.0	0.0
2352	65.000	63.619	-0.110	0.0	0.0	0.0
2376	65.000	63.615	-0.110	0.0	0.0	0.0
2400	65.000	63.612	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.608	-0.110	0.0	0.0	0.0
2448	65.000	63.604	-0.110	0.0	0.0	0.0
2472	65.000	63.601	-0.110	0.0	0.0	0.0
2496	65.000	63.597	-0.110	0.0	0.0	0.0
2520	65.000	63.594	-0.110	0.0	0.0	0.0
2544	65.000	63.590	-0.110	0.0	0.0	0.0
2568	65.000	63.587	-0.110	0.0	0.0	0.0
2592	65.000	63.583	-0.110	0.0	0.0	0.0
2616	65.000	63.579	-0.110	0.0	0.0	0.0
2640	65.000	63.576	-0.110	0.0	0.0	0.0
2664	65.000	63.572	-0.110	0.0	0.0	0.0
2688	65.000	63.569	-0.110	0.0	0.0	0.0
2712	65.000	63.565	-0.110	0.0	0.0	0.0
2736	65.000	63.562	-0.110	0.0	0.0	0.0
2760	65.000	63.558	-0.110	0.0	0.0	0.0
2784	65.000	63.554	-0.110	0.0	0.0	0.0
2808	65.000	63.551	-0.110	0.0	0.0	0.0
2832	65.000	63.548	-0.110	0.0	0.0	0.0
2856	65.000	63.544	-0.110	0.0	0.0	0.0
2880	65.000	63.541	-0.110	0.0	0.0	0.0
2904	65.000	63.538	-0.110	0.0	0.0	0.0
2928	65.000	63.534	-0.110	0.0	0.0	0.0
2952	65.000	63.531	-0.110	0.0	0.0	0.0
2976	65.000	63.527	-0.110	0.0	0.0	0.0
3000	65.000	63.524	-0.110	0.0	0.0	0.0
3024	65.000	63.520	-0.110	0.0	0.0	0.0
3048	65.000	63.517	-0.110	0.0	0.0	0.0
3072	65.000	63.514	-0.110	0.0	0.0	0.0
3096	65.000	63.510	-0.110	0.0	0.0	0.0
3120	65.000	63.507	-0.110	0.0	0.0	0.0
3144	65.000	63.504	-0.110	0.0	0.0	0.0
3168	65.000	63.500	-0.110	0.0	0.0	0.0
3192	65.000	63.497	-0.110	0.0	0.0	0.0
3216	65.000	63.493	-0.110	0.0	0.0	0.0
3240	65.000	63.490	-0.110	0.0	0.0	0.0
3264	65.000	63.487	-0.110	0.0	0.0	0.0
3288	65.000	63.483	-0.110	0.0	0.0	0.0
3312	65.000	63.480	-0.110	0.0	0.0	0.0
3336	65.000	63.477	-0.110	0.0	0.0	0.0
3360	65.000	63.474	-0.110	0.0	0.0	0.0
3384	65.000	63.471	-0.110	0.0	0.0	0.0
3408	65.000	63.467	-0.110	0.0	0.0	0.0
3432	65.000	63.464	-0.110	0.0	0.0	0.0
3456	65.000	63.460	-0.110	0.0	0.0	0.0
3480	65.000	63.457	-0.110	0.0	0.0	0.0
3504	65.000	63.453	-0.110	0.0	0.0	0.0
3528	65.000	63.451	-0.110	0.0	0.0	0.0
3552	65.000	63.447	-0.110	0.0	0.0	0.0
3576	65.000	63.444	-0.110	0.0	0.0	0.0
3600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.444	-0.110	0.0	0.0	0.0
3648	65.000	63.444	-0.110	0.0	0.0	0.0
3672	65.000	63.444	-0.110	0.0	0.0	0.0
3696	65.000	63.444	-0.110	0.0	0.0	0.0
3720	65.000	63.444	-0.110	0.0	0.0	0.0
3744	65.000	63.444	-0.110	0.0	0.0	0.0
3768	65.000	63.444	-0.110	0.0	0.0	0.0
3792	65.000	63.444	-0.110	0.0	0.0	0.0
3816	65.000	63.444	-0.110	0.0	0.0	0.0
3840	65.000	63.444	-0.110	0.0	0.0	0.0
3864	65.000	63.444	-0.110	0.0	0.0	0.0
3888	65.000	63.444	-0.110	0.0	0.0	0.0
3912	65.000	63.444	-0.110	0.0	0.0	0.0
3936	65.000	63.444	-0.110	0.0	0.0	0.0
3960	65.000	63.444	-0.110	0.0	0.0	0.0
3984	65.000	63.444	-0.110	0.0	0.0	0.0
4008	65.000	63.444	-0.110	0.0	0.0	0.0
4032	65.000	63.444	-0.110	0.0	0.0	0.0
4056	65.000	63.444	-0.110	0.0	0.0	0.0
4080	65.000	63.444	-0.110	0.0	0.0	0.0
4104	65.000	63.444	-0.110	0.0	0.0	0.0
4128	65.000	63.444	-0.110	0.0	0.0	0.0
4152	65.000	63.444	-0.110	0.0	0.0	0.0
4176	65.000	63.444	-0.110	0.0	0.0	0.0
4200	65.000	63.444	-0.110	0.0	0.0	0.0
4224	65.000	63.444	-0.110	0.0	0.0	0.0
4248	65.000	63.444	-0.110	0.0	0.0	0.0
4272	65.000	63.444	-0.110	0.0	0.0	0.0
4296	65.000	63.444	-0.110	0.0	0.0	0.0
4320	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.448	63.252	-0.106	0.0	0.2	0.1
48	63.448	63.255	-0.106	0.0	0.2	0.1
72	63.448	63.257	-0.106	0.0	0.2	0.1
96	63.449	63.259	-0.106	0.0	0.3	0.1
120	63.449	63.261	-0.105	0.0	0.3	0.1
144	63.449	63.263	-0.105	0.0	0.3	0.1
168	63.449	63.264	-0.105	0.0	0.3	0.1
192	63.449	63.266	-0.105	0.0	0.3	0.1
216	63.449	63.267	-0.105	0.0	0.3	0.1
240	63.449	63.268	-0.105	0.0	0.3	0.1
264	63.449	63.269	-0.105	0.0	0.3	0.1
288	63.449	63.269	-0.105	0.0	0.3	0.1
312	63.449	63.270	-0.105	0.0	0.3	0.1
336	63.449	63.271	-0.105	0.0	0.3	0.1
360	63.450	63.271	-0.105	0.0	0.3	0.1
384	63.450	63.272	-0.104	0.0	0.3	0.1
408	63.450	63.272	-0.104	0.0	0.3	0.1
432	63.450	63.273	-0.104	0.0	0.3	0.1
456	63.450	63.273	-0.104	0.0	0.3	0.1
480	63.450	63.274	-0.104	0.0	0.4	0.1
504	63.451	63.274	-0.104	0.0	0.4	0.1
528	63.451	63.275	-0.103	0.0	0.4	0.1
552	63.451	63.276	-0.103	0.0	0.4	0.1
576	63.451	63.277	-0.103	0.0	0.4	0.1
600	63.452	63.278	-0.102	0.0	0.4	0.1
624	63.452	63.279	-0.102	0.0	0.4	0.1
648	63.452	63.280	-0.102	0.0	0.4	0.1
672	63.453	63.281	-0.101	0.0	0.4	0.1
696	63.454	63.283	-0.101	0.0	0.3	0.1
720	63.455	63.285	-0.100	0.0	0.3	0.1
744	63.455	63.288	-0.099	0.0	0.3	0.2
768	63.456	63.293	-0.099	0.0	0.3	0.2
792	63.456	63.298	-0.098	0.0	0.3	0.2
816	63.457	63.304	-0.098	0.0	0.4	0.2
840	63.457	63.312	-0.097	0.0	0.4	0.2
864	63.458	63.321	-0.096	0.0	0.4	0.3
888	63.459	63.331	-0.095	0.0	0.4	0.3
912	63.460	63.343	-0.095	0.0	0.4	0.3
936	63.460	63.356	-0.094	0.0	0.4	0.4
960	63.461	63.373	-0.093	0.0	0.4	0.4
984	63.462	63.393	-0.092	0.0	0.5	0.5
1008	63.464	63.413	-0.091	0.0	0.5	0.5
1032	63.465	63.433	-0.089	0.0	0.5	0.6
1056	63.466	63.455	-0.088	0.0	0.5	0.6
1080	63.482	63.480	-0.072	0.0	0.3	0.7
1104	63.507	63.505	-0.047	0.0	0.2	0.7
1128	63.529	63.527	-0.025	0.0	0.1	0.6
1152	63.549	63.547	-0.005	0.0	0.1	0.6
1176	63.566	63.565	0.012	0.0	0.1	0.5
1200	63.582	63.581	0.028	0.0	0.0	0.5

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.596	63.595	0.042	0.0	0.0	0.4
1248	63.608	63.607	0.054	0.0	0.0	0.4
1272	63.618	63.617	0.064	0.0	0.0	0.3
1296	63.627	63.626	0.073	0.0	0.0	0.3
1320	63.634	63.634	0.080	0.0	0.0	0.3
1344	63.641	63.640	0.086	0.0	0.0	0.2
1368	63.646	63.645	0.092	0.0	0.0	0.2
1392	63.650	63.649	0.096	0.0	0.0	0.2
1416	63.653	63.652	0.099	0.0	0.0	0.2
1440	63.656	63.655	0.102	0.0	0.0	0.2
1464	63.658	63.658	0.104	0.0	0.0	0.1
1488	63.660	63.660	0.106	0.0	0.0	0.1
1512	63.661	63.661	0.107	0.0	0.0	0.1
1536	63.662	63.662	0.108	0.0	0.0	0.1
1560	63.663	63.663	0.109	0.0	0.0	0.1
1584	63.664	63.664	0.110	0.0	0.0	0.1
1608	63.665	63.664	0.110	0.0	0.0	0.1
1632	63.665	63.665	0.111	0.0	0.0	0.1
1656	63.665	63.665	0.111	0.0	0.0	0.1
1680	63.665	63.665	0.111	0.0	0.0	0.1
1704	63.665	63.665	0.111	0.0	0.0	0.1
1728	63.665	63.664	0.110	0.0	0.0	0.1
1752	63.664	63.664	0.110	0.0	0.0	0.1
1776	63.664	63.663	0.110	0.0	0.0	0.1
1800	63.663	63.663	0.109	0.0	0.0	0.1
1824	63.662	63.662	0.108	0.0	0.0	0.1
1848	63.662	63.661	0.107	0.0	0.0	0.1
1872	63.661	63.661	0.107	0.0	0.0	0.1
1896	63.660	63.660	0.106	0.0	0.0	0.1
1920	63.659	63.659	0.105	0.0	0.0	0.1
1944	63.658	63.658	0.104	0.0	0.0	0.1
1968	63.657	63.657	0.103	0.0	0.0	0.1
1992	63.656	63.656	0.102	0.0	0.0	0.1
2016	63.655	63.654	0.101	0.0	0.0	0.1
2040	63.654	63.653	0.099	0.0	0.0	0.1
2064	63.652	63.652	0.098	0.0	0.0	0.1
2088	63.652	63.651	0.098	0.0	0.0	0.1
2112	63.650	63.650	0.096	0.0	0.0	0.1
2136	63.649	63.649	0.095	0.0	0.0	0.1
2160	63.647	63.647	0.093	0.0	0.0	0.1
2184	63.645	63.645	0.091	0.0	0.0	0.0
2208	63.640	63.641	0.086	0.0	0.0	0.0
2232	63.636	63.637	0.082	0.0	0.0	0.0
2256	63.633	63.633	0.079	0.0	0.0	0.0
2280	63.630	63.630	0.075	0.0	0.0	0.0
2304	63.626	63.626	0.072	0.0	0.0	0.0
2328	63.623	63.623	0.068	0.0	0.0	0.0
2352	63.619	63.619	0.065	0.0	0.0	0.0
2376	63.615	63.615	0.061	0.0	0.0	0.0
2400	63.612	63.612	0.058	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.608	63.608	0.054	0.0	0.0	0.0
2448	63.604	63.605	0.050	0.0	0.0	0.0
2472	63.601	63.601	0.047	0.0	0.0	0.0
2496	63.597	63.597	0.043	0.0	0.0	0.0
2520	63.594	63.594	0.040	0.0	0.0	0.0
2544	63.590	63.590	0.036	0.0	0.0	0.0
2568	63.587	63.587	0.032	0.0	0.0	0.0
2592	63.583	63.583	0.029	0.0	0.0	0.0
2616	63.579	63.579	0.025	0.0	0.0	0.0
2640	63.576	63.576	0.022	0.0	0.0	0.0
2664	63.572	63.572	0.018	0.0	0.0	0.0
2688	63.569	63.569	0.015	0.0	0.0	0.0
2712	63.565	63.565	0.011	0.0	0.0	0.0
2736	63.562	63.562	0.008	0.0	0.0	0.0
2760	63.558	63.558	0.004	0.0	0.0	0.0
2784	63.554	63.555	0.000	0.0	0.0	0.0
2808	63.551	63.551	-0.003	0.0	0.0	0.0
2832	63.548	63.548	-0.006	0.0	0.0	0.0
2856	63.544	63.544	-0.010	0.0	0.0	0.0
2880	63.541	63.541	-0.013	0.0	0.0	0.0
2904	63.538	63.538	-0.017	0.0	0.0	0.0
2928	63.534	63.534	-0.020	0.0	0.0	0.0
2952	63.531	63.531	-0.023	0.0	0.0	0.0
2976	63.527	63.527	-0.027	0.0	0.0	0.0
3000	63.524	63.524	-0.030	0.0	0.0	0.0
3024	63.520	63.521	-0.034	0.0	0.0	0.0
3048	63.517	63.517	-0.037	0.0	0.0	0.0
3072	63.514	63.514	-0.041	0.0	0.0	0.0
3096	63.510	63.510	-0.044	0.0	0.0	0.0
3120	63.507	63.507	-0.047	0.0	0.0	0.0
3144	63.504	63.504	-0.050	0.0	0.0	0.0
3168	63.500	63.500	-0.054	0.0	0.0	0.0
3192	63.497	63.497	-0.057	0.0	0.0	0.0
3216	63.493	63.494	-0.061	0.0	0.0	0.0
3240	63.490	63.490	-0.064	0.0	0.0	0.0
3264	63.487	63.487	-0.067	0.0	0.0	0.0
3288	63.483	63.483	-0.071	0.0	0.0	0.0
3312	63.480	63.480	-0.074	0.0	0.0	0.0
3336	63.477	63.477	-0.077	0.0	0.0	0.0
3360	63.474	63.474	-0.080	0.0	0.0	0.0
3384	63.471	63.471	-0.083	0.0	0.0	0.0
3408	63.467	63.467	-0.087	0.0	0.0	0.0
3432	63.464	63.464	-0.090	0.0	0.0	0.0
3456	63.460	63.461	-0.094	0.0	0.0	0.0
3480	63.457	63.457	-0.097	0.0	0.0	0.0
3504	63.453	63.453	-0.101	0.0	0.0	0.0
3528	63.451	63.450	-0.103	0.0	0.0	0.0
3552	63.447	63.447	-0.107	0.0	0.0	0.0
3576	63.444	63.444	-0.110	0.0	0.0	0.0
3600	63.444	63.441	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.444	63.437	-0.110	0.0	0.0	0.0
3648	63.444	63.434	-0.110	0.0	0.0	0.0
3672	63.444	63.431	-0.110	0.0	0.0	0.0
3696	63.444	63.427	-0.110	0.0	0.0	0.0
3720	63.444	63.424	-0.110	0.0	0.0	0.0
3744	63.444	63.421	-0.110	0.0	0.0	0.0
3768	63.444	63.417	-0.110	0.0	0.0	0.0
3792	63.444	63.414	-0.110	0.0	0.0	0.0
3816	63.444	63.411	-0.110	0.0	0.0	0.0
3840	63.444	63.408	-0.110	0.0	0.0	0.0
3864	63.444	63.404	-0.110	0.0	0.0	0.0
3888	63.444	63.401	-0.110	0.0	0.0	0.0
3912	63.444	63.398	-0.110	0.0	0.0	0.0
3936	63.444	63.395	-0.110	0.0	0.0	0.0
3960	63.444	63.391	-0.110	0.0	0.0	0.0
3984	63.444	63.388	-0.110	0.0	0.0	0.0
4008	63.444	63.385	-0.110	0.0	0.0	0.0
4032	63.444	63.382	-0.110	0.0	0.0	0.0
4056	63.444	63.379	-0.110	0.0	0.0	0.0
4080	63.444	63.377	-0.110	0.0	0.0	0.0
4104	63.444	63.374	-0.110	0.0	0.0	0.0
4128	63.444	63.372	-0.110	0.0	0.0	0.0
4152	63.444	63.369	-0.110	0.0	0.0	0.0
4176	63.444	63.367	-0.110	0.0	0.0	0.0
4200	63.444	63.365	-0.110	0.0	0.0	0.0
4224	63.444	63.363	-0.110	0.0	0.0	0.0
4248	63.444	63.359	-0.110	0.0	0.0	0.0
4272	63.444	63.354	-0.110	0.0	0.0	0.0
4296	63.444	63.350	-0.110	0.0	0.0	0.0
4320	63.444	63.347	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.252	63.100	-0.108	0.0	0.0	0.0
48	63.255	63.101	-0.105	0.0	0.0	0.0
72	63.257	63.103	-0.103	0.0	0.0	0.0
96	63.259	63.105	-0.101	0.0	0.1	0.0
120	63.261	63.109	-0.099	0.0	0.1	0.0
144	63.263	63.114	-0.097	0.0	0.1	0.0
168	63.264	63.118	-0.096	0.0	0.1	0.0
192	63.266	63.122	-0.094	0.0	0.2	0.0
216	63.267	63.126	-0.093	0.0	0.2	0.0
240	63.268	63.130	-0.092	0.0	0.2	0.0
264	63.269	63.134	-0.091	0.0	0.2	0.0
288	63.269	63.137	-0.091	0.0	0.2	0.1
312	63.270	63.140	-0.090	0.0	0.2	0.1
336	63.271	63.142	-0.089	0.0	0.2	0.1
360	63.271	63.144	-0.089	0.0	0.2	0.1
384	63.272	63.147	-0.088	0.0	0.2	0.1
408	63.272	63.149	-0.088	0.0	0.2	0.1
432	63.273	63.151	-0.087	0.0	0.2	0.1
456	63.273	63.153	-0.087	0.0	0.2	0.1
480	63.274	63.157	-0.086	0.0	0.2	0.1
504	63.274	63.162	-0.086	0.0	0.3	0.1
528	63.275	63.167	-0.085	0.0	0.3	0.1
552	63.276	63.173	-0.084	0.0	0.3	0.1
576	63.277	63.180	-0.083	0.0	0.3	0.1
600	63.278	63.188	-0.082	0.0	0.3	0.1
624	63.279	63.196	-0.081	0.0	0.3	0.1
648	63.280	63.205	-0.080	0.0	0.3	0.1
672	63.281	63.215	-0.079	0.0	0.3	0.1
696	63.283	63.228	-0.077	0.0	0.3	0.1
720	63.285	63.240	-0.075	0.0	0.3	0.1
744	63.288	63.250	-0.072	0.0	0.3	0.1
768	63.293	63.251	-0.067	0.0	0.2	0.1
792	63.298	63.250	-0.062	0.0	0.2	0.1
816	63.304	63.251	-0.056	0.0	0.2	0.1
840	63.312	63.251	-0.048	0.0	0.2	0.1
864	63.321	63.252	-0.039	0.0	0.2	0.1
888	63.331	63.254	-0.029	0.0	0.3	0.1
912	63.343	63.260	-0.017	0.0	0.3	0.1
936	63.356	63.268	-0.004	0.0	0.3	0.1
960	63.373	63.264	0.013	0.0	0.2	0.1
984	63.393	63.261	0.033	0.0	0.2	0.1
1008	63.413	63.272	0.053	0.0	0.3	0.1
1032	63.433	63.294	0.073	0.0	0.3	0.1
1056	63.455	63.329	0.095	0.0	0.3	0.2
1080	63.480	63.370	0.120	0.0	0.3	0.2
1104	63.505	63.404	0.145	0.0	0.3	0.2
1128	63.527	63.433	0.167	0.0	0.1	0.1
1152	63.547	63.457	0.187	0.0	0.0	0.1
1176	63.565	63.479	0.205	0.0	0.0	0.1
1200	63.581	63.498	0.221	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.595	63.514	0.235	0.0	0.0	0.1
1248	63.607	63.529	0.247	0.0	0.0	0.1
1272	63.617	63.542	0.257	0.0	0.0	0.1
1296	63.626	63.553	0.266	0.0	0.0	0.1
1320	63.634	63.562	0.274	0.0	0.0	0.1
1344	63.640	63.570	0.280	0.0	0.0	0.1
1368	63.645	63.577	0.285	0.0	0.0	0.1
1392	63.649	63.582	0.289	0.0	0.0	0.1
1416	63.652	63.587	0.292	0.0	0.0	0.1
1440	63.655	63.591	0.295	0.0	0.0	0.1
1464	63.658	63.594	0.298	0.0	0.0	0.1
1488	63.660	63.596	0.300	0.0	0.0	0.1
1512	63.661	63.598	0.301	0.0	0.0	0.1
1536	63.662	63.600	0.302	0.0	0.0	0.1
1560	63.663	63.602	0.303	0.0	0.0	0.1
1584	63.664	63.603	0.304	0.0	0.0	0.1
1608	63.664	63.604	0.304	0.0	0.0	0.1
1632	63.665	63.604	0.305	0.0	0.0	0.1
1656	63.665	63.605	0.305	0.0	0.0	0.1
1680	63.665	63.605	0.305	0.0	0.0	0.1
1704	63.665	63.605	0.305	0.0	0.0	0.1
1728	63.664	63.605	0.304	0.0	0.0	0.1
1752	63.664	63.605	0.304	0.0	0.0	0.1
1776	63.663	63.604	0.303	0.0	0.0	0.1
1800	63.663	63.604	0.303	0.0	0.0	0.1
1824	63.662	63.603	0.302	0.0	0.0	0.1
1848	63.661	63.603	0.301	0.0	0.0	0.1
1872	63.661	63.602	0.301	0.0	0.0	0.1
1896	63.660	63.601	0.300	0.0	0.0	0.1
1920	63.659	63.600	0.299	0.0	0.0	0.1
1944	63.658	63.600	0.298	0.0	0.0	0.1
1968	63.657	63.599	0.297	0.0	0.0	0.1
1992	63.656	63.598	0.296	0.0	0.0	0.1
2016	63.654	63.597	0.294	0.0	0.0	0.1
2040	63.653	63.596	0.293	0.0	0.0	0.1
2064	63.652	63.594	0.292	0.0	0.0	0.1
2088	63.651	63.593	0.291	0.0	0.0	0.1
2112	63.650	63.592	0.290	0.0	0.0	0.1
2136	63.649	63.591	0.289	0.0	0.0	0.1
2160	63.647	63.590	0.287	0.0	0.0	0.1
2184	63.645	63.589	0.285	0.0	0.0	0.1
2208	63.641	63.586	0.281	0.0	0.0	0.1
2232	63.637	63.583	0.277	0.0	0.0	0.1
2256	63.633	63.580	0.273	0.0	0.0	0.1
2280	63.630	63.576	0.270	0.0	0.0	0.1
2304	63.626	63.573	0.266	0.0	0.0	0.1
2328	63.623	63.570	0.263	0.0	0.0	0.1
2352	63.619	63.566	0.259	0.0	0.0	0.1
2376	63.615	63.563	0.255	0.0	0.0	0.1
2400	63.612	63.559	0.252	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.608	63.556	0.248	0.0	0.0	0.1
2448	63.605	63.552	0.245	0.0	0.0	0.1
2472	63.601	63.549	0.241	0.0	0.0	0.1
2496	63.597	63.545	0.237	0.0	0.0	0.1
2520	63.594	63.542	0.234	0.0	0.0	0.1
2544	63.590	63.538	0.230	0.0	0.0	0.1
2568	63.587	63.535	0.227	0.0	0.0	0.1
2592	63.583	63.531	0.223	0.0	0.0	0.1
2616	63.579	63.528	0.219	0.0	0.0	0.1
2640	63.576	63.524	0.216	0.0	0.0	0.1
2664	63.572	63.521	0.212	0.0	0.0	0.1
2688	63.569	63.518	0.209	0.0	0.0	0.1
2712	63.565	63.514	0.205	0.0	0.0	0.1
2736	63.562	63.511	0.202	0.0	0.0	0.1
2760	63.558	63.507	0.198	0.0	0.0	0.1
2784	63.555	63.504	0.195	0.0	0.0	0.1
2808	63.551	63.501	0.191	0.0	0.0	0.1
2832	63.548	63.497	0.188	0.0	0.0	0.1
2856	63.544	63.494	0.184	0.0	0.0	0.1
2880	63.541	63.490	0.181	0.0	0.0	0.1
2904	63.538	63.487	0.178	0.0	0.0	0.1
2928	63.534	63.484	0.174	0.0	0.0	0.1
2952	63.531	63.480	0.171	0.0	0.0	0.1
2976	63.527	63.477	0.167	0.0	0.0	0.1
3000	63.524	63.474	0.164	0.0	0.0	0.1
3024	63.521	63.471	0.161	0.0	0.0	0.1
3048	63.517	63.467	0.157	0.0	0.0	0.1
3072	63.514	63.464	0.154	0.0	0.0	0.1
3096	63.510	63.461	0.150	0.0	0.0	0.1
3120	63.507	63.458	0.147	0.0	0.0	0.1
3144	63.504	63.454	0.144	0.0	0.0	0.1
3168	63.500	63.451	0.140	0.0	0.0	0.1
3192	63.497	63.448	0.137	0.0	0.0	0.1
3216	63.494	63.445	0.134	0.0	0.0	0.1
3240	63.490	63.441	0.130	0.0	0.0	0.1
3264	63.487	63.438	0.127	0.0	0.0	0.1
3288	63.483	63.435	0.123	0.0	0.0	0.1
3312	63.480	63.431	0.120	0.0	0.0	0.1
3336	63.477	63.428	0.117	0.0	0.0	0.1
3360	63.474	63.426	0.114	0.0	0.0	0.1
3384	63.471	63.422	0.111	0.0	0.0	0.1
3408	63.467	63.419	0.107	0.0	0.0	0.1
3432	63.464	63.416	0.104	0.0	0.0	0.1
3456	63.461	63.413	0.101	0.0	0.0	0.1
3480	63.457	63.409	0.097	0.0	0.1	0.1
3504	63.453	63.406	0.093	0.0	0.1	0.1
3528	63.450	63.402	0.090	0.0	0.1	0.1
3552	63.447	63.399	0.087	0.0	0.2	0.1
3576	63.444	63.397	0.084	0.0	0.2	0.1
3600	63.441	63.393	0.081	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.437	63.390	0.077	0.0	0.2	0.1
3648	63.434	63.387	0.074	0.0	0.2	0.1
3672	63.431	63.384	0.071	0.0	0.2	0.1
3696	63.427	63.380	0.067	0.0	0.2	0.1
3720	63.424	63.377	0.064	0.0	0.2	0.1
3744	63.421	63.374	0.061	0.0	0.2	0.1
3768	63.417	63.371	0.057	0.0	0.2	0.1
3792	63.414	63.368	0.054	0.0	0.2	0.1
3816	63.411	63.365	0.051	0.0	0.2	0.1
3840	63.408	63.361	0.048	0.0	0.2	0.1
3864	63.404	63.358	0.044	0.0	0.2	0.1
3888	63.401	63.355	0.041	0.0	0.2	0.1
3912	63.398	63.352	0.038	0.0	0.2	0.1
3936	63.395	63.349	0.035	0.0	0.2	0.1
3960	63.391	63.345	0.031	0.0	0.2	0.1
3984	63.388	63.341	0.028	0.0	0.2	0.1
4008	63.385	63.336	0.025	0.0	0.2	0.1
4032	63.382	63.331	0.022	0.0	0.2	0.1
4056	63.379	63.325	0.019	0.0	0.2	0.1
4080	63.377	63.319	0.017	0.0	0.2	0.1
4104	63.374	63.311	0.014	0.0	0.2	0.1
4128	63.372	63.301	0.012	0.0	0.2	0.1
4152	63.369	63.288	0.009	0.0	0.2	0.0
4176	63.367	63.276	0.007	0.0	0.2	0.0
4200	63.365	63.263	0.005	0.0	0.2	0.0
4224	63.363	63.249	0.003	0.0	0.2	0.1
4248	63.359	63.257	-0.001	0.0	0.2	0.1
4272	63.354	63.270	-0.006	0.0	0.3	0.1
4296	63.350	63.275	-0.010	0.0	0.3	0.1
4320	63.347	63.277	-0.013	0.0	0.3	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.101	63.096	-0.109	0.0	0.0	0.0
72	63.103	63.096	-0.107	0.0	0.0	0.0
96	63.105	63.096	-0.105	0.0	0.0	0.0
120	63.109	63.096	-0.101	0.0	0.0	0.0
144	63.114	63.096	-0.096	0.0	0.0	0.0
168	63.118	63.096	-0.092	0.0	0.0	0.0
192	63.122	63.096	-0.088	0.0	0.0	0.0
216	63.126	63.096	-0.084	0.0	0.0	0.0
240	63.130	63.096	-0.080	0.0	0.0	0.0
264	63.134	63.096	-0.076	0.0	0.0	0.0
288	63.137	63.096	-0.073	0.0	0.0	0.0
312	63.140	63.096	-0.070	0.0	0.0	0.0
336	63.142	63.096	-0.068	0.0	0.0	0.0
360	63.144	63.096	-0.066	0.0	0.0	0.0
384	63.147	63.096	-0.063	0.0	0.0	0.0
408	63.149	63.096	-0.061	0.0	0.0	0.0
432	63.151	63.096	-0.059	0.0	0.0	0.0
456	63.153	63.096	-0.057	0.0	0.0	0.0
480	63.157	63.096	-0.053	0.0	0.0	0.0
504	63.162	63.096	-0.048	0.0	0.0	0.0
528	63.167	63.096	-0.043	0.0	0.0	0.0
552	63.173	63.096	-0.037	0.0	0.0	0.0
576	63.180	63.096	-0.030	0.0	0.0	0.0
600	63.188	63.096	-0.022	0.0	0.0	0.0
624	63.196	63.096	-0.014	0.0	0.0	0.0
648	63.205	63.096	-0.005	0.0	0.0	0.0
672	63.215	63.096	0.005	0.0	0.0	0.0
696	63.228	63.096	0.018	0.0	0.0	0.0
720	63.240	63.096	0.030	0.0	0.0	0.0
744	63.250	63.096	0.040	0.0	0.0	0.0
768	63.251	63.096	0.041	0.0	0.0	0.0
792	63.250	63.096	0.040	0.0	0.0	0.0
816	63.251	63.096	0.041	0.0	0.0	0.0
840	63.251	63.096	0.041	0.0	0.0	0.0
864	63.252	63.096	0.042	0.0	0.0	0.0
888	63.254	63.096	0.044	0.0	0.0	0.0
912	63.260	63.096	0.050	0.0	0.0	0.0
936	63.268	63.096	0.058	0.0	0.0	0.0
960	63.264	63.096	0.054	0.0	0.0	0.0
984	63.261	63.096	0.051	0.0	0.0	0.0
1008	63.272	63.096	0.062	0.0	0.0	0.0
1032	63.294	63.096	0.084	0.0	0.0	0.0
1056	63.329	63.096	0.119	0.0	0.0	0.0
1080	63.370	63.096	0.160	0.0	0.1	0.0
1104	63.404	63.096	0.194	0.0	0.1	0.0
1128	63.433	63.096	0.223	0.0	0.1	0.0
1152	63.457	63.096	0.247	0.0	0.1	0.0
1176	63.479	63.096	0.269	0.0	0.1	0.0
1200	63.498	63.096	0.288	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.514	63.096	0.304	0.0	0.1	0.0
1248	63.529	63.096	0.319	0.0	0.1	0.0
1272	63.542	63.096	0.332	0.0	0.1	0.0
1296	63.553	63.096	0.343	0.0	0.1	0.0
1320	63.562	63.096	0.352	0.0	0.1	0.0
1344	63.570	63.096	0.360	0.0	0.1	0.0
1368	63.577	63.096	0.367	0.0	0.1	0.0
1392	63.582	63.096	0.372	0.0	0.1	0.0
1416	63.587	63.096	0.377	0.0	0.1	0.0
1440	63.591	63.096	0.381	0.0	0.1	0.0
1464	63.594	63.096	0.384	0.0	0.1	0.0
1488	63.596	63.096	0.386	0.0	0.1	0.0
1512	63.598	63.096	0.388	0.0	0.1	0.0
1536	63.600	63.096	0.390	0.0	0.1	0.0
1560	63.602	63.096	0.392	0.0	0.1	0.0
1584	63.603	63.096	0.393	0.0	0.1	0.0
1608	63.604	63.096	0.394	0.0	0.1	0.0
1632	63.604	63.096	0.394	0.0	0.1	0.0
1656	63.605	63.096	0.395	0.0	0.1	0.0
1680	63.605	63.096	0.395	0.0	0.1	0.0
1704	63.605	63.096	0.395	0.0	0.1	0.0
1728	63.605	63.096	0.395	0.0	0.1	0.0
1752	63.605	63.096	0.395	0.0	0.1	0.0
1776	63.604	63.096	0.394	0.0	0.1	0.0
1800	63.604	63.096	0.394	0.0	0.1	0.0
1824	63.603	63.096	0.393	0.0	0.1	0.0
1848	63.603	63.096	0.393	0.0	0.1	0.0
1872	63.602	63.096	0.392	0.0	0.1	0.0
1896	63.601	63.096	0.391	0.0	0.1	0.0
1920	63.600	63.096	0.390	0.0	0.1	0.0
1944	63.600	63.096	0.390	0.0	0.1	0.0
1968	63.599	63.096	0.389	0.0	0.1	0.0
1992	63.598	63.096	0.388	0.0	0.1	0.0
2016	63.597	63.096	0.387	0.0	0.1	0.0
2040	63.596	63.096	0.386	0.0	0.1	0.0
2064	63.594	63.096	0.384	0.0	0.1	0.0
2088	63.593	63.096	0.383	0.0	0.1	0.0
2112	63.592	63.096	0.382	0.0	0.1	0.0
2136	63.591	63.096	0.381	0.0	0.1	0.0
2160	63.590	63.096	0.380	0.0	0.1	0.0
2184	63.589	63.096	0.379	0.0	0.1	0.0
2208	63.586	63.096	0.376	0.0	0.1	0.0
2232	63.583	63.096	0.373	0.0	0.1	0.0
2256	63.580	63.096	0.370	0.0	0.1	0.0
2280	63.576	63.096	0.366	0.0	0.1	0.0
2304	63.573	63.096	0.363	0.0	0.1	0.0
2328	63.570	63.096	0.360	0.0	0.1	0.0
2352	63.566	63.096	0.356	0.0	0.1	0.0
2376	63.563	63.096	0.353	0.0	0.1	0.0
2400	63.559	63.096	0.349	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.556	63.096	0.346	0.0	0.1	0.0
2448	63.552	63.096	0.342	0.0	0.1	0.0
2472	63.549	63.096	0.339	0.0	0.1	0.0
2496	63.545	63.096	0.335	0.0	0.1	0.0
2520	63.542	63.096	0.332	0.0	0.1	0.0
2544	63.538	63.096	0.328	0.0	0.1	0.0
2568	63.535	63.096	0.325	0.0	0.1	0.0
2592	63.531	63.096	0.321	0.0	0.1	0.0
2616	63.528	63.096	0.318	0.0	0.1	0.0
2640	63.524	63.096	0.314	0.0	0.1	0.0
2664	63.521	63.096	0.311	0.0	0.1	0.0
2688	63.518	63.096	0.308	0.0	0.1	0.0
2712	63.514	63.096	0.304	0.0	0.1	0.0
2736	63.511	63.096	0.301	0.0	0.1	0.0
2760	63.507	63.096	0.297	0.0	0.1	0.0
2784	63.504	63.096	0.294	0.0	0.1	0.0
2808	63.501	63.096	0.291	0.0	0.1	0.0
2832	63.497	63.096	0.287	0.0	0.1	0.0
2856	63.494	63.096	0.284	0.0	0.1	0.0
2880	63.490	63.096	0.280	0.0	0.1	0.0
2904	63.487	63.096	0.277	0.0	0.1	0.0
2928	63.484	63.096	0.274	0.0	0.1	0.0
2952	63.480	63.096	0.270	0.0	0.1	0.0
2976	63.477	63.096	0.267	0.0	0.1	0.0
3000	63.474	63.096	0.264	0.0	0.1	0.0
3024	63.471	63.096	0.261	0.0	0.1	0.0
3048	63.467	63.096	0.257	0.0	0.1	0.0
3072	63.464	63.096	0.254	0.0	0.1	0.0
3096	63.461	63.096	0.251	0.0	0.1	0.0
3120	63.458	63.096	0.248	0.0	0.1	0.0
3144	63.454	63.096	0.244	0.0	0.1	0.0
3168	63.451	63.096	0.241	0.0	0.1	0.0
3192	63.448	63.096	0.238	0.0	0.1	0.0
3216	63.445	63.096	0.235	0.0	0.1	0.0
3240	63.441	63.096	0.231	0.0	0.1	0.0
3264	63.438	63.096	0.228	0.0	0.1	0.0
3288	63.435	63.096	0.225	0.0	0.1	0.0
3312	63.431	63.096	0.221	0.0	0.1	0.0
3336	63.428	63.096	0.218	0.0	0.1	0.0
3360	63.426	63.096	0.216	0.0	0.1	0.0
3384	63.422	63.096	0.212	0.0	0.1	0.0
3408	63.419	63.096	0.209	0.0	0.1	0.0
3432	63.416	63.096	0.206	0.0	0.1	0.0
3456	63.413	63.096	0.203	0.0	0.1	0.0
3480	63.409	63.096	0.199	0.0	0.1	0.0
3504	63.406	63.096	0.196	0.0	0.1	0.0
3528	63.402	63.096	0.192	0.0	0.1	0.0
3552	63.399	63.096	0.189	0.0	0.1	0.0
3576	63.397	63.096	0.187	0.0	0.1	0.0
3600	63.393	63.096	0.183	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Summer
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.390	63.096	0.180	0.0	0.1	0.0
3648	63.387	63.096	0.177	0.0	0.1	0.0
3672	63.384	63.096	0.174	0.0	0.1	0.0
3696	63.380	63.096	0.170	0.0	0.1	0.0
3720	63.377	63.096	0.167	0.0	0.1	0.0
3744	63.374	63.096	0.164	0.0	0.1	0.0
3768	63.371	63.096	0.161	0.0	0.1	0.0
3792	63.368	63.096	0.158	0.0	0.1	0.0
3816	63.365	63.096	0.155	0.0	0.1	0.0
3840	63.361	63.096	0.151	0.0	0.1	0.0
3864	63.358	63.096	0.148	0.0	0.1	0.0
3888	63.355	63.096	0.145	0.0	0.1	0.0
3912	63.352	63.096	0.142	0.0	0.1	0.0
3936	63.349	63.096	0.139	0.0	0.1	0.0
3960	63.345	63.096	0.135	0.0	0.1	0.0
3984	63.341	63.096	0.131	0.0	0.1	0.0
4008	63.336	63.096	0.126	0.0	0.1	0.0
4032	63.331	63.096	0.121	0.0	0.1	0.0
4056	63.325	63.096	0.115	0.0	0.1	0.0
4080	63.319	63.096	0.109	0.0	0.0	0.0
4104	63.311	63.096	0.101	0.0	0.0	0.0
4128	63.301	63.096	0.091	0.0	0.0	0.0
4152	63.288	63.096	0.078	0.0	0.0	0.0
4176	63.276	63.096	0.066	0.0	0.0	0.0
4200	63.263	63.096	0.053	0.0	0.0	0.0
4224	63.249	63.096	0.039	0.0	0.0	0.0
4248	63.257	63.096	0.047	0.0	0.0	0.0
4272	63.270	63.096	0.060	0.0	0.0	0.0
4296	63.275	63.096	0.065	0.0	0.0	0.0
4320	63.277	63.096	0.067	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	4320
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	2160
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 2160 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.402	-0.108	0.000	0.00	0.0	0.1	OK
1.001	S1	63.667	0.063	0.000	0.03	0.0	0.2	SURCHARGED
2.000	RE2	65.403	-0.107	0.000	0.01	0.0	0.1	OK
2.001	S2	65.004	-0.106	0.000	0.01	0.0	0.2	OK
1.002	S3	63.667	0.113	0.000	0.06	0.0	0.4	SURCHARGED
1.003	S4	63.667	0.307	0.000	0.03	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.607	0.397	0.000	0.01	0.0	0.0	SURCHARGED

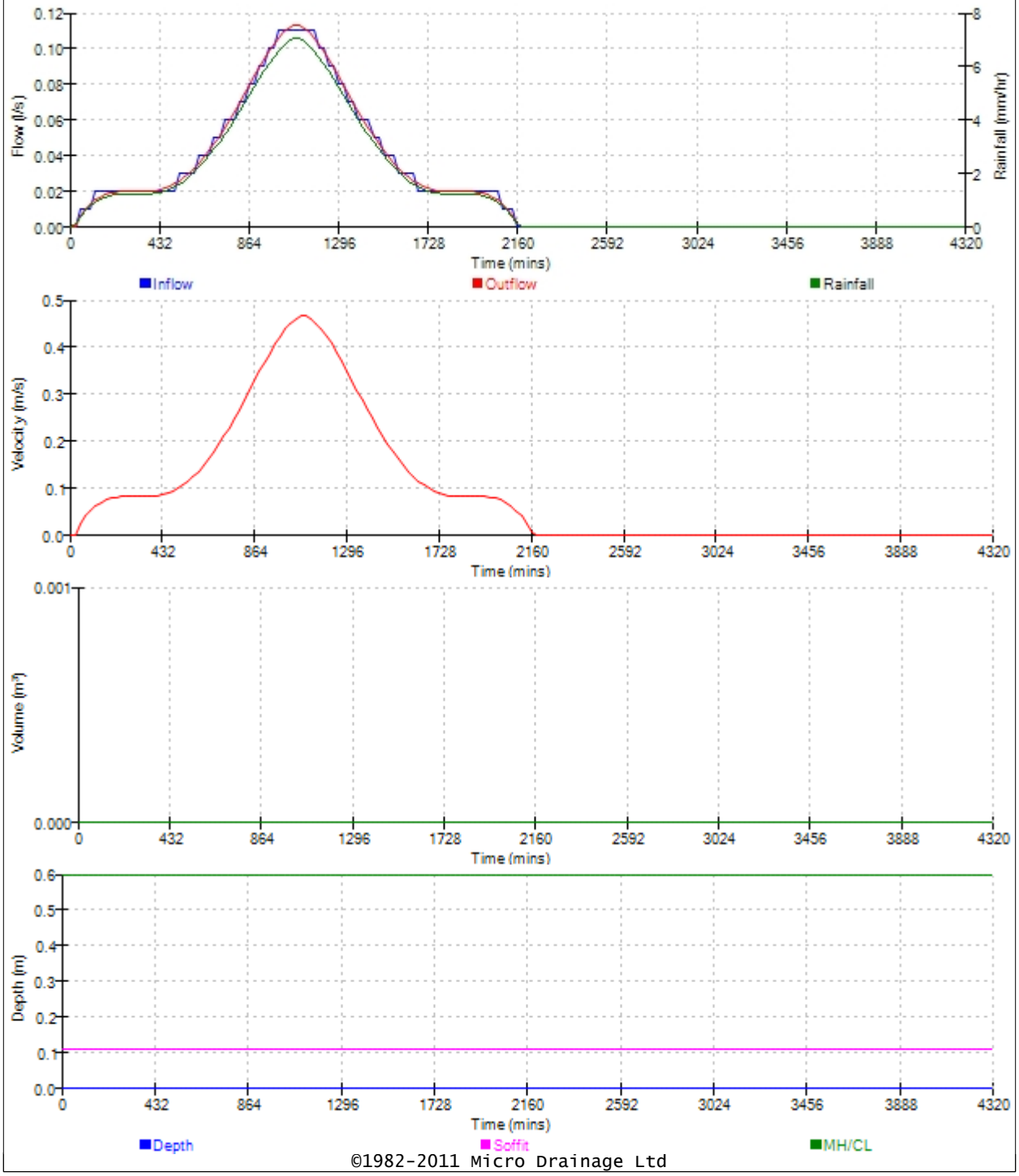
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Rainfall Hyetograph for 2160 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.118	456	1.367	888	5.265	1320	4.935	1752	1.312
48	0.402	480	1.435	912	5.560	1344	4.630	1776	1.278
72	0.632	504	1.520	936	5.844	1368	4.325	1800	1.256
96	0.814	528	1.624	960	6.112	1392	4.026	1824	1.244
120	0.955	552	1.747	984	6.360	1416	3.733	1848	1.240
144	1.061	576	1.891	1008	6.582	1440	3.450	1872	1.240
168	1.137	600	2.054	1032	6.774	1464	3.179	1896	1.243
192	1.188	624	2.237	1056	6.930	1488	2.922	1920	1.243
216	1.220	648	2.439	1080	7.043	1512	2.681	1944	1.238
240	1.238	672	2.681	1104	7.043	1536	2.439	1968	1.220
264	1.243	696	2.922	1128	6.930	1560	2.237	1992	1.189
288	1.243	720	3.179	1152	6.774	1584	2.054	2016	1.137
312	1.240	744	3.450	1176	6.582	1608	1.891	2040	1.061
336	1.240	768	3.733	1200	6.360	1632	1.747	2064	0.955
360	1.244	792	4.026	1224	6.112	1656	1.624	2088	0.814
384	1.256	816	4.325	1248	5.844	1680	1.520	2112	0.632
408	1.278	840	4.630	1272	5.560	1704	1.435	2136	0.402
432	1.312	864	4.935	1296	5.265	1728	1.367	2160	0.118

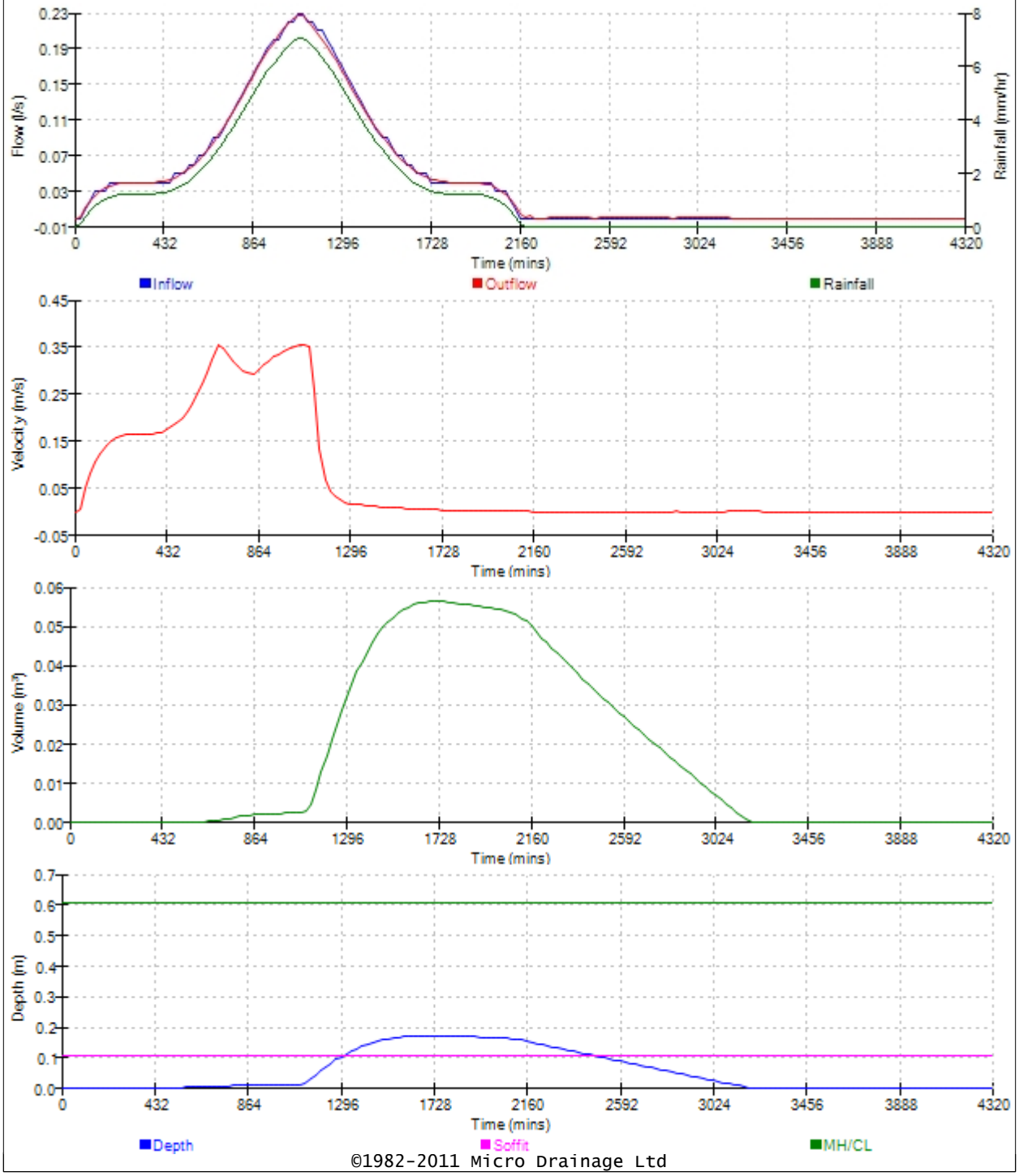
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Winter
Status: OK



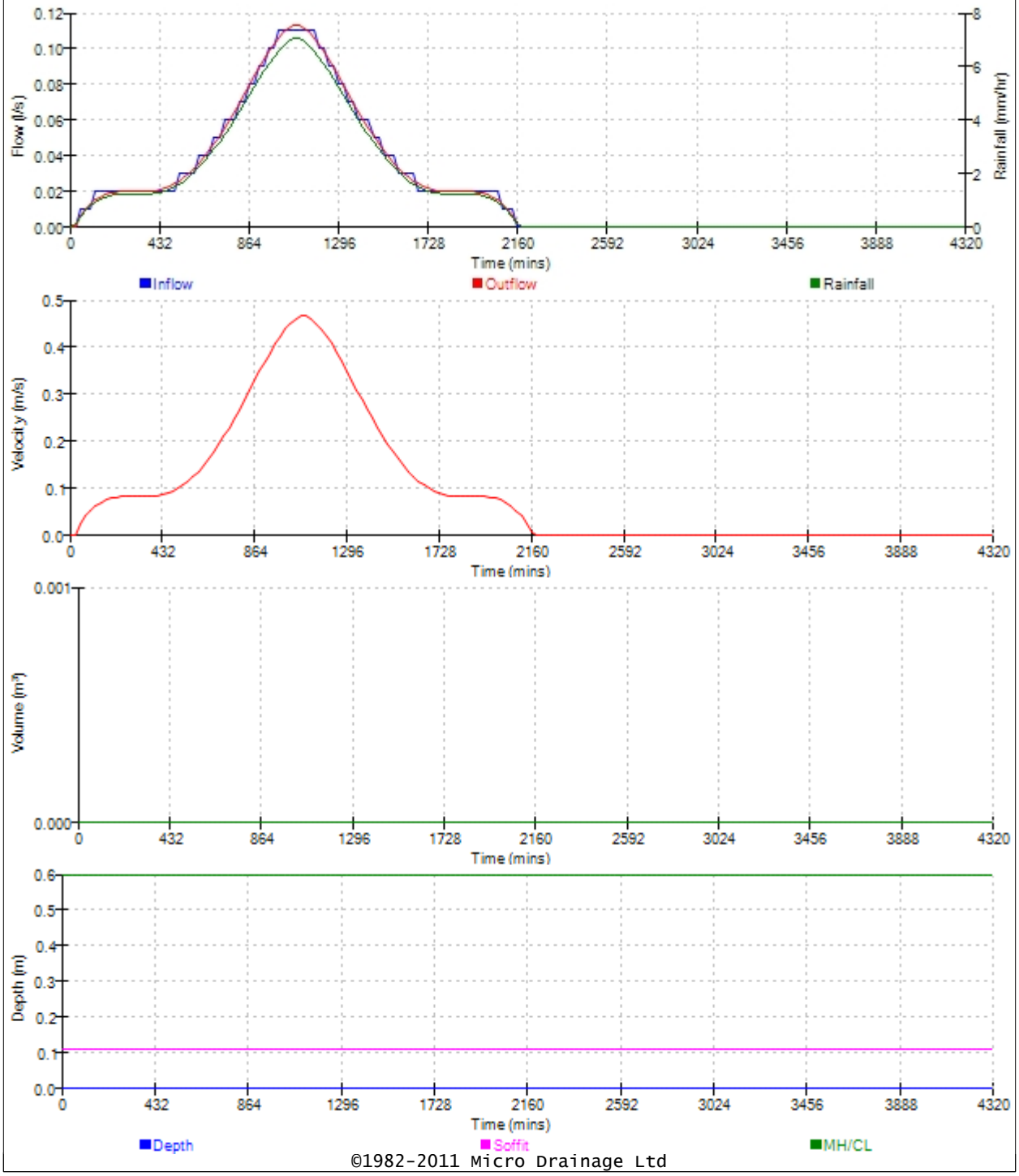
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Graphs for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Winter
Status: SURCHARGED



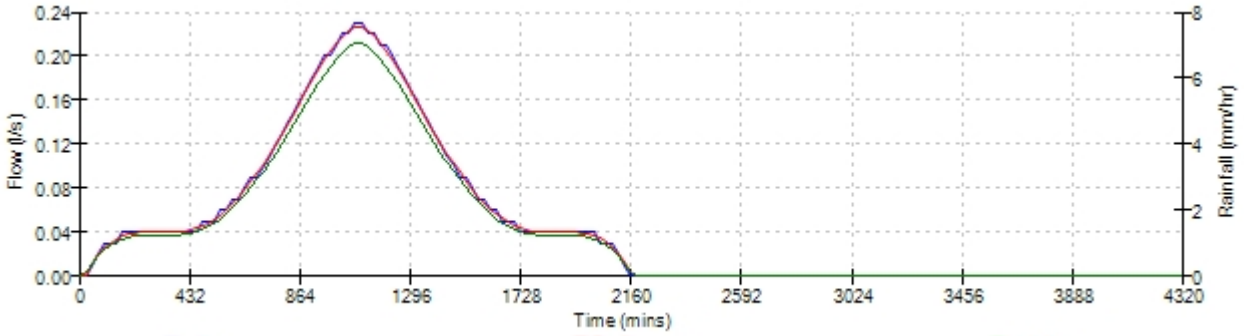
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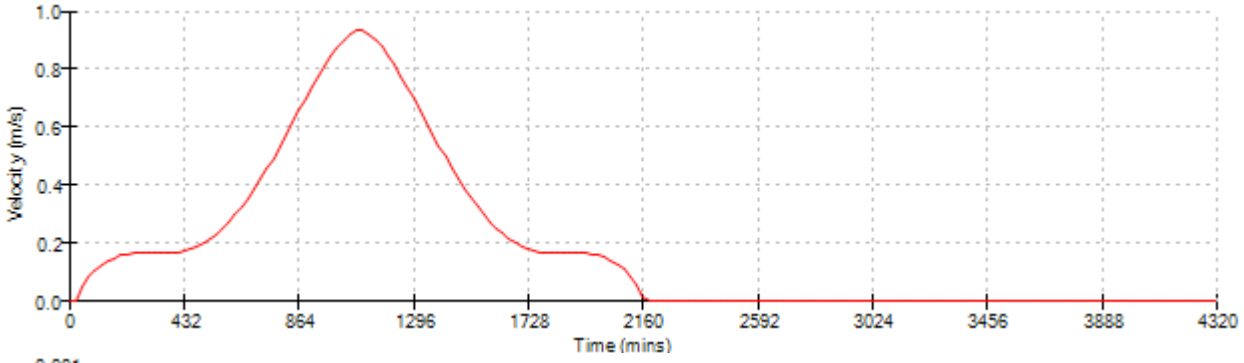
Graphs for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Winter
Status: OK

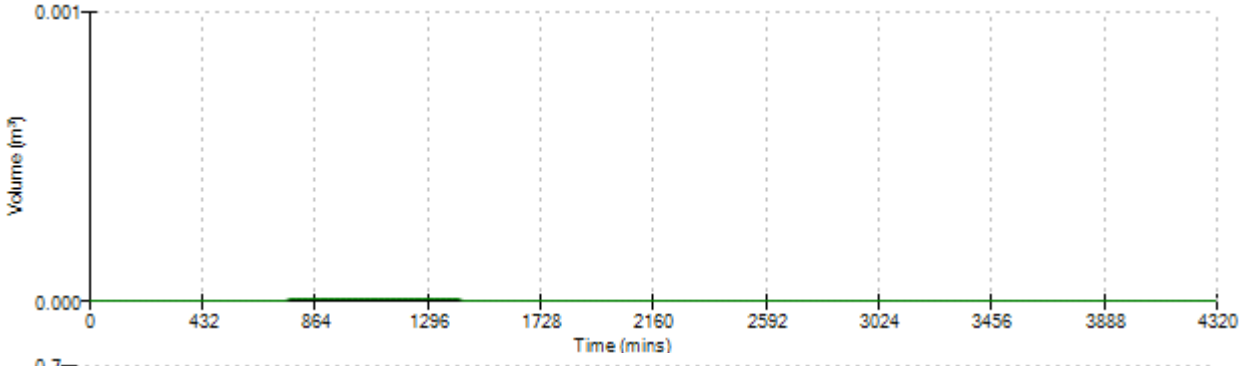


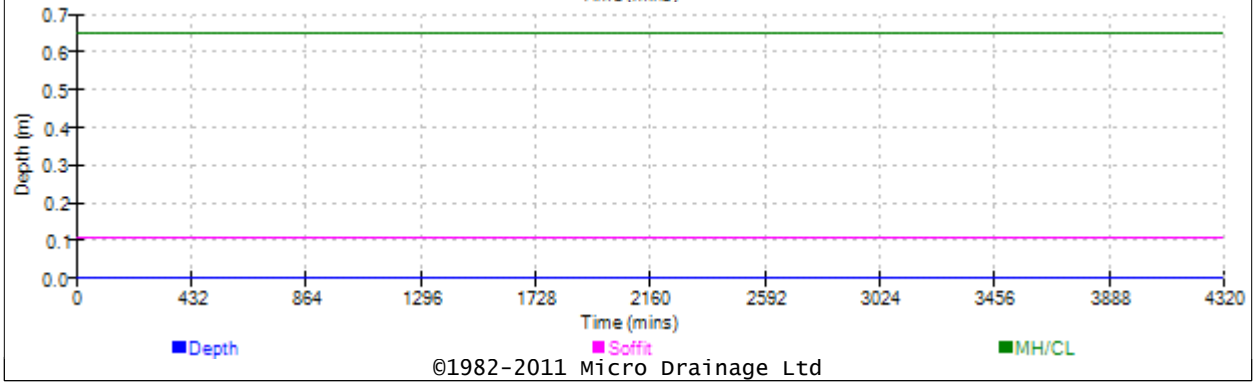
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Graphs for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Winter
Status: OK



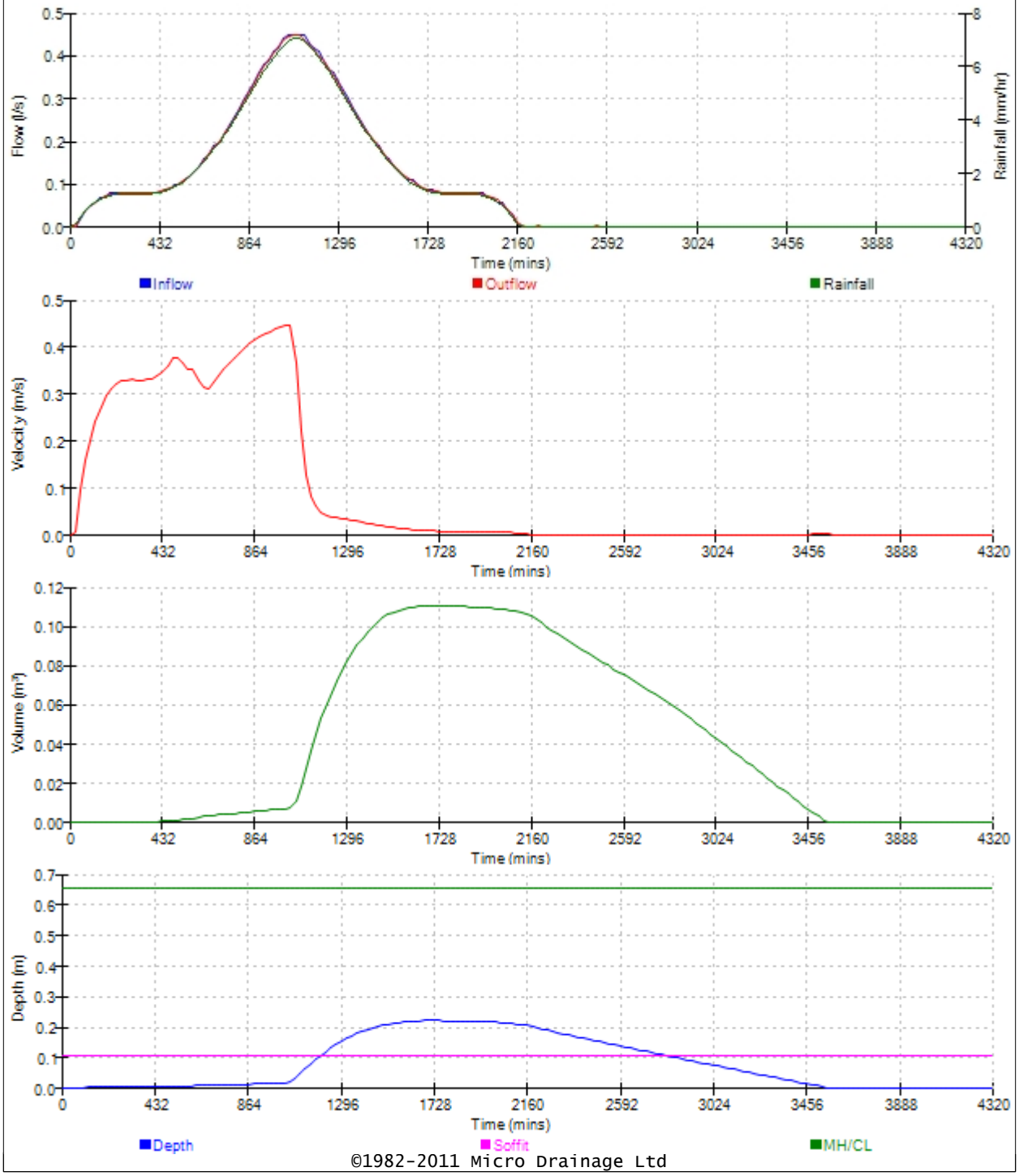






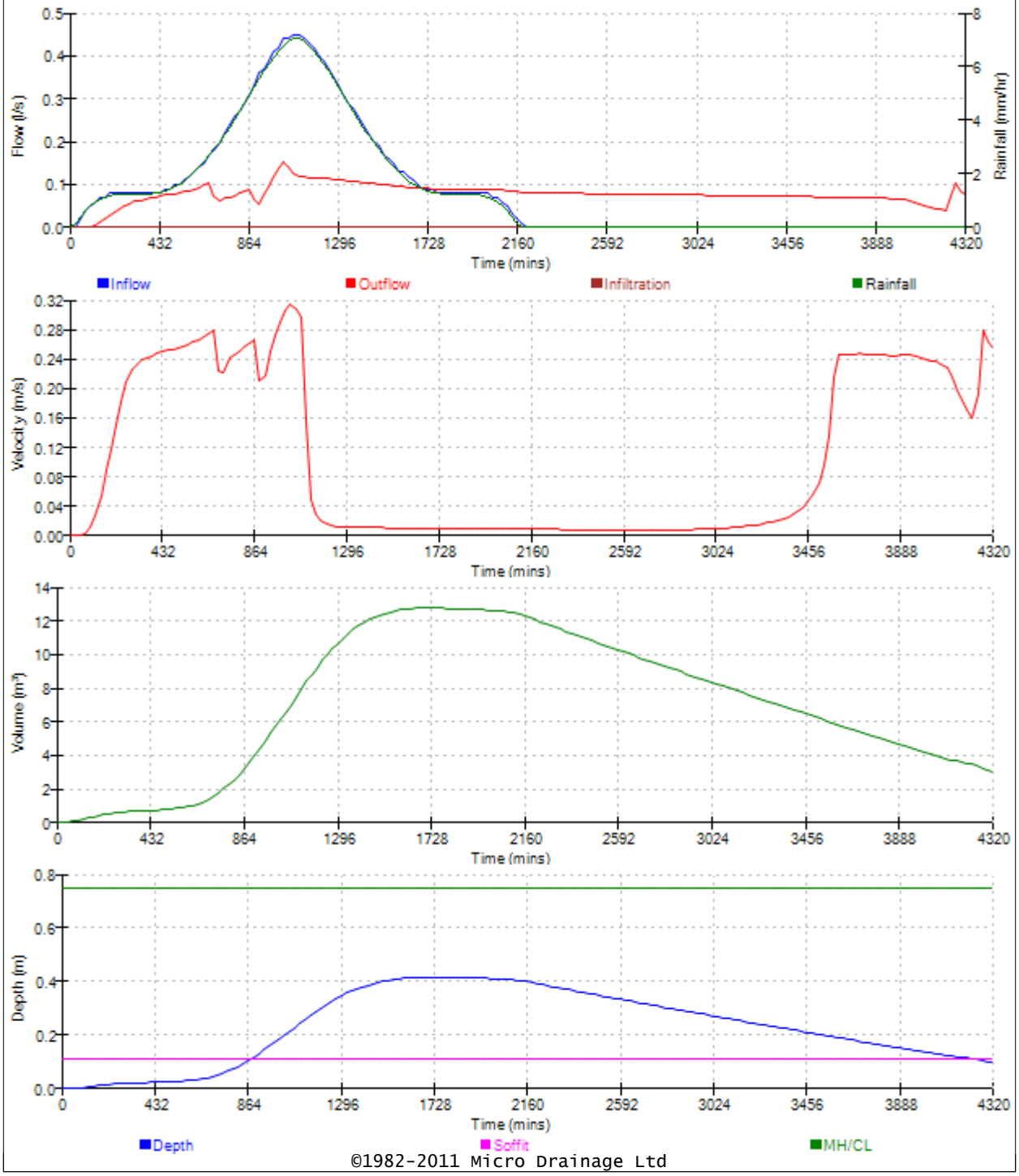
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Graphs for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Winter
Status: SURCHARGED



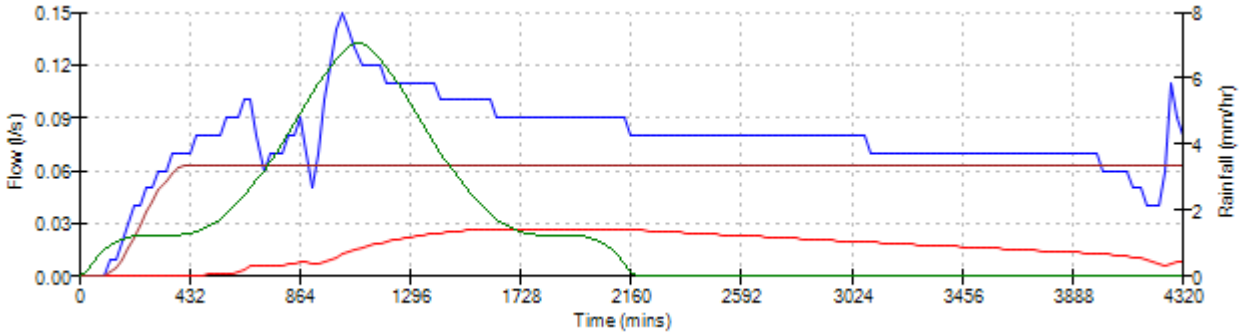
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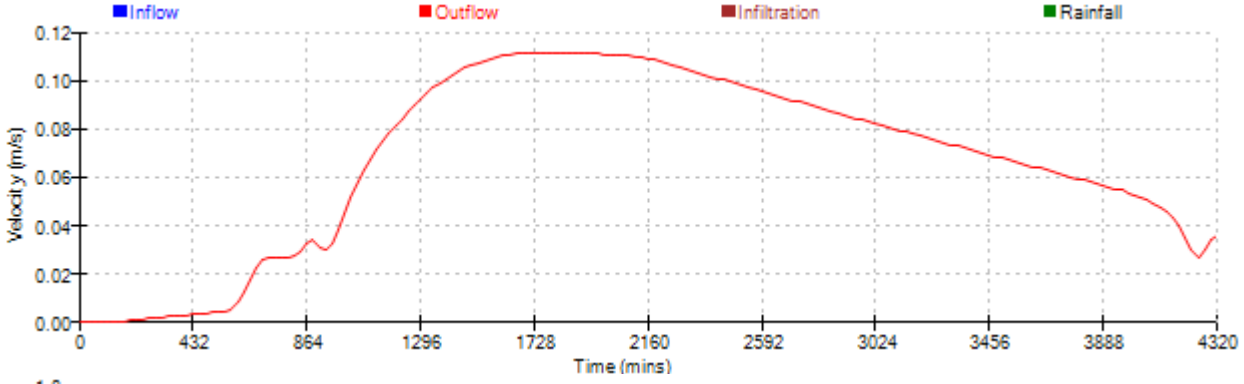
Graphs for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Winter
Status: SURCHARGED

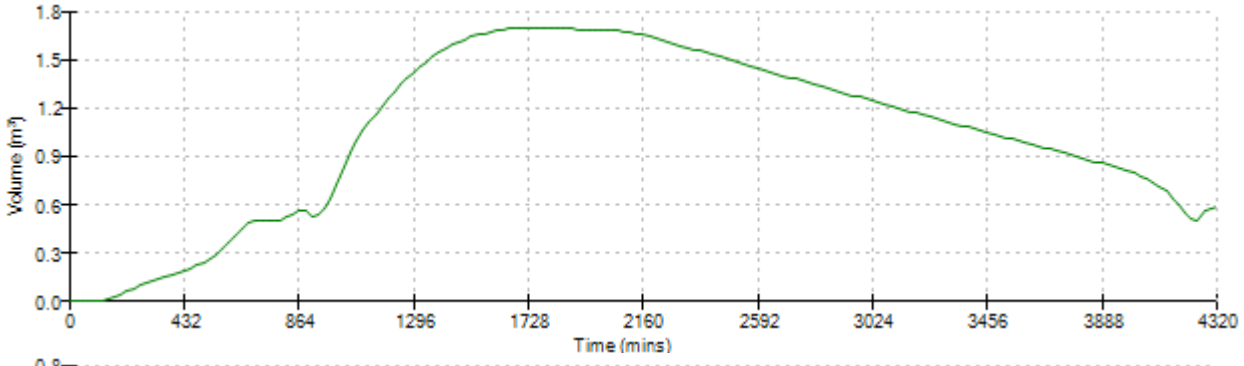


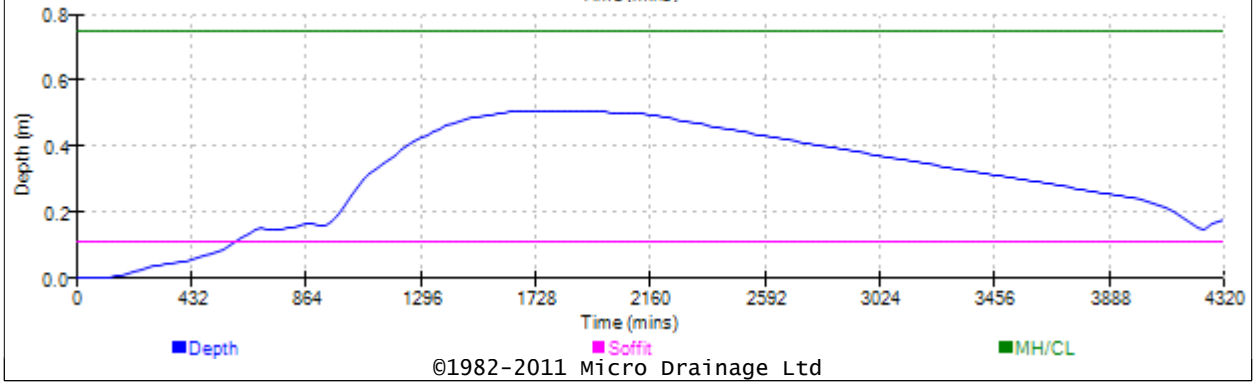
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.496	-0.110	0.0	0.0	0.0
96	65.400	63.496	-0.110	0.0	0.1	0.0
120	65.400	63.497	-0.110	0.0	0.1	0.0
144	65.400	63.497	-0.110	0.0	0.1	0.0
168	65.400	63.497	-0.110	0.0	0.1	0.0
192	65.400	63.497	-0.110	0.0	0.1	0.0
216	65.400	63.497	-0.110	0.0	0.1	0.0
240	65.400	63.497	-0.110	0.0	0.1	0.0
264	65.400	63.497	-0.110	0.0	0.1	0.0
288	65.400	63.497	-0.110	0.0	0.1	0.0
312	65.400	63.497	-0.110	0.0	0.1	0.0
336	65.400	63.497	-0.110	0.0	0.1	0.0
360	65.400	63.497	-0.110	0.0	0.1	0.0
384	65.400	63.497	-0.110	0.0	0.1	0.0
408	65.400	63.497	-0.110	0.0	0.1	0.0
432	65.400	63.497	-0.110	0.0	0.1	0.0
456	65.400	63.498	-0.110	0.0	0.1	0.0
480	65.400	63.498	-0.110	0.0	0.1	0.0
504	65.400	63.498	-0.110	0.0	0.1	0.0
528	65.401	63.498	-0.109	0.0	0.1	0.0
552	65.401	63.498	-0.109	0.0	0.1	0.0
576	65.401	63.499	-0.109	0.0	0.1	0.0
600	65.401	63.499	-0.109	0.0	0.1	0.0
624	65.401	63.500	-0.109	0.0	0.1	0.0
648	65.401	63.500	-0.109	0.0	0.2	0.0
672	65.401	63.501	-0.109	0.0	0.2	0.0
696	65.401	63.501	-0.109	0.0	0.2	0.0
720	65.401	63.502	-0.109	0.0	0.2	0.1
744	65.401	63.503	-0.109	0.0	0.2	0.1
768	65.401	63.503	-0.109	0.0	0.2	0.1
792	65.401	63.504	-0.109	0.0	0.3	0.1
816	65.401	63.505	-0.109	0.0	0.3	0.1
840	65.402	63.505	-0.108	0.0	0.3	0.1
864	65.402	63.506	-0.108	0.0	0.3	0.1
888	65.402	63.506	-0.108	0.0	0.4	0.1
912	65.402	63.506	-0.108	0.0	0.4	0.1
936	65.402	63.506	-0.108	0.0	0.4	0.1
960	65.402	63.506	-0.108	0.0	0.4	0.1
984	65.402	63.507	-0.108	0.0	0.4	0.1
1008	65.402	63.507	-0.108	0.0	0.4	0.1
1032	65.402	63.507	-0.108	0.0	0.5	0.1
1056	65.402	63.507	-0.108	0.0	0.5	0.1
1080	65.402	63.507	-0.108	0.0	0.5	0.1
1104	65.402	63.508	-0.108	0.0	0.5	0.1
1128	65.402	63.514	-0.108	0.0	0.5	0.1
1152	65.402	63.526	-0.108	0.0	0.5	0.1
1176	65.402	63.540	-0.108	0.0	0.4	0.1
1200	65.402	63.553	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.402	63.566	-0.108	0.0	0.4	0.1
1248	65.402	63.578	-0.108	0.0	0.4	0.1
1272	65.402	63.589	-0.108	0.0	0.4	0.1
1296	65.402	63.599	-0.108	0.0	0.4	0.1
1320	65.402	63.609	-0.108	0.0	0.3	0.1
1344	65.402	63.617	-0.108	0.0	0.3	0.1
1368	65.401	63.625	-0.109	0.0	0.3	0.1
1392	65.401	63.632	-0.109	0.0	0.3	0.1
1416	65.401	63.638	-0.109	0.0	0.2	0.1
1440	65.401	63.644	-0.109	0.0	0.2	0.1
1464	65.401	63.649	-0.109	0.0	0.2	0.1
1488	65.401	63.653	-0.109	0.0	0.2	0.0
1512	65.401	63.656	-0.109	0.0	0.2	0.0
1536	65.401	63.659	-0.109	0.0	0.2	0.0
1560	65.401	63.661	-0.109	0.0	0.1	0.0
1584	65.401	63.663	-0.109	0.0	0.1	0.0
1608	65.401	63.664	-0.109	0.0	0.1	0.0
1632	65.401	63.666	-0.109	0.0	0.1	0.0
1656	65.401	63.666	-0.109	0.0	0.1	0.0
1680	65.400	63.667	-0.110	0.0	0.1	0.0
1704	65.400	63.667	-0.110	0.0	0.1	0.0
1728	65.400	63.667	-0.110	0.0	0.1	0.0
1752	65.400	63.667	-0.110	0.0	0.1	0.0
1776	65.400	63.666	-0.110	0.0	0.1	0.0
1800	65.400	63.666	-0.110	0.0	0.1	0.0
1824	65.400	63.665	-0.110	0.0	0.1	0.0
1848	65.400	63.665	-0.110	0.0	0.1	0.0
1872	65.400	63.664	-0.110	0.0	0.1	0.0
1896	65.400	63.664	-0.110	0.0	0.1	0.0
1920	65.400	63.664	-0.110	0.0	0.1	0.0
1944	65.400	63.663	-0.110	0.0	0.1	0.0
1968	65.400	63.662	-0.110	0.0	0.1	0.0
1992	65.400	63.662	-0.110	0.0	0.1	0.0
2016	65.400	63.661	-0.110	0.0	0.1	0.0
2040	65.400	63.660	-0.110	0.0	0.1	0.0
2064	65.400	63.659	-0.110	0.0	0.1	0.0
2088	65.400	63.658	-0.110	0.0	0.1	0.0
2112	65.400	63.655	-0.110	0.0	0.0	0.0
2136	65.400	63.653	-0.110	0.0	0.0	0.0
2160	65.400	63.650	-0.110	0.0	0.0	0.0
2184	65.400	63.646	-0.110	0.0	0.0	0.0
2208	65.400	63.641	-0.110	0.0	0.0	0.0
2232	65.400	63.638	-0.110	0.0	0.0	0.0
2256	65.400	63.635	-0.110	0.0	0.0	0.0
2280	65.400	63.631	-0.110	0.0	0.0	0.0
2304	65.400	63.627	-0.110	0.0	0.0	0.0
2328	65.400	63.624	-0.110	0.0	0.0	0.0
2352	65.400	63.620	-0.110	0.0	0.0	0.0
2376	65.400	63.616	-0.110	0.0	0.0	0.0
2400	65.400	63.612	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.609	-0.110	0.0	0.0	0.0
2448	65.400	63.605	-0.110	0.0	0.0	0.0
2472	65.400	63.602	-0.110	0.0	0.0	0.0
2496	65.400	63.598	-0.110	0.0	0.0	0.0
2520	65.400	63.596	-0.110	0.0	0.0	0.0
2544	65.400	63.591	-0.110	0.0	0.0	0.0
2568	65.400	63.587	-0.110	0.0	0.0	0.0
2592	65.400	63.584	-0.110	0.0	0.0	0.0
2616	65.400	63.580	-0.110	0.0	0.0	0.0
2640	65.400	63.577	-0.110	0.0	0.0	0.0
2664	65.400	63.573	-0.110	0.0	0.0	0.0
2688	65.400	63.570	-0.110	0.0	0.0	0.0
2712	65.400	63.566	-0.110	0.0	0.0	0.0
2736	65.400	63.562	-0.110	0.0	0.0	0.0
2760	65.400	63.559	-0.110	0.0	0.0	0.0
2784	65.400	63.556	-0.110	0.0	0.0	0.0
2808	65.400	63.552	-0.110	0.0	0.0	0.0
2832	65.400	63.548	-0.110	0.0	0.0	0.0
2856	65.400	63.545	-0.110	0.0	0.0	0.0
2880	65.400	63.542	-0.110	0.0	0.0	0.0
2904	65.400	63.539	-0.110	0.0	0.0	0.0
2928	65.400	63.535	-0.110	0.0	0.0	0.0
2952	65.400	63.531	-0.110	0.0	0.0	0.0
2976	65.400	63.528	-0.110	0.0	0.0	0.0
3000	65.400	63.524	-0.110	0.0	0.0	0.0
3024	65.400	63.521	-0.110	0.0	0.0	0.0
3048	65.400	63.518	-0.110	0.0	0.0	0.0
3072	65.400	63.514	-0.110	0.0	0.0	0.0
3096	65.400	63.511	-0.110	0.0	0.0	0.0
3120	65.400	63.508	-0.110	0.0	0.0	0.0
3144	65.400	63.505	-0.110	0.0	0.0	0.0
3168	65.400	63.502	-0.110	0.0	0.0	0.0
3192	65.400	63.498	-0.110	0.0	0.0	0.0
3216	65.400	63.494	-0.110	0.0	0.0	0.0
3240	65.400	63.494	-0.110	0.0	0.0	0.0
3264	65.400	63.494	-0.110	0.0	0.0	0.0
3288	65.400	63.494	-0.110	0.0	0.0	0.0
3312	65.400	63.494	-0.110	0.0	0.0	0.0
3336	65.400	63.494	-0.110	0.0	0.0	0.0
3360	65.400	63.494	-0.110	0.0	0.0	0.0
3384	65.400	63.494	-0.110	0.0	0.0	0.0
3408	65.400	63.494	-0.110	0.0	0.0	0.0
3432	65.400	63.494	-0.110	0.0	0.0	0.0
3456	65.400	63.494	-0.110	0.0	0.0	0.0
3480	65.400	63.494	-0.110	0.0	0.0	0.0
3504	65.400	63.494	-0.110	0.0	0.0	0.0
3528	65.400	63.494	-0.110	0.0	0.0	0.0
3552	65.400	63.494	-0.110	0.0	0.0	0.0
3576	65.400	63.494	-0.110	0.0	0.0	0.0
3600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.494	-0.110	0.0	0.0	0.0
3648	65.400	63.494	-0.110	0.0	0.0	0.0
3672	65.400	63.494	-0.110	0.0	0.0	0.0
3696	65.400	63.494	-0.110	0.0	0.0	0.0
3720	65.400	63.494	-0.110	0.0	0.0	0.0
3744	65.400	63.494	-0.110	0.0	0.0	0.0
3768	65.400	63.494	-0.110	0.0	0.0	0.0
3792	65.400	63.494	-0.110	0.0	0.0	0.0
3816	65.400	63.494	-0.110	0.0	0.0	0.0
3840	65.400	63.494	-0.110	0.0	0.0	0.0
3864	65.400	63.494	-0.110	0.0	0.0	0.0
3888	65.400	63.494	-0.110	0.0	0.0	0.0
3912	65.400	63.494	-0.110	0.0	0.0	0.0
3936	65.400	63.494	-0.110	0.0	0.0	0.0
3960	65.400	63.494	-0.110	0.0	0.0	0.0
3984	65.400	63.494	-0.110	0.0	0.0	0.0
4008	65.400	63.494	-0.110	0.0	0.0	0.0
4032	65.400	63.494	-0.110	0.0	0.0	0.0
4056	65.400	63.494	-0.110	0.0	0.0	0.0
4080	65.400	63.494	-0.110	0.0	0.0	0.0
4104	65.400	63.494	-0.110	0.0	0.0	0.0
4128	65.400	63.494	-0.110	0.0	0.0	0.0
4152	65.400	63.494	-0.110	0.0	0.0	0.0
4176	65.400	63.494	-0.110	0.0	0.0	0.0
4200	65.400	63.494	-0.110	0.0	0.0	0.0
4224	65.400	63.494	-0.110	0.0	0.0	0.0
4248	65.400	63.494	-0.110	0.0	0.0	0.0
4272	65.400	63.494	-0.110	0.0	0.0	0.0
4296	65.400	63.494	-0.110	0.0	0.0	0.0
4320	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.495	63.446	-0.109	0.0	0.1	0.0
72	63.496	63.447	-0.108	0.0	0.1	0.0
96	63.496	63.448	-0.108	0.0	0.1	0.0
120	63.497	63.449	-0.108	0.0	0.1	0.0
144	63.497	63.449	-0.107	0.0	0.1	0.0
168	63.497	63.449	-0.107	0.0	0.2	0.0
192	63.497	63.450	-0.107	0.0	0.2	0.0
216	63.497	63.450	-0.107	0.0	0.2	0.0
240	63.497	63.450	-0.107	0.0	0.2	0.0
264	63.497	63.450	-0.107	0.0	0.2	0.0
288	63.497	63.450	-0.107	0.0	0.2	0.0
312	63.497	63.450	-0.107	0.0	0.2	0.0
336	63.497	63.450	-0.107	0.0	0.2	0.0
360	63.497	63.450	-0.107	0.0	0.2	0.0
384	63.497	63.450	-0.107	0.0	0.2	0.0
408	63.497	63.450	-0.107	0.0	0.2	0.0
432	63.497	63.450	-0.107	0.0	0.2	0.0
456	63.498	63.451	-0.107	0.0	0.2	0.0
480	63.498	63.451	-0.106	0.0	0.2	0.0
504	63.498	63.451	-0.106	0.0	0.2	0.0
528	63.498	63.452	-0.106	0.0	0.2	0.1
552	63.498	63.452	-0.106	0.0	0.2	0.1
576	63.499	63.453	-0.105	0.0	0.2	0.1
600	63.499	63.454	-0.105	0.0	0.3	0.1
624	63.500	63.455	-0.104	0.0	0.3	0.1
648	63.500	63.455	-0.104	0.0	0.3	0.1
672	63.501	63.456	-0.103	0.0	0.4	0.1
696	63.501	63.456	-0.103	0.0	0.3	0.1
720	63.502	63.456	-0.102	0.0	0.3	0.1
744	63.503	63.457	-0.101	0.0	0.3	0.1
768	63.503	63.457	-0.101	0.0	0.3	0.1
792	63.504	63.458	-0.100	0.0	0.3	0.1
816	63.505	63.458	-0.099	0.0	0.3	0.1
840	63.505	63.458	-0.099	0.0	0.3	0.1
864	63.506	63.459	-0.099	0.0	0.3	0.2
888	63.506	63.459	-0.098	0.0	0.3	0.2
912	63.506	63.460	-0.098	0.0	0.3	0.2
936	63.506	63.460	-0.098	0.0	0.3	0.2
960	63.506	63.461	-0.098	0.0	0.3	0.2
984	63.507	63.461	-0.097	0.0	0.3	0.2
1008	63.507	63.461	-0.097	0.0	0.3	0.2
1032	63.507	63.462	-0.097	0.0	0.4	0.2
1056	63.507	63.468	-0.097	0.0	0.4	0.2
1080	63.507	63.480	-0.097	0.0	0.4	0.2
1104	63.508	63.496	-0.096	0.0	0.4	0.2
1128	63.514	63.511	-0.090	0.0	0.3	0.2
1152	63.526	63.525	-0.078	0.0	0.1	0.2
1176	63.540	63.539	-0.064	0.0	0.1	0.2
1200	63.553	63.552	-0.051	0.0	0.0	0.2

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.566	63.565	-0.038	0.0	0.0	0.2
1248	63.578	63.577	-0.026	0.0	0.0	0.2
1272	63.589	63.588	-0.015	0.0	0.0	0.2
1296	63.599	63.599	-0.005	0.0	0.0	0.2
1320	63.609	63.608	0.005	0.0	0.0	0.2
1344	63.617	63.617	0.013	0.0	0.0	0.1
1368	63.625	63.625	0.021	0.0	0.0	0.1
1392	63.632	63.632	0.028	0.0	0.0	0.1
1416	63.638	63.638	0.034	0.0	0.0	0.1
1440	63.644	63.643	0.040	0.0	0.0	0.1
1464	63.649	63.648	0.044	0.0	0.0	0.1
1488	63.653	63.652	0.048	0.0	0.0	0.1
1512	63.656	63.655	0.052	0.0	0.0	0.1
1536	63.659	63.658	0.055	0.0	0.0	0.1
1560	63.661	63.661	0.057	0.0	0.0	0.1
1584	63.663	63.663	0.059	0.0	0.0	0.1
1608	63.664	63.664	0.060	0.0	0.0	0.1
1632	63.666	63.665	0.062	0.0	0.0	0.1
1656	63.666	63.666	0.062	0.0	0.0	0.1
1680	63.667	63.667	0.063	0.0	0.0	0.0
1704	63.667	63.667	0.063	0.0	0.0	0.0
1728	63.667	63.667	0.063	0.0	0.0	0.0
1752	63.667	63.667	0.063	0.0	0.0	0.0
1776	63.666	63.666	0.062	0.0	0.0	0.0
1800	63.666	63.666	0.062	0.0	0.0	0.0
1824	63.665	63.665	0.061	0.0	0.0	0.0
1848	63.665	63.665	0.061	0.0	0.0	0.0
1872	63.664	63.664	0.060	0.0	0.0	0.0
1896	63.664	63.664	0.060	0.0	0.0	0.0
1920	63.664	63.663	0.059	0.0	0.0	0.0
1944	63.663	63.663	0.059	0.0	0.0	0.0
1968	63.662	63.662	0.058	0.0	0.0	0.0
1992	63.662	63.662	0.058	0.0	0.0	0.0
2016	63.661	63.661	0.057	0.0	0.0	0.0
2040	63.660	63.660	0.056	0.0	0.0	0.0
2064	63.659	63.659	0.055	0.0	0.0	0.0
2088	63.658	63.657	0.053	0.0	0.0	0.0
2112	63.655	63.656	0.051	0.0	0.0	0.0
2136	63.653	63.653	0.049	0.0	0.0	0.0
2160	63.650	63.651	0.046	0.0	0.0	0.0
2184	63.646	63.646	0.042	0.0	0.0	0.0
2208	63.641	63.642	0.037	0.0	0.0	0.0
2232	63.638	63.638	0.034	0.0	0.0	0.0
2256	63.635	63.635	0.030	0.0	0.0	0.0
2280	63.631	63.631	0.027	0.0	0.0	0.0
2304	63.627	63.627	0.023	0.0	0.0	0.0
2328	63.624	63.623	0.019	0.0	0.0	0.0
2352	63.620	63.620	0.016	0.0	0.0	0.0
2376	63.616	63.616	0.012	0.0	0.0	0.0
2400	63.612	63.613	0.008	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.609	63.609	0.005	0.0	0.0	0.0
2448	63.605	63.605	0.001	0.0	0.0	0.0
2472	63.602	63.602	-0.002	0.0	0.0	0.0
2496	63.598	63.598	-0.006	0.0	0.0	0.0
2520	63.596	63.595	-0.009	0.0	0.0	0.0
2544	63.591	63.591	-0.013	0.0	0.0	0.0
2568	63.587	63.587	-0.017	0.0	0.0	0.0
2592	63.584	63.584	-0.020	0.0	0.0	0.0
2616	63.580	63.580	-0.024	0.0	0.0	0.0
2640	63.577	63.577	-0.028	0.0	0.0	0.0
2664	63.573	63.573	-0.031	0.0	0.0	0.0
2688	63.570	63.570	-0.034	0.0	0.0	0.0
2712	63.566	63.566	-0.038	0.0	0.0	0.0
2736	63.562	63.563	-0.042	0.0	0.0	0.0
2760	63.559	63.559	-0.045	0.0	0.0	0.0
2784	63.556	63.556	-0.048	0.0	0.0	0.0
2808	63.552	63.552	-0.052	0.0	0.0	0.0
2832	63.548	63.549	-0.056	0.0	0.0	0.0
2856	63.545	63.545	-0.059	0.0	0.0	0.0
2880	63.542	63.542	-0.062	0.0	0.0	0.0
2904	63.539	63.538	-0.065	0.0	0.0	0.0
2928	63.535	63.535	-0.069	0.0	0.0	0.0
2952	63.531	63.531	-0.073	0.0	0.0	0.0
2976	63.528	63.528	-0.076	0.0	0.0	0.0
3000	63.524	63.525	-0.080	0.0	0.0	0.0
3024	63.521	63.521	-0.083	0.0	0.0	0.0
3048	63.518	63.518	-0.086	0.0	0.0	0.0
3072	63.514	63.514	-0.090	0.0	0.0	0.0
3096	63.511	63.511	-0.093	0.0	0.0	0.0
3120	63.508	63.508	-0.096	0.0	0.0	0.0
3144	63.505	63.504	-0.099	0.0	0.0	0.0
3168	63.502	63.501	-0.102	0.0	0.0	0.0
3192	63.498	63.498	-0.106	0.0	0.0	0.0
3216	63.494	63.494	-0.110	0.0	0.0	0.0
3240	63.494	63.491	-0.110	0.0	0.0	0.0
3264	63.494	63.488	-0.110	0.0	0.0	0.0
3288	63.494	63.484	-0.110	0.0	0.0	0.0
3312	63.494	63.481	-0.110	0.0	0.0	0.0
3336	63.494	63.477	-0.110	0.0	0.0	0.0
3360	63.494	63.474	-0.110	0.0	0.0	0.0
3384	63.494	63.471	-0.110	0.0	0.0	0.0
3408	63.494	63.468	-0.110	0.0	0.0	0.0
3432	63.494	63.464	-0.110	0.0	0.0	0.0
3456	63.494	63.461	-0.110	0.0	0.0	0.0
3480	63.494	63.458	-0.110	0.0	0.0	0.0
3504	63.494	63.455	-0.110	0.0	0.0	0.0
3528	63.494	63.451	-0.110	0.0	0.0	0.0
3552	63.494	63.448	-0.110	0.0	0.0	0.0
3576	63.494	63.444	-0.110	0.0	0.0	0.0
3600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.494	63.444	-0.110	0.0	0.0	0.0
3648	63.494	63.444	-0.110	0.0	0.0	0.0
3672	63.494	63.444	-0.110	0.0	0.0	0.0
3696	63.494	63.444	-0.110	0.0	0.0	0.0
3720	63.494	63.444	-0.110	0.0	0.0	0.0
3744	63.494	63.444	-0.110	0.0	0.0	0.0
3768	63.494	63.444	-0.110	0.0	0.0	0.0
3792	63.494	63.444	-0.110	0.0	0.0	0.0
3816	63.494	63.444	-0.110	0.0	0.0	0.0
3840	63.494	63.444	-0.110	0.0	0.0	0.0
3864	63.494	63.444	-0.110	0.0	0.0	0.0
3888	63.494	63.444	-0.110	0.0	0.0	0.0
3912	63.494	63.444	-0.110	0.0	0.0	0.0
3936	63.494	63.444	-0.110	0.0	0.0	0.0
3960	63.494	63.444	-0.110	0.0	0.0	0.0
3984	63.494	63.444	-0.110	0.0	0.0	0.0
4008	63.494	63.444	-0.110	0.0	0.0	0.0
4032	63.494	63.444	-0.110	0.0	0.0	0.0
4056	63.494	63.444	-0.110	0.0	0.0	0.0
4080	63.494	63.444	-0.110	0.0	0.0	0.0
4104	63.494	63.444	-0.110	0.0	0.0	0.0
4128	63.494	63.444	-0.110	0.0	0.0	0.0
4152	63.494	63.444	-0.110	0.0	0.0	0.0
4176	63.494	63.444	-0.110	0.0	0.0	0.0
4200	63.494	63.444	-0.110	0.0	0.0	0.0
4224	63.494	63.444	-0.110	0.0	0.0	0.0
4248	63.494	63.444	-0.110	0.0	0.0	0.0
4272	63.494	63.444	-0.110	0.0	0.0	0.0
4296	63.494	63.444	-0.110	0.0	0.0	0.0
4320	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.1	0.0
120	65.400	65.001	-0.110	0.0	0.1	0.0
144	65.400	65.001	-0.110	0.0	0.1	0.0
168	65.400	65.001	-0.110	0.0	0.1	0.0
192	65.400	65.001	-0.110	0.0	0.1	0.0
216	65.400	65.001	-0.110	0.0	0.1	0.0
240	65.401	65.001	-0.109	0.0	0.1	0.0
264	65.401	65.001	-0.109	0.0	0.1	0.0
288	65.401	65.001	-0.109	0.0	0.1	0.0
312	65.401	65.001	-0.109	0.0	0.1	0.0
336	65.401	65.001	-0.109	0.0	0.1	0.0
360	65.401	65.001	-0.109	0.0	0.1	0.0
384	65.401	65.001	-0.109	0.0	0.1	0.0
408	65.401	65.001	-0.109	0.0	0.1	0.0
432	65.401	65.001	-0.109	0.0	0.1	0.0
456	65.401	65.001	-0.109	0.0	0.1	0.0
480	65.401	65.001	-0.109	0.0	0.1	0.0
504	65.401	65.001	-0.109	0.0	0.1	0.0
528	65.401	65.001	-0.109	0.0	0.1	0.0
552	65.401	65.001	-0.109	0.0	0.1	0.0
576	65.401	65.001	-0.109	0.0	0.1	0.0
600	65.401	65.001	-0.109	0.0	0.1	0.0
624	65.401	65.001	-0.109	0.0	0.1	0.0
648	65.401	65.001	-0.109	0.0	0.2	0.0
672	65.401	65.002	-0.109	0.0	0.2	0.0
696	65.401	65.002	-0.109	0.0	0.2	0.0
720	65.401	65.002	-0.109	0.0	0.2	0.1
744	65.401	65.002	-0.109	0.0	0.2	0.1
768	65.402	65.002	-0.108	0.0	0.2	0.1
792	65.402	65.002	-0.108	0.0	0.3	0.1
816	65.402	65.002	-0.108	0.0	0.3	0.1
840	65.402	65.003	-0.108	0.0	0.3	0.1
864	65.402	65.003	-0.108	0.0	0.3	0.1
888	65.402	65.003	-0.108	0.0	0.4	0.1
912	65.402	65.003	-0.108	0.0	0.4	0.1
936	65.402	65.003	-0.108	0.0	0.4	0.1
960	65.402	65.003	-0.108	0.0	0.4	0.1
984	65.403	65.004	-0.107	0.0	0.4	0.1
1008	65.403	65.004	-0.107	0.0	0.4	0.1
1032	65.403	65.004	-0.107	0.0	0.5	0.1
1056	65.403	65.004	-0.107	0.0	0.5	0.1
1080	65.403	65.004	-0.107	0.0	0.5	0.1
1104	65.403	65.004	-0.107	0.0	0.5	0.1
1128	65.403	65.004	-0.107	0.0	0.5	0.1
1152	65.403	65.004	-0.107	0.0	0.5	0.1
1176	65.403	65.004	-0.107	0.0	0.4	0.1
1200	65.403	65.004	-0.107	0.0	0.4	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.402	65.003	-0.108	0.0	0.4	0.1
1248	65.402	65.003	-0.108	0.0	0.4	0.1
1272	65.402	65.003	-0.108	0.0	0.4	0.1
1296	65.402	65.003	-0.108	0.0	0.4	0.1
1320	65.402	65.003	-0.108	0.0	0.3	0.1
1344	65.402	65.003	-0.108	0.0	0.3	0.1
1368	65.402	65.002	-0.108	0.0	0.3	0.1
1392	65.402	65.002	-0.108	0.0	0.3	0.1
1416	65.402	65.002	-0.108	0.0	0.2	0.1
1440	65.401	65.002	-0.109	0.0	0.2	0.1
1464	65.401	65.002	-0.109	0.0	0.2	0.1
1488	65.401	65.002	-0.109	0.0	0.2	0.0
1512	65.401	65.002	-0.109	0.0	0.2	0.0
1536	65.401	65.001	-0.109	0.0	0.2	0.0
1560	65.401	65.001	-0.109	0.0	0.1	0.0
1584	65.401	65.001	-0.109	0.0	0.1	0.0
1608	65.401	65.001	-0.109	0.0	0.1	0.0
1632	65.401	65.001	-0.109	0.0	0.1	0.0
1656	65.401	65.001	-0.109	0.0	0.1	0.0
1680	65.401	65.001	-0.109	0.0	0.1	0.0
1704	65.401	65.001	-0.109	0.0	0.1	0.0
1728	65.401	65.001	-0.109	0.0	0.1	0.0
1752	65.401	65.001	-0.109	0.0	0.1	0.0
1776	65.401	65.001	-0.109	0.0	0.1	0.0
1800	65.401	65.001	-0.109	0.0	0.1	0.0
1824	65.401	65.001	-0.109	0.0	0.1	0.0
1848	65.401	65.001	-0.109	0.0	0.1	0.0
1872	65.401	65.001	-0.109	0.0	0.1	0.0
1896	65.401	65.001	-0.109	0.0	0.1	0.0
1920	65.401	65.001	-0.109	0.0	0.1	0.0
1944	65.400	65.001	-0.110	0.0	0.1	0.0
1968	65.400	65.001	-0.110	0.0	0.1	0.0
1992	65.400	65.001	-0.110	0.0	0.1	0.0
2016	65.400	65.001	-0.110	0.0	0.1	0.0
2040	65.400	65.001	-0.110	0.0	0.1	0.0
2064	65.400	65.001	-0.110	0.0	0.1	0.0
2088	65.400	65.000	-0.110	0.0	0.1	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.0	0.0
3072	65.400	65.000	-0.110	0.0	0.0	0.0
3096	65.400	65.000	-0.110	0.0	0.0	0.0
3120	65.400	65.000	-0.110	0.0	0.0	0.0
3144	65.400	65.000	-0.110	0.0	0.0	0.0
3168	65.400	65.000	-0.110	0.0	0.0	0.0
3192	65.400	65.000	-0.110	0.0	0.0	0.0
3216	65.400	65.000	-0.110	0.0	0.0	0.0
3240	65.400	65.000	-0.110	0.0	0.0	0.0
3264	65.400	65.000	-0.110	0.0	0.0	0.0
3288	65.400	65.000	-0.110	0.0	0.0	0.0
3312	65.400	65.000	-0.110	0.0	0.0	0.0
3336	65.400	65.000	-0.110	0.0	0.0	0.0
3360	65.400	65.000	-0.110	0.0	0.0	0.0
3384	65.400	65.000	-0.110	0.0	0.0	0.0
3408	65.400	65.000	-0.110	0.0	0.0	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.0	0.0
3480	65.400	65.000	-0.110	0.0	0.0	0.0
3504	65.400	65.000	-0.110	0.0	0.0	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.446	-0.110	0.0	0.1	0.0
72	65.000	63.447	-0.110	0.0	0.1	0.0
96	65.000	63.448	-0.110	0.0	0.1	0.0
120	65.001	63.449	-0.109	0.0	0.1	0.0
144	65.001	63.449	-0.109	0.0	0.1	0.0
168	65.001	63.449	-0.109	0.0	0.2	0.0
192	65.001	63.450	-0.109	0.0	0.2	0.0
216	65.001	63.450	-0.109	0.0	0.2	0.0
240	65.001	63.450	-0.109	0.0	0.2	0.0
264	65.001	63.450	-0.109	0.0	0.2	0.0
288	65.001	63.450	-0.109	0.0	0.2	0.0
312	65.001	63.450	-0.109	0.0	0.2	0.0
336	65.001	63.450	-0.109	0.0	0.2	0.0
360	65.001	63.450	-0.109	0.0	0.2	0.0
384	65.001	63.450	-0.109	0.0	0.2	0.0
408	65.001	63.450	-0.109	0.0	0.2	0.0
432	65.001	63.450	-0.109	0.0	0.2	0.0
456	65.001	63.451	-0.109	0.0	0.2	0.0
480	65.001	63.451	-0.109	0.0	0.2	0.0
504	65.001	63.451	-0.109	0.0	0.2	0.0
528	65.001	63.452	-0.109	0.0	0.2	0.1
552	65.001	63.452	-0.109	0.0	0.2	0.1
576	65.001	63.453	-0.109	0.0	0.3	0.1
600	65.001	63.454	-0.109	0.0	0.3	0.1
624	65.001	63.455	-0.109	0.0	0.3	0.1
648	65.001	63.455	-0.109	0.0	0.3	0.1
672	65.002	63.456	-0.108	0.0	0.4	0.1
696	65.002	63.456	-0.108	0.0	0.4	0.1
720	65.002	63.456	-0.108	0.0	0.4	0.1
744	65.002	63.457	-0.108	0.0	0.5	0.1
768	65.002	63.457	-0.108	0.0	0.5	0.1
792	65.002	63.458	-0.108	0.0	0.5	0.1
816	65.002	63.458	-0.108	0.0	0.6	0.1
840	65.003	63.458	-0.107	0.0	0.6	0.1
864	65.003	63.459	-0.107	0.0	0.7	0.2
888	65.003	63.459	-0.107	0.0	0.7	0.2
912	65.003	63.460	-0.107	0.0	0.7	0.2
936	65.003	63.460	-0.107	0.0	0.8	0.2
960	65.003	63.461	-0.107	0.0	0.8	0.2
984	65.004	63.461	-0.106	0.0	0.8	0.2
1008	65.004	63.461	-0.106	0.0	0.9	0.2
1032	65.004	63.462	-0.106	0.0	0.9	0.2
1056	65.004	63.468	-0.106	0.0	0.9	0.2
1080	65.004	63.480	-0.106	0.0	0.9	0.2
1104	65.004	63.496	-0.106	0.0	0.9	0.2
1128	65.004	63.511	-0.106	0.0	0.9	0.2
1152	65.004	63.525	-0.106	0.0	0.9	0.2
1176	65.004	63.539	-0.106	0.0	0.9	0.2
1200	65.004	63.552	-0.106	0.0	0.8	0.2

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.003	63.565	-0.107	0.0	0.8	0.2
1248	65.003	63.577	-0.107	0.0	0.8	0.2
1272	65.003	63.588	-0.107	0.0	0.7	0.2
1296	65.003	63.599	-0.107	0.0	0.7	0.2
1320	65.003	63.608	-0.107	0.0	0.7	0.2
1344	65.003	63.617	-0.107	0.0	0.6	0.1
1368	65.002	63.625	-0.108	0.0	0.6	0.1
1392	65.002	63.632	-0.108	0.0	0.5	0.1
1416	65.002	63.638	-0.108	0.0	0.5	0.1
1440	65.002	63.643	-0.108	0.0	0.5	0.1
1464	65.002	63.648	-0.108	0.0	0.4	0.1
1488	65.002	63.652	-0.108	0.0	0.4	0.1
1512	65.002	63.655	-0.108	0.0	0.4	0.1
1536	65.001	63.658	-0.109	0.0	0.3	0.1
1560	65.001	63.661	-0.109	0.0	0.3	0.1
1584	65.001	63.663	-0.109	0.0	0.3	0.1
1608	65.001	63.664	-0.109	0.0	0.3	0.1
1632	65.001	63.665	-0.109	0.0	0.2	0.1
1656	65.001	63.666	-0.109	0.0	0.2	0.1
1680	65.001	63.667	-0.109	0.0	0.2	0.0
1704	65.001	63.667	-0.109	0.0	0.2	0.0
1728	65.001	63.667	-0.109	0.0	0.2	0.0
1752	65.001	63.667	-0.109	0.0	0.2	0.0
1776	65.001	63.666	-0.109	0.0	0.2	0.0
1800	65.001	63.666	-0.109	0.0	0.2	0.0
1824	65.001	63.665	-0.109	0.0	0.2	0.0
1848	65.001	63.665	-0.109	0.0	0.2	0.0
1872	65.001	63.664	-0.109	0.0	0.2	0.0
1896	65.001	63.664	-0.109	0.0	0.2	0.0
1920	65.001	63.663	-0.109	0.0	0.2	0.0
1944	65.001	63.663	-0.109	0.0	0.2	0.0
1968	65.001	63.662	-0.109	0.0	0.2	0.0
1992	65.001	63.662	-0.109	0.0	0.2	0.0
2016	65.001	63.661	-0.109	0.0	0.2	0.0
2040	65.001	63.660	-0.109	0.0	0.1	0.0
2064	65.001	63.659	-0.109	0.0	0.1	0.0
2088	65.000	63.657	-0.110	0.0	0.1	0.0
2112	65.000	63.656	-0.110	0.0	0.1	0.0
2136	65.000	63.653	-0.110	0.0	0.1	0.0
2160	65.000	63.651	-0.110	0.0	0.0	0.0
2184	65.000	63.646	-0.110	0.0	0.0	0.0
2208	65.000	63.642	-0.110	0.0	0.0	0.0
2232	65.000	63.638	-0.110	0.0	0.0	0.0
2256	65.000	63.635	-0.110	0.0	0.0	0.0
2280	65.000	63.631	-0.110	0.0	0.0	0.0
2304	65.000	63.627	-0.110	0.0	0.0	0.0
2328	65.000	63.623	-0.110	0.0	0.0	0.0
2352	65.000	63.620	-0.110	0.0	0.0	0.0
2376	65.000	63.616	-0.110	0.0	0.0	0.0
2400	65.000	63.613	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.609	-0.110	0.0	0.0	0.0
2448	65.000	63.605	-0.110	0.0	0.0	0.0
2472	65.000	63.602	-0.110	0.0	0.0	0.0
2496	65.000	63.598	-0.110	0.0	0.0	0.0
2520	65.000	63.595	-0.110	0.0	0.0	0.0
2544	65.000	63.591	-0.110	0.0	0.0	0.0
2568	65.000	63.587	-0.110	0.0	0.0	0.0
2592	65.000	63.584	-0.110	0.0	0.0	0.0
2616	65.000	63.580	-0.110	0.0	0.0	0.0
2640	65.000	63.577	-0.110	0.0	0.0	0.0
2664	65.000	63.573	-0.110	0.0	0.0	0.0
2688	65.000	63.570	-0.110	0.0	0.0	0.0
2712	65.000	63.566	-0.110	0.0	0.0	0.0
2736	65.000	63.563	-0.110	0.0	0.0	0.0
2760	65.000	63.559	-0.110	0.0	0.0	0.0
2784	65.000	63.556	-0.110	0.0	0.0	0.0
2808	65.000	63.552	-0.110	0.0	0.0	0.0
2832	65.000	63.549	-0.110	0.0	0.0	0.0
2856	65.000	63.545	-0.110	0.0	0.0	0.0
2880	65.000	63.542	-0.110	0.0	0.0	0.0
2904	65.000	63.538	-0.110	0.0	0.0	0.0
2928	65.000	63.535	-0.110	0.0	0.0	0.0
2952	65.000	63.531	-0.110	0.0	0.0	0.0
2976	65.000	63.528	-0.110	0.0	0.0	0.0
3000	65.000	63.525	-0.110	0.0	0.0	0.0
3024	65.000	63.521	-0.110	0.0	0.0	0.0
3048	65.000	63.518	-0.110	0.0	0.0	0.0
3072	65.000	63.514	-0.110	0.0	0.0	0.0
3096	65.000	63.511	-0.110	0.0	0.0	0.0
3120	65.000	63.508	-0.110	0.0	0.0	0.0
3144	65.000	63.504	-0.110	0.0	0.0	0.0
3168	65.000	63.501	-0.110	0.0	0.0	0.0
3192	65.000	63.498	-0.110	0.0	0.0	0.0
3216	65.000	63.494	-0.110	0.0	0.0	0.0
3240	65.000	63.491	-0.110	0.0	0.0	0.0
3264	65.000	63.488	-0.110	0.0	0.0	0.0
3288	65.000	63.484	-0.110	0.0	0.0	0.0
3312	65.000	63.481	-0.110	0.0	0.0	0.0
3336	65.000	63.477	-0.110	0.0	0.0	0.0
3360	65.000	63.474	-0.110	0.0	0.0	0.0
3384	65.000	63.471	-0.110	0.0	0.0	0.0
3408	65.000	63.468	-0.110	0.0	0.0	0.0
3432	65.000	63.464	-0.110	0.0	0.0	0.0
3456	65.000	63.461	-0.110	0.0	0.0	0.0
3480	65.000	63.458	-0.110	0.0	0.0	0.0
3504	65.000	63.455	-0.110	0.0	0.0	0.0
3528	65.000	63.451	-0.110	0.0	0.0	0.0
3552	65.000	63.448	-0.110	0.0	0.0	0.0
3576	65.000	63.444	-0.110	0.0	0.0	0.0
3600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.444	-0.110	0.0	0.0	0.0
3648	65.000	63.444	-0.110	0.0	0.0	0.0
3672	65.000	63.444	-0.110	0.0	0.0	0.0
3696	65.000	63.444	-0.110	0.0	0.0	0.0
3720	65.000	63.444	-0.110	0.0	0.0	0.0
3744	65.000	63.444	-0.110	0.0	0.0	0.0
3768	65.000	63.444	-0.110	0.0	0.0	0.0
3792	65.000	63.444	-0.110	0.0	0.0	0.0
3816	65.000	63.444	-0.110	0.0	0.0	0.0
3840	65.000	63.444	-0.110	0.0	0.0	0.0
3864	65.000	63.444	-0.110	0.0	0.0	0.0
3888	65.000	63.444	-0.110	0.0	0.0	0.0
3912	65.000	63.444	-0.110	0.0	0.0	0.0
3936	65.000	63.444	-0.110	0.0	0.0	0.0
3960	65.000	63.444	-0.110	0.0	0.0	0.0
3984	65.000	63.444	-0.110	0.0	0.0	0.0
4008	65.000	63.444	-0.110	0.0	0.0	0.0
4032	65.000	63.444	-0.110	0.0	0.0	0.0
4056	65.000	63.444	-0.110	0.0	0.0	0.0
4080	65.000	63.444	-0.110	0.0	0.0	0.0
4104	65.000	63.444	-0.110	0.0	0.0	0.0
4128	65.000	63.444	-0.110	0.0	0.0	0.0
4152	65.000	63.444	-0.110	0.0	0.0	0.0
4176	65.000	63.444	-0.110	0.0	0.0	0.0
4200	65.000	63.444	-0.110	0.0	0.0	0.0
4224	65.000	63.444	-0.110	0.0	0.0	0.0
4248	65.000	63.444	-0.110	0.0	0.0	0.0
4272	65.000	63.444	-0.110	0.0	0.0	0.0
4296	65.000	63.444	-0.110	0.0	0.0	0.0
4320	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.446	63.251	-0.108	0.0	0.1	0.0
72	63.447	63.253	-0.107	0.0	0.2	0.0
96	63.448	63.254	-0.106	0.0	0.2	0.0
120	63.449	63.257	-0.106	0.0	0.2	0.1
144	63.449	63.259	-0.105	0.0	0.3	0.1
168	63.449	63.262	-0.105	0.0	0.3	0.1
192	63.450	63.264	-0.104	0.0	0.3	0.1
216	63.450	63.266	-0.104	0.0	0.3	0.1
240	63.450	63.267	-0.104	0.0	0.3	0.1
264	63.450	63.269	-0.104	0.0	0.3	0.1
288	63.450	63.270	-0.104	0.0	0.3	0.1
312	63.450	63.271	-0.104	0.0	0.3	0.1
336	63.450	63.272	-0.104	0.0	0.3	0.1
360	63.450	63.272	-0.104	0.0	0.3	0.1
384	63.450	63.273	-0.104	0.0	0.3	0.1
408	63.450	63.273	-0.104	0.0	0.3	0.1
432	63.450	63.274	-0.104	0.0	0.3	0.1
456	63.451	63.274	-0.104	0.0	0.4	0.1
480	63.451	63.275	-0.103	0.0	0.4	0.1
504	63.451	63.276	-0.103	0.0	0.4	0.1
528	63.452	63.277	-0.102	0.0	0.4	0.1
552	63.452	63.278	-0.102	0.0	0.4	0.1
576	63.453	63.279	-0.101	0.0	0.4	0.1
600	63.454	63.282	-0.100	0.0	0.3	0.1
624	63.455	63.284	-0.100	0.0	0.3	0.1
648	63.455	63.286	-0.099	0.0	0.3	0.2
672	63.456	63.290	-0.099	0.0	0.3	0.2
696	63.456	63.295	-0.098	0.0	0.3	0.2
720	63.456	63.302	-0.098	0.0	0.4	0.2
744	63.457	63.309	-0.097	0.0	0.4	0.2
768	63.457	63.316	-0.097	0.0	0.4	0.2
792	63.458	63.324	-0.097	0.0	0.4	0.3
816	63.458	63.334	-0.096	0.0	0.4	0.3
840	63.458	63.343	-0.096	0.0	0.4	0.3
864	63.459	63.354	-0.095	0.0	0.4	0.3
888	63.459	63.366	-0.095	0.0	0.4	0.3
912	63.460	63.382	-0.094	0.0	0.4	0.4
936	63.460	63.396	-0.094	0.0	0.4	0.4
960	63.461	63.410	-0.093	0.0	0.4	0.4
984	63.461	63.423	-0.093	0.0	0.4	0.4
1008	63.461	63.437	-0.093	0.0	0.4	0.4
1032	63.462	63.450	-0.092	0.0	0.4	0.4
1056	63.468	63.464	-0.086	0.0	0.4	0.4
1080	63.480	63.479	-0.074	0.0	0.2	0.4
1104	63.496	63.494	-0.059	0.0	0.1	0.4
1128	63.511	63.509	-0.044	0.0	0.1	0.4
1152	63.525	63.524	-0.029	0.0	0.1	0.4
1176	63.539	63.538	-0.015	0.0	0.1	0.4
1200	63.552	63.551	-0.002	0.0	0.0	0.4

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.565	63.564	0.011	0.0	0.0	0.4
1248	63.577	63.576	0.023	0.0	0.0	0.4
1272	63.588	63.587	0.034	0.0	0.0	0.4
1296	63.599	63.598	0.045	0.0	0.0	0.3
1320	63.608	63.607	0.054	0.0	0.0	0.3
1344	63.617	63.616	0.063	0.0	0.0	0.3
1368	63.625	63.624	0.071	0.0	0.0	0.3
1392	63.632	63.631	0.078	0.0	0.0	0.3
1416	63.638	63.637	0.084	0.0	0.0	0.2
1440	63.643	63.643	0.089	0.0	0.0	0.2
1464	63.648	63.647	0.094	0.0	0.0	0.2
1488	63.652	63.652	0.098	0.0	0.0	0.2
1512	63.655	63.655	0.101	0.0	0.0	0.2
1536	63.658	63.658	0.104	0.0	0.0	0.2
1560	63.661	63.660	0.107	0.0	0.0	0.1
1584	63.663	63.662	0.109	0.0	0.0	0.1
1608	63.664	63.664	0.110	0.0	0.0	0.1
1632	63.665	63.665	0.111	0.0	0.0	0.1
1656	63.666	63.666	0.112	0.0	0.0	0.1
1680	63.667	63.666	0.113	0.0	0.0	0.1
1704	63.667	63.667	0.113	0.0	0.0	0.1
1728	63.667	63.667	0.113	0.0	0.0	0.1
1752	63.667	63.666	0.112	0.0	0.0	0.1
1776	63.666	63.666	0.112	0.0	0.0	0.1
1800	63.666	63.666	0.112	0.0	0.0	0.1
1824	63.665	63.665	0.111	0.0	0.0	0.1
1848	63.665	63.665	0.111	0.0	0.0	0.1
1872	63.664	63.664	0.110	0.0	0.0	0.1
1896	63.664	63.664	0.110	0.0	0.0	0.1
1920	63.663	63.663	0.109	0.0	0.0	0.1
1944	63.663	63.663	0.109	0.0	0.0	0.1
1968	63.662	63.662	0.108	0.0	0.0	0.1
1992	63.662	63.662	0.108	0.0	0.0	0.1
2016	63.661	63.661	0.107	0.0	0.0	0.1
2040	63.660	63.660	0.106	0.0	0.0	0.1
2064	63.659	63.659	0.105	0.0	0.0	0.1
2088	63.657	63.657	0.103	0.0	0.0	0.1
2112	63.656	63.655	0.101	0.0	0.0	0.0
2136	63.653	63.653	0.099	0.0	0.0	0.0
2160	63.651	63.650	0.096	0.0	0.0	0.0
2184	63.646	63.646	0.092	0.0	0.0	0.0
2208	63.642	63.642	0.088	0.0	0.0	0.0
2232	63.638	63.638	0.084	0.0	0.0	0.0
2256	63.635	63.634	0.080	0.0	0.0	0.0
2280	63.631	63.631	0.077	0.0	0.0	0.0
2304	63.627	63.627	0.073	0.0	0.0	0.0
2328	63.623	63.624	0.069	0.0	0.0	0.0
2352	63.620	63.620	0.066	0.0	0.0	0.0
2376	63.616	63.616	0.062	0.0	0.0	0.0
2400	63.613	63.613	0.058	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.609	63.609	0.055	0.0	0.0	0.0
2448	63.605	63.605	0.051	0.0	0.0	0.0
2472	63.602	63.602	0.048	0.0	0.0	0.0
2496	63.598	63.598	0.044	0.0	0.0	0.0
2520	63.595	63.595	0.041	0.0	0.0	0.0
2544	63.591	63.591	0.037	0.0	0.0	0.0
2568	63.587	63.587	0.033	0.0	0.0	0.0
2592	63.584	63.584	0.030	0.0	0.0	0.0
2616	63.580	63.580	0.026	0.0	0.0	0.0
2640	63.577	63.577	0.023	0.0	0.0	0.0
2664	63.573	63.573	0.019	0.0	0.0	0.0
2688	63.570	63.570	0.016	0.0	0.0	0.0
2712	63.566	63.566	0.012	0.0	0.0	0.0
2736	63.563	63.563	0.008	0.0	0.0	0.0
2760	63.559	63.559	0.005	0.0	0.0	0.0
2784	63.556	63.556	0.001	0.0	0.0	0.0
2808	63.552	63.552	-0.002	0.0	0.0	0.0
2832	63.549	63.549	-0.005	0.0	0.0	0.0
2856	63.545	63.545	-0.009	0.0	0.0	0.0
2880	63.542	63.542	-0.012	0.0	0.0	0.0
2904	63.538	63.538	-0.016	0.0	0.0	0.0
2928	63.535	63.535	-0.019	0.0	0.0	0.0
2952	63.531	63.532	-0.023	0.0	0.0	0.0
2976	63.528	63.528	-0.026	0.0	0.0	0.0
3000	63.525	63.525	-0.029	0.0	0.0	0.0
3024	63.521	63.521	-0.033	0.0	0.0	0.0
3048	63.518	63.518	-0.036	0.0	0.0	0.0
3072	63.514	63.515	-0.040	0.0	0.0	0.0
3096	63.511	63.511	-0.043	0.0	0.0	0.0
3120	63.508	63.508	-0.046	0.0	0.0	0.0
3144	63.504	63.504	-0.050	0.0	0.0	0.0
3168	63.501	63.501	-0.053	0.0	0.0	0.0
3192	63.498	63.498	-0.056	0.0	0.0	0.0
3216	63.494	63.494	-0.060	0.0	0.0	0.0
3240	63.491	63.491	-0.063	0.0	0.0	0.0
3264	63.488	63.488	-0.067	0.0	0.0	0.0
3288	63.484	63.484	-0.070	0.0	0.0	0.0
3312	63.481	63.481	-0.074	0.0	0.0	0.0
3336	63.477	63.478	-0.077	0.0	0.0	0.0
3360	63.474	63.474	-0.080	0.0	0.0	0.0
3384	63.471	63.471	-0.083	0.0	0.0	0.0
3408	63.468	63.468	-0.087	0.0	0.0	0.0
3432	63.464	63.464	-0.090	0.0	0.0	0.0
3456	63.461	63.461	-0.093	0.0	0.0	0.0
3480	63.458	63.458	-0.097	0.0	0.0	0.0
3504	63.455	63.454	-0.099	0.0	0.0	0.0
3528	63.451	63.451	-0.103	0.0	0.0	0.0
3552	63.448	63.448	-0.106	0.0	0.0	0.0
3576	63.444	63.444	-0.110	0.0	0.0	0.0
3600	63.444	63.441	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.444	63.438	-0.110	0.0	0.0	0.0
3648	63.444	63.435	-0.110	0.0	0.0	0.0
3672	63.444	63.432	-0.110	0.0	0.0	0.0
3696	63.444	63.428	-0.110	0.0	0.0	0.0
3720	63.444	63.425	-0.110	0.0	0.0	0.0
3744	63.444	63.422	-0.110	0.0	0.0	0.0
3768	63.444	63.418	-0.110	0.0	0.0	0.0
3792	63.444	63.415	-0.110	0.0	0.0	0.0
3816	63.444	63.412	-0.110	0.0	0.0	0.0
3840	63.444	63.408	-0.110	0.0	0.0	0.0
3864	63.444	63.405	-0.110	0.0	0.0	0.0
3888	63.444	63.402	-0.110	0.0	0.0	0.0
3912	63.444	63.399	-0.110	0.0	0.0	0.0
3936	63.444	63.395	-0.110	0.0	0.0	0.0
3960	63.444	63.392	-0.110	0.0	0.0	0.0
3984	63.444	63.389	-0.110	0.0	0.0	0.0
4008	63.444	63.386	-0.110	0.0	0.0	0.0
4032	63.444	63.383	-0.110	0.0	0.0	0.0
4056	63.444	63.380	-0.110	0.0	0.0	0.0
4080	63.444	63.377	-0.110	0.0	0.0	0.0
4104	63.444	63.375	-0.110	0.0	0.0	0.0
4128	63.444	63.372	-0.110	0.0	0.0	0.0
4152	63.444	63.370	-0.110	0.0	0.0	0.0
4176	63.444	63.368	-0.110	0.0	0.0	0.0
4200	63.444	63.366	-0.110	0.0	0.0	0.0
4224	63.444	63.364	-0.110	0.0	0.0	0.0
4248	63.444	63.361	-0.110	0.0	0.0	0.0
4272	63.444	63.356	-0.110	0.0	0.0	0.0
4296	63.444	63.351	-0.110	0.0	0.0	0.0
4320	63.444	63.348	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.251	63.100	-0.109	0.0	0.0	0.0
72	63.253	63.100	-0.107	0.0	0.0	0.0
96	63.254	63.101	-0.106	0.0	0.0	0.0
120	63.257	63.102	-0.103	0.0	0.0	0.0
144	63.259	63.105	-0.101	0.0	0.1	0.0
168	63.262	63.110	-0.098	0.0	0.1	0.0
192	63.264	63.115	-0.096	0.0	0.1	0.0
216	63.266	63.120	-0.094	0.0	0.2	0.0
240	63.267	63.126	-0.093	0.0	0.2	0.0
264	63.269	63.131	-0.091	0.0	0.2	0.1
288	63.270	63.136	-0.090	0.0	0.2	0.1
312	63.271	63.140	-0.089	0.0	0.2	0.1
336	63.272	63.144	-0.088	0.0	0.2	0.1
360	63.272	63.147	-0.088	0.0	0.2	0.1
384	63.273	63.150	-0.087	0.0	0.2	0.1
408	63.273	63.153	-0.087	0.0	0.2	0.1
432	63.274	63.157	-0.086	0.0	0.2	0.1
456	63.274	63.162	-0.086	0.0	0.3	0.1
480	63.275	63.167	-0.085	0.0	0.3	0.1
504	63.276	63.173	-0.084	0.0	0.3	0.1
528	63.277	63.180	-0.083	0.0	0.3	0.1
552	63.278	63.188	-0.082	0.0	0.3	0.1
576	63.279	63.197	-0.081	0.0	0.3	0.1
600	63.282	63.209	-0.078	0.0	0.3	0.1
624	63.284	63.220	-0.076	0.0	0.3	0.1
648	63.286	63.234	-0.074	0.0	0.3	0.1
672	63.290	63.248	-0.070	0.0	0.3	0.1
696	63.295	63.251	-0.065	0.0	0.2	0.1
720	63.302	63.250	-0.058	0.0	0.2	0.1
744	63.309	63.250	-0.051	0.0	0.2	0.1
768	63.316	63.251	-0.044	0.0	0.2	0.1
792	63.324	63.252	-0.036	0.0	0.2	0.1
816	63.334	63.256	-0.026	0.0	0.3	0.1
840	63.343	63.262	-0.017	0.0	0.3	0.1
864	63.354	63.269	-0.006	0.0	0.3	0.1
888	63.366	63.268	0.006	0.0	0.2	0.1
912	63.382	63.259	0.022	0.0	0.2	0.1
936	63.396	63.261	0.036	0.0	0.3	0.1
960	63.410	63.271	0.050	0.0	0.3	0.1
984	63.423	63.290	0.063	0.0	0.3	0.1
1008	63.437	63.317	0.077	0.0	0.3	0.1
1032	63.450	63.349	0.090	0.0	0.3	0.2
1056	63.464	63.377	0.104	0.0	0.3	0.1
1080	63.479	63.397	0.119	0.0	0.3	0.1
1104	63.494	63.415	0.134	0.0	0.2	0.1
1128	63.509	63.431	0.149	0.0	0.0	0.1
1152	63.524	63.447	0.164	0.0	0.0	0.1
1176	63.538	63.461	0.178	0.0	0.0	0.1
1200	63.551	63.475	0.191	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.564	63.488	0.204	0.0	0.0	0.1
1248	63.576	63.501	0.216	0.0	0.0	0.1
1272	63.587	63.513	0.227	0.0	0.0	0.1
1296	63.598	63.524	0.238	0.0	0.0	0.1
1320	63.607	63.534	0.247	0.0	0.0	0.1
1344	63.616	63.544	0.256	0.0	0.0	0.1
1368	63.624	63.553	0.264	0.0	0.0	0.1
1392	63.631	63.561	0.271	0.0	0.0	0.1
1416	63.637	63.568	0.277	0.0	0.0	0.1
1440	63.643	63.575	0.283	0.0	0.0	0.1
1464	63.647	63.580	0.287	0.0	0.0	0.1
1488	63.652	63.585	0.292	0.0	0.0	0.1
1512	63.655	63.589	0.295	0.0	0.0	0.1
1536	63.658	63.593	0.298	0.0	0.0	0.1
1560	63.660	63.597	0.300	0.0	0.0	0.1
1584	63.662	63.599	0.302	0.0	0.0	0.1
1608	63.664	63.601	0.304	0.0	0.0	0.1
1632	63.665	63.603	0.305	0.0	0.0	0.1
1656	63.666	63.604	0.306	0.0	0.0	0.1
1680	63.666	63.605	0.306	0.0	0.0	0.1
1704	63.667	63.606	0.307	0.0	0.0	0.1
1728	63.667	63.606	0.307	0.0	0.0	0.1
1752	63.666	63.607	0.306	0.0	0.0	0.1
1776	63.666	63.606	0.306	0.0	0.0	0.1
1800	63.666	63.606	0.306	0.0	0.0	0.1
1824	63.665	63.606	0.305	0.0	0.0	0.1
1848	63.665	63.605	0.305	0.0	0.0	0.1
1872	63.664	63.605	0.304	0.0	0.0	0.1
1896	63.664	63.605	0.304	0.0	0.0	0.1
1920	63.663	63.604	0.303	0.0	0.0	0.1
1944	63.663	63.604	0.303	0.0	0.0	0.1
1968	63.662	63.603	0.302	0.0	0.0	0.1
1992	63.662	63.603	0.302	0.0	0.0	0.1
2016	63.661	63.602	0.301	0.0	0.0	0.1
2040	63.660	63.602	0.300	0.0	0.0	0.1
2064	63.659	63.601	0.299	0.0	0.0	0.1
2088	63.657	63.600	0.297	0.0	0.0	0.1
2112	63.655	63.598	0.295	0.0	0.0	0.1
2136	63.653	63.597	0.293	0.0	0.0	0.1
2160	63.650	63.594	0.290	0.0	0.0	0.1
2184	63.646	63.592	0.286	0.0	0.0	0.1
2208	63.642	63.588	0.282	0.0	0.0	0.1
2232	63.638	63.585	0.278	0.0	0.0	0.1
2256	63.634	63.581	0.274	0.0	0.0	0.1
2280	63.631	63.578	0.271	0.0	0.0	0.1
2304	63.627	63.574	0.267	0.0	0.0	0.1
2328	63.624	63.570	0.264	0.0	0.0	0.1
2352	63.620	63.567	0.260	0.0	0.0	0.1
2376	63.616	63.563	0.256	0.0	0.0	0.1
2400	63.613	63.560	0.253	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.609	63.556	0.249	0.0	0.0	0.1
2448	63.605	63.553	0.245	0.0	0.0	0.1
2472	63.602	63.549	0.242	0.0	0.0	0.1
2496	63.598	63.546	0.238	0.0	0.0	0.1
2520	63.595	63.542	0.235	0.0	0.0	0.1
2544	63.591	63.539	0.231	0.0	0.0	0.1
2568	63.587	63.536	0.227	0.0	0.0	0.1
2592	63.584	63.532	0.224	0.0	0.0	0.1
2616	63.580	63.529	0.220	0.0	0.0	0.1
2640	63.577	63.525	0.217	0.0	0.0	0.1
2664	63.573	63.522	0.213	0.0	0.0	0.1
2688	63.570	63.518	0.210	0.0	0.0	0.1
2712	63.566	63.515	0.206	0.0	0.0	0.1
2736	63.563	63.512	0.203	0.0	0.0	0.1
2760	63.559	63.508	0.199	0.0	0.0	0.1
2784	63.556	63.505	0.196	0.0	0.0	0.1
2808	63.552	63.501	0.192	0.0	0.0	0.1
2832	63.549	63.498	0.189	0.0	0.0	0.1
2856	63.545	63.495	0.185	0.0	0.0	0.1
2880	63.542	63.491	0.182	0.0	0.0	0.1
2904	63.538	63.488	0.178	0.0	0.0	0.1
2928	63.535	63.485	0.175	0.0	0.0	0.1
2952	63.532	63.481	0.172	0.0	0.0	0.1
2976	63.528	63.478	0.168	0.0	0.0	0.1
3000	63.525	63.475	0.165	0.0	0.0	0.1
3024	63.521	63.471	0.161	0.0	0.0	0.1
3048	63.518	63.468	0.158	0.0	0.0	0.1
3072	63.515	63.465	0.155	0.0	0.0	0.1
3096	63.511	63.462	0.151	0.0	0.0	0.1
3120	63.508	63.458	0.148	0.0	0.0	0.1
3144	63.504	63.455	0.144	0.0	0.0	0.1
3168	63.501	63.452	0.141	0.0	0.0	0.1
3192	63.498	63.449	0.138	0.0	0.0	0.1
3216	63.494	63.445	0.134	0.0	0.0	0.1
3240	63.491	63.442	0.131	0.0	0.0	0.1
3264	63.488	63.439	0.128	0.0	0.0	0.1
3288	63.484	63.436	0.124	0.0	0.0	0.1
3312	63.481	63.432	0.121	0.0	0.0	0.1
3336	63.478	63.429	0.118	0.0	0.0	0.1
3360	63.474	63.426	0.114	0.0	0.0	0.1
3384	63.471	63.423	0.111	0.0	0.0	0.1
3408	63.468	63.419	0.108	0.0	0.0	0.1
3432	63.464	63.416	0.104	0.0	0.0	0.1
3456	63.461	63.413	0.101	0.0	0.0	0.1
3480	63.458	63.410	0.098	0.0	0.1	0.1
3504	63.454	63.407	0.094	0.0	0.1	0.1
3528	63.451	63.403	0.091	0.0	0.1	0.1
3552	63.448	63.400	0.088	0.0	0.1	0.1
3576	63.444	63.397	0.084	0.0	0.2	0.1
3600	63.441	63.394	0.081	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.438	63.391	0.078	0.0	0.2	0.1
3648	63.435	63.388	0.075	0.0	0.2	0.1
3672	63.432	63.385	0.072	0.0	0.2	0.1
3696	63.428	63.381	0.068	0.0	0.2	0.1
3720	63.425	63.378	0.065	0.0	0.2	0.1
3744	63.422	63.375	0.062	0.0	0.2	0.1
3768	63.418	63.372	0.058	0.0	0.2	0.1
3792	63.415	63.369	0.055	0.0	0.2	0.1
3816	63.412	63.365	0.052	0.0	0.2	0.1
3840	63.408	63.362	0.048	0.0	0.2	0.1
3864	63.405	63.359	0.045	0.0	0.2	0.1
3888	63.402	63.356	0.042	0.0	0.2	0.1
3912	63.399	63.353	0.039	0.0	0.2	0.1
3936	63.395	63.350	0.035	0.0	0.2	0.1
3960	63.392	63.346	0.032	0.0	0.2	0.1
3984	63.389	63.342	0.029	0.0	0.2	0.1
4008	63.386	63.337	0.026	0.0	0.2	0.1
4032	63.383	63.332	0.023	0.0	0.2	0.1
4056	63.380	63.327	0.020	0.0	0.2	0.1
4080	63.377	63.321	0.017	0.0	0.2	0.1
4104	63.375	63.313	0.015	0.0	0.2	0.1
4128	63.372	63.304	0.012	0.0	0.2	0.1
4152	63.370	63.291	0.010	0.0	0.2	0.0
4176	63.368	63.279	0.008	0.0	0.2	0.0
4200	63.366	63.267	0.006	0.0	0.2	0.0
4224	63.364	63.253	0.004	0.0	0.2	0.0
4248	63.361	63.250	0.001	0.0	0.2	0.1
4272	63.356	63.267	-0.004	0.0	0.3	0.1
4296	63.351	63.274	-0.009	0.0	0.3	0.1
4320	63.348	63.277	-0.012	0.0	0.3	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.101	63.096	-0.109	0.0	0.0	0.0
120	63.102	63.096	-0.108	0.0	0.0	0.0
144	63.105	63.096	-0.105	0.0	0.0	0.0
168	63.110	63.096	-0.100	0.0	0.0	0.0
192	63.115	63.096	-0.095	0.0	0.0	0.0
216	63.120	63.096	-0.090	0.0	0.0	0.0
240	63.126	63.096	-0.084	0.0	0.0	0.0
264	63.131	63.096	-0.079	0.0	0.0	0.0
288	63.136	63.096	-0.074	0.0	0.0	0.0
312	63.140	63.096	-0.070	0.0	0.0	0.0
336	63.144	63.096	-0.066	0.0	0.0	0.0
360	63.147	63.096	-0.063	0.0	0.0	0.0
384	63.150	63.096	-0.060	0.0	0.0	0.0
408	63.153	63.096	-0.057	0.0	0.0	0.0
432	63.157	63.096	-0.053	0.0	0.0	0.0
456	63.162	63.096	-0.048	0.0	0.0	0.0
480	63.167	63.096	-0.043	0.0	0.0	0.0
504	63.173	63.096	-0.037	0.0	0.0	0.0
528	63.180	63.096	-0.030	0.0	0.0	0.0
552	63.188	63.096	-0.022	0.0	0.0	0.0
576	63.197	63.096	-0.013	0.0	0.0	0.0
600	63.209	63.096	-0.001	0.0	0.0	0.0
624	63.220	63.096	0.010	0.0	0.0	0.0
648	63.234	63.096	0.024	0.0	0.0	0.0
672	63.248	63.096	0.038	0.0	0.0	0.0
696	63.251	63.096	0.041	0.0	0.0	0.0
720	63.250	63.096	0.040	0.0	0.0	0.0
744	63.250	63.096	0.040	0.0	0.0	0.0
768	63.251	63.096	0.041	0.0	0.0	0.0
792	63.252	63.096	0.042	0.0	0.0	0.0
816	63.256	63.096	0.046	0.0	0.0	0.0
840	63.262	63.096	0.052	0.0	0.0	0.0
864	63.269	63.096	0.059	0.0	0.0	0.0
888	63.268	63.096	0.058	0.0	0.0	0.0
912	63.259	63.096	0.049	0.0	0.0	0.0
936	63.261	63.096	0.051	0.0	0.0	0.0
960	63.271	63.096	0.061	0.0	0.0	0.0
984	63.290	63.096	0.080	0.0	0.0	0.0
1008	63.317	63.096	0.107	0.0	0.0	0.0
1032	63.349	63.096	0.139	0.0	0.1	0.0
1056	63.377	63.096	0.167	0.0	0.1	0.0
1080	63.397	63.096	0.187	0.0	0.1	0.0
1104	63.415	63.096	0.205	0.0	0.1	0.0
1128	63.431	63.096	0.221	0.0	0.1	0.0
1152	63.447	63.096	0.237	0.0	0.1	0.0
1176	63.461	63.096	0.251	0.0	0.1	0.0
1200	63.475	63.096	0.265	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.488	63.096	0.278	0.0	0.1	0.0
1248	63.501	63.096	0.291	0.0	0.1	0.0
1272	63.513	63.096	0.303	0.0	0.1	0.0
1296	63.524	63.096	0.314	0.0	0.1	0.0
1320	63.534	63.096	0.324	0.0	0.1	0.0
1344	63.544	63.096	0.334	0.0	0.1	0.0
1368	63.553	63.096	0.343	0.0	0.1	0.0
1392	63.561	63.096	0.351	0.0	0.1	0.0
1416	63.568	63.096	0.358	0.0	0.1	0.0
1440	63.575	63.096	0.365	0.0	0.1	0.0
1464	63.580	63.096	0.370	0.0	0.1	0.0
1488	63.585	63.096	0.375	0.0	0.1	0.0
1512	63.589	63.096	0.379	0.0	0.1	0.0
1536	63.593	63.096	0.383	0.0	0.1	0.0
1560	63.597	63.096	0.387	0.0	0.1	0.0
1584	63.599	63.096	0.389	0.0	0.1	0.0
1608	63.601	63.096	0.391	0.0	0.1	0.0
1632	63.603	63.096	0.393	0.0	0.1	0.0
1656	63.604	63.096	0.394	0.0	0.1	0.0
1680	63.605	63.096	0.395	0.0	0.1	0.0
1704	63.606	63.096	0.396	0.0	0.1	0.0
1728	63.606	63.096	0.396	0.0	0.1	0.0
1752	63.607	63.096	0.397	0.0	0.1	0.0
1776	63.606	63.096	0.396	0.0	0.1	0.0
1800	63.606	63.096	0.396	0.0	0.1	0.0
1824	63.606	63.096	0.396	0.0	0.1	0.0
1848	63.605	63.096	0.395	0.0	0.1	0.0
1872	63.605	63.096	0.395	0.0	0.1	0.0
1896	63.605	63.096	0.395	0.0	0.1	0.0
1920	63.604	63.096	0.394	0.0	0.1	0.0
1944	63.604	63.096	0.394	0.0	0.1	0.0
1968	63.603	63.096	0.393	0.0	0.1	0.0
1992	63.603	63.096	0.393	0.0	0.1	0.0
2016	63.602	63.096	0.392	0.0	0.1	0.0
2040	63.602	63.096	0.392	0.0	0.1	0.0
2064	63.601	63.096	0.391	0.0	0.1	0.0
2088	63.600	63.096	0.390	0.0	0.1	0.0
2112	63.598	63.096	0.388	0.0	0.1	0.0
2136	63.597	63.096	0.387	0.0	0.1	0.0
2160	63.594	63.096	0.384	0.0	0.1	0.0
2184	63.592	63.096	0.382	0.0	0.1	0.0
2208	63.588	63.096	0.378	0.0	0.1	0.0
2232	63.585	63.096	0.375	0.0	0.1	0.0
2256	63.581	63.096	0.371	0.0	0.1	0.0
2280	63.578	63.096	0.368	0.0	0.1	0.0
2304	63.574	63.096	0.364	0.0	0.1	0.0
2328	63.570	63.096	0.360	0.0	0.1	0.0
2352	63.567	63.096	0.357	0.0	0.1	0.0
2376	63.563	63.096	0.353	0.0	0.1	0.0
2400	63.560	63.096	0.350	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.556	63.096	0.346	0.0	0.1	0.0
2448	63.553	63.096	0.343	0.0	0.1	0.0
2472	63.549	63.096	0.339	0.0	0.1	0.0
2496	63.546	63.096	0.336	0.0	0.1	0.0
2520	63.542	63.096	0.332	0.0	0.1	0.0
2544	63.539	63.096	0.329	0.0	0.1	0.0
2568	63.536	63.096	0.326	0.0	0.1	0.0
2592	63.532	63.096	0.322	0.0	0.1	0.0
2616	63.529	63.096	0.319	0.0	0.1	0.0
2640	63.525	63.096	0.315	0.0	0.1	0.0
2664	63.522	63.096	0.312	0.0	0.1	0.0
2688	63.518	63.096	0.308	0.0	0.1	0.0
2712	63.515	63.096	0.305	0.0	0.1	0.0
2736	63.512	63.096	0.302	0.0	0.1	0.0
2760	63.508	63.096	0.298	0.0	0.1	0.0
2784	63.505	63.096	0.295	0.0	0.1	0.0
2808	63.501	63.096	0.291	0.0	0.1	0.0
2832	63.498	63.096	0.288	0.0	0.1	0.0
2856	63.495	63.096	0.285	0.0	0.1	0.0
2880	63.491	63.096	0.281	0.0	0.1	0.0
2904	63.488	63.096	0.278	0.0	0.1	0.0
2928	63.485	63.096	0.275	0.0	0.1	0.0
2952	63.481	63.096	0.271	0.0	0.1	0.0
2976	63.478	63.096	0.268	0.0	0.1	0.0
3000	63.475	63.096	0.265	0.0	0.1	0.0
3024	63.471	63.096	0.261	0.0	0.1	0.0
3048	63.468	63.096	0.258	0.0	0.1	0.0
3072	63.465	63.096	0.255	0.0	0.1	0.0
3096	63.462	63.096	0.252	0.0	0.1	0.0
3120	63.458	63.096	0.248	0.0	0.1	0.0
3144	63.455	63.096	0.245	0.0	0.1	0.0
3168	63.452	63.096	0.242	0.0	0.1	0.0
3192	63.449	63.096	0.239	0.0	0.1	0.0
3216	63.445	63.096	0.235	0.0	0.1	0.0
3240	63.442	63.096	0.232	0.0	0.1	0.0
3264	63.439	63.096	0.229	0.0	0.1	0.0
3288	63.436	63.096	0.226	0.0	0.1	0.0
3312	63.432	63.096	0.222	0.0	0.1	0.0
3336	63.429	63.096	0.219	0.0	0.1	0.0
3360	63.426	63.096	0.216	0.0	0.1	0.0
3384	63.423	63.096	0.213	0.0	0.1	0.0
3408	63.419	63.096	0.209	0.0	0.1	0.0
3432	63.416	63.096	0.206	0.0	0.1	0.0
3456	63.413	63.096	0.203	0.0	0.1	0.0
3480	63.410	63.096	0.200	0.0	0.1	0.0
3504	63.407	63.096	0.197	0.0	0.1	0.0
3528	63.403	63.096	0.193	0.0	0.1	0.0
3552	63.400	63.096	0.190	0.0	0.1	0.0
3576	63.397	63.096	0.187	0.0	0.1	0.0
3600	63.394	63.096	0.184	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2160 minute 100 year Winter
Average Rainfall Intensity 2.789 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.391	63.096	0.181	0.0	0.1	0.0
3648	63.388	63.096	0.178	0.0	0.1	0.0
3672	63.385	63.096	0.175	0.0	0.1	0.0
3696	63.381	63.096	0.171	0.0	0.1	0.0
3720	63.378	63.096	0.168	0.0	0.1	0.0
3744	63.375	63.096	0.165	0.0	0.1	0.0
3768	63.372	63.096	0.162	0.0	0.1	0.0
3792	63.369	63.096	0.159	0.0	0.1	0.0
3816	63.365	63.096	0.155	0.0	0.1	0.0
3840	63.362	63.096	0.152	0.0	0.1	0.0
3864	63.359	63.096	0.149	0.0	0.1	0.0
3888	63.356	63.096	0.146	0.0	0.1	0.0
3912	63.353	63.096	0.143	0.0	0.1	0.0
3936	63.350	63.096	0.140	0.0	0.1	0.0
3960	63.346	63.096	0.136	0.0	0.1	0.0
3984	63.342	63.096	0.132	0.0	0.1	0.0
4008	63.337	63.096	0.127	0.0	0.1	0.0
4032	63.332	63.096	0.122	0.0	0.1	0.0
4056	63.327	63.096	0.117	0.0	0.1	0.0
4080	63.321	63.096	0.111	0.0	0.0	0.0
4104	63.313	63.096	0.103	0.0	0.0	0.0
4128	63.304	63.096	0.094	0.0	0.0	0.0
4152	63.291	63.096	0.081	0.0	0.0	0.0
4176	63.279	63.096	0.069	0.0	0.0	0.0
4200	63.267	63.096	0.057	0.0	0.0	0.0
4224	63.253	63.096	0.043	0.0	0.0	0.0
4248	63.250	63.096	0.040	0.0	0.0	0.0
4272	63.267	63.096	0.057	0.0	0.0	0.0
4296	63.274	63.096	0.064	0.0	0.0	0.0
4320	63.277	63.096	0.067	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	5760
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	2880
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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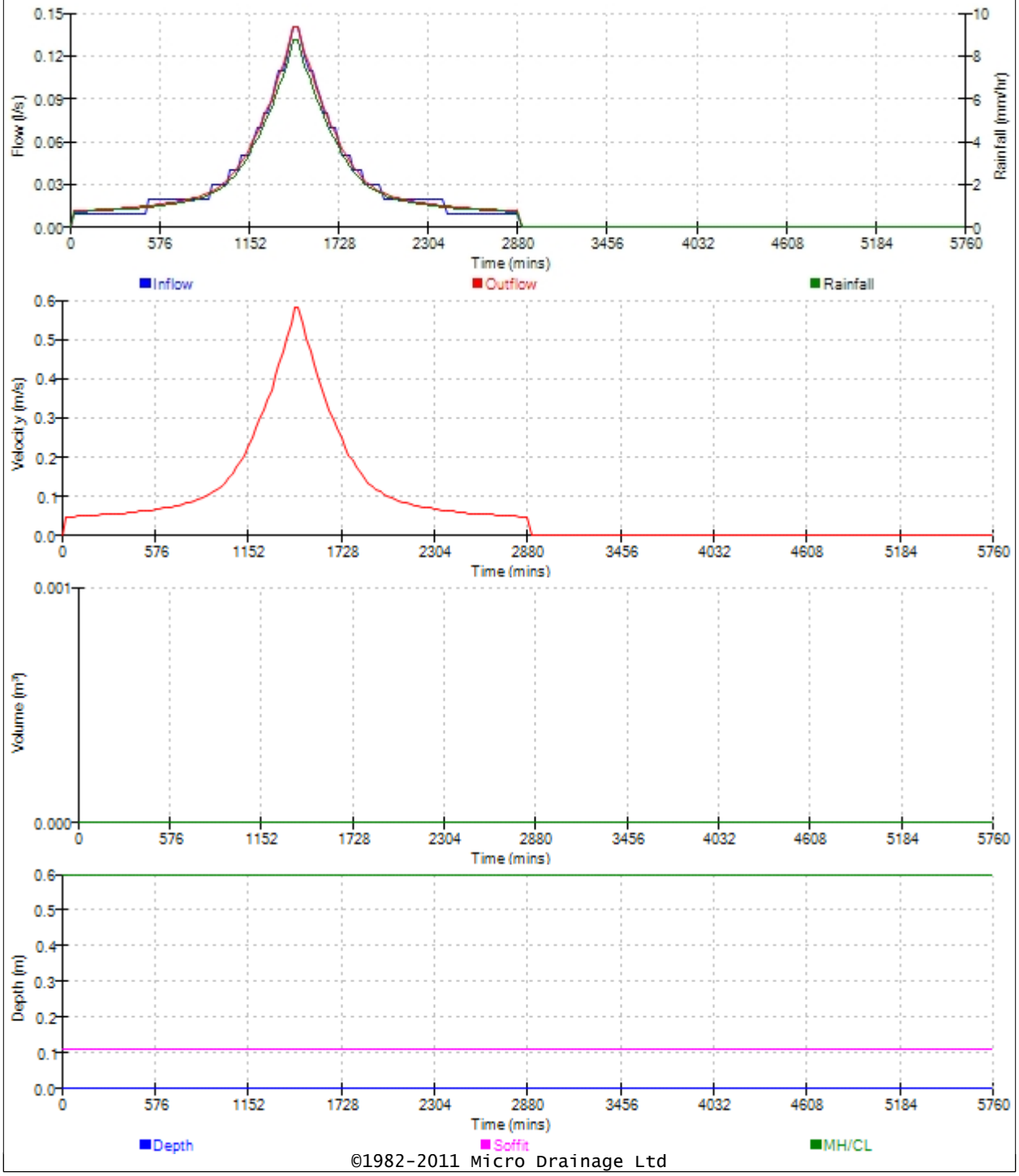
Summary of Results for 2880 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.403	-0.107	0.000	0.01	0.0	0.1	OK
1.001	S1	63.648	0.043	0.000	0.04	0.0	0.3	SURCHARGED
2.000	RE2	65.404	-0.106	0.000	0.01	0.0	0.1	OK
2.001	S2	65.005	-0.105	0.000	0.01	0.0	0.3	OK
1.002	S3	63.647	0.093	0.000	0.08	0.0	0.6	SURCHARGED
1.003	S4	63.647	0.287	0.000	0.03	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.588	0.378	0.000	0.01	0.0	0.0	SURCHARGED

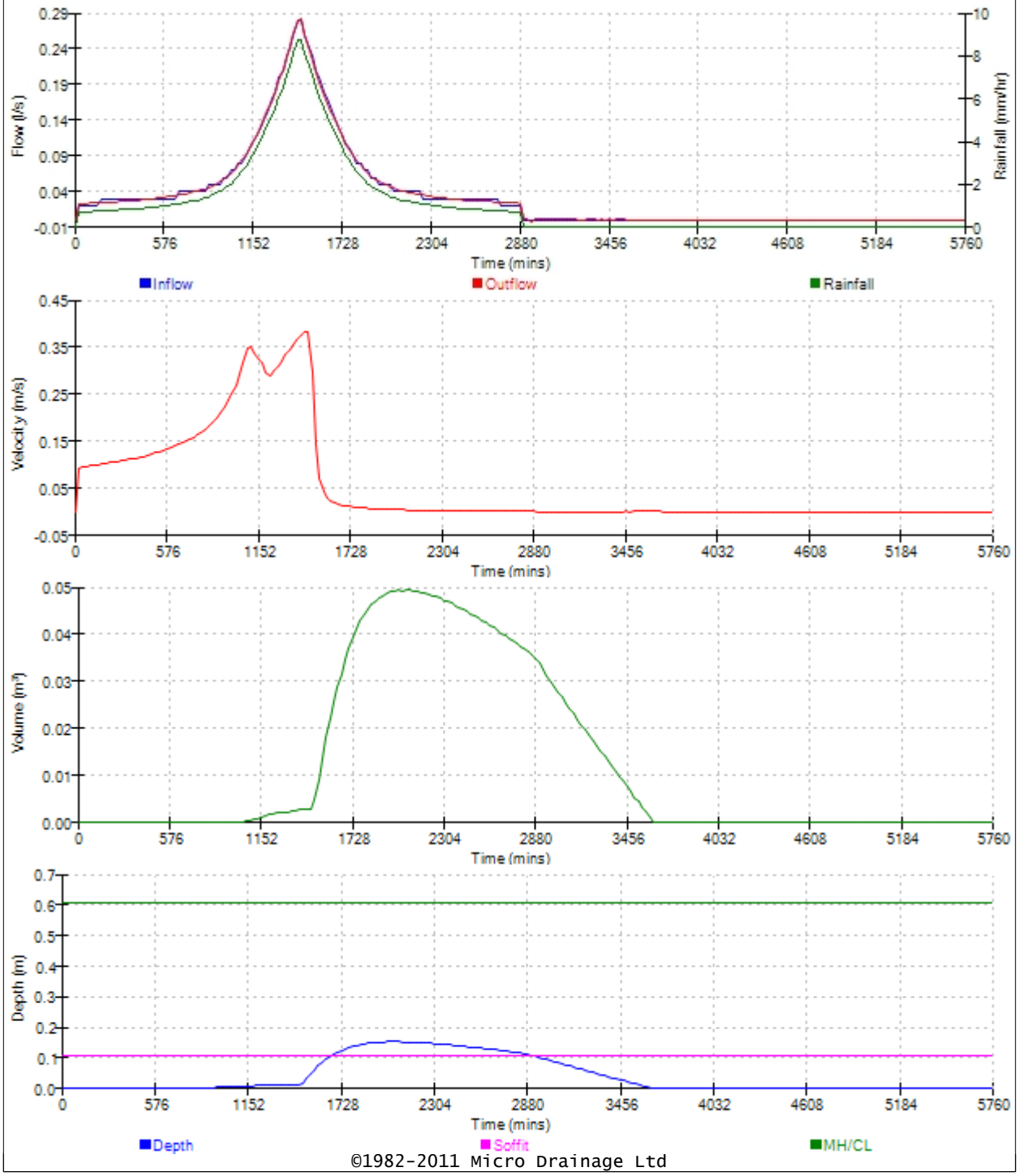
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Status: OK



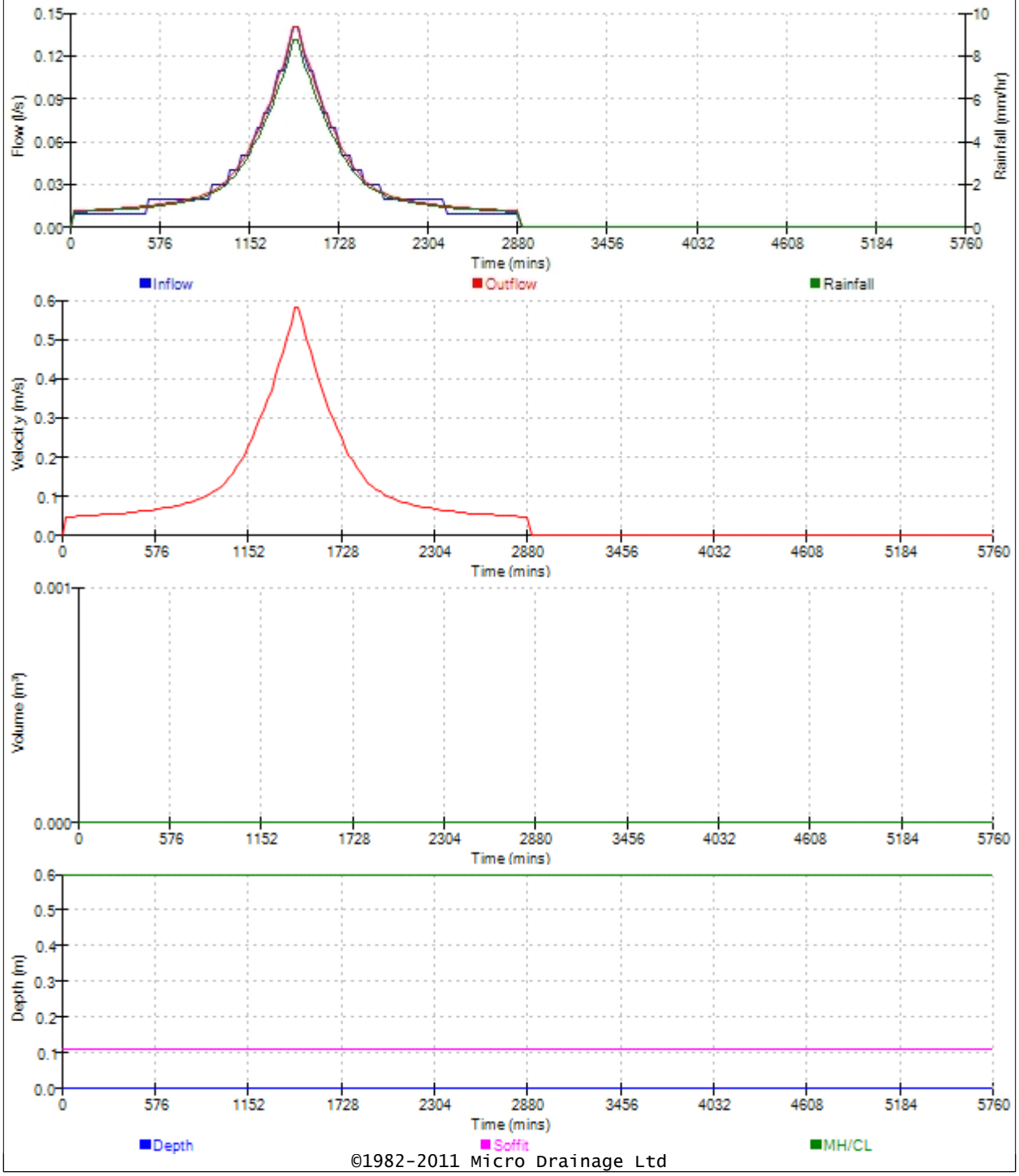
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Graphs for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Status: SURCHARGED



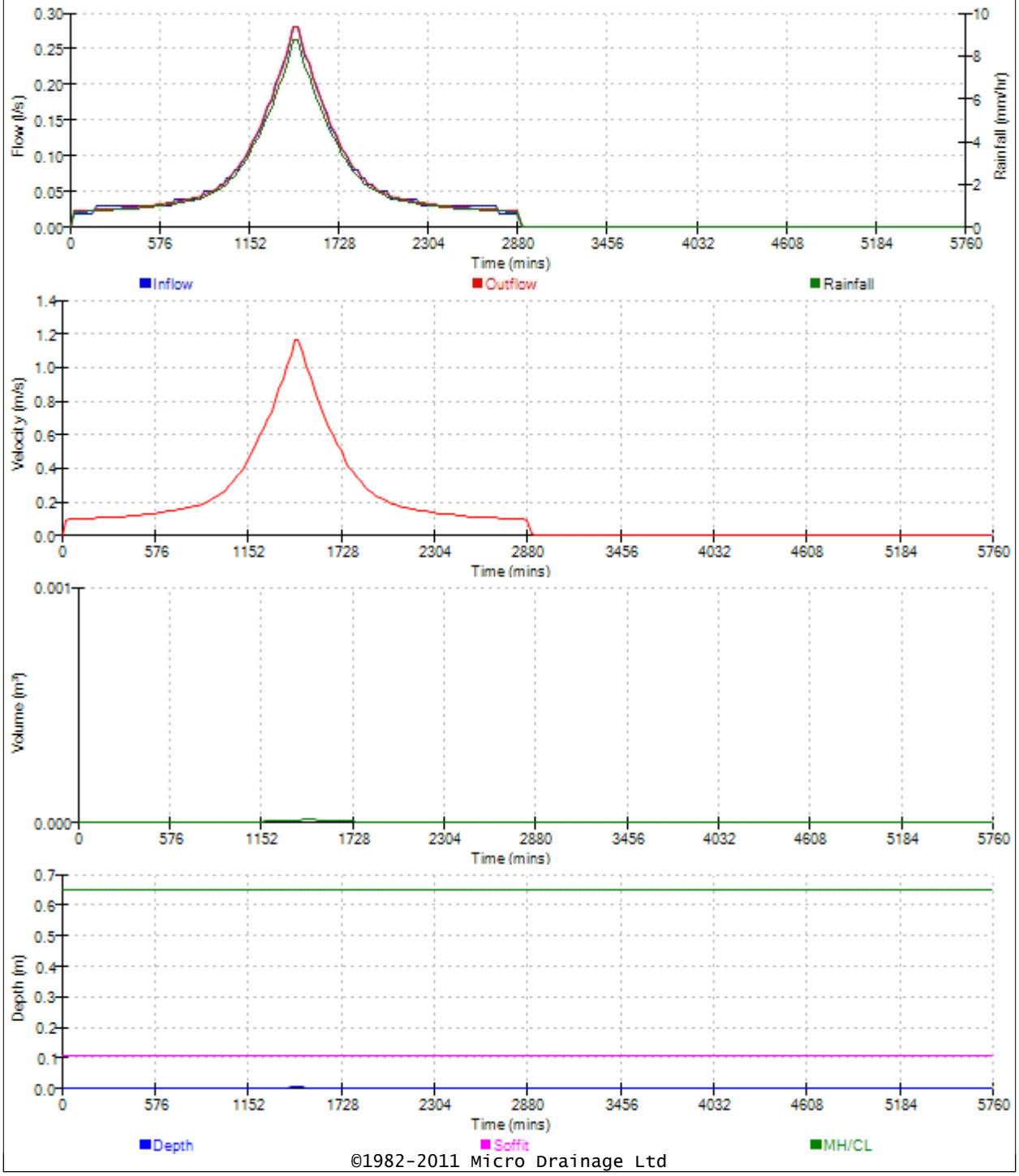
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Status: OK



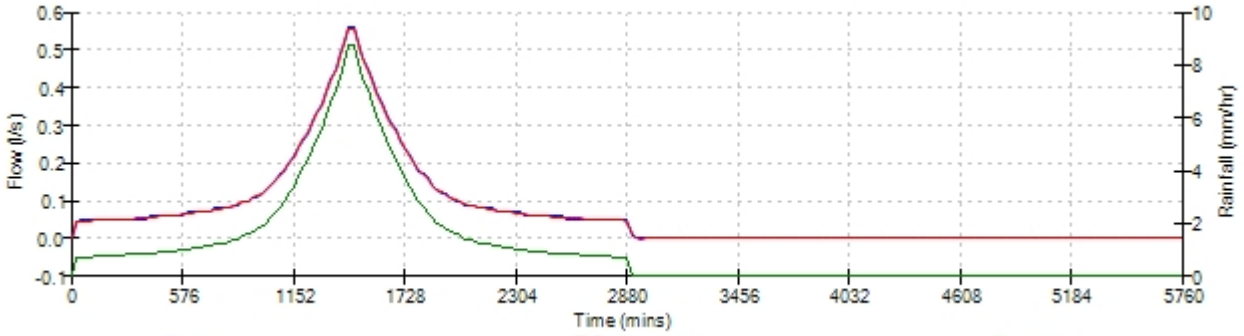
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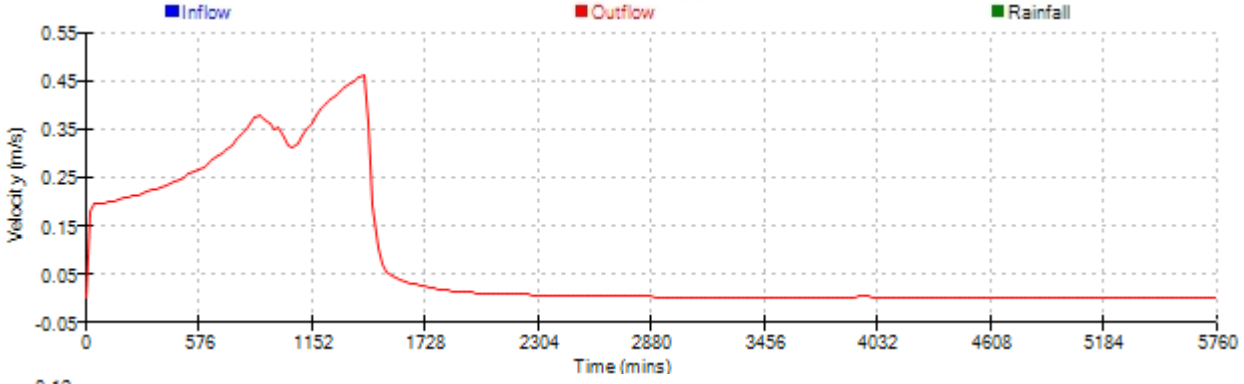
Graphs for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Status: OK

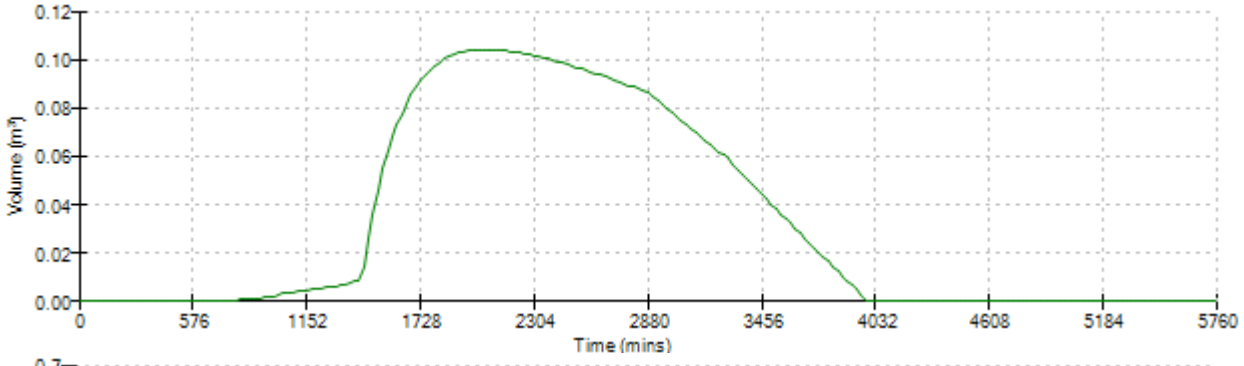


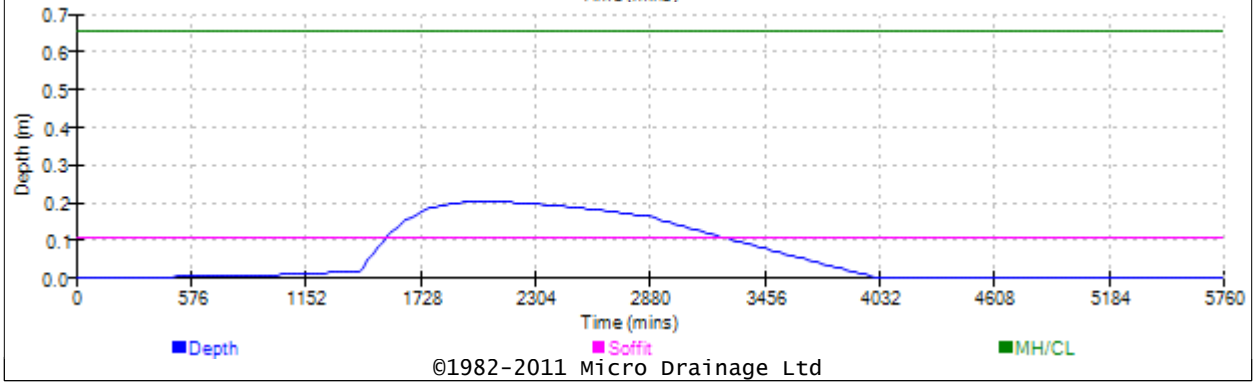
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Graphs for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Status: SURCHARGED



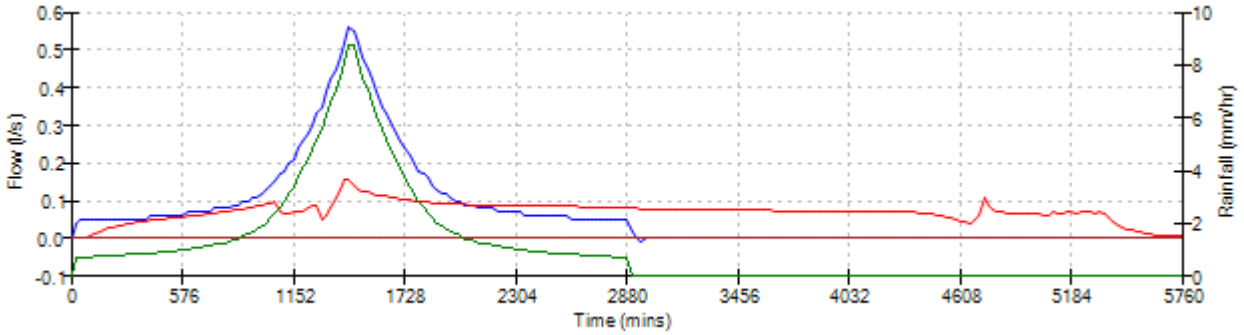


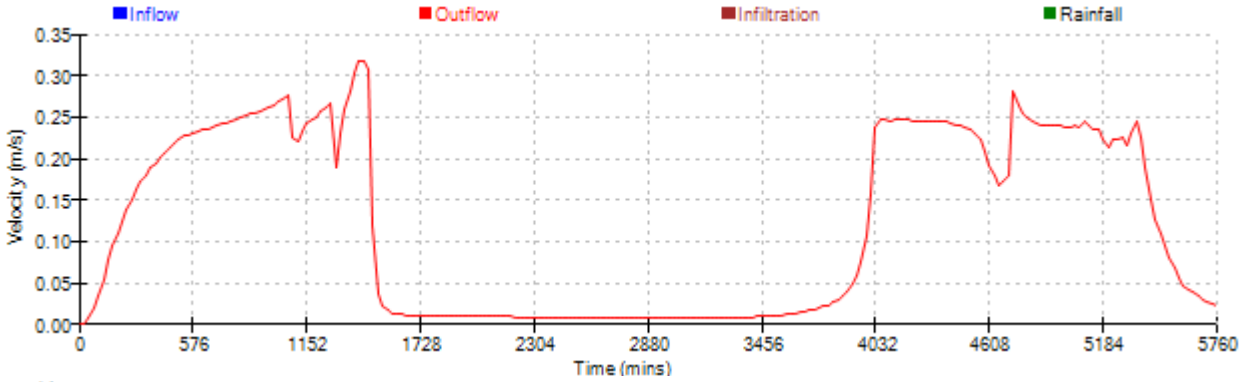


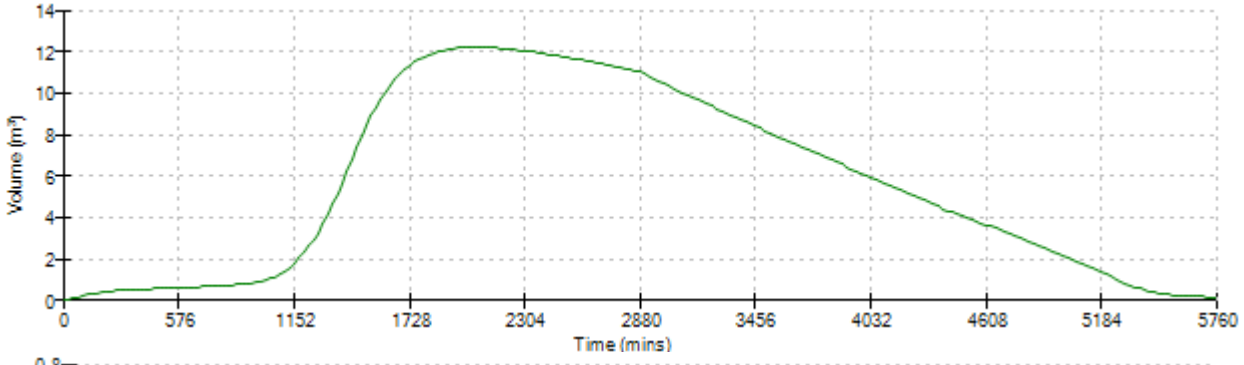


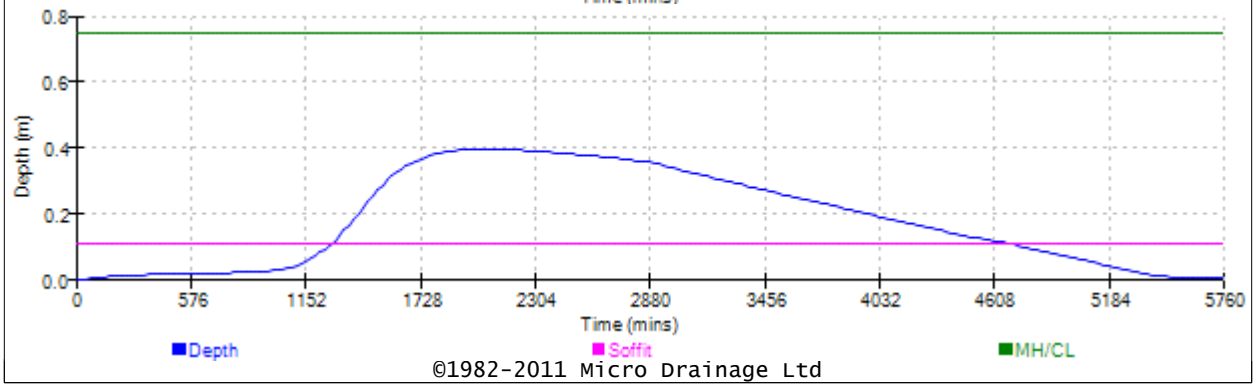
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Graphs for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Status: SURCHARGED



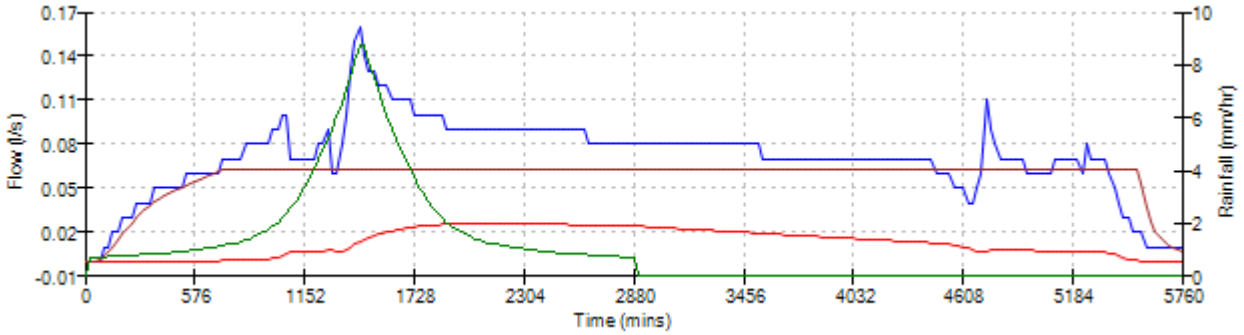


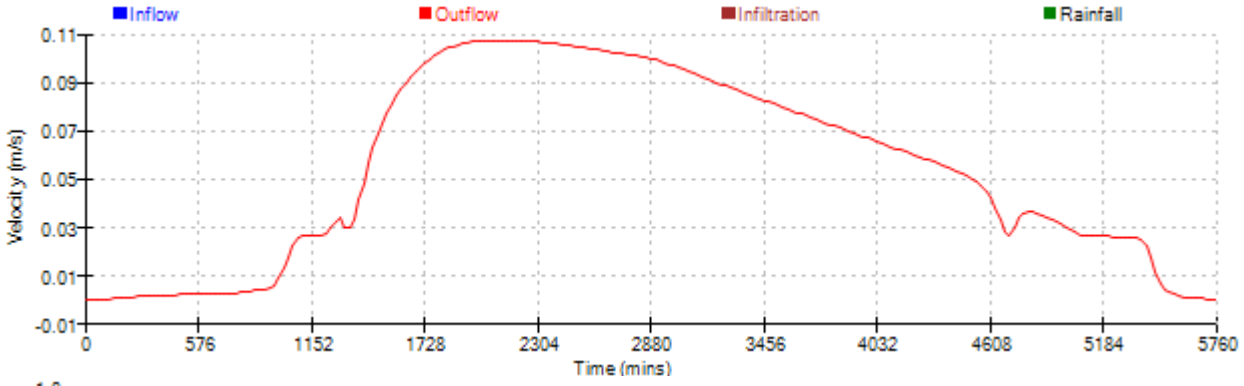


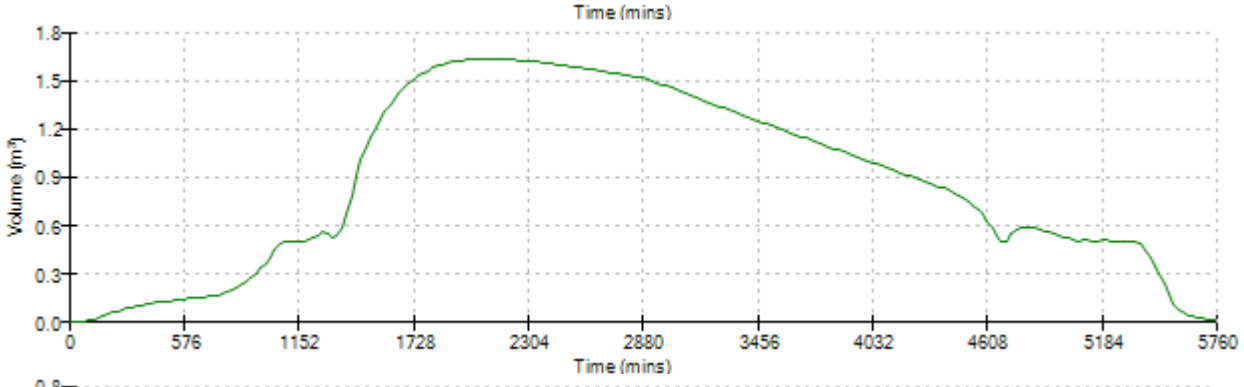


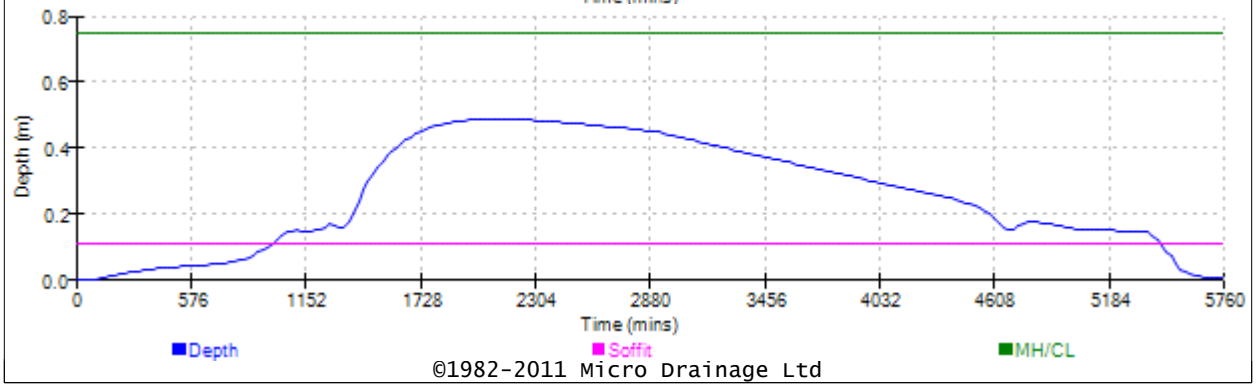
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.496	-0.110	0.0	0.0	0.0
48	65.400	63.496	-0.110	0.0	0.0	0.0
72	65.400	63.496	-0.110	0.0	0.0	0.0
96	65.400	63.496	-0.110	0.0	0.0	0.0
120	65.400	63.496	-0.110	0.0	0.1	0.0
144	65.400	63.496	-0.110	0.0	0.1	0.0
168	65.400	63.496	-0.110	0.0	0.1	0.0
192	65.400	63.496	-0.110	0.0	0.1	0.0
216	65.400	63.496	-0.110	0.0	0.1	0.0
240	65.400	63.496	-0.110	0.0	0.1	0.0
264	65.400	63.496	-0.110	0.0	0.1	0.0
288	65.400	63.496	-0.110	0.0	0.1	0.0
312	65.400	63.496	-0.110	0.0	0.1	0.0
336	65.400	63.496	-0.110	0.0	0.1	0.0
360	65.400	63.496	-0.110	0.0	0.1	0.0
384	65.400	63.496	-0.110	0.0	0.1	0.0
408	65.400	63.496	-0.110	0.0	0.1	0.0
432	65.400	63.496	-0.110	0.0	0.1	0.0
456	65.400	63.496	-0.110	0.0	0.1	0.0
480	65.400	63.496	-0.110	0.0	0.1	0.0
504	65.400	63.496	-0.110	0.0	0.1	0.0
528	65.400	63.497	-0.110	0.0	0.1	0.0
552	65.400	63.497	-0.110	0.0	0.1	0.0
576	65.400	63.497	-0.110	0.0	0.1	0.0
600	65.400	63.497	-0.110	0.0	0.1	0.0
624	65.400	63.497	-0.110	0.0	0.1	0.0
648	65.400	63.497	-0.110	0.0	0.1	0.0
672	65.400	63.497	-0.110	0.0	0.1	0.0
696	65.400	63.497	-0.110	0.0	0.1	0.0
720	65.400	63.497	-0.110	0.0	0.1	0.0
744	65.400	63.497	-0.110	0.0	0.1	0.0
768	65.400	63.497	-0.110	0.0	0.1	0.0
792	65.400	63.497	-0.110	0.0	0.1	0.0
816	65.400	63.497	-0.110	0.0	0.1	0.0
840	65.400	63.498	-0.110	0.0	0.1	0.0
864	65.400	63.498	-0.110	0.0	0.1	0.0
888	65.400	63.498	-0.110	0.0	0.1	0.0
912	65.401	63.498	-0.109	0.0	0.1	0.0
936	65.401	63.498	-0.109	0.0	0.1	0.0
960	65.401	63.499	-0.109	0.0	0.1	0.0
984	65.401	63.499	-0.109	0.0	0.1	0.0
1008	65.401	63.499	-0.109	0.0	0.1	0.0
1032	65.401	63.500	-0.109	0.0	0.1	0.0
1056	65.401	63.500	-0.109	0.0	0.2	0.0
1080	65.401	63.501	-0.109	0.0	0.2	0.0
1104	65.401	63.501	-0.109	0.0	0.2	0.0
1128	65.401	63.502	-0.109	0.0	0.2	0.0
1152	65.401	63.503	-0.109	0.0	0.2	0.1
1176	65.401	63.503	-0.109	0.0	0.3	0.1
1200	65.401	63.504	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	63.505	-0.109	0.0	0.3	0.1
1248	65.402	63.505	-0.108	0.0	0.3	0.1
1272	65.402	63.506	-0.108	0.0	0.3	0.1
1296	65.402	63.506	-0.108	0.0	0.4	0.1
1320	65.402	63.506	-0.108	0.0	0.4	0.1
1344	65.402	63.507	-0.108	0.0	0.4	0.1
1368	65.402	63.507	-0.108	0.0	0.5	0.1
1392	65.402	63.508	-0.108	0.0	0.5	0.1
1416	65.403	63.508	-0.107	0.0	0.5	0.1
1440	65.403	63.509	-0.107	0.0	0.6	0.1
1464	65.403	63.509	-0.107	0.0	0.6	0.1
1488	65.403	63.514	-0.107	0.0	0.5	0.1
1512	65.402	63.527	-0.108	0.0	0.5	0.1
1536	65.402	63.542	-0.108	0.0	0.5	0.1
1560	65.402	63.556	-0.108	0.0	0.4	0.1
1584	65.402	63.568	-0.108	0.0	0.4	0.1
1608	65.402	63.579	-0.108	0.0	0.4	0.1
1632	65.402	63.590	-0.108	0.0	0.3	0.1
1656	65.402	63.599	-0.108	0.0	0.3	0.1
1680	65.401	63.606	-0.109	0.0	0.3	0.1
1704	65.401	63.614	-0.109	0.0	0.3	0.1
1728	65.401	63.620	-0.109	0.0	0.3	0.1
1752	65.401	63.625	-0.109	0.0	0.2	0.1
1776	65.401	63.630	-0.109	0.0	0.2	0.0
1800	65.401	63.633	-0.109	0.0	0.2	0.0
1824	65.401	63.637	-0.109	0.0	0.2	0.0
1848	65.401	63.639	-0.109	0.0	0.2	0.0
1872	65.401	63.641	-0.109	0.0	0.1	0.0
1896	65.401	63.643	-0.109	0.0	0.1	0.0
1920	65.401	63.644	-0.109	0.0	0.1	0.0
1944	65.401	63.646	-0.109	0.0	0.1	0.0
1968	65.401	63.646	-0.109	0.0	0.1	0.0
1992	65.401	63.647	-0.109	0.0	0.1	0.0
2016	65.400	63.647	-0.110	0.0	0.1	0.0
2040	65.400	63.647	-0.110	0.0	0.1	0.0
2064	65.400	63.648	-0.110	0.0	0.1	0.0
2088	65.400	63.647	-0.110	0.0	0.1	0.0
2112	65.400	63.647	-0.110	0.0	0.1	0.0
2136	65.400	63.647	-0.110	0.0	0.1	0.0
2160	65.400	63.646	-0.110	0.0	0.1	0.0
2184	65.400	63.646	-0.110	0.0	0.1	0.0
2208	65.400	63.645	-0.110	0.0	0.1	0.0
2232	65.400	63.644	-0.110	0.0	0.1	0.0
2256	65.400	63.644	-0.110	0.0	0.1	0.0
2280	65.400	63.643	-0.110	0.0	0.1	0.0
2304	65.400	63.642	-0.110	0.0	0.1	0.0
2328	65.400	63.641	-0.110	0.0	0.1	0.0
2352	65.400	63.640	-0.110	0.0	0.1	0.0
2376	65.400	63.639	-0.110	0.0	0.1	0.0
2400	65.400	63.638	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.636	-0.110	0.0	0.1	0.0
2448	65.400	63.635	-0.110	0.0	0.1	0.0
2472	65.400	63.634	-0.110	0.0	0.1	0.0
2496	65.400	63.633	-0.110	0.0	0.1	0.0
2520	65.400	63.631	-0.110	0.0	0.1	0.0
2544	65.400	63.630	-0.110	0.0	0.1	0.0
2568	65.400	63.628	-0.110	0.0	0.1	0.0
2592	65.400	63.627	-0.110	0.0	0.1	0.0
2616	65.400	63.626	-0.110	0.0	0.1	0.0
2640	65.400	63.624	-0.110	0.0	0.1	0.0
2664	65.400	63.623	-0.110	0.0	0.1	0.0
2688	65.400	63.621	-0.110	0.0	0.1	0.0
2712	65.400	63.619	-0.110	0.0	0.1	0.0
2736	65.400	63.618	-0.110	0.0	0.1	0.0
2760	65.400	63.616	-0.110	0.0	0.1	0.0
2784	65.400	63.615	-0.110	0.0	0.1	0.0
2808	65.400	63.613	-0.110	0.0	0.0	0.0
2832	65.400	63.611	-0.110	0.0	0.0	0.0
2856	65.400	63.610	-0.110	0.0	0.0	0.0
2880	65.400	63.608	-0.110	0.0	0.0	0.0
2904	65.400	63.605	-0.110	0.0	0.0	0.0
2928	65.400	63.601	-0.110	0.0	0.0	0.0
2952	65.400	63.597	-0.110	0.0	0.0	0.0
2976	65.400	63.593	-0.110	0.0	0.0	0.0
3000	65.400	63.589	-0.110	0.0	0.0	0.0
3024	65.400	63.586	-0.110	0.0	0.0	0.0
3048	65.400	63.582	-0.110	0.0	0.0	0.0
3072	65.400	63.579	-0.110	0.0	0.0	0.0
3096	65.400	63.575	-0.110	0.0	0.0	0.0
3120	65.400	63.572	-0.110	0.0	0.0	0.0
3144	65.400	63.568	-0.110	0.0	0.0	0.0
3168	65.400	63.565	-0.110	0.0	0.0	0.0
3192	65.400	63.561	-0.110	0.0	0.0	0.0
3216	65.400	63.558	-0.110	0.0	0.0	0.0
3240	65.400	63.554	-0.110	0.0	0.0	0.0
3264	65.400	63.551	-0.110	0.0	0.0	0.0
3288	65.400	63.547	-0.110	0.0	0.0	0.0
3312	65.400	63.544	-0.110	0.0	0.0	0.0
3336	65.400	63.540	-0.110	0.0	0.0	0.0
3360	65.400	63.537	-0.110	0.0	0.0	0.0
3384	65.400	63.533	-0.110	0.0	0.0	0.0
3408	65.400	63.530	-0.110	0.0	0.0	0.0
3432	65.400	63.527	-0.110	0.0	0.0	0.0
3456	65.400	63.523	-0.110	0.0	0.0	0.0
3480	65.400	63.520	-0.110	0.0	0.0	0.0
3504	65.400	63.516	-0.110	0.0	0.0	0.0
3528	65.400	63.513	-0.110	0.0	0.0	0.0
3552	65.400	63.510	-0.110	0.0	0.0	0.0
3576	65.400	63.507	-0.110	0.0	0.0	0.0
3600	65.400	63.502	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.500	-0.110	0.0	0.0	0.0
3648	65.400	63.496	-0.110	0.0	0.0	0.0
3672	65.400	63.494	-0.110	0.0	0.0	0.0
3696	65.400	63.494	-0.110	0.0	0.0	0.0
3720	65.400	63.494	-0.110	0.0	0.0	0.0
3744	65.400	63.494	-0.110	0.0	0.0	0.0
3768	65.400	63.494	-0.110	0.0	0.0	0.0
3792	65.400	63.494	-0.110	0.0	0.0	0.0
3816	65.400	63.494	-0.110	0.0	0.0	0.0
3840	65.400	63.494	-0.110	0.0	0.0	0.0
3864	65.400	63.494	-0.110	0.0	0.0	0.0
3888	65.400	63.494	-0.110	0.0	0.0	0.0
3912	65.400	63.494	-0.110	0.0	0.0	0.0
3936	65.400	63.494	-0.110	0.0	0.0	0.0
3960	65.400	63.494	-0.110	0.0	0.0	0.0
3984	65.400	63.494	-0.110	0.0	0.0	0.0
4008	65.400	63.494	-0.110	0.0	0.0	0.0
4032	65.400	63.494	-0.110	0.0	0.0	0.0
4056	65.400	63.494	-0.110	0.0	0.0	0.0
4080	65.400	63.494	-0.110	0.0	0.0	0.0
4104	65.400	63.494	-0.110	0.0	0.0	0.0
4128	65.400	63.494	-0.110	0.0	0.0	0.0
4152	65.400	63.494	-0.110	0.0	0.0	0.0
4176	65.400	63.494	-0.110	0.0	0.0	0.0
4200	65.400	63.494	-0.110	0.0	0.0	0.0
4224	65.400	63.494	-0.110	0.0	0.0	0.0
4248	65.400	63.494	-0.110	0.0	0.0	0.0
4272	65.400	63.494	-0.110	0.0	0.0	0.0
4296	65.400	63.494	-0.110	0.0	0.0	0.0
4320	65.400	63.494	-0.110	0.0	0.0	0.0
4344	65.400	63.494	-0.110	0.0	0.0	0.0
4368	65.400	63.494	-0.110	0.0	0.0	0.0
4392	65.400	63.494	-0.110	0.0	0.0	0.0
4416	65.400	63.494	-0.110	0.0	0.0	0.0
4440	65.400	63.494	-0.110	0.0	0.0	0.0
4464	65.400	63.494	-0.110	0.0	0.0	0.0
4488	65.400	63.494	-0.110	0.0	0.0	0.0
4512	65.400	63.494	-0.110	0.0	0.0	0.0
4536	65.400	63.494	-0.110	0.0	0.0	0.0
4560	65.400	63.494	-0.110	0.0	0.0	0.0
4584	65.400	63.494	-0.110	0.0	0.0	0.0
4608	65.400	63.494	-0.110	0.0	0.0	0.0
4632	65.400	63.494	-0.110	0.0	0.0	0.0
4656	65.400	63.494	-0.110	0.0	0.0	0.0
4680	65.400	63.494	-0.110	0.0	0.0	0.0
4704	65.400	63.494	-0.110	0.0	0.0	0.0
4728	65.400	63.494	-0.110	0.0	0.0	0.0
4752	65.400	63.494	-0.110	0.0	0.0	0.0
4776	65.400	63.494	-0.110	0.0	0.0	0.0
4800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.494	-0.110	0.0	0.0	0.0
4848	65.400	63.494	-0.110	0.0	0.0	0.0
4872	65.400	63.494	-0.110	0.0	0.0	0.0
4896	65.400	63.494	-0.110	0.0	0.0	0.0
4920	65.400	63.494	-0.110	0.0	0.0	0.0
4944	65.400	63.494	-0.110	0.0	0.0	0.0
4968	65.400	63.494	-0.110	0.0	0.0	0.0
4992	65.400	63.494	-0.110	0.0	0.0	0.0
5016	65.400	63.494	-0.110	0.0	0.0	0.0
5040	65.400	63.494	-0.110	0.0	0.0	0.0
5064	65.400	63.494	-0.110	0.0	0.0	0.0
5088	65.400	63.494	-0.110	0.0	0.0	0.0
5112	65.400	63.494	-0.110	0.0	0.0	0.0
5136	65.400	63.494	-0.110	0.0	0.0	0.0
5160	65.400	63.494	-0.110	0.0	0.0	0.0
5184	65.400	63.494	-0.110	0.0	0.0	0.0
5208	65.400	63.494	-0.110	0.0	0.0	0.0
5232	65.400	63.494	-0.110	0.0	0.0	0.0
5256	65.400	63.494	-0.110	0.0	0.0	0.0
5280	65.400	63.494	-0.110	0.0	0.0	0.0
5304	65.400	63.494	-0.110	0.0	0.0	0.0
5328	65.400	63.494	-0.110	0.0	0.0	0.0
5352	65.400	63.494	-0.110	0.0	0.0	0.0
5376	65.400	63.494	-0.110	0.0	0.0	0.0
5400	65.400	63.494	-0.110	0.0	0.0	0.0
5424	65.400	63.494	-0.110	0.0	0.0	0.0
5448	65.400	63.494	-0.110	0.0	0.0	0.0
5472	65.400	63.494	-0.110	0.0	0.0	0.0
5496	65.400	63.494	-0.110	0.0	0.0	0.0
5520	65.400	63.494	-0.110	0.0	0.0	0.0
5544	65.400	63.494	-0.110	0.0	0.0	0.0
5568	65.400	63.494	-0.110	0.0	0.0	0.0
5592	65.400	63.494	-0.110	0.0	0.0	0.0
5616	65.400	63.494	-0.110	0.0	0.0	0.0
5640	65.400	63.494	-0.110	0.0	0.0	0.0
5664	65.400	63.494	-0.110	0.0	0.0	0.0
5688	65.400	63.494	-0.110	0.0	0.0	0.0
5712	65.400	63.494	-0.110	0.0	0.0	0.0
5736	65.400	63.494	-0.110	0.0	0.0	0.0
5760	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.496	63.447	-0.108	0.0	0.1	0.0
48	63.496	63.448	-0.108	0.0	0.1	0.0
72	63.496	63.448	-0.108	0.0	0.1	0.0
96	63.496	63.448	-0.108	0.0	0.1	0.0
120	63.496	63.448	-0.108	0.0	0.1	0.0
144	63.496	63.448	-0.108	0.0	0.1	0.0
168	63.496	63.448	-0.108	0.0	0.1	0.0
192	63.496	63.448	-0.108	0.0	0.1	0.0
216	63.496	63.448	-0.108	0.0	0.1	0.0
240	63.496	63.448	-0.108	0.0	0.1	0.0
264	63.496	63.448	-0.108	0.0	0.1	0.0
288	63.496	63.448	-0.108	0.0	0.1	0.0
312	63.496	63.448	-0.108	0.0	0.1	0.0
336	63.496	63.448	-0.108	0.0	0.1	0.0
360	63.496	63.448	-0.108	0.0	0.1	0.0
384	63.496	63.448	-0.108	0.0	0.1	0.0
408	63.496	63.448	-0.108	0.0	0.1	0.0
432	63.496	63.448	-0.108	0.0	0.1	0.0
456	63.496	63.448	-0.108	0.0	0.1	0.0
480	63.496	63.448	-0.108	0.0	0.1	0.0
504	63.496	63.449	-0.108	0.0	0.1	0.0
528	63.497	63.449	-0.108	0.0	0.1	0.0
552	63.497	63.449	-0.108	0.0	0.1	0.0
576	63.497	63.449	-0.107	0.0	0.1	0.0
600	63.497	63.449	-0.107	0.0	0.1	0.0
624	63.497	63.449	-0.107	0.0	0.1	0.0
648	63.497	63.449	-0.107	0.0	0.1	0.0
672	63.497	63.449	-0.107	0.0	0.1	0.0
696	63.497	63.449	-0.107	0.0	0.2	0.0
720	63.497	63.450	-0.107	0.0	0.2	0.0
744	63.497	63.450	-0.107	0.0	0.2	0.0
768	63.497	63.450	-0.107	0.0	0.2	0.0
792	63.497	63.450	-0.107	0.0	0.2	0.0
816	63.497	63.450	-0.107	0.0	0.2	0.0
840	63.498	63.451	-0.107	0.0	0.2	0.0
864	63.498	63.451	-0.106	0.0	0.2	0.0
888	63.498	63.451	-0.106	0.0	0.2	0.0
912	63.498	63.452	-0.106	0.0	0.2	0.1
936	63.498	63.452	-0.106	0.0	0.2	0.1
960	63.499	63.453	-0.106	0.0	0.2	0.1
984	63.499	63.453	-0.105	0.0	0.3	0.1
1008	63.499	63.453	-0.105	0.0	0.3	0.1
1032	63.500	63.454	-0.104	0.0	0.3	0.1
1056	63.500	63.455	-0.104	0.0	0.3	0.1
1080	63.501	63.456	-0.103	0.0	0.3	0.1
1104	63.501	63.456	-0.103	0.0	0.4	0.1
1128	63.502	63.456	-0.102	0.0	0.3	0.1
1152	63.503	63.457	-0.102	0.0	0.3	0.1
1176	63.503	63.457	-0.101	0.0	0.3	0.1
1200	63.504	63.458	-0.100	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.505	63.458	-0.099	0.0	0.3	0.1
1248	63.505	63.459	-0.099	0.0	0.3	0.2
1272	63.506	63.459	-0.098	0.0	0.3	0.2
1296	63.506	63.460	-0.098	0.0	0.3	0.2
1320	63.506	63.461	-0.098	0.0	0.3	0.2
1344	63.507	63.461	-0.097	0.0	0.3	0.2
1368	63.507	63.462	-0.097	0.0	0.4	0.2
1392	63.508	63.463	-0.097	0.0	0.4	0.2
1416	63.508	63.464	-0.096	0.0	0.4	0.3
1440	63.509	63.474	-0.096	0.0	0.4	0.3
1464	63.509	63.492	-0.096	0.0	0.4	0.3
1488	63.514	63.510	-0.090	0.0	0.3	0.3
1512	63.527	63.526	-0.077	0.0	0.1	0.2
1536	63.542	63.541	-0.062	0.0	0.1	0.2
1560	63.556	63.555	-0.048	0.0	0.0	0.2
1584	63.568	63.568	-0.036	0.0	0.0	0.2
1608	63.579	63.579	-0.025	0.0	0.0	0.2
1632	63.590	63.589	-0.015	0.0	0.0	0.2
1656	63.599	63.598	-0.006	0.0	0.0	0.2
1680	63.606	63.606	0.002	0.0	0.0	0.1
1704	63.614	63.613	0.009	0.0	0.0	0.1
1728	63.620	63.619	0.016	0.0	0.0	0.1
1752	63.625	63.625	0.021	0.0	0.0	0.1
1776	63.630	63.629	0.026	0.0	0.0	0.1
1800	63.633	63.633	0.029	0.0	0.0	0.1
1824	63.637	63.636	0.032	0.0	0.0	0.1
1848	63.639	63.639	0.035	0.0	0.0	0.1
1872	63.641	63.641	0.037	0.0	0.0	0.1
1896	63.643	63.643	0.039	0.0	0.0	0.1
1920	63.644	63.644	0.040	0.0	0.0	0.1
1944	63.646	63.645	0.041	0.0	0.0	0.1
1968	63.646	63.646	0.042	0.0	0.0	0.1
1992	63.647	63.647	0.043	0.0	0.0	0.1
2016	63.647	63.647	0.043	0.0	0.0	0.0
2040	63.647	63.647	0.043	0.0	0.0	0.0
2064	63.648	63.647	0.043	0.0	0.0	0.0
2088	63.647	63.647	0.043	0.0	0.0	0.0
2112	63.647	63.647	0.043	0.0	0.0	0.0
2136	63.647	63.647	0.043	0.0	0.0	0.0
2160	63.646	63.646	0.042	0.0	0.0	0.0
2184	63.646	63.646	0.042	0.0	0.0	0.0
2208	63.645	63.645	0.041	0.0	0.0	0.0
2232	63.644	63.644	0.040	0.0	0.0	0.0
2256	63.644	63.643	0.039	0.0	0.0	0.0
2280	63.643	63.643	0.039	0.0	0.0	0.0
2304	63.642	63.642	0.037	0.0	0.0	0.0
2328	63.641	63.641	0.037	0.0	0.0	0.0
2352	63.640	63.640	0.036	0.0	0.0	0.0
2376	63.639	63.639	0.035	0.0	0.0	0.0
2400	63.638	63.637	0.033	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.636	63.636	0.032	0.0	0.0	0.0
2448	63.635	63.635	0.031	0.0	0.0	0.0
2472	63.634	63.634	0.030	0.0	0.0	0.0
2496	63.633	63.632	0.028	0.0	0.0	0.0
2520	63.631	63.631	0.027	0.0	0.0	0.0
2544	63.630	63.630	0.025	0.0	0.0	0.0
2568	63.628	63.628	0.024	0.0	0.0	0.0
2592	63.627	63.627	0.023	0.0	0.0	0.0
2616	63.626	63.625	0.021	0.0	0.0	0.0
2640	63.624	63.624	0.020	0.0	0.0	0.0
2664	63.623	63.622	0.018	0.0	0.0	0.0
2688	63.621	63.621	0.017	0.0	0.0	0.0
2712	63.619	63.619	0.015	0.0	0.0	0.0
2736	63.618	63.618	0.014	0.0	0.0	0.0
2760	63.616	63.616	0.012	0.0	0.0	0.0
2784	63.615	63.615	0.011	0.0	0.0	0.0
2808	63.613	63.613	0.009	0.0	0.0	0.0
2832	63.611	63.611	0.007	0.0	0.0	0.0
2856	63.610	63.610	0.006	0.0	0.0	0.0
2880	63.608	63.608	0.004	0.0	0.0	0.0
2904	63.605	63.605	0.000	0.0	0.0	0.0
2928	63.601	63.601	-0.003	0.0	0.0	0.0
2952	63.597	63.597	-0.007	0.0	0.0	0.0
2976	63.593	63.593	-0.012	0.0	0.0	0.0
3000	63.589	63.590	-0.015	0.0	0.0	0.0
3024	63.586	63.586	-0.018	0.0	0.0	0.0
3048	63.582	63.583	-0.022	0.0	0.0	0.0
3072	63.579	63.579	-0.025	0.0	0.0	0.0
3096	63.575	63.575	-0.029	0.0	0.0	0.0
3120	63.572	63.572	-0.032	0.0	0.0	0.0
3144	63.568	63.568	-0.036	0.0	0.0	0.0
3168	63.565	63.565	-0.039	0.0	0.0	0.0
3192	63.561	63.561	-0.043	0.0	0.0	0.0
3216	63.558	63.558	-0.046	0.0	0.0	0.0
3240	63.554	63.554	-0.050	0.0	0.0	0.0
3264	63.551	63.551	-0.053	0.0	0.0	0.0
3288	63.547	63.548	-0.057	0.0	0.0	0.0
3312	63.544	63.544	-0.061	0.0	0.0	0.0
3336	63.540	63.540	-0.064	0.0	0.0	0.0
3360	63.537	63.537	-0.067	0.0	0.0	0.0
3384	63.533	63.534	-0.071	0.0	0.0	0.0
3408	63.530	63.530	-0.074	0.0	0.0	0.0
3432	63.527	63.527	-0.077	0.0	0.0	0.0
3456	63.523	63.523	-0.081	0.0	0.0	0.0
3480	63.520	63.520	-0.084	0.0	0.0	0.0
3504	63.516	63.517	-0.088	0.0	0.0	0.0
3528	63.513	63.513	-0.091	0.0	0.0	0.0
3552	63.510	63.510	-0.094	0.0	0.0	0.0
3576	63.507	63.506	-0.098	0.0	0.0	0.0
3600	63.502	63.503	-0.102	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.500	63.500	-0.104	0.0	0.0	0.0
3648	63.496	63.496	-0.108	0.0	0.0	0.0
3672	63.494	63.493	-0.110	0.0	0.0	0.0
3696	63.494	63.490	-0.110	0.0	0.0	0.0
3720	63.494	63.486	-0.110	0.0	0.0	0.0
3744	63.494	63.483	-0.110	0.0	0.0	0.0
3768	63.494	63.480	-0.110	0.0	0.0	0.0
3792	63.494	63.477	-0.110	0.0	0.0	0.0
3816	63.494	63.473	-0.110	0.0	0.0	0.0
3840	63.494	63.470	-0.110	0.0	0.0	0.0
3864	63.494	63.466	-0.110	0.0	0.0	0.0
3888	63.494	63.464	-0.110	0.0	0.0	0.0
3912	63.494	63.461	-0.110	0.0	0.0	0.0
3936	63.494	63.457	-0.110	0.0	0.0	0.0
3960	63.494	63.454	-0.110	0.0	0.0	0.0
3984	63.494	63.449	-0.110	0.0	0.0	0.0
4008	63.494	63.446	-0.110	0.0	0.0	0.0
4032	63.494	63.444	-0.110	0.0	0.0	0.0
4056	63.494	63.444	-0.110	0.0	0.0	0.0
4080	63.494	63.444	-0.110	0.0	0.0	0.0
4104	63.494	63.444	-0.110	0.0	0.0	0.0
4128	63.494	63.444	-0.110	0.0	0.0	0.0
4152	63.494	63.444	-0.110	0.0	0.0	0.0
4176	63.494	63.444	-0.110	0.0	0.0	0.0
4200	63.494	63.444	-0.110	0.0	0.0	0.0
4224	63.494	63.444	-0.110	0.0	0.0	0.0
4248	63.494	63.444	-0.110	0.0	0.0	0.0
4272	63.494	63.444	-0.110	0.0	0.0	0.0
4296	63.494	63.444	-0.110	0.0	0.0	0.0
4320	63.494	63.444	-0.110	0.0	0.0	0.0
4344	63.494	63.444	-0.110	0.0	0.0	0.0
4368	63.494	63.444	-0.110	0.0	0.0	0.0
4392	63.494	63.444	-0.110	0.0	0.0	0.0
4416	63.494	63.444	-0.110	0.0	0.0	0.0
4440	63.494	63.444	-0.110	0.0	0.0	0.0
4464	63.494	63.444	-0.110	0.0	0.0	0.0
4488	63.494	63.444	-0.110	0.0	0.0	0.0
4512	63.494	63.444	-0.110	0.0	0.0	0.0
4536	63.494	63.444	-0.110	0.0	0.0	0.0
4560	63.494	63.444	-0.110	0.0	0.0	0.0
4584	63.494	63.444	-0.110	0.0	0.0	0.0
4608	63.494	63.444	-0.110	0.0	0.0	0.0
4632	63.494	63.444	-0.110	0.0	0.0	0.0
4656	63.494	63.444	-0.110	0.0	0.0	0.0
4680	63.494	63.444	-0.110	0.0	0.0	0.0
4704	63.494	63.444	-0.110	0.0	0.0	0.0
4728	63.494	63.444	-0.110	0.0	0.0	0.0
4752	63.494	63.444	-0.110	0.0	0.0	0.0
4776	63.494	63.444	-0.110	0.0	0.0	0.0
4800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.494	63.444	-0.110	0.0	0.0	0.0
4848	63.494	63.444	-0.110	0.0	0.0	0.0
4872	63.494	63.444	-0.110	0.0	0.0	0.0
4896	63.494	63.444	-0.110	0.0	0.0	0.0
4920	63.494	63.444	-0.110	0.0	0.0	0.0
4944	63.494	63.444	-0.110	0.0	0.0	0.0
4968	63.494	63.444	-0.110	0.0	0.0	0.0
4992	63.494	63.444	-0.110	0.0	0.0	0.0
5016	63.494	63.444	-0.110	0.0	0.0	0.0
5040	63.494	63.444	-0.110	0.0	0.0	0.0
5064	63.494	63.444	-0.110	0.0	0.0	0.0
5088	63.494	63.444	-0.110	0.0	0.0	0.0
5112	63.494	63.444	-0.110	0.0	0.0	0.0
5136	63.494	63.444	-0.110	0.0	0.0	0.0
5160	63.494	63.444	-0.110	0.0	0.0	0.0
5184	63.494	63.444	-0.110	0.0	0.0	0.0
5208	63.494	63.444	-0.110	0.0	0.0	0.0
5232	63.494	63.444	-0.110	0.0	0.0	0.0
5256	63.494	63.444	-0.110	0.0	0.0	0.0
5280	63.494	63.444	-0.110	0.0	0.0	0.0
5304	63.494	63.444	-0.110	0.0	0.0	0.0
5328	63.494	63.444	-0.110	0.0	0.0	0.0
5352	63.494	63.444	-0.110	0.0	0.0	0.0
5376	63.494	63.444	-0.110	0.0	0.0	0.0
5400	63.494	63.444	-0.110	0.0	0.0	0.0
5424	63.494	63.444	-0.110	0.0	0.0	0.0
5448	63.494	63.444	-0.110	0.0	0.0	0.0
5472	63.494	63.444	-0.110	0.0	0.0	0.0
5496	63.494	63.444	-0.110	0.0	0.0	0.0
5520	63.494	63.444	-0.110	0.0	0.0	0.0
5544	63.494	63.444	-0.110	0.0	0.0	0.0
5568	63.494	63.444	-0.110	0.0	0.0	0.0
5592	63.494	63.444	-0.110	0.0	0.0	0.0
5616	63.494	63.444	-0.110	0.0	0.0	0.0
5640	63.494	63.444	-0.110	0.0	0.0	0.0
5664	63.494	63.444	-0.110	0.0	0.0	0.0
5688	63.494	63.444	-0.110	0.0	0.0	0.0
5712	63.494	63.444	-0.110	0.0	0.0	0.0
5736	63.494	63.444	-0.110	0.0	0.0	0.0
5760	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.1	0.0
144	65.400	65.000	-0.110	0.0	0.1	0.0
168	65.400	65.000	-0.110	0.0	0.1	0.0
192	65.400	65.000	-0.110	0.0	0.1	0.0
216	65.400	65.000	-0.110	0.0	0.1	0.0
240	65.400	65.000	-0.110	0.0	0.1	0.0
264	65.400	65.000	-0.110	0.0	0.1	0.0
288	65.400	65.000	-0.110	0.0	0.1	0.0
312	65.400	65.000	-0.110	0.0	0.1	0.0
336	65.400	65.000	-0.110	0.0	0.1	0.0
360	65.400	65.000	-0.110	0.0	0.1	0.0
384	65.400	65.000	-0.110	0.0	0.1	0.0
408	65.400	65.000	-0.110	0.0	0.1	0.0
432	65.400	65.001	-0.110	0.0	0.1	0.0
456	65.400	65.001	-0.110	0.0	0.1	0.0
480	65.400	65.001	-0.110	0.0	0.1	0.0
504	65.400	65.001	-0.110	0.0	0.1	0.0
528	65.400	65.001	-0.110	0.0	0.1	0.0
552	65.400	65.001	-0.110	0.0	0.1	0.0
576	65.400	65.001	-0.110	0.0	0.1	0.0
600	65.400	65.001	-0.110	0.0	0.1	0.0
624	65.400	65.001	-0.110	0.0	0.1	0.0
648	65.400	65.001	-0.110	0.0	0.1	0.0
672	65.400	65.001	-0.110	0.0	0.1	0.0
696	65.400	65.001	-0.110	0.0	0.1	0.0
720	65.400	65.001	-0.110	0.0	0.1	0.0
744	65.400	65.001	-0.110	0.0	0.1	0.0
768	65.401	65.001	-0.109	0.0	0.1	0.0
792	65.401	65.001	-0.109	0.0	0.1	0.0
816	65.401	65.001	-0.109	0.0	0.1	0.0
840	65.401	65.001	-0.109	0.0	0.1	0.0
864	65.401	65.001	-0.109	0.0	0.1	0.0
888	65.401	65.001	-0.109	0.0	0.1	0.0
912	65.401	65.001	-0.109	0.0	0.1	0.0
936	65.401	65.001	-0.109	0.0	0.1	0.0
960	65.401	65.001	-0.109	0.0	0.1	0.0
984	65.401	65.001	-0.109	0.0	0.1	0.0
1008	65.401	65.001	-0.109	0.0	0.1	0.0
1032	65.401	65.001	-0.109	0.0	0.1	0.0
1056	65.401	65.001	-0.109	0.0	0.2	0.0
1080	65.401	65.001	-0.109	0.0	0.2	0.0
1104	65.401	65.002	-0.109	0.0	0.2	0.0
1128	65.401	65.002	-0.109	0.0	0.2	0.0
1152	65.401	65.002	-0.109	0.0	0.2	0.1
1176	65.402	65.002	-0.108	0.0	0.3	0.1
1200	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.402	65.003	-0.108	0.0	0.3	0.1
1248	65.402	65.003	-0.108	0.0	0.3	0.1
1272	65.402	65.003	-0.108	0.0	0.3	0.1
1296	65.402	65.003	-0.108	0.0	0.4	0.1
1320	65.402	65.003	-0.108	0.0	0.4	0.1
1344	65.403	65.004	-0.107	0.0	0.4	0.1
1368	65.403	65.004	-0.107	0.0	0.5	0.1
1392	65.403	65.004	-0.107	0.0	0.5	0.1
1416	65.403	65.005	-0.107	0.0	0.5	0.1
1440	65.404	65.005	-0.106	0.0	0.6	0.1
1464	65.404	65.005	-0.106	0.0	0.6	0.1
1488	65.403	65.005	-0.107	0.0	0.5	0.1
1512	65.403	65.004	-0.107	0.0	0.5	0.1
1536	65.403	65.004	-0.107	0.0	0.5	0.1
1560	65.403	65.004	-0.107	0.0	0.4	0.1
1584	65.402	65.003	-0.108	0.0	0.4	0.1
1608	65.402	65.003	-0.108	0.0	0.4	0.1
1632	65.402	65.003	-0.108	0.0	0.3	0.1
1656	65.402	65.003	-0.108	0.0	0.3	0.1
1680	65.402	65.003	-0.108	0.0	0.3	0.1
1704	65.402	65.002	-0.108	0.0	0.3	0.1
1728	65.402	65.002	-0.108	0.0	0.3	0.1
1752	65.401	65.002	-0.109	0.0	0.2	0.1
1776	65.401	65.002	-0.109	0.0	0.2	0.0
1800	65.401	65.002	-0.109	0.0	0.2	0.0
1824	65.401	65.001	-0.109	0.0	0.2	0.0
1848	65.401	65.001	-0.109	0.0	0.2	0.0
1872	65.401	65.001	-0.109	0.0	0.1	0.0
1896	65.401	65.001	-0.109	0.0	0.1	0.0
1920	65.401	65.001	-0.109	0.0	0.1	0.0
1944	65.401	65.001	-0.109	0.0	0.1	0.0
1968	65.401	65.001	-0.109	0.0	0.1	0.0
1992	65.401	65.001	-0.109	0.0	0.1	0.0
2016	65.401	65.001	-0.109	0.0	0.1	0.0
2040	65.401	65.001	-0.109	0.0	0.1	0.0
2064	65.401	65.001	-0.109	0.0	0.1	0.0
2088	65.401	65.001	-0.109	0.0	0.1	0.0
2112	65.401	65.001	-0.109	0.0	0.1	0.0
2136	65.400	65.001	-0.110	0.0	0.1	0.0
2160	65.400	65.001	-0.110	0.0	0.1	0.0
2184	65.400	65.001	-0.110	0.0	0.1	0.0
2208	65.400	65.001	-0.110	0.0	0.1	0.0
2232	65.400	65.001	-0.110	0.0	0.1	0.0
2256	65.400	65.001	-0.110	0.0	0.1	0.0
2280	65.400	65.001	-0.110	0.0	0.1	0.0
2304	65.400	65.001	-0.110	0.0	0.1	0.0
2328	65.400	65.001	-0.110	0.0	0.1	0.0
2352	65.400	65.001	-0.110	0.0	0.1	0.0
2376	65.400	65.001	-0.110	0.0	0.1	0.0
2400	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.001	-0.110	0.0	0.1	0.0
2448	65.400	65.001	-0.110	0.0	0.1	0.0
2472	65.400	65.001	-0.110	0.0	0.1	0.0
2496	65.400	65.000	-0.110	0.0	0.1	0.0
2520	65.400	65.000	-0.110	0.0	0.1	0.0
2544	65.400	65.000	-0.110	0.0	0.1	0.0
2568	65.400	65.000	-0.110	0.0	0.1	0.0
2592	65.400	65.000	-0.110	0.0	0.1	0.0
2616	65.400	65.000	-0.110	0.0	0.1	0.0
2640	65.400	65.000	-0.110	0.0	0.1	0.0
2664	65.400	65.000	-0.110	0.0	0.1	0.0
2688	65.400	65.000	-0.110	0.0	0.1	0.0
2712	65.400	65.000	-0.110	0.0	0.1	0.0
2736	65.400	65.000	-0.110	0.0	0.1	0.0
2760	65.400	65.000	-0.110	0.0	0.1	0.0
2784	65.400	65.000	-0.110	0.0	0.1	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.0	0.0
3072	65.400	65.000	-0.110	0.0	0.0	0.0
3096	65.400	65.000	-0.110	0.0	0.0	0.0
3120	65.400	65.000	-0.110	0.0	0.0	0.0
3144	65.400	65.000	-0.110	0.0	0.0	0.0
3168	65.400	65.000	-0.110	0.0	0.0	0.0
3192	65.400	65.000	-0.110	0.0	0.0	0.0
3216	65.400	65.000	-0.110	0.0	0.0	0.0
3240	65.400	65.000	-0.110	0.0	0.0	0.0
3264	65.400	65.000	-0.110	0.0	0.0	0.0
3288	65.400	65.000	-0.110	0.0	0.0	0.0
3312	65.400	65.000	-0.110	0.0	0.0	0.0
3336	65.400	65.000	-0.110	0.0	0.0	0.0
3360	65.400	65.000	-0.110	0.0	0.0	0.0
3384	65.400	65.000	-0.110	0.0	0.0	0.0
3408	65.400	65.000	-0.110	0.0	0.0	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.0	0.0
3480	65.400	65.000	-0.110	0.0	0.0	0.0
3504	65.400	65.000	-0.110	0.0	0.0	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0
4344	65.400	65.000	-0.110	0.0	0.0	0.0
4368	65.400	65.000	-0.110	0.0	0.0	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.447	-0.110	0.0	0.1	0.0
48	65.000	63.448	-0.110	0.0	0.1	0.0
72	65.000	63.448	-0.110	0.0	0.1	0.0
96	65.000	63.448	-0.110	0.0	0.1	0.0
120	65.000	63.448	-0.110	0.0	0.1	0.0
144	65.000	63.448	-0.110	0.0	0.1	0.0
168	65.000	63.448	-0.110	0.0	0.1	0.0
192	65.000	63.448	-0.110	0.0	0.1	0.0
216	65.000	63.448	-0.110	0.0	0.1	0.0
240	65.000	63.448	-0.110	0.0	0.1	0.0
264	65.000	63.448	-0.110	0.0	0.1	0.0
288	65.000	63.448	-0.110	0.0	0.1	0.0
312	65.000	63.448	-0.110	0.0	0.1	0.0
336	65.000	63.448	-0.110	0.0	0.1	0.0
360	65.000	63.448	-0.110	0.0	0.1	0.0
384	65.000	63.448	-0.110	0.0	0.1	0.0
408	65.000	63.448	-0.110	0.0	0.1	0.0
432	65.001	63.448	-0.109	0.0	0.1	0.0
456	65.001	63.448	-0.109	0.0	0.1	0.0
480	65.001	63.448	-0.109	0.0	0.1	0.0
504	65.001	63.449	-0.109	0.0	0.1	0.0
528	65.001	63.449	-0.109	0.0	0.1	0.0
552	65.001	63.449	-0.109	0.0	0.1	0.0
576	65.001	63.449	-0.109	0.0	0.1	0.0
600	65.001	63.449	-0.109	0.0	0.1	0.0
624	65.001	63.449	-0.109	0.0	0.1	0.0
648	65.001	63.449	-0.109	0.0	0.1	0.0
672	65.001	63.449	-0.109	0.0	0.1	0.0
696	65.001	63.449	-0.109	0.0	0.2	0.0
720	65.001	63.450	-0.109	0.0	0.2	0.0
744	65.001	63.450	-0.109	0.0	0.2	0.0
768	65.001	63.450	-0.109	0.0	0.2	0.0
792	65.001	63.450	-0.109	0.0	0.2	0.0
816	65.001	63.450	-0.109	0.0	0.2	0.0
840	65.001	63.451	-0.109	0.0	0.2	0.0
864	65.001	63.451	-0.109	0.0	0.2	0.0
888	65.001	63.451	-0.109	0.0	0.2	0.0
912	65.001	63.452	-0.109	0.0	0.2	0.1
936	65.001	63.452	-0.109	0.0	0.2	0.1
960	65.001	63.453	-0.109	0.0	0.2	0.1
984	65.001	63.453	-0.109	0.0	0.3	0.1
1008	65.001	63.453	-0.109	0.0	0.3	0.1
1032	65.001	63.454	-0.109	0.0	0.3	0.1
1056	65.001	63.455	-0.109	0.0	0.3	0.1
1080	65.001	63.456	-0.109	0.0	0.3	0.1
1104	65.002	63.456	-0.108	0.0	0.4	0.1
1128	65.002	63.456	-0.108	0.0	0.4	0.1
1152	65.002	63.457	-0.108	0.0	0.4	0.1
1176	65.002	63.457	-0.108	0.0	0.5	0.1
1200	65.002	63.458	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.003	63.458	-0.107	0.0	0.6	0.1
1248	65.003	63.459	-0.107	0.0	0.6	0.2
1272	65.003	63.459	-0.107	0.0	0.7	0.2
1296	65.003	63.460	-0.107	0.0	0.7	0.2
1320	65.003	63.461	-0.107	0.0	0.8	0.2
1344	65.004	63.461	-0.106	0.0	0.9	0.2
1368	65.004	63.462	-0.106	0.0	0.9	0.2
1392	65.004	63.463	-0.106	0.0	1.0	0.2
1416	65.005	63.464	-0.105	0.0	1.1	0.3
1440	65.005	63.474	-0.105	0.0	1.2	0.3
1464	65.005	63.492	-0.105	0.0	1.2	0.3
1488	65.005	63.510	-0.105	0.0	1.1	0.3
1512	65.004	63.526	-0.106	0.0	1.0	0.2
1536	65.004	63.541	-0.106	0.0	0.9	0.2
1560	65.004	63.555	-0.106	0.0	0.9	0.2
1584	65.003	63.568	-0.107	0.0	0.8	0.2
1608	65.003	63.579	-0.107	0.0	0.7	0.2
1632	65.003	63.589	-0.107	0.0	0.7	0.2
1656	65.003	63.598	-0.107	0.0	0.6	0.2
1680	65.003	63.606	-0.107	0.0	0.6	0.1
1704	65.002	63.613	-0.108	0.0	0.5	0.1
1728	65.002	63.619	-0.108	0.0	0.5	0.1
1752	65.002	63.625	-0.108	0.0	0.5	0.1
1776	65.002	63.629	-0.108	0.0	0.4	0.1
1800	65.002	63.633	-0.108	0.0	0.4	0.1
1824	65.001	63.636	-0.109	0.0	0.4	0.1
1848	65.001	63.639	-0.109	0.0	0.3	0.1
1872	65.001	63.641	-0.109	0.0	0.3	0.1
1896	65.001	63.643	-0.109	0.0	0.3	0.1
1920	65.001	63.644	-0.109	0.0	0.3	0.1
1944	65.001	63.645	-0.109	0.0	0.2	0.1
1968	65.001	63.646	-0.109	0.0	0.2	0.1
1992	65.001	63.647	-0.109	0.0	0.2	0.1
2016	65.001	63.647	-0.109	0.0	0.2	0.0
2040	65.001	63.647	-0.109	0.0	0.2	0.0
2064	65.001	63.647	-0.109	0.0	0.2	0.0
2088	65.001	63.647	-0.109	0.0	0.2	0.0
2112	65.001	63.647	-0.109	0.0	0.2	0.0
2136	65.001	63.647	-0.109	0.0	0.2	0.0
2160	65.001	63.646	-0.109	0.0	0.2	0.0
2184	65.001	63.646	-0.109	0.0	0.2	0.0
2208	65.001	63.645	-0.109	0.0	0.2	0.0
2232	65.001	63.644	-0.109	0.0	0.1	0.0
2256	65.001	63.643	-0.109	0.0	0.1	0.0
2280	65.001	63.643	-0.109	0.0	0.1	0.0
2304	65.001	63.642	-0.109	0.0	0.1	0.0
2328	65.001	63.641	-0.109	0.0	0.1	0.0
2352	65.001	63.640	-0.109	0.0	0.1	0.0
2376	65.001	63.639	-0.109	0.0	0.1	0.0
2400	65.001	63.637	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.636	-0.109	0.0	0.1	0.0
2448	65.001	63.635	-0.109	0.0	0.1	0.0
2472	65.001	63.634	-0.109	0.0	0.1	0.0
2496	65.000	63.632	-0.110	0.0	0.1	0.0
2520	65.000	63.631	-0.110	0.0	0.1	0.0
2544	65.000	63.630	-0.110	0.0	0.1	0.0
2568	65.000	63.628	-0.110	0.0	0.1	0.0
2592	65.000	63.627	-0.110	0.0	0.1	0.0
2616	65.000	63.625	-0.110	0.0	0.1	0.0
2640	65.000	63.624	-0.110	0.0	0.1	0.0
2664	65.000	63.622	-0.110	0.0	0.1	0.0
2688	65.000	63.621	-0.110	0.0	0.1	0.0
2712	65.000	63.619	-0.110	0.0	0.1	0.0
2736	65.000	63.618	-0.110	0.0	0.1	0.0
2760	65.000	63.616	-0.110	0.0	0.1	0.0
2784	65.000	63.615	-0.110	0.0	0.1	0.0
2808	65.000	63.613	-0.110	0.0	0.1	0.0
2832	65.000	63.611	-0.110	0.0	0.1	0.0
2856	65.000	63.610	-0.110	0.0	0.1	0.0
2880	65.000	63.608	-0.110	0.0	0.1	0.0
2904	65.000	63.605	-0.110	0.0	0.0	0.0
2928	65.000	63.601	-0.110	0.0	0.0	0.0
2952	65.000	63.597	-0.110	0.0	0.0	0.0
2976	65.000	63.593	-0.110	0.0	0.0	0.0
3000	65.000	63.590	-0.110	0.0	0.0	0.0
3024	65.000	63.586	-0.110	0.0	0.0	0.0
3048	65.000	63.583	-0.110	0.0	0.0	0.0
3072	65.000	63.579	-0.110	0.0	0.0	0.0
3096	65.000	63.575	-0.110	0.0	0.0	0.0
3120	65.000	63.572	-0.110	0.0	0.0	0.0
3144	65.000	63.568	-0.110	0.0	0.0	0.0
3168	65.000	63.565	-0.110	0.0	0.0	0.0
3192	65.000	63.561	-0.110	0.0	0.0	0.0
3216	65.000	63.558	-0.110	0.0	0.0	0.0
3240	65.000	63.554	-0.110	0.0	0.0	0.0
3264	65.000	63.551	-0.110	0.0	0.0	0.0
3288	65.000	63.548	-0.110	0.0	0.0	0.0
3312	65.000	63.544	-0.110	0.0	0.0	0.0
3336	65.000	63.540	-0.110	0.0	0.0	0.0
3360	65.000	63.537	-0.110	0.0	0.0	0.0
3384	65.000	63.534	-0.110	0.0	0.0	0.0
3408	65.000	63.530	-0.110	0.0	0.0	0.0
3432	65.000	63.527	-0.110	0.0	0.0	0.0
3456	65.000	63.523	-0.110	0.0	0.0	0.0
3480	65.000	63.520	-0.110	0.0	0.0	0.0
3504	65.000	63.517	-0.110	0.0	0.0	0.0
3528	65.000	63.513	-0.110	0.0	0.0	0.0
3552	65.000	63.510	-0.110	0.0	0.0	0.0
3576	65.000	63.506	-0.110	0.0	0.0	0.0
3600	65.000	63.503	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.500	-0.110	0.0	0.0	0.0
3648	65.000	63.496	-0.110	0.0	0.0	0.0
3672	65.000	63.493	-0.110	0.0	0.0	0.0
3696	65.000	63.490	-0.110	0.0	0.0	0.0
3720	65.000	63.486	-0.110	0.0	0.0	0.0
3744	65.000	63.483	-0.110	0.0	0.0	0.0
3768	65.000	63.480	-0.110	0.0	0.0	0.0
3792	65.000	63.477	-0.110	0.0	0.0	0.0
3816	65.000	63.473	-0.110	0.0	0.0	0.0
3840	65.000	63.470	-0.110	0.0	0.0	0.0
3864	65.000	63.466	-0.110	0.0	0.0	0.0
3888	65.000	63.464	-0.110	0.0	0.0	0.0
3912	65.000	63.461	-0.110	0.0	0.0	0.0
3936	65.000	63.457	-0.110	0.0	0.0	0.0
3960	65.000	63.454	-0.110	0.0	0.0	0.0
3984	65.000	63.449	-0.110	0.0	0.0	0.0
4008	65.000	63.446	-0.110	0.0	0.0	0.0
4032	65.000	63.444	-0.110	0.0	0.0	0.0
4056	65.000	63.444	-0.110	0.0	0.0	0.0
4080	65.000	63.444	-0.110	0.0	0.0	0.0
4104	65.000	63.444	-0.110	0.0	0.0	0.0
4128	65.000	63.444	-0.110	0.0	0.0	0.0
4152	65.000	63.444	-0.110	0.0	0.0	0.0
4176	65.000	63.444	-0.110	0.0	0.0	0.0
4200	65.000	63.444	-0.110	0.0	0.0	0.0
4224	65.000	63.444	-0.110	0.0	0.0	0.0
4248	65.000	63.444	-0.110	0.0	0.0	0.0
4272	65.000	63.444	-0.110	0.0	0.0	0.0
4296	65.000	63.444	-0.110	0.0	0.0	0.0
4320	65.000	63.444	-0.110	0.0	0.0	0.0
4344	65.000	63.444	-0.110	0.0	0.0	0.0
4368	65.000	63.444	-0.110	0.0	0.0	0.0
4392	65.000	63.444	-0.110	0.0	0.0	0.0
4416	65.000	63.444	-0.110	0.0	0.0	0.0
4440	65.000	63.444	-0.110	0.0	0.0	0.0
4464	65.000	63.444	-0.110	0.0	0.0	0.0
4488	65.000	63.444	-0.110	0.0	0.0	0.0
4512	65.000	63.444	-0.110	0.0	0.0	0.0
4536	65.000	63.444	-0.110	0.0	0.0	0.0
4560	65.000	63.444	-0.110	0.0	0.0	0.0
4584	65.000	63.444	-0.110	0.0	0.0	0.0
4608	65.000	63.444	-0.110	0.0	0.0	0.0
4632	65.000	63.444	-0.110	0.0	0.0	0.0
4656	65.000	63.444	-0.110	0.0	0.0	0.0
4680	65.000	63.444	-0.110	0.0	0.0	0.0
4704	65.000	63.444	-0.110	0.0	0.0	0.0
4728	65.000	63.444	-0.110	0.0	0.0	0.0
4752	65.000	63.444	-0.110	0.0	0.0	0.0
4776	65.000	63.444	-0.110	0.0	0.0	0.0
4800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.444	-0.110	0.0	0.0	0.0
4848	65.000	63.444	-0.110	0.0	0.0	0.0
4872	65.000	63.444	-0.110	0.0	0.0	0.0
4896	65.000	63.444	-0.110	0.0	0.0	0.0
4920	65.000	63.444	-0.110	0.0	0.0	0.0
4944	65.000	63.444	-0.110	0.0	0.0	0.0
4968	65.000	63.444	-0.110	0.0	0.0	0.0
4992	65.000	63.444	-0.110	0.0	0.0	0.0
5016	65.000	63.444	-0.110	0.0	0.0	0.0
5040	65.000	63.444	-0.110	0.0	0.0	0.0
5064	65.000	63.444	-0.110	0.0	0.0	0.0
5088	65.000	63.444	-0.110	0.0	0.0	0.0
5112	65.000	63.444	-0.110	0.0	0.0	0.0
5136	65.000	63.444	-0.110	0.0	0.0	0.0
5160	65.000	63.444	-0.110	0.0	0.0	0.0
5184	65.000	63.444	-0.110	0.0	0.0	0.0
5208	65.000	63.444	-0.110	0.0	0.0	0.0
5232	65.000	63.444	-0.110	0.0	0.0	0.0
5256	65.000	63.444	-0.110	0.0	0.0	0.0
5280	65.000	63.444	-0.110	0.0	0.0	0.0
5304	65.000	63.444	-0.110	0.0	0.0	0.0
5328	65.000	63.444	-0.110	0.0	0.0	0.0
5352	65.000	63.444	-0.110	0.0	0.0	0.0
5376	65.000	63.444	-0.110	0.0	0.0	0.0
5400	65.000	63.444	-0.110	0.0	0.0	0.0
5424	65.000	63.444	-0.110	0.0	0.0	0.0
5448	65.000	63.444	-0.110	0.0	0.0	0.0
5472	65.000	63.444	-0.110	0.0	0.0	0.0
5496	65.000	63.444	-0.110	0.0	0.0	0.0
5520	65.000	63.444	-0.110	0.0	0.0	0.0
5544	65.000	63.444	-0.110	0.0	0.0	0.0
5568	65.000	63.444	-0.110	0.0	0.0	0.0
5592	65.000	63.444	-0.110	0.0	0.0	0.0
5616	65.000	63.444	-0.110	0.0	0.0	0.0
5640	65.000	63.444	-0.110	0.0	0.0	0.0
5664	65.000	63.444	-0.110	0.0	0.0	0.0
5688	65.000	63.444	-0.110	0.0	0.0	0.0
5712	65.000	63.444	-0.110	0.0	0.0	0.0
5736	65.000	63.444	-0.110	0.0	0.0	0.0
5760	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.447	63.252	-0.107	0.0	0.2	0.0
48	63.448	63.254	-0.107	0.0	0.2	0.0
72	63.448	63.256	-0.107	0.0	0.2	0.0
96	63.448	63.257	-0.107	0.0	0.2	0.0
120	63.448	63.259	-0.106	0.0	0.2	0.0
144	63.448	63.260	-0.106	0.0	0.2	0.0
168	63.448	63.262	-0.106	0.0	0.2	0.0
192	63.448	63.263	-0.106	0.0	0.2	0.1
216	63.448	63.264	-0.106	0.0	0.2	0.1
240	63.448	63.265	-0.106	0.0	0.2	0.1
264	63.448	63.265	-0.106	0.0	0.2	0.1
288	63.448	63.266	-0.106	0.0	0.2	0.1
312	63.448	63.267	-0.106	0.0	0.2	0.1
336	63.448	63.267	-0.106	0.0	0.2	0.1
360	63.448	63.267	-0.106	0.0	0.2	0.1
384	63.448	63.268	-0.106	0.0	0.2	0.1
408	63.448	63.268	-0.106	0.0	0.2	0.1
432	63.448	63.268	-0.106	0.0	0.2	0.1
456	63.448	63.269	-0.106	0.0	0.2	0.1
480	63.448	63.269	-0.106	0.0	0.2	0.1
504	63.449	63.269	-0.106	0.0	0.3	0.1
528	63.449	63.270	-0.105	0.0	0.3	0.1
552	63.449	63.270	-0.105	0.0	0.3	0.1
576	63.449	63.270	-0.105	0.0	0.3	0.1
600	63.449	63.271	-0.105	0.0	0.3	0.1
624	63.449	63.271	-0.105	0.0	0.3	0.1
648	63.449	63.271	-0.105	0.0	0.3	0.1
672	63.449	63.272	-0.105	0.0	0.3	0.1
696	63.449	63.272	-0.105	0.0	0.3	0.1
720	63.450	63.272	-0.105	0.0	0.3	0.1
744	63.450	63.273	-0.104	0.0	0.3	0.1
768	63.450	63.273	-0.104	0.0	0.3	0.1
792	63.450	63.273	-0.104	0.0	0.3	0.1
816	63.450	63.274	-0.104	0.0	0.3	0.1
840	63.451	63.274	-0.104	0.0	0.4	0.1
864	63.451	63.275	-0.103	0.0	0.4	0.1
888	63.451	63.276	-0.103	0.0	0.4	0.1
912	63.452	63.277	-0.103	0.0	0.4	0.1
936	63.452	63.278	-0.102	0.0	0.4	0.1
960	63.453	63.279	-0.102	0.0	0.3	0.1
984	63.453	63.281	-0.101	0.0	0.4	0.1
1008	63.453	63.283	-0.101	0.0	0.3	0.1
1032	63.454	63.285	-0.100	0.0	0.3	0.1
1056	63.455	63.287	-0.099	0.0	0.3	0.2
1080	63.456	63.291	-0.099	0.0	0.3	0.2
1104	63.456	63.296	-0.098	0.0	0.3	0.2
1128	63.456	63.302	-0.098	0.0	0.3	0.2
1152	63.457	63.309	-0.097	0.0	0.4	0.2
1176	63.457	63.317	-0.097	0.0	0.4	0.2
1200	63.458	63.326	-0.096	0.0	0.4	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.458	63.335	-0.096	0.0	0.4	0.3
1248	63.459	63.345	-0.095	0.0	0.4	0.3
1272	63.459	63.356	-0.095	0.0	0.4	0.3
1296	63.460	63.370	-0.094	0.0	0.4	0.4
1320	63.461	63.386	-0.093	0.0	0.4	0.4
1344	63.461	63.401	-0.093	0.0	0.4	0.4
1368	63.462	63.417	-0.092	0.0	0.4	0.4
1392	63.463	63.435	-0.091	0.0	0.5	0.5
1416	63.464	63.452	-0.090	0.0	0.5	0.5
1440	63.474	63.471	-0.080	0.0	0.4	0.6
1464	63.492	63.490	-0.062	0.0	0.2	0.6
1488	63.510	63.508	-0.044	0.0	0.1	0.5
1512	63.526	63.525	-0.028	0.0	0.1	0.5
1536	63.541	63.540	-0.013	0.0	0.1	0.4
1560	63.555	63.554	0.001	0.0	0.0	0.4
1584	63.568	63.566	0.013	0.0	0.0	0.4
1608	63.579	63.578	0.025	0.0	0.0	0.4
1632	63.589	63.588	0.035	0.0	0.0	0.3
1656	63.598	63.597	0.044	0.0	0.0	0.3
1680	63.606	63.605	0.052	0.0	0.0	0.3
1704	63.613	63.612	0.059	0.0	0.0	0.3
1728	63.619	63.619	0.065	0.0	0.0	0.2
1752	63.625	63.624	0.071	0.0	0.0	0.2
1776	63.629	63.629	0.075	0.0	0.0	0.2
1800	63.633	63.632	0.079	0.0	0.0	0.2
1824	63.636	63.636	0.082	0.0	0.0	0.2
1848	63.639	63.638	0.085	0.0	0.0	0.2
1872	63.641	63.641	0.087	0.0	0.0	0.1
1896	63.643	63.642	0.089	0.0	0.0	0.1
1920	63.644	63.644	0.090	0.0	0.0	0.1
1944	63.645	63.645	0.091	0.0	0.0	0.1
1968	63.646	63.646	0.092	0.0	0.0	0.1
1992	63.647	63.646	0.093	0.0	0.0	0.1
2016	63.647	63.647	0.093	0.0	0.0	0.1
2040	63.647	63.647	0.093	0.0	0.0	0.1
2064	63.647	63.647	0.093	0.0	0.0	0.1
2088	63.647	63.647	0.093	0.0	0.0	0.1
2112	63.647	63.647	0.093	0.0	0.0	0.1
2136	63.647	63.646	0.092	0.0	0.0	0.1
2160	63.646	63.646	0.092	0.0	0.0	0.1
2184	63.646	63.645	0.091	0.0	0.0	0.1
2208	63.645	63.645	0.091	0.0	0.0	0.1
2232	63.644	63.644	0.090	0.0	0.0	0.1
2256	63.643	63.643	0.089	0.0	0.0	0.1
2280	63.643	63.642	0.088	0.0	0.0	0.1
2304	63.642	63.641	0.088	0.0	0.0	0.1
2328	63.641	63.640	0.087	0.0	0.0	0.1
2352	63.640	63.639	0.086	0.0	0.0	0.1
2376	63.639	63.638	0.084	0.0	0.0	0.1
2400	63.637	63.637	0.083	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.636	63.636	0.082	0.0	0.0	0.1
2448	63.635	63.635	0.081	0.0	0.0	0.1
2472	63.634	63.634	0.080	0.0	0.0	0.1
2496	63.632	63.632	0.078	0.0	0.0	0.1
2520	63.631	63.631	0.077	0.0	0.0	0.1
2544	63.630	63.630	0.076	0.0	0.0	0.1
2568	63.628	63.628	0.074	0.0	0.0	0.1
2592	63.627	63.627	0.073	0.0	0.0	0.1
2616	63.625	63.625	0.071	0.0	0.0	0.1
2640	63.624	63.624	0.070	0.0	0.0	0.1
2664	63.622	63.622	0.068	0.0	0.0	0.1
2688	63.621	63.621	0.067	0.0	0.0	0.1
2712	63.619	63.619	0.065	0.0	0.0	0.1
2736	63.618	63.618	0.064	0.0	0.0	0.1
2760	63.616	63.616	0.062	0.0	0.0	0.1
2784	63.615	63.614	0.060	0.0	0.0	0.0
2808	63.613	63.613	0.059	0.0	0.0	0.0
2832	63.611	63.611	0.057	0.0	0.0	0.0
2856	63.610	63.610	0.056	0.0	0.0	0.0
2880	63.608	63.608	0.054	0.0	0.0	0.0
2904	63.605	63.605	0.051	0.0	0.0	0.0
2928	63.601	63.601	0.047	0.0	0.0	0.0
2952	63.597	63.597	0.043	0.0	0.0	0.0
2976	63.593	63.593	0.039	0.0	0.0	0.0
3000	63.590	63.590	0.035	0.0	0.0	0.0
3024	63.586	63.586	0.032	0.0	0.0	0.0
3048	63.583	63.583	0.028	0.0	0.0	0.0
3072	63.579	63.579	0.025	0.0	0.0	0.0
3096	63.575	63.575	0.021	0.0	0.0	0.0
3120	63.572	63.572	0.018	0.0	0.0	0.0
3144	63.568	63.568	0.014	0.0	0.0	0.0
3168	63.565	63.565	0.011	0.0	0.0	0.0
3192	63.561	63.561	0.007	0.0	0.0	0.0
3216	63.558	63.558	0.004	0.0	0.0	0.0
3240	63.554	63.554	0.000	0.0	0.0	0.0
3264	63.551	63.551	-0.003	0.0	0.0	0.0
3288	63.548	63.547	-0.007	0.0	0.0	0.0
3312	63.544	63.544	-0.010	0.0	0.0	0.0
3336	63.540	63.540	-0.014	0.0	0.0	0.0
3360	63.537	63.537	-0.017	0.0	0.0	0.0
3384	63.534	63.534	-0.021	0.0	0.0	0.0
3408	63.530	63.530	-0.024	0.0	0.0	0.0
3432	63.527	63.527	-0.027	0.0	0.0	0.0
3456	63.523	63.523	-0.031	0.0	0.0	0.0
3480	63.520	63.520	-0.034	0.0	0.0	0.0
3504	63.517	63.517	-0.038	0.0	0.0	0.0
3528	63.513	63.513	-0.041	0.0	0.0	0.0
3552	63.510	63.510	-0.044	0.0	0.0	0.0
3576	63.506	63.507	-0.048	0.0	0.0	0.0
3600	63.503	63.503	-0.051	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.500	63.500	-0.054	0.0	0.0	0.0
3648	63.496	63.496	-0.058	0.0	0.0	0.0
3672	63.493	63.493	-0.061	0.0	0.0	0.0
3696	63.490	63.490	-0.065	0.0	0.0	0.0
3720	63.486	63.486	-0.068	0.0	0.0	0.0
3744	63.483	63.483	-0.071	0.0	0.0	0.0
3768	63.480	63.480	-0.074	0.0	0.0	0.0
3792	63.477	63.477	-0.077	0.0	0.0	0.0
3816	63.473	63.474	-0.081	0.0	0.0	0.0
3840	63.470	63.470	-0.084	0.0	0.0	0.0
3864	63.466	63.467	-0.088	0.0	0.0	0.0
3888	63.464	63.464	-0.091	0.0	0.0	0.0
3912	63.461	63.460	-0.093	0.0	0.0	0.0
3936	63.457	63.457	-0.097	0.0	0.0	0.0
3960	63.454	63.454	-0.100	0.0	0.0	0.0
3984	63.449	63.450	-0.105	0.0	0.0	0.0
4008	63.446	63.446	-0.108	0.0	0.0	0.0
4032	63.444	63.443	-0.110	0.0	0.0	0.0
4056	63.444	63.440	-0.110	0.0	0.0	0.0
4080	63.444	63.437	-0.110	0.0	0.0	0.0
4104	63.444	63.434	-0.110	0.0	0.0	0.0
4128	63.444	63.430	-0.110	0.0	0.0	0.0
4152	63.444	63.427	-0.110	0.0	0.0	0.0
4176	63.444	63.424	-0.110	0.0	0.0	0.0
4200	63.444	63.420	-0.110	0.0	0.0	0.0
4224	63.444	63.417	-0.110	0.0	0.0	0.0
4248	63.444	63.414	-0.110	0.0	0.0	0.0
4272	63.444	63.411	-0.110	0.0	0.0	0.0
4296	63.444	63.407	-0.110	0.0	0.0	0.0
4320	63.444	63.404	-0.110	0.0	0.0	0.0
4344	63.444	63.401	-0.110	0.0	0.0	0.0
4368	63.444	63.398	-0.110	0.0	0.0	0.0
4392	63.444	63.394	-0.110	0.0	0.0	0.0
4416	63.444	63.391	-0.110	0.0	0.0	0.0
4440	63.444	63.388	-0.110	0.0	0.0	0.0
4464	63.444	63.385	-0.110	0.0	0.0	0.0
4488	63.444	63.382	-0.110	0.0	0.0	0.0
4512	63.444	63.379	-0.110	0.0	0.0	0.0
4536	63.444	63.376	-0.110	0.0	0.0	0.0
4560	63.444	63.374	-0.110	0.0	0.0	0.0
4584	63.444	63.371	-0.110	0.0	0.0	0.0
4608	63.444	63.369	-0.110	0.0	0.0	0.0
4632	63.444	63.367	-0.110	0.0	0.0	0.0
4656	63.444	63.365	-0.110	0.0	0.0	0.0
4680	63.444	63.363	-0.110	0.0	0.0	0.0
4704	63.444	63.360	-0.110	0.0	0.0	0.0
4728	63.444	63.355	-0.110	0.0	0.0	0.0
4752	63.444	63.351	-0.110	0.0	0.0	0.0
4776	63.444	63.347	-0.110	0.0	0.0	0.0
4800	63.444	63.344	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.444	63.341	-0.110	0.0	0.0	0.0
4848	63.444	63.338	-0.110	0.0	0.0	0.0
4872	63.444	63.335	-0.110	0.0	0.0	0.0
4896	63.444	63.332	-0.110	0.0	0.0	0.0
4920	63.444	63.329	-0.110	0.0	0.0	0.0
4944	63.444	63.326	-0.110	0.0	0.0	0.0
4968	63.444	63.323	-0.110	0.0	0.0	0.0
4992	63.444	63.320	-0.110	0.0	0.0	0.0
5016	63.444	63.317	-0.110	0.0	0.0	0.0
5040	63.444	63.314	-0.110	0.0	0.0	0.0
5064	63.444	63.311	-0.110	0.0	0.0	0.0
5088	63.444	63.307	-0.110	0.0	0.0	0.0
5112	63.444	63.304	-0.110	0.0	0.0	0.0
5136	63.444	63.301	-0.110	0.0	0.0	0.0
5160	63.444	63.298	-0.110	0.0	0.0	0.0
5184	63.444	63.294	-0.110	0.0	0.0	0.0
5208	63.444	63.291	-0.110	0.0	0.0	0.0
5232	63.444	63.288	-0.110	0.0	0.0	0.0
5256	63.444	63.284	-0.110	0.0	0.0	0.0
5280	63.444	63.280	-0.110	0.0	0.0	0.0
5304	63.444	63.277	-0.110	0.0	0.0	0.0
5328	63.444	63.274	-0.110	0.0	0.0	0.0
5352	63.444	63.271	-0.110	0.0	0.0	0.0
5376	63.444	63.269	-0.110	0.0	0.0	0.0
5400	63.444	63.266	-0.110	0.0	0.0	0.0
5424	63.444	63.264	-0.110	0.0	0.0	0.0
5448	63.444	63.263	-0.110	0.0	0.0	0.0
5472	63.444	63.262	-0.110	0.0	0.0	0.0
5496	63.444	63.261	-0.110	0.0	0.0	0.0
5520	63.444	63.260	-0.110	0.0	0.0	0.0
5544	63.444	63.259	-0.110	0.0	0.0	0.0
5568	63.444	63.258	-0.110	0.0	0.0	0.0
5592	63.444	63.258	-0.110	0.0	0.0	0.0
5616	63.444	63.257	-0.110	0.0	0.0	0.0
5640	63.444	63.257	-0.110	0.0	0.0	0.0
5664	63.444	63.256	-0.110	0.0	0.0	0.0
5688	63.444	63.256	-0.110	0.0	0.0	0.0
5712	63.444	63.256	-0.110	0.0	0.0	0.0
5736	63.444	63.255	-0.110	0.0	0.0	0.0
5760	63.444	63.255	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.252	63.100	-0.108	0.0	0.0	0.0
48	63.254	63.101	-0.106	0.0	0.0	0.0
72	63.256	63.102	-0.104	0.0	0.0	0.0
96	63.257	63.104	-0.103	0.0	0.0	0.0
120	63.259	63.106	-0.101	0.0	0.1	0.0
144	63.260	63.110	-0.100	0.0	0.1	0.0
168	63.262	63.113	-0.098	0.0	0.1	0.0
192	63.263	63.116	-0.097	0.0	0.1	0.0
216	63.264	63.119	-0.096	0.0	0.1	0.0
240	63.265	63.122	-0.095	0.0	0.1	0.0
264	63.265	63.124	-0.095	0.0	0.2	0.0
288	63.266	63.127	-0.094	0.0	0.2	0.0
312	63.267	63.129	-0.093	0.0	0.2	0.0
336	63.267	63.131	-0.093	0.0	0.2	0.0
360	63.267	63.133	-0.093	0.0	0.2	0.0
384	63.268	63.135	-0.092	0.0	0.2	0.0
408	63.268	63.136	-0.092	0.0	0.2	0.0
432	63.268	63.137	-0.092	0.0	0.2	0.1
456	63.269	63.138	-0.091	0.0	0.2	0.1
480	63.269	63.140	-0.091	0.0	0.2	0.1
504	63.269	63.141	-0.091	0.0	0.2	0.1
528	63.270	63.142	-0.090	0.0	0.2	0.1
552	63.270	63.143	-0.090	0.0	0.2	0.1
576	63.270	63.144	-0.090	0.0	0.2	0.1
600	63.271	63.145	-0.089	0.0	0.2	0.1
624	63.271	63.146	-0.089	0.0	0.2	0.1
648	63.271	63.147	-0.089	0.0	0.2	0.1
672	63.272	63.148	-0.088	0.0	0.2	0.1
696	63.272	63.149	-0.088	0.0	0.2	0.1
720	63.272	63.150	-0.088	0.0	0.2	0.1
744	63.273	63.152	-0.087	0.0	0.2	0.1
768	63.273	63.154	-0.087	0.0	0.2	0.1
792	63.273	63.157	-0.087	0.0	0.2	0.1
816	63.274	63.161	-0.086	0.0	0.2	0.1
840	63.274	63.166	-0.086	0.0	0.3	0.1
864	63.275	63.171	-0.085	0.0	0.3	0.1
888	63.276	63.177	-0.084	0.0	0.3	0.1
912	63.277	63.184	-0.083	0.0	0.3	0.1
936	63.278	63.192	-0.082	0.0	0.3	0.1
960	63.279	63.200	-0.081	0.0	0.3	0.1
984	63.281	63.210	-0.079	0.0	0.3	0.1
1008	63.283	63.222	-0.077	0.0	0.3	0.1
1032	63.285	63.234	-0.075	0.0	0.3	0.1
1056	63.287	63.247	-0.073	0.0	0.3	0.1
1080	63.291	63.249	-0.069	0.0	0.2	0.1
1104	63.296	63.251	-0.064	0.0	0.2	0.1
1128	63.302	63.250	-0.058	0.0	0.2	0.1
1152	63.309	63.250	-0.051	0.0	0.2	0.1
1176	63.317	63.251	-0.043	0.0	0.2	0.1
1200	63.326	63.252	-0.034	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.335	63.256	-0.025	0.0	0.3	0.1
1248	63.345	63.263	-0.015	0.0	0.3	0.1
1272	63.356	63.270	-0.004	0.0	0.3	0.1
1296	63.370	63.265	0.010	0.0	0.2	0.1
1320	63.386	63.259	0.026	0.0	0.2	0.1
1344	63.401	63.263	0.041	0.0	0.3	0.1
1368	63.417	63.277	0.057	0.0	0.3	0.1
1392	63.435	63.303	0.075	0.0	0.3	0.1
1416	63.452	63.337	0.092	0.0	0.3	0.2
1440	63.471	63.373	0.111	0.0	0.3	0.2
1464	63.490	63.400	0.130	0.0	0.3	0.1
1488	63.508	63.423	0.148	0.0	0.1	0.1
1512	63.525	63.442	0.165	0.0	0.0	0.1
1536	63.540	63.460	0.180	0.0	0.0	0.1
1560	63.554	63.476	0.194	0.0	0.0	0.1
1584	63.566	63.490	0.206	0.0	0.0	0.1
1608	63.578	63.503	0.218	0.0	0.0	0.1
1632	63.588	63.514	0.228	0.0	0.0	0.1
1656	63.597	63.525	0.237	0.0	0.0	0.1
1680	63.605	63.534	0.245	0.0	0.0	0.1
1704	63.612	63.542	0.252	0.0	0.0	0.1
1728	63.619	63.550	0.259	0.0	0.0	0.1
1752	63.624	63.557	0.264	0.0	0.0	0.1
1776	63.629	63.562	0.269	0.0	0.0	0.1
1800	63.632	63.567	0.272	0.0	0.0	0.1
1824	63.636	63.571	0.276	0.0	0.0	0.1
1848	63.638	63.575	0.278	0.0	0.0	0.1
1872	63.641	63.578	0.281	0.0	0.0	0.1
1896	63.642	63.580	0.282	0.0	0.0	0.1
1920	63.644	63.582	0.284	0.0	0.0	0.1
1944	63.645	63.584	0.285	0.0	0.0	0.1
1968	63.646	63.585	0.286	0.0	0.0	0.1
1992	63.646	63.586	0.286	0.0	0.0	0.1
2016	63.647	63.587	0.287	0.0	0.0	0.1
2040	63.647	63.587	0.287	0.0	0.0	0.1
2064	63.647	63.588	0.287	0.0	0.0	0.1
2088	63.647	63.588	0.287	0.0	0.0	0.1
2112	63.647	63.588	0.287	0.0	0.0	0.1
2136	63.646	63.588	0.286	0.0	0.0	0.1
2160	63.646	63.587	0.286	0.0	0.0	0.1
2184	63.645	63.587	0.285	0.0	0.0	0.1
2208	63.645	63.586	0.285	0.0	0.0	0.1
2232	63.644	63.586	0.284	0.0	0.0	0.1
2256	63.643	63.585	0.283	0.0	0.0	0.1
2280	63.642	63.585	0.282	0.0	0.0	0.1
2304	63.641	63.584	0.281	0.0	0.0	0.1
2328	63.640	63.583	0.280	0.0	0.0	0.1
2352	63.639	63.582	0.279	0.0	0.0	0.1
2376	63.638	63.581	0.278	0.0	0.0	0.1
2400	63.637	63.580	0.277	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.636	63.579	0.276	0.0	0.0	0.1
2448	63.635	63.578	0.275	0.0	0.0	0.1
2472	63.634	63.577	0.274	0.0	0.0	0.1
2496	63.632	63.576	0.272	0.0	0.0	0.1
2520	63.631	63.574	0.271	0.0	0.0	0.1
2544	63.630	63.573	0.270	0.0	0.0	0.1
2568	63.628	63.572	0.268	0.0	0.0	0.1
2592	63.627	63.570	0.267	0.0	0.0	0.1
2616	63.625	63.569	0.265	0.0	0.0	0.1
2640	63.624	63.568	0.264	0.0	0.0	0.1
2664	63.622	63.566	0.262	0.0	0.0	0.1
2688	63.621	63.565	0.261	0.0	0.0	0.1
2712	63.619	63.563	0.259	0.0	0.0	0.1
2736	63.618	63.562	0.258	0.0	0.0	0.1
2760	63.616	63.560	0.256	0.0	0.0	0.1
2784	63.614	63.559	0.254	0.0	0.0	0.1
2808	63.613	63.557	0.253	0.0	0.0	0.1
2832	63.611	63.556	0.251	0.0	0.0	0.1
2856	63.610	63.554	0.250	0.0	0.0	0.1
2880	63.608	63.552	0.248	0.0	0.0	0.1
2904	63.605	63.551	0.245	0.0	0.0	0.1
2928	63.601	63.548	0.241	0.0	0.0	0.1
2952	63.597	63.544	0.237	0.0	0.0	0.1
2976	63.593	63.541	0.233	0.0	0.0	0.1
3000	63.590	63.538	0.230	0.0	0.0	0.1
3024	63.586	63.534	0.226	0.0	0.0	0.1
3048	63.583	63.531	0.223	0.0	0.0	0.1
3072	63.579	63.527	0.219	0.0	0.0	0.1
3096	63.575	63.524	0.215	0.0	0.0	0.1
3120	63.572	63.520	0.212	0.0	0.0	0.1
3144	63.568	63.517	0.208	0.0	0.0	0.1
3168	63.565	63.514	0.205	0.0	0.0	0.1
3192	63.561	63.510	0.201	0.0	0.0	0.1
3216	63.558	63.507	0.198	0.0	0.0	0.1
3240	63.554	63.503	0.194	0.0	0.0	0.1
3264	63.551	63.500	0.191	0.0	0.0	0.1
3288	63.547	63.497	0.187	0.0	0.0	0.1
3312	63.544	63.493	0.184	0.0	0.0	0.1
3336	63.540	63.490	0.180	0.0	0.0	0.1
3360	63.537	63.487	0.177	0.0	0.0	0.1
3384	63.534	63.483	0.174	0.0	0.0	0.1
3408	63.530	63.480	0.170	0.0	0.0	0.1
3432	63.527	63.477	0.167	0.0	0.0	0.1
3456	63.523	63.473	0.163	0.0	0.0	0.1
3480	63.520	63.470	0.160	0.0	0.0	0.1
3504	63.517	63.467	0.157	0.0	0.0	0.1
3528	63.513	63.464	0.153	0.0	0.0	0.1
3552	63.510	63.460	0.150	0.0	0.0	0.1
3576	63.507	63.457	0.147	0.0	0.0	0.1
3600	63.503	63.454	0.143	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.500	63.451	0.140	0.0	0.0	0.1
3648	63.496	63.447	0.136	0.0	0.0	0.1
3672	63.493	63.444	0.133	0.0	0.0	0.1
3696	63.490	63.441	0.130	0.0	0.0	0.1
3720	63.486	63.438	0.126	0.0	0.0	0.1
3744	63.483	63.434	0.123	0.0	0.0	0.1
3768	63.480	63.432	0.120	0.0	0.0	0.1
3792	63.477	63.428	0.117	0.0	0.0	0.1
3816	63.474	63.425	0.114	0.0	0.0	0.1
3840	63.470	63.422	0.110	0.0	0.0	0.1
3864	63.467	63.419	0.107	0.0	0.0	0.1
3888	63.464	63.416	0.104	0.0	0.0	0.1
3912	63.460	63.412	0.100	0.0	0.0	0.1
3936	63.457	63.409	0.097	0.0	0.1	0.1
3960	63.454	63.406	0.094	0.0	0.1	0.1
3984	63.450	63.402	0.090	0.0	0.1	0.1
4008	63.446	63.399	0.086	0.0	0.2	0.1
4032	63.443	63.396	0.083	0.0	0.2	0.1
4056	63.440	63.393	0.080	0.0	0.2	0.1
4080	63.437	63.390	0.077	0.0	0.2	0.1
4104	63.434	63.387	0.074	0.0	0.2	0.1
4128	63.430	63.383	0.070	0.0	0.2	0.1
4152	63.427	63.380	0.067	0.0	0.2	0.1
4176	63.424	63.377	0.064	0.0	0.2	0.1
4200	63.420	63.374	0.060	0.0	0.2	0.1
4224	63.417	63.371	0.057	0.0	0.2	0.1
4248	63.414	63.367	0.054	0.0	0.2	0.1
4272	63.411	63.364	0.051	0.0	0.2	0.1
4296	63.407	63.361	0.047	0.0	0.2	0.1
4320	63.404	63.358	0.044	0.0	0.2	0.1
4344	63.401	63.355	0.041	0.0	0.2	0.1
4368	63.398	63.352	0.038	0.0	0.2	0.1
4392	63.394	63.348	0.034	0.0	0.2	0.1
4416	63.391	63.345	0.031	0.0	0.2	0.1
4440	63.388	63.340	0.028	0.0	0.2	0.1
4464	63.385	63.335	0.025	0.0	0.2	0.1
4488	63.382	63.330	0.022	0.0	0.2	0.1
4512	63.379	63.325	0.019	0.0	0.2	0.1
4536	63.376	63.318	0.016	0.0	0.2	0.1
4560	63.374	63.310	0.014	0.0	0.2	0.1
4584	63.371	63.300	0.011	0.0	0.2	0.1
4608	63.369	63.287	0.009	0.0	0.2	0.0
4632	63.367	63.275	0.007	0.0	0.2	0.0
4656	63.365	63.262	0.005	0.0	0.2	0.0
4680	63.363	63.251	0.003	0.0	0.2	0.1
4704	63.360	63.251	0.000	0.0	0.2	0.1
4728	63.355	63.266	-0.005	0.0	0.3	0.1
4752	63.351	63.273	-0.009	0.0	0.3	0.1
4776	63.347	63.276	-0.013	0.0	0.3	0.1
4800	63.344	63.277	-0.016	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.341	63.276	-0.019	0.0	0.2	0.1
4848	63.338	63.275	-0.022	0.0	0.2	0.1
4872	63.335	63.272	-0.025	0.0	0.2	0.1
4896	63.332	63.270	-0.028	0.0	0.2	0.1
4920	63.329	63.267	-0.031	0.0	0.2	0.1
4944	63.326	63.265	-0.034	0.0	0.2	0.1
4968	63.323	63.262	-0.037	0.0	0.2	0.1
4992	63.320	63.259	-0.040	0.0	0.2	0.1
5016	63.317	63.256	-0.043	0.0	0.2	0.1
5040	63.314	63.254	-0.046	0.0	0.2	0.1
5064	63.311	63.251	-0.049	0.0	0.2	0.1
5088	63.307	63.252	-0.053	0.0	0.2	0.1
5112	63.304	63.252	-0.056	0.0	0.2	0.1
5136	63.301	63.251	-0.059	0.0	0.2	0.1
5160	63.298	63.251	-0.062	0.0	0.2	0.1
5184	63.294	63.254	-0.066	0.0	0.2	0.1
5208	63.291	63.252	-0.069	0.0	0.2	0.1
5232	63.288	63.249	-0.072	0.0	0.2	0.1
5256	63.284	63.250	-0.076	0.0	0.2	0.1
5280	63.280	63.250	-0.080	0.0	0.2	0.1
5304	63.277	63.250	-0.083	0.0	0.2	0.1
5328	63.274	63.249	-0.086	0.0	0.2	0.1
5352	63.271	63.249	-0.089	0.0	0.2	0.1
5376	63.269	63.245	-0.091	0.0	0.2	0.1
5400	63.266	63.236	-0.094	0.0	0.2	0.0
5424	63.264	63.221	-0.096	0.0	0.2	0.0
5448	63.263	63.206	-0.097	0.0	0.1	0.0
5472	63.262	63.190	-0.098	0.0	0.1	0.0
5496	63.261	63.172	-0.099	0.0	0.1	0.0
5520	63.260	63.153	-0.100	0.0	0.1	0.0
5544	63.259	63.135	-0.101	0.0	0.1	0.0
5568	63.258	63.125	-0.102	0.0	0.1	0.0
5592	63.258	63.119	-0.102	0.0	0.0	0.0
5616	63.257	63.114	-0.103	0.0	0.0	0.0
5640	63.257	63.112	-0.103	0.0	0.0	0.0
5664	63.256	63.109	-0.104	0.0	0.0	0.0
5688	63.256	63.108	-0.104	0.0	0.0	0.0
5712	63.256	63.107	-0.104	0.0	0.0	0.0
5736	63.255	63.106	-0.105	0.0	0.0	0.0
5760	63.255	63.105	-0.105	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.101	63.096	-0.109	0.0	0.0	0.0
72	63.102	63.096	-0.108	0.0	0.0	0.0
96	63.104	63.096	-0.106	0.0	0.0	0.0
120	63.106	63.096	-0.104	0.0	0.0	0.0
144	63.110	63.096	-0.100	0.0	0.0	0.0
168	63.113	63.096	-0.097	0.0	0.0	0.0
192	63.116	63.096	-0.094	0.0	0.0	0.0
216	63.119	63.096	-0.091	0.0	0.0	0.0
240	63.122	63.096	-0.088	0.0	0.0	0.0
264	63.124	63.096	-0.086	0.0	0.0	0.0
288	63.127	63.096	-0.083	0.0	0.0	0.0
312	63.129	63.096	-0.081	0.0	0.0	0.0
336	63.131	63.096	-0.079	0.0	0.0	0.0
360	63.133	63.096	-0.077	0.0	0.0	0.0
384	63.135	63.096	-0.075	0.0	0.0	0.0
408	63.136	63.096	-0.074	0.0	0.0	0.0
432	63.137	63.096	-0.073	0.0	0.0	0.0
456	63.138	63.096	-0.072	0.0	0.0	0.0
480	63.140	63.096	-0.070	0.0	0.0	0.0
504	63.141	63.096	-0.069	0.0	0.0	0.0
528	63.142	63.096	-0.068	0.0	0.0	0.0
552	63.143	63.096	-0.067	0.0	0.0	0.0
576	63.144	63.096	-0.066	0.0	0.0	0.0
600	63.145	63.096	-0.065	0.0	0.0	0.0
624	63.146	63.096	-0.064	0.0	0.0	0.0
648	63.147	63.096	-0.063	0.0	0.0	0.0
672	63.148	63.096	-0.062	0.0	0.0	0.0
696	63.149	63.096	-0.061	0.0	0.0	0.0
720	63.150	63.096	-0.060	0.0	0.0	0.0
744	63.152	63.096	-0.058	0.0	0.0	0.0
768	63.154	63.096	-0.056	0.0	0.0	0.0
792	63.157	63.096	-0.053	0.0	0.0	0.0
816	63.161	63.096	-0.049	0.0	0.0	0.0
840	63.166	63.096	-0.044	0.0	0.0	0.0
864	63.171	63.096	-0.039	0.0	0.0	0.0
888	63.177	63.096	-0.033	0.0	0.0	0.0
912	63.184	63.096	-0.026	0.0	0.0	0.0
936	63.192	63.096	-0.018	0.0	0.0	0.0
960	63.200	63.096	-0.010	0.0	0.0	0.0
984	63.210	63.096	0.000	0.0	0.0	0.0
1008	63.222	63.096	0.012	0.0	0.0	0.0
1032	63.234	63.096	0.024	0.0	0.0	0.0
1056	63.247	63.096	0.037	0.0	0.0	0.0
1080	63.249	63.096	0.039	0.0	0.0	0.0
1104	63.251	63.096	0.041	0.0	0.0	0.0
1128	63.250	63.096	0.040	0.0	0.0	0.0
1152	63.250	63.096	0.040	0.0	0.0	0.0
1176	63.251	63.096	0.041	0.0	0.0	0.0
1200	63.252	63.096	0.042	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.256	63.096	0.046	0.0	0.0	0.0
1248	63.263	63.096	0.053	0.0	0.0	0.0
1272	63.270	63.096	0.060	0.0	0.0	0.0
1296	63.265	63.096	0.055	0.0	0.0	0.0
1320	63.259	63.096	0.049	0.0	0.0	0.0
1344	63.263	63.096	0.053	0.0	0.0	0.0
1368	63.277	63.096	0.067	0.0	0.0	0.0
1392	63.303	63.096	0.093	0.0	0.0	0.0
1416	63.337	63.096	0.127	0.0	0.0	0.0
1440	63.373	63.096	0.163	0.0	0.1	0.0
1464	63.400	63.096	0.190	0.0	0.1	0.0
1488	63.423	63.096	0.213	0.0	0.1	0.0
1512	63.442	63.096	0.232	0.0	0.1	0.0
1536	63.460	63.096	0.250	0.0	0.1	0.0
1560	63.476	63.096	0.266	0.0	0.1	0.0
1584	63.490	63.096	0.280	0.0	0.1	0.0
1608	63.503	63.096	0.293	0.0	0.1	0.0
1632	63.514	63.096	0.304	0.0	0.1	0.0
1656	63.525	63.096	0.315	0.0	0.1	0.0
1680	63.534	63.096	0.324	0.0	0.1	0.0
1704	63.542	63.096	0.332	0.0	0.1	0.0
1728	63.550	63.096	0.340	0.0	0.1	0.0
1752	63.557	63.096	0.347	0.0	0.1	0.0
1776	63.562	63.096	0.352	0.0	0.1	0.0
1800	63.567	63.096	0.357	0.0	0.1	0.0
1824	63.571	63.096	0.361	0.0	0.1	0.0
1848	63.575	63.096	0.365	0.0	0.1	0.0
1872	63.578	63.096	0.368	0.0	0.1	0.0
1896	63.580	63.096	0.370	0.0	0.1	0.0
1920	63.582	63.096	0.372	0.0	0.1	0.0
1944	63.584	63.096	0.374	0.0	0.1	0.0
1968	63.585	63.096	0.375	0.0	0.1	0.0
1992	63.586	63.096	0.376	0.0	0.1	0.0
2016	63.587	63.096	0.377	0.0	0.1	0.0
2040	63.587	63.096	0.377	0.0	0.1	0.0
2064	63.588	63.096	0.378	0.0	0.1	0.0
2088	63.588	63.096	0.378	0.0	0.1	0.0
2112	63.588	63.096	0.378	0.0	0.1	0.0
2136	63.588	63.096	0.378	0.0	0.1	0.0
2160	63.587	63.096	0.377	0.0	0.1	0.0
2184	63.587	63.096	0.377	0.0	0.1	0.0
2208	63.586	63.096	0.376	0.0	0.1	0.0
2232	63.586	63.096	0.376	0.0	0.1	0.0
2256	63.585	63.096	0.375	0.0	0.1	0.0
2280	63.585	63.096	0.375	0.0	0.1	0.0
2304	63.584	63.096	0.374	0.0	0.1	0.0
2328	63.583	63.096	0.373	0.0	0.1	0.0
2352	63.582	63.096	0.372	0.0	0.1	0.0
2376	63.581	63.096	0.371	0.0	0.1	0.0
2400	63.580	63.096	0.370	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.579	63.096	0.369	0.0	0.1	0.0
2448	63.578	63.096	0.368	0.0	0.1	0.0
2472	63.577	63.096	0.367	0.0	0.1	0.0
2496	63.576	63.096	0.366	0.0	0.1	0.0
2520	63.574	63.096	0.364	0.0	0.1	0.0
2544	63.573	63.096	0.363	0.0	0.1	0.0
2568	63.572	63.096	0.362	0.0	0.1	0.0
2592	63.570	63.096	0.360	0.0	0.1	0.0
2616	63.569	63.096	0.359	0.0	0.1	0.0
2640	63.568	63.096	0.358	0.0	0.1	0.0
2664	63.566	63.096	0.356	0.0	0.1	0.0
2688	63.565	63.096	0.355	0.0	0.1	0.0
2712	63.563	63.096	0.353	0.0	0.1	0.0
2736	63.562	63.096	0.352	0.0	0.1	0.0
2760	63.560	63.096	0.350	0.0	0.1	0.0
2784	63.559	63.096	0.349	0.0	0.1	0.0
2808	63.557	63.096	0.347	0.0	0.1	0.0
2832	63.556	63.096	0.346	0.0	0.1	0.0
2856	63.554	63.096	0.344	0.0	0.1	0.0
2880	63.552	63.096	0.342	0.0	0.1	0.0
2904	63.551	63.096	0.341	0.0	0.1	0.0
2928	63.548	63.096	0.338	0.0	0.1	0.0
2952	63.544	63.096	0.334	0.0	0.1	0.0
2976	63.541	63.096	0.331	0.0	0.1	0.0
3000	63.538	63.096	0.328	0.0	0.1	0.0
3024	63.534	63.096	0.324	0.0	0.1	0.0
3048	63.531	63.096	0.321	0.0	0.1	0.0
3072	63.527	63.096	0.317	0.0	0.1	0.0
3096	63.524	63.096	0.314	0.0	0.1	0.0
3120	63.520	63.096	0.310	0.0	0.1	0.0
3144	63.517	63.096	0.307	0.0	0.1	0.0
3168	63.514	63.096	0.304	0.0	0.1	0.0
3192	63.510	63.096	0.300	0.0	0.1	0.0
3216	63.507	63.096	0.297	0.0	0.1	0.0
3240	63.503	63.096	0.293	0.0	0.1	0.0
3264	63.500	63.096	0.290	0.0	0.1	0.0
3288	63.497	63.096	0.287	0.0	0.1	0.0
3312	63.493	63.096	0.283	0.0	0.1	0.0
3336	63.490	63.096	0.280	0.0	0.1	0.0
3360	63.487	63.096	0.277	0.0	0.1	0.0
3384	63.483	63.096	0.273	0.0	0.1	0.0
3408	63.480	63.096	0.270	0.0	0.1	0.0
3432	63.477	63.096	0.267	0.0	0.1	0.0
3456	63.473	63.096	0.263	0.0	0.1	0.0
3480	63.470	63.096	0.260	0.0	0.1	0.0
3504	63.467	63.096	0.257	0.0	0.1	0.0
3528	63.464	63.096	0.254	0.0	0.1	0.0
3552	63.460	63.096	0.250	0.0	0.1	0.0
3576	63.457	63.096	0.247	0.0	0.1	0.0
3600	63.454	63.096	0.244	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.451	63.096	0.241	0.0	0.1	0.0
3648	63.447	63.096	0.237	0.0	0.1	0.0
3672	63.444	63.096	0.234	0.0	0.1	0.0
3696	63.441	63.096	0.231	0.0	0.1	0.0
3720	63.438	63.096	0.228	0.0	0.1	0.0
3744	63.434	63.096	0.224	0.0	0.1	0.0
3768	63.432	63.096	0.222	0.0	0.1	0.0
3792	63.428	63.096	0.218	0.0	0.1	0.0
3816	63.425	63.096	0.215	0.0	0.1	0.0
3840	63.422	63.096	0.212	0.0	0.1	0.0
3864	63.419	63.096	0.209	0.0	0.1	0.0
3888	63.416	63.096	0.206	0.0	0.1	0.0
3912	63.412	63.096	0.202	0.0	0.1	0.0
3936	63.409	63.096	0.199	0.0	0.1	0.0
3960	63.406	63.096	0.196	0.0	0.1	0.0
3984	63.402	63.096	0.192	0.0	0.1	0.0
4008	63.399	63.096	0.189	0.0	0.1	0.0
4032	63.396	63.096	0.186	0.0	0.1	0.0
4056	63.393	63.096	0.183	0.0	0.1	0.0
4080	63.390	63.096	0.180	0.0	0.1	0.0
4104	63.387	63.096	0.177	0.0	0.1	0.0
4128	63.383	63.096	0.173	0.0	0.1	0.0
4152	63.380	63.096	0.170	0.0	0.1	0.0
4176	63.377	63.096	0.167	0.0	0.1	0.0
4200	63.374	63.096	0.164	0.0	0.1	0.0
4224	63.371	63.096	0.161	0.0	0.1	0.0
4248	63.367	63.096	0.157	0.0	0.1	0.0
4272	63.364	63.096	0.154	0.0	0.1	0.0
4296	63.361	63.096	0.151	0.0	0.1	0.0
4320	63.358	63.096	0.148	0.0	0.1	0.0
4344	63.355	63.096	0.145	0.0	0.1	0.0
4368	63.352	63.096	0.142	0.0	0.1	0.0
4392	63.348	63.096	0.138	0.0	0.1	0.0
4416	63.345	63.096	0.135	0.0	0.1	0.0
4440	63.340	63.096	0.130	0.0	0.1	0.0
4464	63.335	63.096	0.125	0.0	0.1	0.0
4488	63.330	63.096	0.120	0.0	0.1	0.0
4512	63.325	63.096	0.115	0.0	0.1	0.0
4536	63.318	63.096	0.108	0.0	0.0	0.0
4560	63.310	63.096	0.100	0.0	0.0	0.0
4584	63.300	63.096	0.090	0.0	0.0	0.0
4608	63.287	63.096	0.077	0.0	0.0	0.0
4632	63.275	63.096	0.065	0.0	0.0	0.0
4656	63.262	63.096	0.052	0.0	0.0	0.0
4680	63.251	63.096	0.041	0.0	0.0	0.0
4704	63.251	63.096	0.041	0.0	0.0	0.0
4728	63.266	63.096	0.056	0.0	0.0	0.0
4752	63.273	63.096	0.063	0.0	0.0	0.0
4776	63.276	63.096	0.066	0.0	0.0	0.0
4800	63.277	63.096	0.067	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Summer
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.276	63.096	0.066	0.0	0.0	0.0
4848	63.275	63.096	0.065	0.0	0.0	0.0
4872	63.272	63.096	0.062	0.0	0.0	0.0
4896	63.270	63.096	0.060	0.0	0.0	0.0
4920	63.267	63.096	0.057	0.0	0.0	0.0
4944	63.265	63.096	0.055	0.0	0.0	0.0
4968	63.262	63.096	0.052	0.0	0.0	0.0
4992	63.259	63.096	0.049	0.0	0.0	0.0
5016	63.256	63.096	0.046	0.0	0.0	0.0
5040	63.254	63.096	0.044	0.0	0.0	0.0
5064	63.251	63.096	0.041	0.0	0.0	0.0
5088	63.252	63.096	0.042	0.0	0.0	0.0
5112	63.252	63.096	0.042	0.0	0.0	0.0
5136	63.251	63.096	0.041	0.0	0.0	0.0
5160	63.251	63.096	0.041	0.0	0.0	0.0
5184	63.254	63.096	0.044	0.0	0.0	0.0
5208	63.252	63.096	0.042	0.0	0.0	0.0
5232	63.249	63.096	0.039	0.0	0.0	0.0
5256	63.250	63.096	0.040	0.0	0.0	0.0
5280	63.250	63.096	0.040	0.0	0.0	0.0
5304	63.250	63.096	0.040	0.0	0.0	0.0
5328	63.249	63.096	0.039	0.0	0.0	0.0
5352	63.249	63.096	0.039	0.0	0.0	0.0
5376	63.245	63.096	0.035	0.0	0.0	0.0
5400	63.236	63.096	0.026	0.0	0.0	0.0
5424	63.221	63.096	0.011	0.0	0.0	0.0
5448	63.206	63.096	-0.004	0.0	0.0	0.0
5472	63.190	63.096	-0.020	0.0	0.0	0.0
5496	63.172	63.096	-0.038	0.0	0.0	0.0
5520	63.153	63.096	-0.057	0.0	0.0	0.0
5544	63.135	63.096	-0.075	0.0	0.0	0.0
5568	63.125	63.096	-0.085	0.0	0.0	0.0
5592	63.119	63.096	-0.091	0.0	0.0	0.0
5616	63.114	63.096	-0.096	0.0	0.0	0.0
5640	63.112	63.096	-0.098	0.0	0.0	0.0
5664	63.109	63.096	-0.101	0.0	0.0	0.0
5688	63.108	63.096	-0.102	0.0	0.0	0.0
5712	63.107	63.096	-0.103	0.0	0.0	0.0
5736	63.106	63.096	-0.104	0.0	0.0	0.0
5760	63.105	63.096	-0.105	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	5760
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	2880
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

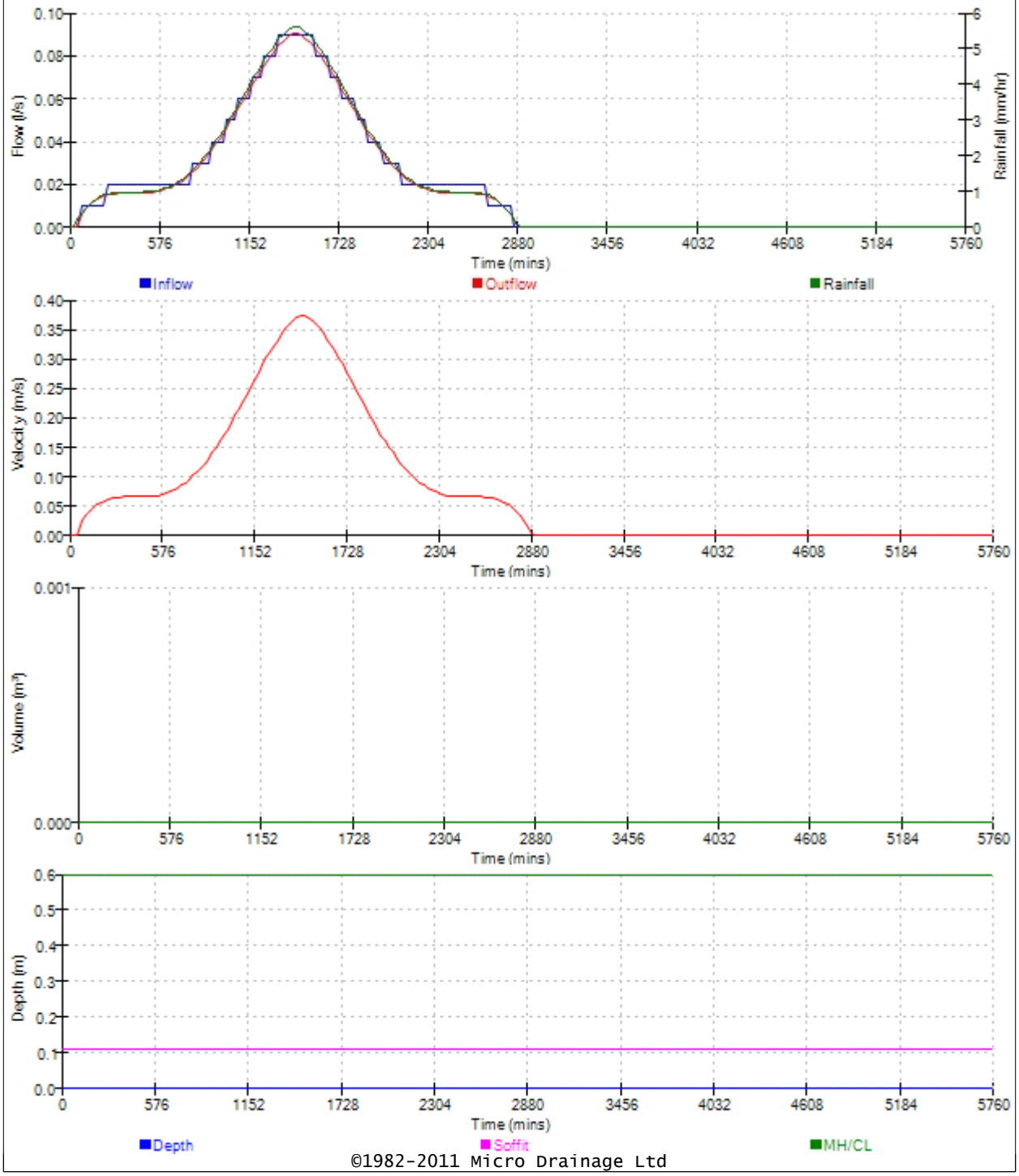
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Rainfall Hyetograph for 2880 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.073	600	1.086	1176	4.181	1752	3.961	2328	1.050
48	0.243	624	1.124	1200	4.353	1776	3.784	2352	1.029
72	0.391	648	1.169	1224	4.521	1800	3.607	2376	1.013
96	0.519	672	1.220	1248	4.684	1824	3.430	2400	1.001
120	0.627	696	1.280	1272	4.841	1848	3.256	2424	0.994
144	0.718	720	1.346	1296	4.990	1872	3.084	2448	0.990
168	0.807	744	1.443	1320	5.162	1896	2.875	2472	0.989
192	0.860	768	1.531	1344	5.284	1920	2.713	2496	0.990
216	0.903	792	1.627	1368	5.394	1944	2.557	2520	0.992
240	0.935	816	1.731	1392	5.489	1968	2.406	2544	0.992
264	0.959	840	1.842	1416	5.568	1992	2.261	2568	0.991
288	0.976	864	1.962	1440	5.629	2016	2.123	2592	0.987
312	0.987	888	2.123	1464	5.629	2040	1.962	2616	0.976
336	0.991	912	2.261	1488	5.568	2064	1.842	2640	0.959
360	0.992	936	2.406	1512	5.489	2088	1.731	2664	0.935
384	0.992	960	2.557	1536	5.394	2112	1.627	2688	0.903
408	0.990	984	2.713	1560	5.284	2136	1.531	2712	0.860
432	0.989	1008	2.875	1584	5.162	2160	1.443	2736	0.807
456	0.990	1032	3.084	1608	4.990	2184	1.346	2760	0.718
480	0.994	1056	3.256	1632	4.841	2208	1.279	2784	0.627
504	1.001	1080	3.430	1656	4.684	2232	1.220	2808	0.519
528	1.013	1104	3.607	1680	4.521	2256	1.169	2832	0.391
552	1.029	1128	3.784	1704	4.353	2280	1.124	2856	0.243
576	1.050	1152	3.961	1728	4.181	2304	1.086	2880	0.073

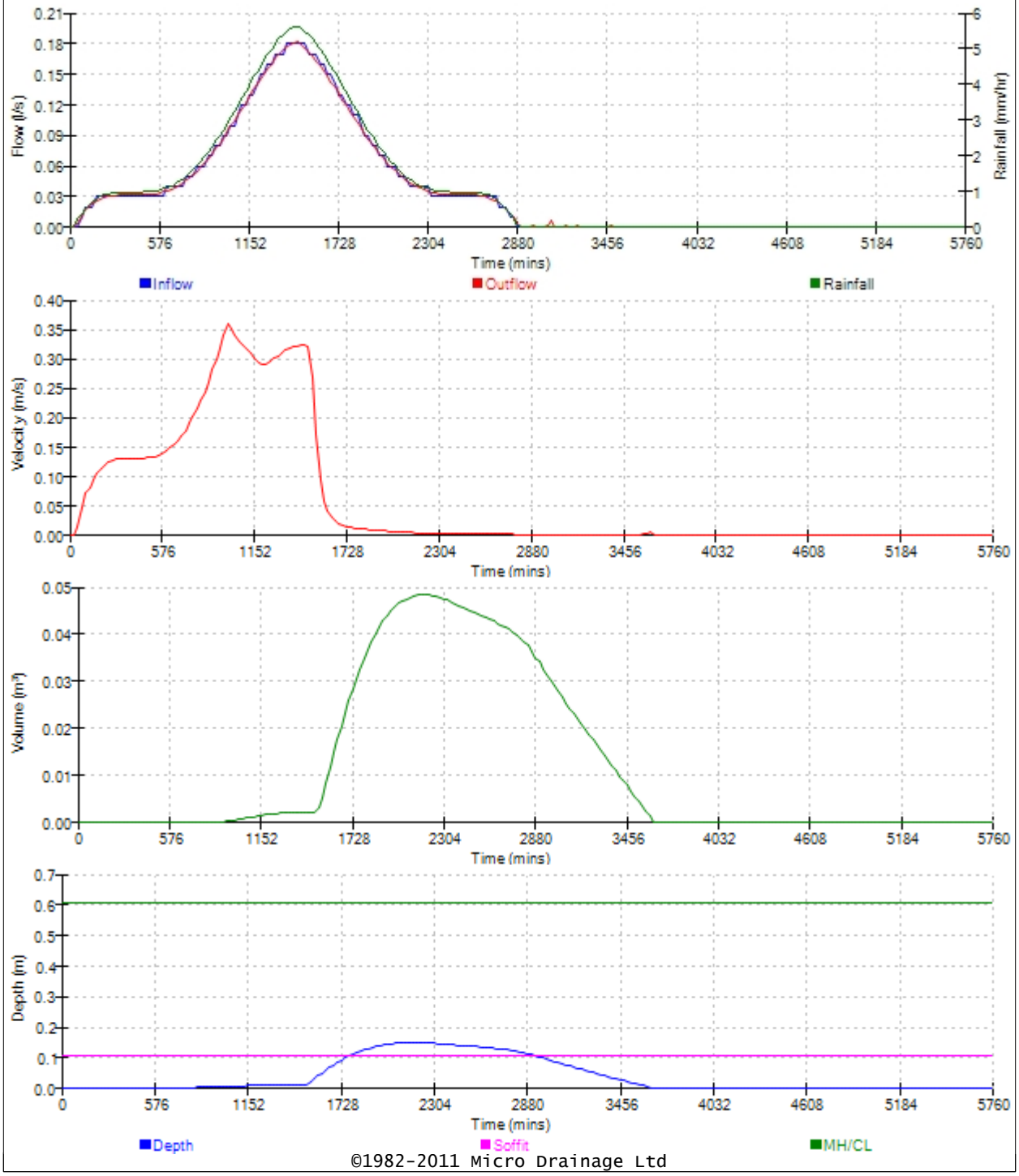
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Status: OK



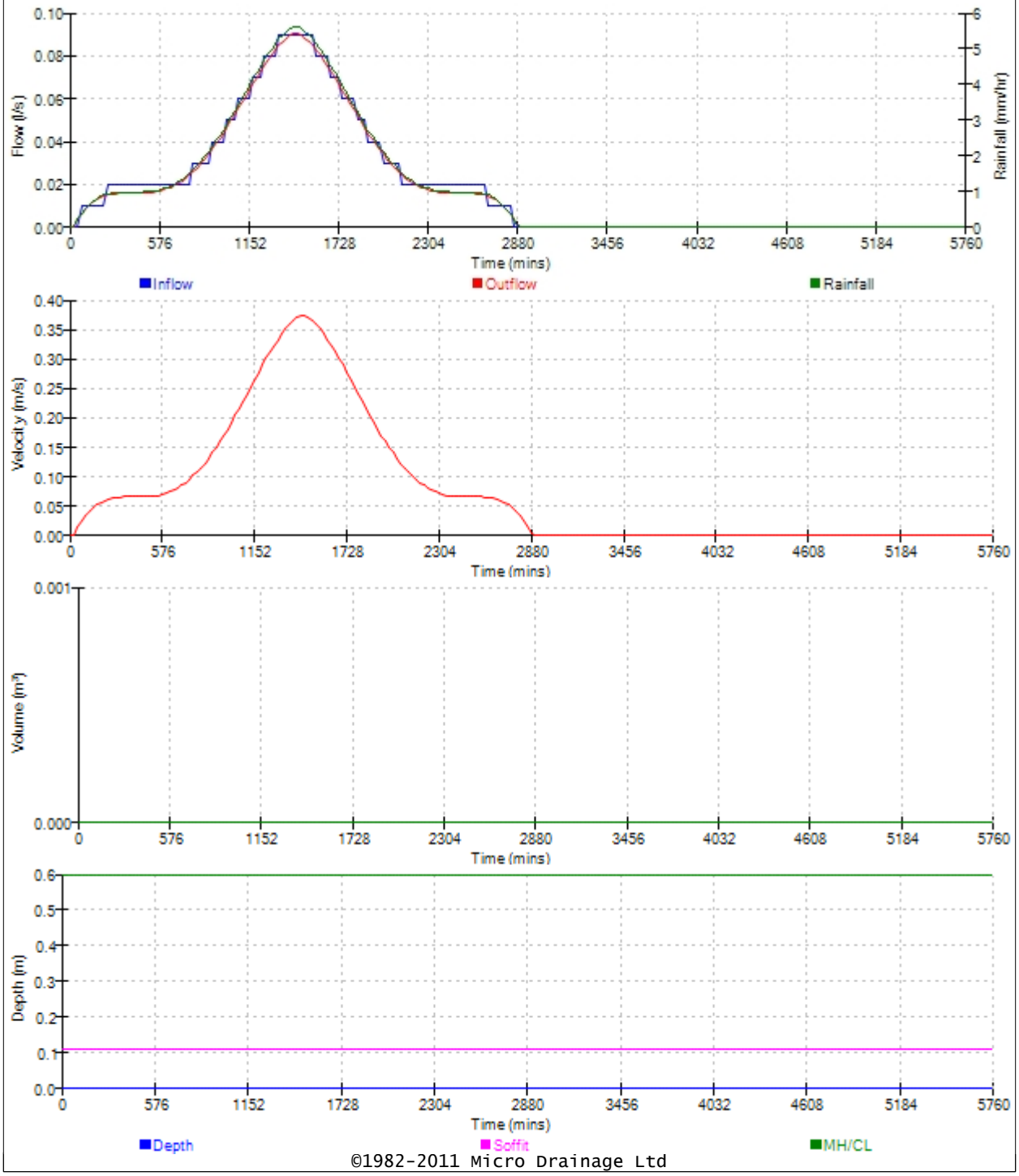
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Graphs for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Status: SURCHARGED



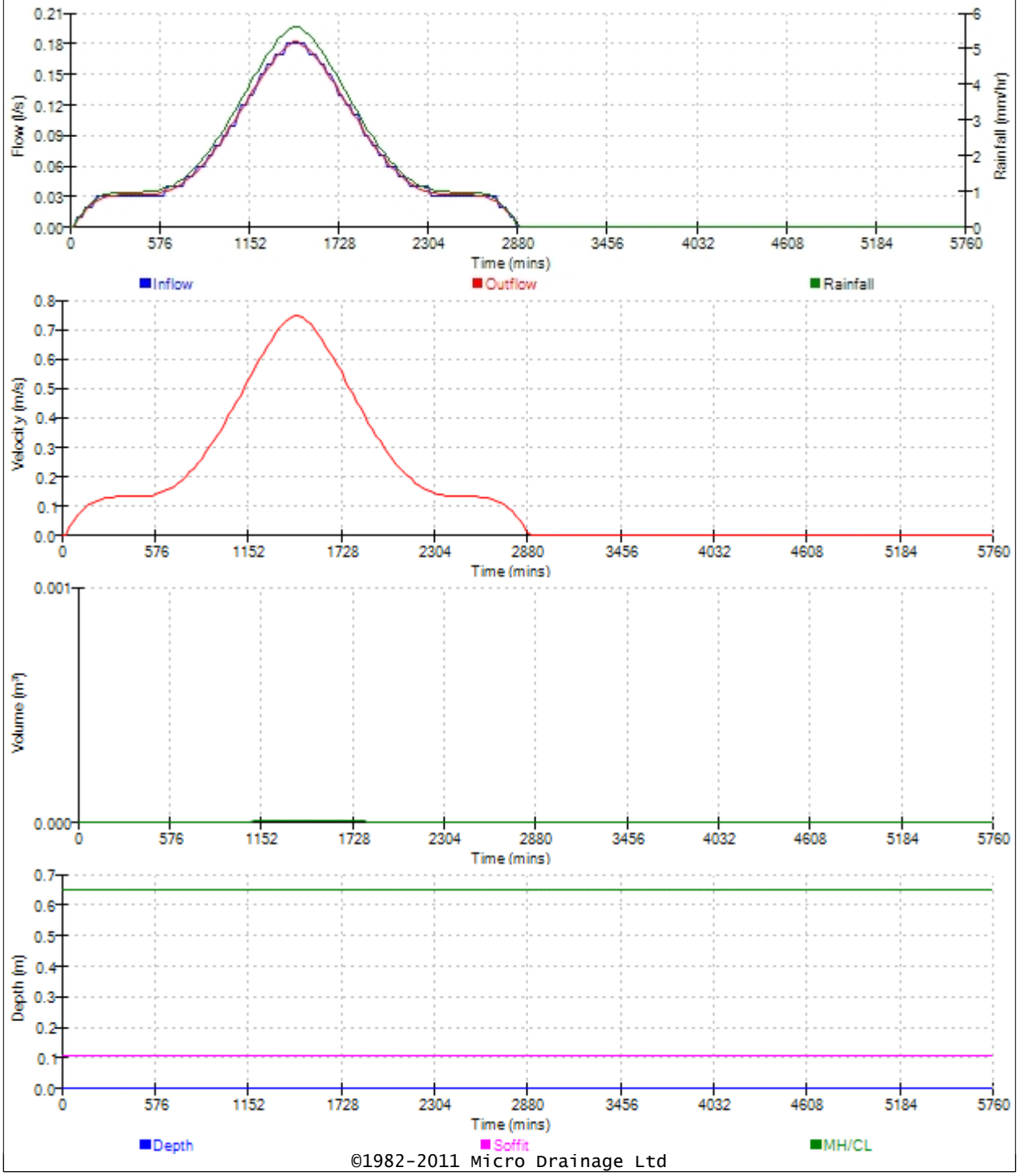
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Status: OK



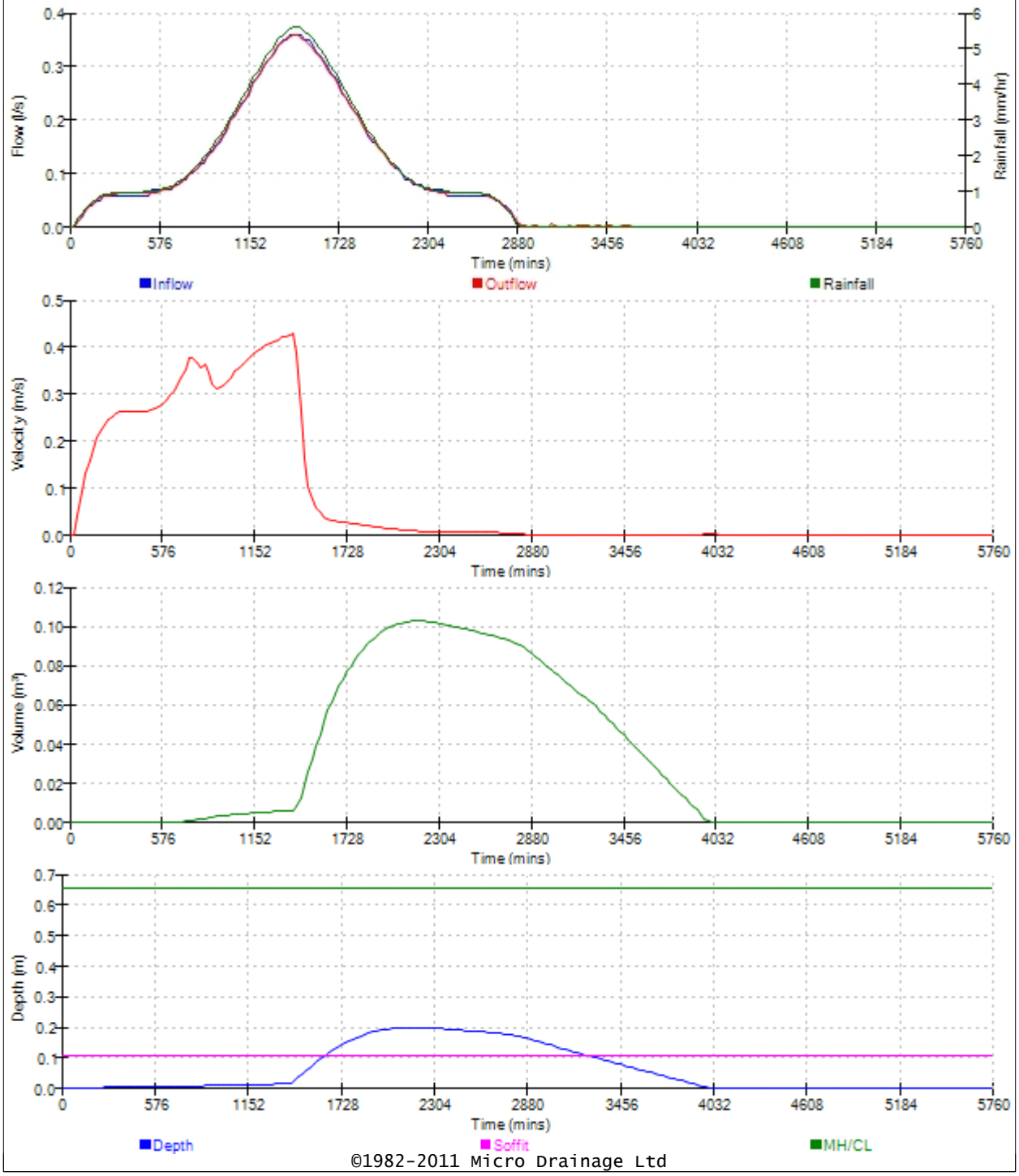
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Graphs for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Status: OK



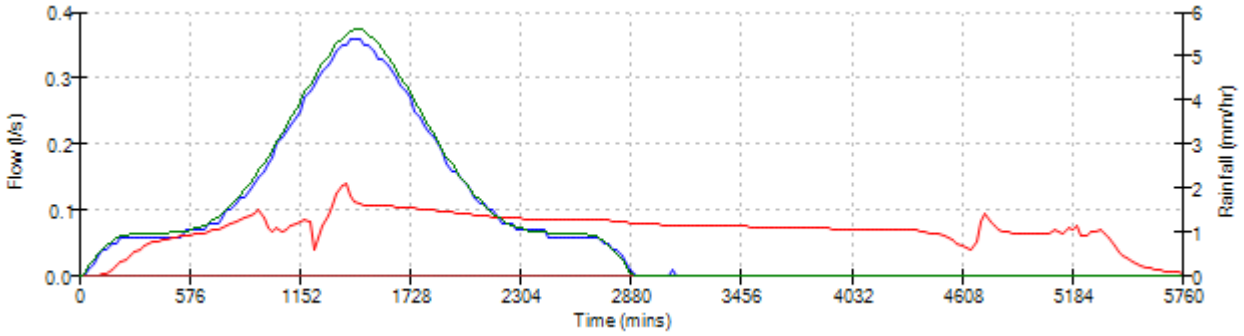
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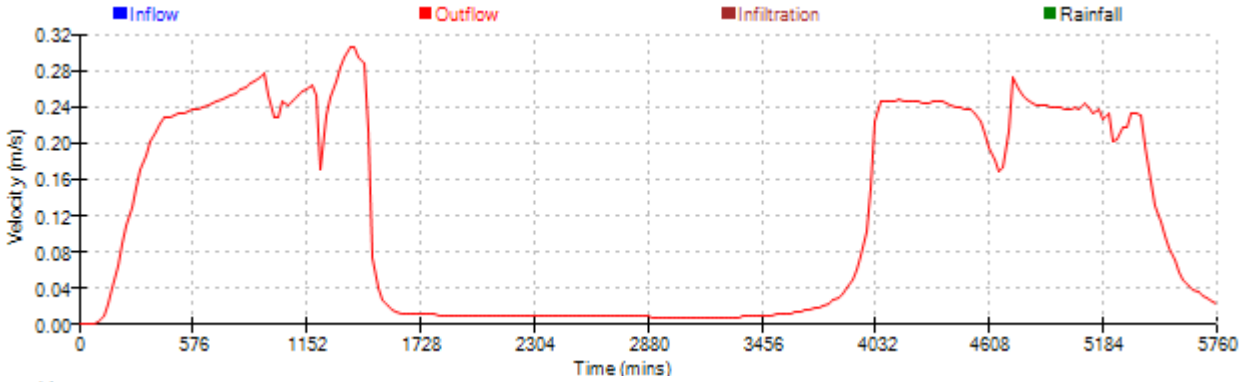
Graphs for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Status: SURCHARGED

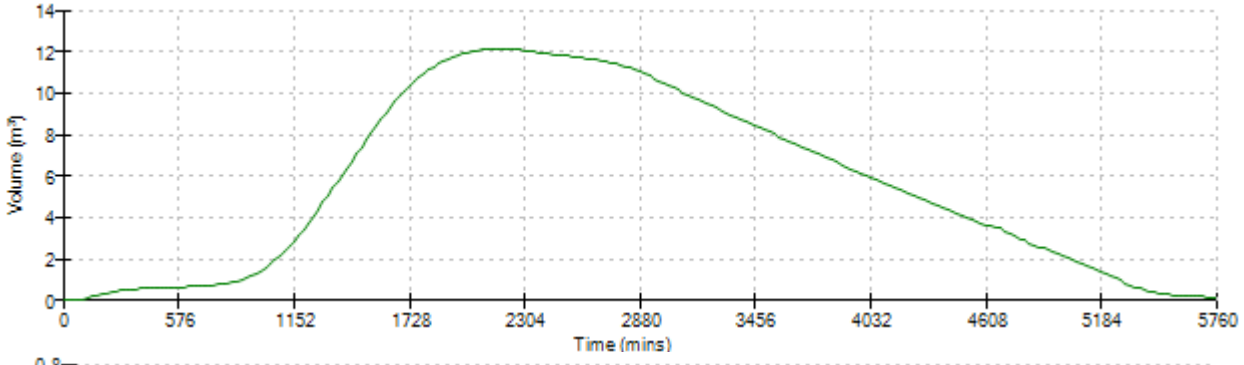


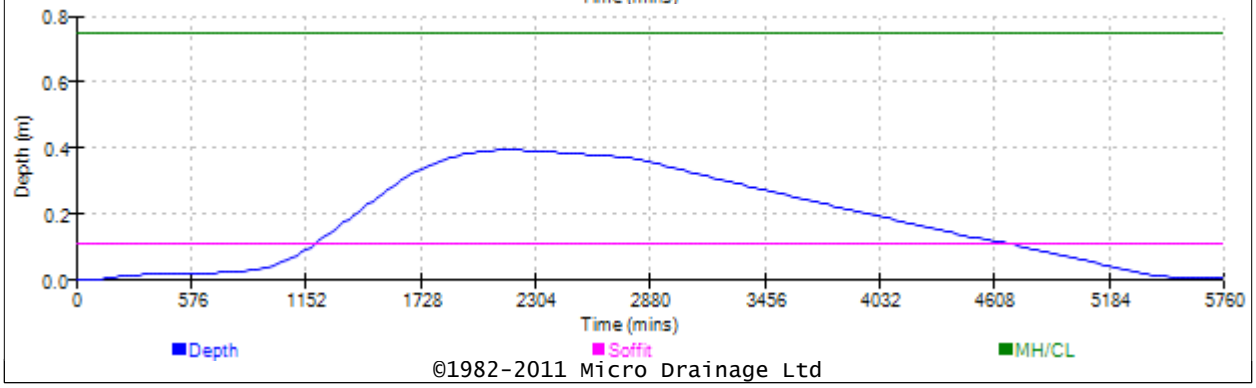
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Graphs for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Status: SURCHARGED



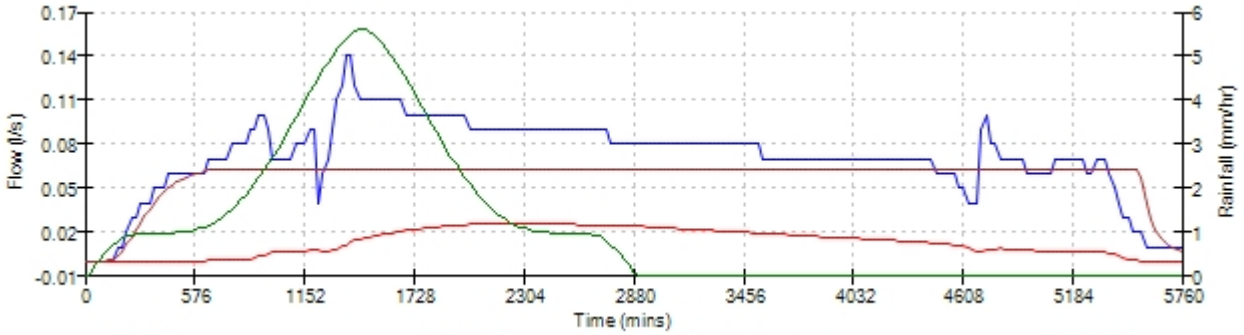


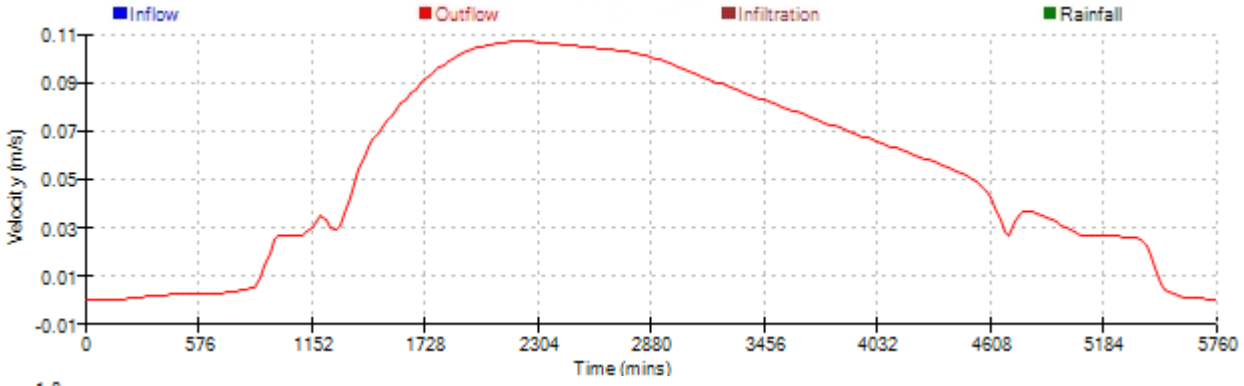


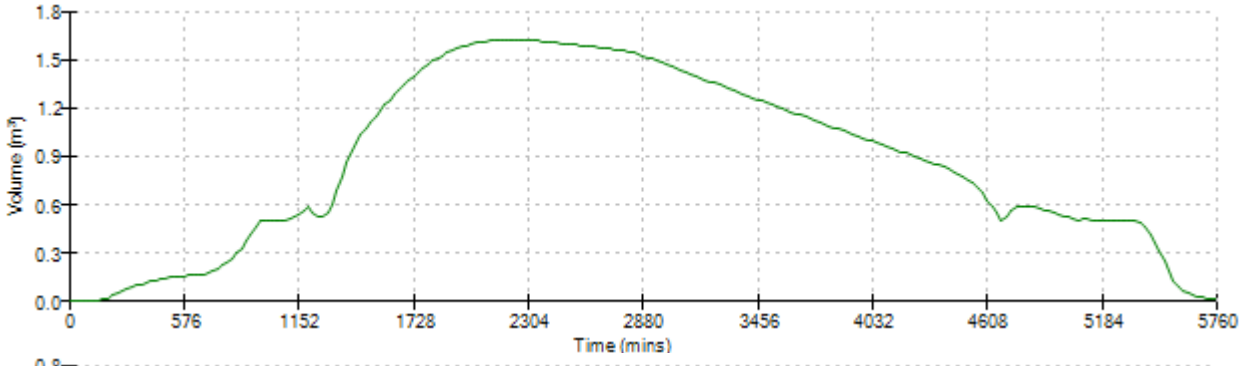


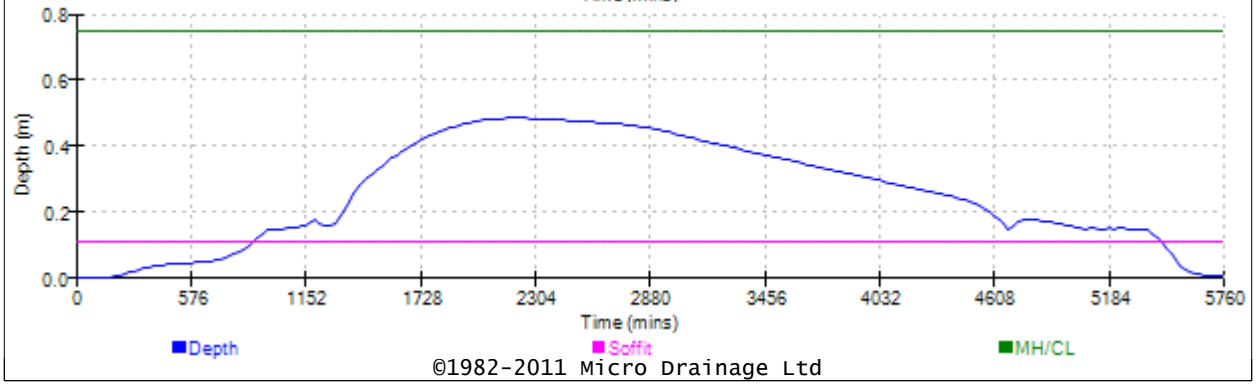
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.496	-0.110	0.0	0.0	0.0
144	65.400	63.496	-0.110	0.0	0.0	0.0
168	65.400	63.496	-0.110	0.0	0.1	0.0
192	65.400	63.496	-0.110	0.0	0.1	0.0
216	65.400	63.496	-0.110	0.0	0.1	0.0
240	65.400	63.496	-0.110	0.0	0.1	0.0
264	65.400	63.497	-0.110	0.0	0.1	0.0
288	65.400	63.497	-0.110	0.0	0.1	0.0
312	65.400	63.497	-0.110	0.0	0.1	0.0
336	65.400	63.497	-0.110	0.0	0.1	0.0
360	65.400	63.497	-0.110	0.0	0.1	0.0
384	65.400	63.497	-0.110	0.0	0.1	0.0
408	65.400	63.497	-0.110	0.0	0.1	0.0
432	65.400	63.497	-0.110	0.0	0.1	0.0
456	65.400	63.497	-0.110	0.0	0.1	0.0
480	65.400	63.497	-0.110	0.0	0.1	0.0
504	65.400	63.497	-0.110	0.0	0.1	0.0
528	65.400	63.497	-0.110	0.0	0.1	0.0
552	65.400	63.497	-0.110	0.0	0.1	0.0
576	65.400	63.497	-0.110	0.0	0.1	0.0
600	65.400	63.497	-0.110	0.0	0.1	0.0
624	65.400	63.497	-0.110	0.0	0.1	0.0
648	65.400	63.497	-0.110	0.0	0.1	0.0
672	65.400	63.497	-0.110	0.0	0.1	0.0
696	65.400	63.497	-0.110	0.0	0.1	0.0
720	65.400	63.497	-0.110	0.0	0.1	0.0
744	65.400	63.498	-0.110	0.0	0.1	0.0
768	65.401	63.498	-0.109	0.0	0.1	0.0
792	65.401	63.498	-0.109	0.0	0.1	0.0
816	65.401	63.498	-0.109	0.0	0.1	0.0
840	65.401	63.499	-0.109	0.0	0.1	0.0
864	65.401	63.499	-0.109	0.0	0.1	0.0
888	65.401	63.499	-0.109	0.0	0.1	0.0
912	65.401	63.500	-0.109	0.0	0.2	0.0
936	65.401	63.500	-0.109	0.0	0.2	0.0
960	65.401	63.501	-0.109	0.0	0.2	0.0
984	65.401	63.501	-0.109	0.0	0.2	0.0
1008	65.401	63.501	-0.109	0.0	0.2	0.0
1032	65.401	63.502	-0.109	0.0	0.2	0.0
1056	65.401	63.502	-0.109	0.0	0.2	0.1
1080	65.401	63.503	-0.109	0.0	0.2	0.1
1104	65.401	63.503	-0.109	0.0	0.2	0.1
1128	65.401	63.504	-0.109	0.0	0.3	0.1
1152	65.401	63.504	-0.109	0.0	0.3	0.1
1176	65.401	63.505	-0.109	0.0	0.3	0.1
1200	65.401	63.505	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	63.505	-0.109	0.0	0.3	0.1
1248	65.402	63.505	-0.108	0.0	0.3	0.1
1272	65.402	63.505	-0.108	0.0	0.3	0.1
1296	65.402	63.506	-0.108	0.0	0.3	0.1
1320	65.402	63.506	-0.108	0.0	0.3	0.1
1344	65.402	63.506	-0.108	0.0	0.4	0.1
1368	65.402	63.506	-0.108	0.0	0.4	0.1
1392	65.402	63.506	-0.108	0.0	0.4	0.1
1416	65.402	63.506	-0.108	0.0	0.4	0.1
1440	65.402	63.506	-0.108	0.0	0.4	0.1
1464	65.402	63.506	-0.108	0.0	0.4	0.1
1488	65.402	63.506	-0.108	0.0	0.4	0.1
1512	65.402	63.509	-0.108	0.0	0.4	0.1
1536	65.402	63.516	-0.108	0.0	0.4	0.1
1560	65.402	63.526	-0.108	0.0	0.4	0.1
1584	65.402	63.536	-0.108	0.0	0.3	0.1
1608	65.402	63.546	-0.108	0.0	0.3	0.1
1632	65.402	63.555	-0.108	0.0	0.3	0.1
1656	65.402	63.564	-0.108	0.0	0.3	0.1
1680	65.401	63.572	-0.109	0.0	0.3	0.1
1704	65.401	63.580	-0.109	0.0	0.3	0.1
1728	65.401	63.588	-0.109	0.0	0.3	0.1
1752	65.401	63.595	-0.109	0.0	0.3	0.1
1776	65.401	63.601	-0.109	0.0	0.3	0.1
1800	65.401	63.607	-0.109	0.0	0.2	0.1
1824	65.401	63.613	-0.109	0.0	0.2	0.1
1848	65.401	63.618	-0.109	0.0	0.2	0.1
1872	65.401	63.622	-0.109	0.0	0.2	0.0
1896	65.401	63.626	-0.109	0.0	0.2	0.0
1920	65.401	63.630	-0.109	0.0	0.2	0.0
1944	65.401	63.633	-0.109	0.0	0.2	0.0
1968	65.401	63.635	-0.109	0.0	0.2	0.0
1992	65.401	63.638	-0.109	0.0	0.2	0.0
2016	65.401	63.640	-0.109	0.0	0.1	0.0
2040	65.401	63.641	-0.109	0.0	0.1	0.0
2064	65.401	63.642	-0.109	0.0	0.1	0.0
2088	65.401	63.643	-0.109	0.0	0.1	0.0
2112	65.401	63.644	-0.109	0.0	0.1	0.0
2136	65.400	63.645	-0.110	0.0	0.1	0.0
2160	65.400	63.645	-0.110	0.0	0.1	0.0
2184	65.400	63.645	-0.110	0.0	0.1	0.0
2208	65.400	63.645	-0.110	0.0	0.1	0.0
2232	65.400	63.644	-0.110	0.0	0.1	0.0
2256	65.400	63.644	-0.110	0.0	0.1	0.0
2280	65.400	63.643	-0.110	0.0	0.1	0.0
2304	65.400	63.642	-0.110	0.0	0.1	0.0
2328	65.400	63.642	-0.110	0.0	0.1	0.0
2352	65.400	63.640	-0.110	0.0	0.1	0.0
2376	65.400	63.639	-0.110	0.0	0.1	0.0
2400	65.400	63.638	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.637	-0.110	0.0	0.1	0.0
2448	65.400	63.636	-0.110	0.0	0.1	0.0
2472	65.400	63.635	-0.110	0.0	0.1	0.0
2496	65.400	63.634	-0.110	0.0	0.1	0.0
2520	65.400	63.633	-0.110	0.0	0.1	0.0
2544	65.400	63.632	-0.110	0.0	0.1	0.0
2568	65.400	63.631	-0.110	0.0	0.1	0.0
2592	65.400	63.630	-0.110	0.0	0.1	0.0
2616	65.400	63.629	-0.110	0.0	0.1	0.0
2640	65.400	63.628	-0.110	0.0	0.1	0.0
2664	65.400	63.627	-0.110	0.0	0.1	0.0
2688	65.400	63.626	-0.110	0.0	0.1	0.0
2712	65.400	63.624	-0.110	0.0	0.1	0.0
2736	65.400	63.623	-0.110	0.0	0.1	0.0
2760	65.400	63.621	-0.110	0.0	0.0	0.0
2784	65.400	63.619	-0.110	0.0	0.0	0.0
2808	65.400	63.617	-0.110	0.0	0.0	0.0
2832	65.400	63.615	-0.110	0.0	0.0	0.0
2856	65.400	63.612	-0.110	0.0	0.0	0.0
2880	65.400	63.608	-0.110	0.0	0.0	0.0
2904	65.400	63.606	-0.110	0.0	0.0	0.0
2928	65.400	63.601	-0.110	0.0	0.0	0.0
2952	65.400	63.598	-0.110	0.0	0.0	0.0
2976	65.400	63.594	-0.110	0.0	0.0	0.0
3000	65.400	63.591	-0.110	0.0	0.0	0.0
3024	65.400	63.587	-0.110	0.0	0.0	0.0
3048	65.400	63.583	-0.110	0.0	0.0	0.0
3072	65.400	63.579	-0.110	0.0	0.0	0.0
3096	65.400	63.576	-0.110	0.0	0.0	0.0
3120	65.400	63.572	-0.110	0.0	0.0	0.0
3144	65.400	63.569	-0.110	0.0	0.0	0.0
3168	65.400	63.565	-0.110	0.0	0.0	0.0
3192	65.400	63.562	-0.110	0.0	0.0	0.0
3216	65.400	63.558	-0.110	0.0	0.0	0.0
3240	65.400	63.555	-0.110	0.0	0.0	0.0
3264	65.400	63.551	-0.110	0.0	0.0	0.0
3288	65.400	63.548	-0.110	0.0	0.0	0.0
3312	65.400	63.544	-0.110	0.0	0.0	0.0
3336	65.400	63.541	-0.110	0.0	0.0	0.0
3360	65.400	63.538	-0.110	0.0	0.0	0.0
3384	65.400	63.534	-0.110	0.0	0.0	0.0
3408	65.400	63.530	-0.110	0.0	0.0	0.0
3432	65.400	63.527	-0.110	0.0	0.0	0.0
3456	65.400	63.524	-0.110	0.0	0.0	0.0
3480	65.400	63.520	-0.110	0.0	0.0	0.0
3504	65.400	63.517	-0.110	0.0	0.0	0.0
3528	65.400	63.514	-0.110	0.0	0.0	0.0
3552	65.400	63.510	-0.110	0.0	0.0	0.0
3576	65.400	63.507	-0.110	0.0	0.0	0.0
3600	65.400	63.504	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.499	-0.110	0.0	0.0	0.0
3648	65.400	63.496	-0.110	0.0	0.0	0.0
3672	65.400	63.494	-0.110	0.0	0.0	0.0
3696	65.400	63.494	-0.110	0.0	0.0	0.0
3720	65.400	63.494	-0.110	0.0	0.0	0.0
3744	65.400	63.494	-0.110	0.0	0.0	0.0
3768	65.400	63.494	-0.110	0.0	0.0	0.0
3792	65.400	63.494	-0.110	0.0	0.0	0.0
3816	65.400	63.494	-0.110	0.0	0.0	0.0
3840	65.400	63.494	-0.110	0.0	0.0	0.0
3864	65.400	63.494	-0.110	0.0	0.0	0.0
3888	65.400	63.494	-0.110	0.0	0.0	0.0
3912	65.400	63.494	-0.110	0.0	0.0	0.0
3936	65.400	63.494	-0.110	0.0	0.0	0.0
3960	65.400	63.494	-0.110	0.0	0.0	0.0
3984	65.400	63.494	-0.110	0.0	0.0	0.0
4008	65.400	63.494	-0.110	0.0	0.0	0.0
4032	65.400	63.494	-0.110	0.0	0.0	0.0
4056	65.400	63.494	-0.110	0.0	0.0	0.0
4080	65.400	63.494	-0.110	0.0	0.0	0.0
4104	65.400	63.494	-0.110	0.0	0.0	0.0
4128	65.400	63.494	-0.110	0.0	0.0	0.0
4152	65.400	63.494	-0.110	0.0	0.0	0.0
4176	65.400	63.494	-0.110	0.0	0.0	0.0
4200	65.400	63.494	-0.110	0.0	0.0	0.0
4224	65.400	63.494	-0.110	0.0	0.0	0.0
4248	65.400	63.494	-0.110	0.0	0.0	0.0
4272	65.400	63.494	-0.110	0.0	0.0	0.0
4296	65.400	63.494	-0.110	0.0	0.0	0.0
4320	65.400	63.494	-0.110	0.0	0.0	0.0
4344	65.400	63.494	-0.110	0.0	0.0	0.0
4368	65.400	63.494	-0.110	0.0	0.0	0.0
4392	65.400	63.494	-0.110	0.0	0.0	0.0
4416	65.400	63.494	-0.110	0.0	0.0	0.0
4440	65.400	63.494	-0.110	0.0	0.0	0.0
4464	65.400	63.494	-0.110	0.0	0.0	0.0
4488	65.400	63.494	-0.110	0.0	0.0	0.0
4512	65.400	63.494	-0.110	0.0	0.0	0.0
4536	65.400	63.494	-0.110	0.0	0.0	0.0
4560	65.400	63.494	-0.110	0.0	0.0	0.0
4584	65.400	63.494	-0.110	0.0	0.0	0.0
4608	65.400	63.494	-0.110	0.0	0.0	0.0
4632	65.400	63.494	-0.110	0.0	0.0	0.0
4656	65.400	63.494	-0.110	0.0	0.0	0.0
4680	65.400	63.494	-0.110	0.0	0.0	0.0
4704	65.400	63.494	-0.110	0.0	0.0	0.0
4728	65.400	63.494	-0.110	0.0	0.0	0.0
4752	65.400	63.494	-0.110	0.0	0.0	0.0
4776	65.400	63.494	-0.110	0.0	0.0	0.0
4800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.494	-0.110	0.0	0.0	0.0
4848	65.400	63.494	-0.110	0.0	0.0	0.0
4872	65.400	63.494	-0.110	0.0	0.0	0.0
4896	65.400	63.494	-0.110	0.0	0.0	0.0
4920	65.400	63.494	-0.110	0.0	0.0	0.0
4944	65.400	63.494	-0.110	0.0	0.0	0.0
4968	65.400	63.494	-0.110	0.0	0.0	0.0
4992	65.400	63.494	-0.110	0.0	0.0	0.0
5016	65.400	63.494	-0.110	0.0	0.0	0.0
5040	65.400	63.494	-0.110	0.0	0.0	0.0
5064	65.400	63.494	-0.110	0.0	0.0	0.0
5088	65.400	63.494	-0.110	0.0	0.0	0.0
5112	65.400	63.494	-0.110	0.0	0.0	0.0
5136	65.400	63.494	-0.110	0.0	0.0	0.0
5160	65.400	63.494	-0.110	0.0	0.0	0.0
5184	65.400	63.494	-0.110	0.0	0.0	0.0
5208	65.400	63.494	-0.110	0.0	0.0	0.0
5232	65.400	63.494	-0.110	0.0	0.0	0.0
5256	65.400	63.494	-0.110	0.0	0.0	0.0
5280	65.400	63.494	-0.110	0.0	0.0	0.0
5304	65.400	63.494	-0.110	0.0	0.0	0.0
5328	65.400	63.494	-0.110	0.0	0.0	0.0
5352	65.400	63.494	-0.110	0.0	0.0	0.0
5376	65.400	63.494	-0.110	0.0	0.0	0.0
5400	65.400	63.494	-0.110	0.0	0.0	0.0
5424	65.400	63.494	-0.110	0.0	0.0	0.0
5448	65.400	63.494	-0.110	0.0	0.0	0.0
5472	65.400	63.494	-0.110	0.0	0.0	0.0
5496	65.400	63.494	-0.110	0.0	0.0	0.0
5520	65.400	63.494	-0.110	0.0	0.0	0.0
5544	65.400	63.494	-0.110	0.0	0.0	0.0
5568	65.400	63.494	-0.110	0.0	0.0	0.0
5592	65.400	63.494	-0.110	0.0	0.0	0.0
5616	65.400	63.494	-0.110	0.0	0.0	0.0
5640	65.400	63.494	-0.110	0.0	0.0	0.0
5664	65.400	63.494	-0.110	0.0	0.0	0.0
5688	65.400	63.494	-0.110	0.0	0.0	0.0
5712	65.400	63.494	-0.110	0.0	0.0	0.0
5736	65.400	63.494	-0.110	0.0	0.0	0.0
5760	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.445	-0.110	0.0	0.0	0.0
72	63.495	63.446	-0.109	0.0	0.0	0.0
96	63.495	63.447	-0.109	0.0	0.1	0.0
120	63.496	63.447	-0.108	0.0	0.1	0.0
144	63.496	63.447	-0.108	0.0	0.1	0.0
168	63.496	63.448	-0.108	0.0	0.1	0.0
192	63.496	63.448	-0.108	0.0	0.1	0.0
216	63.496	63.448	-0.108	0.0	0.1	0.0
240	63.496	63.449	-0.108	0.0	0.1	0.0
264	63.497	63.449	-0.108	0.0	0.1	0.0
288	63.497	63.449	-0.108	0.0	0.1	0.0
312	63.497	63.449	-0.108	0.0	0.1	0.0
336	63.497	63.449	-0.108	0.0	0.1	0.0
360	63.497	63.449	-0.108	0.0	0.1	0.0
384	63.497	63.449	-0.108	0.0	0.1	0.0
408	63.497	63.449	-0.108	0.0	0.1	0.0
432	63.497	63.449	-0.108	0.0	0.1	0.0
456	63.497	63.449	-0.108	0.0	0.1	0.0
480	63.497	63.449	-0.108	0.0	0.1	0.0
504	63.497	63.449	-0.107	0.0	0.1	0.0
528	63.497	63.449	-0.107	0.0	0.1	0.0
552	63.497	63.449	-0.107	0.0	0.1	0.0
576	63.497	63.449	-0.107	0.0	0.1	0.0
600	63.497	63.449	-0.107	0.0	0.1	0.0
624	63.497	63.449	-0.107	0.0	0.1	0.0
648	63.497	63.450	-0.107	0.0	0.2	0.0
672	63.497	63.450	-0.107	0.0	0.2	0.0
696	63.497	63.450	-0.107	0.0	0.2	0.0
720	63.497	63.450	-0.107	0.0	0.2	0.0
744	63.498	63.451	-0.106	0.0	0.2	0.0
768	63.498	63.451	-0.106	0.0	0.2	0.0
792	63.498	63.452	-0.106	0.0	0.2	0.1
816	63.498	63.452	-0.106	0.0	0.2	0.1
840	63.499	63.452	-0.105	0.0	0.2	0.1
864	63.499	63.453	-0.105	0.0	0.3	0.1
888	63.499	63.454	-0.105	0.0	0.3	0.1
912	63.500	63.455	-0.104	0.0	0.3	0.1
936	63.500	63.455	-0.104	0.0	0.3	0.1
960	63.501	63.455	-0.104	0.0	0.3	0.1
984	63.501	63.456	-0.103	0.0	0.4	0.1
1008	63.501	63.456	-0.103	0.0	0.4	0.1
1032	63.502	63.456	-0.102	0.0	0.3	0.1
1056	63.502	63.456	-0.102	0.0	0.3	0.1
1080	63.503	63.457	-0.101	0.0	0.3	0.1
1104	63.503	63.457	-0.101	0.0	0.3	0.1
1128	63.504	63.457	-0.101	0.0	0.3	0.1
1152	63.504	63.457	-0.100	0.0	0.3	0.1
1176	63.505	63.458	-0.100	0.0	0.3	0.1
1200	63.505	63.458	-0.099	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.505	63.458	-0.099	0.0	0.3	0.1
1248	63.505	63.459	-0.099	0.0	0.3	0.2
1272	63.505	63.459	-0.099	0.0	0.3	0.2
1296	63.506	63.459	-0.099	0.0	0.3	0.2
1320	63.506	63.459	-0.098	0.0	0.3	0.2
1344	63.506	63.459	-0.098	0.0	0.3	0.2
1368	63.506	63.460	-0.098	0.0	0.3	0.2
1392	63.506	63.460	-0.098	0.0	0.3	0.2
1416	63.506	63.463	-0.098	0.0	0.3	0.2
1440	63.506	63.470	-0.098	0.0	0.3	0.2
1464	63.506	63.481	-0.098	0.0	0.3	0.2
1488	63.506	63.492	-0.098	0.0	0.3	0.2
1512	63.509	63.504	-0.095	0.0	0.3	0.2
1536	63.516	63.514	-0.088	0.0	0.2	0.2
1560	63.526	63.525	-0.078	0.0	0.1	0.2
1584	63.536	63.535	-0.068	0.0	0.1	0.2
1608	63.546	63.545	-0.058	0.0	0.0	0.2
1632	63.555	63.554	-0.049	0.0	0.0	0.2
1656	63.564	63.563	-0.040	0.0	0.0	0.1
1680	63.572	63.572	-0.032	0.0	0.0	0.1
1704	63.580	63.580	-0.024	0.0	0.0	0.1
1728	63.588	63.587	-0.016	0.0	0.0	0.1
1752	63.595	63.594	-0.009	0.0	0.0	0.1
1776	63.601	63.601	-0.003	0.0	0.0	0.1
1800	63.607	63.607	0.003	0.0	0.0	0.1
1824	63.613	63.612	0.009	0.0	0.0	0.1
1848	63.618	63.617	0.014	0.0	0.0	0.1
1872	63.622	63.622	0.018	0.0	0.0	0.1
1896	63.626	63.626	0.022	0.0	0.0	0.1
1920	63.630	63.629	0.025	0.0	0.0	0.1
1944	63.633	63.632	0.029	0.0	0.0	0.1
1968	63.635	63.635	0.031	0.0	0.0	0.1
1992	63.638	63.637	0.034	0.0	0.0	0.1
2016	63.640	63.639	0.036	0.0	0.0	0.1
2040	63.641	63.641	0.037	0.0	0.0	0.1
2064	63.642	63.642	0.038	0.0	0.0	0.1
2088	63.643	63.643	0.039	0.0	0.0	0.1
2112	63.644	63.644	0.040	0.0	0.0	0.1
2136	63.645	63.644	0.040	0.0	0.0	0.0
2160	63.645	63.645	0.041	0.0	0.0	0.0
2184	63.645	63.645	0.041	0.0	0.0	0.0
2208	63.645	63.644	0.040	0.0	0.0	0.0
2232	63.644	63.644	0.040	0.0	0.0	0.0
2256	63.644	63.643	0.040	0.0	0.0	0.0
2280	63.643	63.643	0.039	0.0	0.0	0.0
2304	63.642	63.642	0.038	0.0	0.0	0.0
2328	63.642	63.642	0.038	0.0	0.0	0.0
2352	63.640	63.640	0.036	0.0	0.0	0.0
2376	63.639	63.639	0.035	0.0	0.0	0.0
2400	63.638	63.638	0.034	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.637	63.637	0.033	0.0	0.0	0.0
2448	63.636	63.636	0.032	0.0	0.0	0.0
2472	63.635	63.635	0.031	0.0	0.0	0.0
2496	63.634	63.634	0.030	0.0	0.0	0.0
2520	63.633	63.633	0.029	0.0	0.0	0.0
2544	63.632	63.632	0.028	0.0	0.0	0.0
2568	63.631	63.631	0.027	0.0	0.0	0.0
2592	63.630	63.630	0.026	0.0	0.0	0.0
2616	63.629	63.629	0.025	0.0	0.0	0.0
2640	63.628	63.628	0.024	0.0	0.0	0.0
2664	63.627	63.627	0.023	0.0	0.0	0.0
2688	63.626	63.626	0.022	0.0	0.0	0.0
2712	63.624	63.624	0.020	0.0	0.0	0.0
2736	63.623	63.623	0.019	0.0	0.0	0.0
2760	63.621	63.621	0.017	0.0	0.0	0.0
2784	63.619	63.619	0.015	0.0	0.0	0.0
2808	63.617	63.617	0.013	0.0	0.0	0.0
2832	63.615	63.615	0.011	0.0	0.0	0.0
2856	63.612	63.612	0.007	0.0	0.0	0.0
2880	63.608	63.609	0.004	0.0	0.0	0.0
2904	63.606	63.605	0.002	0.0	0.0	0.0
2928	63.601	63.601	-0.003	0.0	0.0	0.0
2952	63.598	63.598	-0.007	0.0	0.0	0.0
2976	63.594	63.594	-0.010	0.0	0.0	0.0
3000	63.591	63.591	-0.014	0.0	0.0	0.0
3024	63.587	63.587	-0.017	0.0	0.0	0.0
3048	63.583	63.584	-0.021	0.0	0.0	0.0
3072	63.579	63.579	-0.025	0.0	0.0	0.0
3096	63.576	63.576	-0.029	0.0	0.0	0.0
3120	63.572	63.572	-0.032	0.0	0.0	0.0
3144	63.569	63.569	-0.036	0.0	0.0	0.0
3168	63.565	63.565	-0.039	0.0	0.0	0.0
3192	63.562	63.562	-0.043	0.0	0.0	0.0
3216	63.558	63.558	-0.046	0.0	0.0	0.0
3240	63.555	63.555	-0.050	0.0	0.0	0.0
3264	63.551	63.551	-0.053	0.0	0.0	0.0
3288	63.548	63.548	-0.056	0.0	0.0	0.0
3312	63.544	63.544	-0.060	0.0	0.0	0.0
3336	63.541	63.541	-0.063	0.0	0.0	0.0
3360	63.538	63.538	-0.067	0.0	0.0	0.0
3384	63.534	63.534	-0.070	0.0	0.0	0.0
3408	63.530	63.530	-0.074	0.0	0.0	0.0
3432	63.527	63.527	-0.077	0.0	0.0	0.0
3456	63.524	63.524	-0.080	0.0	0.0	0.0
3480	63.520	63.520	-0.084	0.0	0.0	0.0
3504	63.517	63.517	-0.087	0.0	0.0	0.0
3528	63.514	63.514	-0.090	0.0	0.0	0.0
3552	63.510	63.510	-0.094	0.0	0.0	0.0
3576	63.507	63.507	-0.097	0.0	0.0	0.0
3600	63.504	63.503	-0.100	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.499	63.500	-0.105	0.0	0.0	0.0
3648	63.496	63.496	-0.108	0.0	0.0	0.0
3672	63.494	63.493	-0.110	0.0	0.0	0.0
3696	63.494	63.490	-0.110	0.0	0.0	0.0
3720	63.494	63.487	-0.110	0.0	0.0	0.0
3744	63.494	63.483	-0.110	0.0	0.0	0.0
3768	63.494	63.480	-0.110	0.0	0.0	0.0
3792	63.494	63.477	-0.110	0.0	0.0	0.0
3816	63.494	63.473	-0.110	0.0	0.0	0.0
3840	63.494	63.470	-0.110	0.0	0.0	0.0
3864	63.494	63.467	-0.110	0.0	0.0	0.0
3888	63.494	63.463	-0.110	0.0	0.0	0.0
3912	63.494	63.460	-0.110	0.0	0.0	0.0
3936	63.494	63.457	-0.110	0.0	0.0	0.0
3960	63.494	63.453	-0.110	0.0	0.0	0.0
3984	63.494	63.451	-0.110	0.0	0.0	0.0
4008	63.494	63.447	-0.110	0.0	0.0	0.0
4032	63.494	63.444	-0.110	0.0	0.0	0.0
4056	63.494	63.444	-0.110	0.0	0.0	0.0
4080	63.494	63.444	-0.110	0.0	0.0	0.0
4104	63.494	63.444	-0.110	0.0	0.0	0.0
4128	63.494	63.444	-0.110	0.0	0.0	0.0
4152	63.494	63.444	-0.110	0.0	0.0	0.0
4176	63.494	63.444	-0.110	0.0	0.0	0.0
4200	63.494	63.444	-0.110	0.0	0.0	0.0
4224	63.494	63.444	-0.110	0.0	0.0	0.0
4248	63.494	63.444	-0.110	0.0	0.0	0.0
4272	63.494	63.444	-0.110	0.0	0.0	0.0
4296	63.494	63.444	-0.110	0.0	0.0	0.0
4320	63.494	63.444	-0.110	0.0	0.0	0.0
4344	63.494	63.444	-0.110	0.0	0.0	0.0
4368	63.494	63.444	-0.110	0.0	0.0	0.0
4392	63.494	63.444	-0.110	0.0	0.0	0.0
4416	63.494	63.444	-0.110	0.0	0.0	0.0
4440	63.494	63.444	-0.110	0.0	0.0	0.0
4464	63.494	63.444	-0.110	0.0	0.0	0.0
4488	63.494	63.444	-0.110	0.0	0.0	0.0
4512	63.494	63.444	-0.110	0.0	0.0	0.0
4536	63.494	63.444	-0.110	0.0	0.0	0.0
4560	63.494	63.444	-0.110	0.0	0.0	0.0
4584	63.494	63.444	-0.110	0.0	0.0	0.0
4608	63.494	63.444	-0.110	0.0	0.0	0.0
4632	63.494	63.444	-0.110	0.0	0.0	0.0
4656	63.494	63.444	-0.110	0.0	0.0	0.0
4680	63.494	63.444	-0.110	0.0	0.0	0.0
4704	63.494	63.444	-0.110	0.0	0.0	0.0
4728	63.494	63.444	-0.110	0.0	0.0	0.0
4752	63.494	63.444	-0.110	0.0	0.0	0.0
4776	63.494	63.444	-0.110	0.0	0.0	0.0
4800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.494	63.444	-0.110	0.0	0.0	0.0
4848	63.494	63.444	-0.110	0.0	0.0	0.0
4872	63.494	63.444	-0.110	0.0	0.0	0.0
4896	63.494	63.444	-0.110	0.0	0.0	0.0
4920	63.494	63.444	-0.110	0.0	0.0	0.0
4944	63.494	63.444	-0.110	0.0	0.0	0.0
4968	63.494	63.444	-0.110	0.0	0.0	0.0
4992	63.494	63.444	-0.110	0.0	0.0	0.0
5016	63.494	63.444	-0.110	0.0	0.0	0.0
5040	63.494	63.444	-0.110	0.0	0.0	0.0
5064	63.494	63.444	-0.110	0.0	0.0	0.0
5088	63.494	63.444	-0.110	0.0	0.0	0.0
5112	63.494	63.444	-0.110	0.0	0.0	0.0
5136	63.494	63.444	-0.110	0.0	0.0	0.0
5160	63.494	63.444	-0.110	0.0	0.0	0.0
5184	63.494	63.444	-0.110	0.0	0.0	0.0
5208	63.494	63.444	-0.110	0.0	0.0	0.0
5232	63.494	63.444	-0.110	0.0	0.0	0.0
5256	63.494	63.444	-0.110	0.0	0.0	0.0
5280	63.494	63.444	-0.110	0.0	0.0	0.0
5304	63.494	63.444	-0.110	0.0	0.0	0.0
5328	63.494	63.444	-0.110	0.0	0.0	0.0
5352	63.494	63.444	-0.110	0.0	0.0	0.0
5376	63.494	63.444	-0.110	0.0	0.0	0.0
5400	63.494	63.444	-0.110	0.0	0.0	0.0
5424	63.494	63.444	-0.110	0.0	0.0	0.0
5448	63.494	63.444	-0.110	0.0	0.0	0.0
5472	63.494	63.444	-0.110	0.0	0.0	0.0
5496	63.494	63.444	-0.110	0.0	0.0	0.0
5520	63.494	63.444	-0.110	0.0	0.0	0.0
5544	63.494	63.444	-0.110	0.0	0.0	0.0
5568	63.494	63.444	-0.110	0.0	0.0	0.0
5592	63.494	63.444	-0.110	0.0	0.0	0.0
5616	63.494	63.444	-0.110	0.0	0.0	0.0
5640	63.494	63.444	-0.110	0.0	0.0	0.0
5664	63.494	63.444	-0.110	0.0	0.0	0.0
5688	63.494	63.444	-0.110	0.0	0.0	0.0
5712	63.494	63.444	-0.110	0.0	0.0	0.0
5736	63.494	63.444	-0.110	0.0	0.0	0.0
5760	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.1	0.0
192	65.400	65.000	-0.110	0.0	0.1	0.0
216	65.400	65.001	-0.110	0.0	0.1	0.0
240	65.400	65.001	-0.110	0.0	0.1	0.0
264	65.400	65.001	-0.110	0.0	0.1	0.0
288	65.400	65.001	-0.110	0.0	0.1	0.0
312	65.400	65.001	-0.110	0.0	0.1	0.0
336	65.400	65.001	-0.110	0.0	0.1	0.0
360	65.400	65.001	-0.110	0.0	0.1	0.0
384	65.400	65.001	-0.110	0.0	0.1	0.0
408	65.400	65.001	-0.110	0.0	0.1	0.0
432	65.400	65.001	-0.110	0.0	0.1	0.0
456	65.400	65.001	-0.110	0.0	0.1	0.0
480	65.400	65.001	-0.110	0.0	0.1	0.0
504	65.400	65.001	-0.110	0.0	0.1	0.0
528	65.400	65.001	-0.110	0.0	0.1	0.0
552	65.400	65.001	-0.110	0.0	0.1	0.0
576	65.400	65.001	-0.110	0.0	0.1	0.0
600	65.400	65.001	-0.110	0.0	0.1	0.0
624	65.400	65.001	-0.110	0.0	0.1	0.0
648	65.400	65.001	-0.110	0.0	0.1	0.0
672	65.400	65.001	-0.110	0.0	0.1	0.0
696	65.401	65.001	-0.109	0.0	0.1	0.0
720	65.401	65.001	-0.109	0.0	0.1	0.0
744	65.401	65.001	-0.109	0.0	0.1	0.0
768	65.401	65.001	-0.109	0.0	0.1	0.0
792	65.401	65.001	-0.109	0.0	0.1	0.0
816	65.401	65.001	-0.109	0.0	0.1	0.0
840	65.401	65.001	-0.109	0.0	0.1	0.0
864	65.401	65.001	-0.109	0.0	0.1	0.0
888	65.401	65.001	-0.109	0.0	0.1	0.0
912	65.401	65.001	-0.109	0.0	0.2	0.0
936	65.401	65.001	-0.109	0.0	0.2	0.0
960	65.401	65.001	-0.109	0.0	0.2	0.0
984	65.401	65.002	-0.109	0.0	0.2	0.0
1008	65.401	65.002	-0.109	0.0	0.2	0.0
1032	65.401	65.002	-0.109	0.0	0.2	0.0
1056	65.401	65.002	-0.109	0.0	0.2	0.1
1080	65.401	65.002	-0.109	0.0	0.2	0.1
1104	65.401	65.002	-0.109	0.0	0.2	0.1
1128	65.402	65.002	-0.108	0.0	0.3	0.1
1152	65.402	65.002	-0.108	0.0	0.3	0.1
1176	65.402	65.002	-0.108	0.0	0.3	0.1
1200	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.402	65.003	-0.108	0.0	0.3	0.1
1248	65.402	65.003	-0.108	0.0	0.3	0.1
1272	65.402	65.003	-0.108	0.0	0.3	0.1
1296	65.402	65.003	-0.108	0.0	0.3	0.1
1320	65.402	65.003	-0.108	0.0	0.3	0.1
1344	65.402	65.003	-0.108	0.0	0.4	0.1
1368	65.402	65.003	-0.108	0.0	0.4	0.1
1392	65.402	65.003	-0.108	0.0	0.4	0.1
1416	65.402	65.003	-0.108	0.0	0.4	0.1
1440	65.402	65.003	-0.108	0.0	0.4	0.1
1464	65.402	65.003	-0.108	0.0	0.4	0.1
1488	65.402	65.003	-0.108	0.0	0.4	0.1
1512	65.402	65.003	-0.108	0.0	0.4	0.1
1536	65.402	65.003	-0.108	0.0	0.4	0.1
1560	65.402	65.003	-0.108	0.0	0.4	0.1
1584	65.402	65.003	-0.108	0.0	0.3	0.1
1608	65.402	65.003	-0.108	0.0	0.3	0.1
1632	65.402	65.003	-0.108	0.0	0.3	0.1
1656	65.402	65.003	-0.108	0.0	0.3	0.1
1680	65.402	65.003	-0.108	0.0	0.3	0.1
1704	65.402	65.002	-0.108	0.0	0.3	0.1
1728	65.402	65.002	-0.108	0.0	0.3	0.1
1752	65.402	65.002	-0.108	0.0	0.3	0.1
1776	65.402	65.002	-0.108	0.0	0.3	0.1
1800	65.401	65.002	-0.109	0.0	0.2	0.1
1824	65.401	65.002	-0.109	0.0	0.2	0.1
1848	65.401	65.002	-0.109	0.0	0.2	0.1
1872	65.401	65.002	-0.109	0.0	0.2	0.0
1896	65.401	65.002	-0.109	0.0	0.2	0.0
1920	65.401	65.002	-0.109	0.0	0.2	0.0
1944	65.401	65.001	-0.109	0.0	0.2	0.0
1968	65.401	65.001	-0.109	0.0	0.2	0.0
1992	65.401	65.001	-0.109	0.0	0.2	0.0
2016	65.401	65.001	-0.109	0.0	0.1	0.0
2040	65.401	65.001	-0.109	0.0	0.1	0.0
2064	65.401	65.001	-0.109	0.0	0.1	0.0
2088	65.401	65.001	-0.109	0.0	0.1	0.0
2112	65.401	65.001	-0.109	0.0	0.1	0.0
2136	65.401	65.001	-0.109	0.0	0.1	0.0
2160	65.401	65.001	-0.109	0.0	0.1	0.0
2184	65.401	65.001	-0.109	0.0	0.1	0.0
2208	65.401	65.001	-0.109	0.0	0.1	0.0
2232	65.400	65.001	-0.110	0.0	0.1	0.0
2256	65.400	65.001	-0.110	0.0	0.1	0.0
2280	65.400	65.001	-0.110	0.0	0.1	0.0
2304	65.400	65.001	-0.110	0.0	0.1	0.0
2328	65.400	65.001	-0.110	0.0	0.1	0.0
2352	65.400	65.001	-0.110	0.0	0.1	0.0
2376	65.400	65.001	-0.110	0.0	0.1	0.0
2400	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.001	-0.110	0.0	0.1	0.0
2448	65.400	65.001	-0.110	0.0	0.1	0.0
2472	65.400	65.001	-0.110	0.0	0.1	0.0
2496	65.400	65.001	-0.110	0.0	0.1	0.0
2520	65.400	65.001	-0.110	0.0	0.1	0.0
2544	65.400	65.001	-0.110	0.0	0.1	0.0
2568	65.400	65.001	-0.110	0.0	0.1	0.0
2592	65.400	65.001	-0.110	0.0	0.1	0.0
2616	65.400	65.001	-0.110	0.0	0.1	0.0
2640	65.400	65.001	-0.110	0.0	0.1	0.0
2664	65.400	65.001	-0.110	0.0	0.1	0.0
2688	65.400	65.001	-0.110	0.0	0.1	0.0
2712	65.400	65.000	-0.110	0.0	0.1	0.0
2736	65.400	65.000	-0.110	0.0	0.1	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.0	0.0
3072	65.400	65.000	-0.110	0.0	0.0	0.0
3096	65.400	65.000	-0.110	0.0	0.0	0.0
3120	65.400	65.000	-0.110	0.0	0.0	0.0
3144	65.400	65.000	-0.110	0.0	0.0	0.0
3168	65.400	65.000	-0.110	0.0	0.0	0.0
3192	65.400	65.000	-0.110	0.0	0.0	0.0
3216	65.400	65.000	-0.110	0.0	0.0	0.0
3240	65.400	65.000	-0.110	0.0	0.0	0.0
3264	65.400	65.000	-0.110	0.0	0.0	0.0
3288	65.400	65.000	-0.110	0.0	0.0	0.0
3312	65.400	65.000	-0.110	0.0	0.0	0.0
3336	65.400	65.000	-0.110	0.0	0.0	0.0
3360	65.400	65.000	-0.110	0.0	0.0	0.0
3384	65.400	65.000	-0.110	0.0	0.0	0.0
3408	65.400	65.000	-0.110	0.0	0.0	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.0	0.0
3480	65.400	65.000	-0.110	0.0	0.0	0.0
3504	65.400	65.000	-0.110	0.0	0.0	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0
4344	65.400	65.000	-0.110	0.0	0.0	0.0
4368	65.400	65.000	-0.110	0.0	0.0	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.445	-0.110	0.0	0.0	0.0
72	65.000	63.446	-0.110	0.0	0.1	0.0
96	65.000	63.447	-0.110	0.0	0.1	0.0
120	65.000	63.447	-0.110	0.0	0.1	0.0
144	65.000	63.447	-0.110	0.0	0.1	0.0
168	65.000	63.448	-0.110	0.0	0.1	0.0
192	65.000	63.448	-0.110	0.0	0.1	0.0
216	65.001	63.448	-0.109	0.0	0.1	0.0
240	65.001	63.449	-0.109	0.0	0.1	0.0
264	65.001	63.449	-0.109	0.0	0.1	0.0
288	65.001	63.449	-0.109	0.0	0.1	0.0
312	65.001	63.449	-0.109	0.0	0.1	0.0
336	65.001	63.449	-0.109	0.0	0.1	0.0
360	65.001	63.449	-0.109	0.0	0.1	0.0
384	65.001	63.449	-0.109	0.0	0.1	0.0
408	65.001	63.449	-0.109	0.0	0.1	0.0
432	65.001	63.449	-0.109	0.0	0.1	0.0
456	65.001	63.449	-0.109	0.0	0.1	0.0
480	65.001	63.449	-0.109	0.0	0.1	0.0
504	65.001	63.449	-0.109	0.0	0.1	0.0
528	65.001	63.449	-0.109	0.0	0.1	0.0
552	65.001	63.449	-0.109	0.0	0.1	0.0
576	65.001	63.449	-0.109	0.0	0.1	0.0
600	65.001	63.449	-0.109	0.0	0.1	0.0
624	65.001	63.449	-0.109	0.0	0.1	0.0
648	65.001	63.450	-0.109	0.0	0.2	0.0
672	65.001	63.450	-0.109	0.0	0.2	0.0
696	65.001	63.450	-0.109	0.0	0.2	0.0
720	65.001	63.450	-0.109	0.0	0.2	0.0
744	65.001	63.451	-0.109	0.0	0.2	0.0
768	65.001	63.451	-0.109	0.0	0.2	0.0
792	65.001	63.452	-0.109	0.0	0.2	0.1
816	65.001	63.452	-0.109	0.0	0.2	0.1
840	65.001	63.452	-0.109	0.0	0.2	0.1
864	65.001	63.453	-0.109	0.0	0.3	0.1
888	65.001	63.454	-0.109	0.0	0.3	0.1
912	65.001	63.455	-0.109	0.0	0.3	0.1
936	65.001	63.455	-0.109	0.0	0.3	0.1
960	65.001	63.455	-0.109	0.0	0.3	0.1
984	65.002	63.456	-0.108	0.0	0.4	0.1
1008	65.002	63.456	-0.108	0.0	0.4	0.1
1032	65.002	63.456	-0.108	0.0	0.4	0.1
1056	65.002	63.456	-0.108	0.0	0.4	0.1
1080	65.002	63.457	-0.108	0.0	0.5	0.1
1104	65.002	63.457	-0.108	0.0	0.5	0.1
1128	65.002	63.457	-0.108	0.0	0.5	0.1
1152	65.002	63.457	-0.108	0.0	0.5	0.1
1176	65.002	63.458	-0.108	0.0	0.6	0.1
1200	65.002	63.458	-0.108	0.0	0.6	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.003	63.458	-0.107	0.0	0.6	0.1
1248	65.003	63.459	-0.107	0.0	0.6	0.2
1272	65.003	63.459	-0.107	0.0	0.6	0.2
1296	65.003	63.459	-0.107	0.0	0.7	0.2
1320	65.003	63.459	-0.107	0.0	0.7	0.2
1344	65.003	63.459	-0.107	0.0	0.7	0.2
1368	65.003	63.460	-0.107	0.0	0.7	0.2
1392	65.003	63.460	-0.107	0.0	0.7	0.2
1416	65.003	63.463	-0.107	0.0	0.7	0.2
1440	65.003	63.470	-0.107	0.0	0.7	0.2
1464	65.003	63.481	-0.107	0.0	0.7	0.2
1488	65.003	63.492	-0.107	0.0	0.7	0.2
1512	65.003	63.504	-0.107	0.0	0.7	0.2
1536	65.003	63.514	-0.107	0.0	0.7	0.2
1560	65.003	63.525	-0.107	0.0	0.7	0.2
1584	65.003	63.535	-0.107	0.0	0.7	0.2
1608	65.003	63.545	-0.107	0.0	0.7	0.2
1632	65.003	63.554	-0.107	0.0	0.6	0.2
1656	65.003	63.563	-0.107	0.0	0.6	0.2
1680	65.003	63.572	-0.107	0.0	0.6	0.1
1704	65.002	63.580	-0.108	0.0	0.6	0.1
1728	65.002	63.587	-0.108	0.0	0.6	0.1
1752	65.002	63.594	-0.108	0.0	0.5	0.1
1776	65.002	63.601	-0.108	0.0	0.5	0.1
1800	65.002	63.607	-0.108	0.0	0.5	0.1
1824	65.002	63.612	-0.108	0.0	0.5	0.1
1848	65.002	63.617	-0.108	0.0	0.4	0.1
1872	65.002	63.622	-0.108	0.0	0.4	0.1
1896	65.002	63.626	-0.108	0.0	0.4	0.1
1920	65.002	63.629	-0.108	0.0	0.4	0.1
1944	65.001	63.632	-0.109	0.0	0.3	0.1
1968	65.001	63.635	-0.109	0.0	0.3	0.1
1992	65.001	63.637	-0.109	0.0	0.3	0.1
2016	65.001	63.639	-0.109	0.0	0.3	0.1
2040	65.001	63.641	-0.109	0.0	0.3	0.1
2064	65.001	63.642	-0.109	0.0	0.2	0.1
2088	65.001	63.643	-0.109	0.0	0.2	0.1
2112	65.001	63.644	-0.109	0.0	0.2	0.1
2136	65.001	63.644	-0.109	0.0	0.2	0.0
2160	65.001	63.645	-0.109	0.0	0.2	0.0
2184	65.001	63.645	-0.109	0.0	0.2	0.0
2208	65.001	63.644	-0.109	0.0	0.2	0.0
2232	65.001	63.644	-0.109	0.0	0.2	0.0
2256	65.001	63.643	-0.109	0.0	0.2	0.0
2280	65.001	63.643	-0.109	0.0	0.2	0.0
2304	65.001	63.642	-0.109	0.0	0.1	0.0
2328	65.001	63.642	-0.109	0.0	0.1	0.0
2352	65.001	63.640	-0.109	0.0	0.1	0.0
2376	65.001	63.639	-0.109	0.0	0.1	0.0
2400	65.001	63.638	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.637	-0.109	0.0	0.1	0.0
2448	65.001	63.636	-0.109	0.0	0.1	0.0
2472	65.001	63.635	-0.109	0.0	0.1	0.0
2496	65.001	63.634	-0.109	0.0	0.1	0.0
2520	65.001	63.633	-0.109	0.0	0.1	0.0
2544	65.001	63.632	-0.109	0.0	0.1	0.0
2568	65.001	63.631	-0.109	0.0	0.1	0.0
2592	65.001	63.630	-0.109	0.0	0.1	0.0
2616	65.001	63.629	-0.109	0.0	0.1	0.0
2640	65.001	63.628	-0.109	0.0	0.1	0.0
2664	65.001	63.627	-0.109	0.0	0.1	0.0
2688	65.001	63.626	-0.109	0.0	0.1	0.0
2712	65.000	63.624	-0.110	0.0	0.1	0.0
2736	65.000	63.623	-0.110	0.0	0.1	0.0
2760	65.000	63.621	-0.110	0.0	0.1	0.0
2784	65.000	63.619	-0.110	0.0	0.1	0.0
2808	65.000	63.617	-0.110	0.0	0.1	0.0
2832	65.000	63.615	-0.110	0.0	0.1	0.0
2856	65.000	63.612	-0.110	0.0	0.0	0.0
2880	65.000	63.609	-0.110	0.0	0.0	0.0
2904	65.000	63.605	-0.110	0.0	0.0	0.0
2928	65.000	63.601	-0.110	0.0	0.0	0.0
2952	65.000	63.598	-0.110	0.0	0.0	0.0
2976	65.000	63.594	-0.110	0.0	0.0	0.0
3000	65.000	63.591	-0.110	0.0	0.0	0.0
3024	65.000	63.587	-0.110	0.0	0.0	0.0
3048	65.000	63.584	-0.110	0.0	0.0	0.0
3072	65.000	63.579	-0.110	0.0	0.0	0.0
3096	65.000	63.576	-0.110	0.0	0.0	0.0
3120	65.000	63.572	-0.110	0.0	0.0	0.0
3144	65.000	63.569	-0.110	0.0	0.0	0.0
3168	65.000	63.565	-0.110	0.0	0.0	0.0
3192	65.000	63.562	-0.110	0.0	0.0	0.0
3216	65.000	63.558	-0.110	0.0	0.0	0.0
3240	65.000	63.555	-0.110	0.0	0.0	0.0
3264	65.000	63.551	-0.110	0.0	0.0	0.0
3288	65.000	63.548	-0.110	0.0	0.0	0.0
3312	65.000	63.544	-0.110	0.0	0.0	0.0
3336	65.000	63.541	-0.110	0.0	0.0	0.0
3360	65.000	63.538	-0.110	0.0	0.0	0.0
3384	65.000	63.534	-0.110	0.0	0.0	0.0
3408	65.000	63.530	-0.110	0.0	0.0	0.0
3432	65.000	63.527	-0.110	0.0	0.0	0.0
3456	65.000	63.524	-0.110	0.0	0.0	0.0
3480	65.000	63.520	-0.110	0.0	0.0	0.0
3504	65.000	63.517	-0.110	0.0	0.0	0.0
3528	65.000	63.514	-0.110	0.0	0.0	0.0
3552	65.000	63.510	-0.110	0.0	0.0	0.0
3576	65.000	63.507	-0.110	0.0	0.0	0.0
3600	65.000	63.503	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.500	-0.110	0.0	0.0	0.0
3648	65.000	63.496	-0.110	0.0	0.0	0.0
3672	65.000	63.493	-0.110	0.0	0.0	0.0
3696	65.000	63.490	-0.110	0.0	0.0	0.0
3720	65.000	63.487	-0.110	0.0	0.0	0.0
3744	65.000	63.483	-0.110	0.0	0.0	0.0
3768	65.000	63.480	-0.110	0.0	0.0	0.0
3792	65.000	63.477	-0.110	0.0	0.0	0.0
3816	65.000	63.473	-0.110	0.0	0.0	0.0
3840	65.000	63.470	-0.110	0.0	0.0	0.0
3864	65.000	63.467	-0.110	0.0	0.0	0.0
3888	65.000	63.463	-0.110	0.0	0.0	0.0
3912	65.000	63.460	-0.110	0.0	0.0	0.0
3936	65.000	63.457	-0.110	0.0	0.0	0.0
3960	65.000	63.453	-0.110	0.0	0.0	0.0
3984	65.000	63.451	-0.110	0.0	0.0	0.0
4008	65.000	63.447	-0.110	0.0	0.0	0.0
4032	65.000	63.444	-0.110	0.0	0.0	0.0
4056	65.000	63.444	-0.110	0.0	0.0	0.0
4080	65.000	63.444	-0.110	0.0	0.0	0.0
4104	65.000	63.444	-0.110	0.0	0.0	0.0
4128	65.000	63.444	-0.110	0.0	0.0	0.0
4152	65.000	63.444	-0.110	0.0	0.0	0.0
4176	65.000	63.444	-0.110	0.0	0.0	0.0
4200	65.000	63.444	-0.110	0.0	0.0	0.0
4224	65.000	63.444	-0.110	0.0	0.0	0.0
4248	65.000	63.444	-0.110	0.0	0.0	0.0
4272	65.000	63.444	-0.110	0.0	0.0	0.0
4296	65.000	63.444	-0.110	0.0	0.0	0.0
4320	65.000	63.444	-0.110	0.0	0.0	0.0
4344	65.000	63.444	-0.110	0.0	0.0	0.0
4368	65.000	63.444	-0.110	0.0	0.0	0.0
4392	65.000	63.444	-0.110	0.0	0.0	0.0
4416	65.000	63.444	-0.110	0.0	0.0	0.0
4440	65.000	63.444	-0.110	0.0	0.0	0.0
4464	65.000	63.444	-0.110	0.0	0.0	0.0
4488	65.000	63.444	-0.110	0.0	0.0	0.0
4512	65.000	63.444	-0.110	0.0	0.0	0.0
4536	65.000	63.444	-0.110	0.0	0.0	0.0
4560	65.000	63.444	-0.110	0.0	0.0	0.0
4584	65.000	63.444	-0.110	0.0	0.0	0.0
4608	65.000	63.444	-0.110	0.0	0.0	0.0
4632	65.000	63.444	-0.110	0.0	0.0	0.0
4656	65.000	63.444	-0.110	0.0	0.0	0.0
4680	65.000	63.444	-0.110	0.0	0.0	0.0
4704	65.000	63.444	-0.110	0.0	0.0	0.0
4728	65.000	63.444	-0.110	0.0	0.0	0.0
4752	65.000	63.444	-0.110	0.0	0.0	0.0
4776	65.000	63.444	-0.110	0.0	0.0	0.0
4800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.444	-0.110	0.0	0.0	0.0
4848	65.000	63.444	-0.110	0.0	0.0	0.0
4872	65.000	63.444	-0.110	0.0	0.0	0.0
4896	65.000	63.444	-0.110	0.0	0.0	0.0
4920	65.000	63.444	-0.110	0.0	0.0	0.0
4944	65.000	63.444	-0.110	0.0	0.0	0.0
4968	65.000	63.444	-0.110	0.0	0.0	0.0
4992	65.000	63.444	-0.110	0.0	0.0	0.0
5016	65.000	63.444	-0.110	0.0	0.0	0.0
5040	65.000	63.444	-0.110	0.0	0.0	0.0
5064	65.000	63.444	-0.110	0.0	0.0	0.0
5088	65.000	63.444	-0.110	0.0	0.0	0.0
5112	65.000	63.444	-0.110	0.0	0.0	0.0
5136	65.000	63.444	-0.110	0.0	0.0	0.0
5160	65.000	63.444	-0.110	0.0	0.0	0.0
5184	65.000	63.444	-0.110	0.0	0.0	0.0
5208	65.000	63.444	-0.110	0.0	0.0	0.0
5232	65.000	63.444	-0.110	0.0	0.0	0.0
5256	65.000	63.444	-0.110	0.0	0.0	0.0
5280	65.000	63.444	-0.110	0.0	0.0	0.0
5304	65.000	63.444	-0.110	0.0	0.0	0.0
5328	65.000	63.444	-0.110	0.0	0.0	0.0
5352	65.000	63.444	-0.110	0.0	0.0	0.0
5376	65.000	63.444	-0.110	0.0	0.0	0.0
5400	65.000	63.444	-0.110	0.0	0.0	0.0
5424	65.000	63.444	-0.110	0.0	0.0	0.0
5448	65.000	63.444	-0.110	0.0	0.0	0.0
5472	65.000	63.444	-0.110	0.0	0.0	0.0
5496	65.000	63.444	-0.110	0.0	0.0	0.0
5520	65.000	63.444	-0.110	0.0	0.0	0.0
5544	65.000	63.444	-0.110	0.0	0.0	0.0
5568	65.000	63.444	-0.110	0.0	0.0	0.0
5592	65.000	63.444	-0.110	0.0	0.0	0.0
5616	65.000	63.444	-0.110	0.0	0.0	0.0
5640	65.000	63.444	-0.110	0.0	0.0	0.0
5664	65.000	63.444	-0.110	0.0	0.0	0.0
5688	65.000	63.444	-0.110	0.0	0.0	0.0
5712	65.000	63.444	-0.110	0.0	0.0	0.0
5736	65.000	63.444	-0.110	0.0	0.0	0.0
5760	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.445	63.250	-0.109	0.0	0.0	0.0
72	63.446	63.251	-0.108	0.0	0.1	0.0
96	63.447	63.253	-0.108	0.0	0.1	0.0
120	63.447	63.254	-0.107	0.0	0.2	0.0
144	63.447	63.256	-0.107	0.0	0.2	0.0
168	63.448	63.258	-0.106	0.0	0.2	0.1
192	63.448	63.260	-0.106	0.0	0.2	0.1
216	63.448	63.261	-0.106	0.0	0.2	0.1
240	63.449	63.263	-0.106	0.0	0.2	0.1
264	63.449	63.264	-0.105	0.0	0.3	0.1
288	63.449	63.266	-0.105	0.0	0.3	0.1
312	63.449	63.267	-0.105	0.0	0.3	0.1
336	63.449	63.267	-0.105	0.0	0.3	0.1
360	63.449	63.268	-0.105	0.0	0.3	0.1
384	63.449	63.269	-0.105	0.0	0.3	0.1
408	63.449	63.269	-0.105	0.0	0.3	0.1
432	63.449	63.270	-0.105	0.0	0.3	0.1
456	63.449	63.270	-0.105	0.0	0.3	0.1
480	63.449	63.270	-0.105	0.0	0.3	0.1
504	63.449	63.271	-0.105	0.0	0.3	0.1
528	63.449	63.271	-0.105	0.0	0.3	0.1
552	63.449	63.271	-0.105	0.0	0.3	0.1
576	63.449	63.271	-0.105	0.0	0.3	0.1
600	63.449	63.271	-0.105	0.0	0.3	0.1
624	63.449	63.272	-0.105	0.0	0.3	0.1
648	63.450	63.272	-0.105	0.0	0.3	0.1
672	63.450	63.273	-0.104	0.0	0.3	0.1
696	63.450	63.273	-0.104	0.0	0.3	0.1
720	63.450	63.274	-0.104	0.0	0.4	0.1
744	63.451	63.274	-0.103	0.0	0.4	0.1
768	63.451	63.275	-0.103	0.0	0.4	0.1
792	63.452	63.276	-0.102	0.0	0.4	0.1
816	63.452	63.278	-0.102	0.0	0.4	0.1
840	63.452	63.279	-0.102	0.0	0.4	0.1
864	63.453	63.281	-0.101	0.0	0.3	0.1
888	63.454	63.283	-0.100	0.0	0.3	0.1
912	63.455	63.285	-0.099	0.0	0.3	0.1
936	63.455	63.288	-0.099	0.0	0.3	0.2
960	63.455	63.291	-0.099	0.0	0.3	0.2
984	63.456	63.296	-0.098	0.0	0.3	0.2
1008	63.456	63.301	-0.098	0.0	0.3	0.2
1032	63.456	63.307	-0.098	0.0	0.3	0.2
1056	63.456	63.313	-0.098	0.0	0.4	0.2
1080	63.457	63.320	-0.097	0.0	0.4	0.2
1104	63.457	63.327	-0.097	0.0	0.4	0.2
1128	63.457	63.335	-0.097	0.0	0.4	0.2
1152	63.457	63.343	-0.097	0.0	0.4	0.3
1176	63.458	63.351	-0.096	0.0	0.4	0.3
1200	63.458	63.360	-0.096	0.0	0.4	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.458	63.372	-0.096	0.0	0.4	0.3
1248	63.459	63.383	-0.096	0.0	0.4	0.3
1272	63.459	63.394	-0.095	0.0	0.4	0.3
1296	63.459	63.405	-0.095	0.0	0.4	0.3
1320	63.459	63.415	-0.095	0.0	0.4	0.3
1344	63.459	63.426	-0.095	0.0	0.4	0.3
1368	63.460	63.436	-0.095	0.0	0.4	0.3
1392	63.460	63.446	-0.094	0.0	0.4	0.4
1416	63.463	63.457	-0.091	0.0	0.4	0.4
1440	63.470	63.468	-0.084	0.0	0.3	0.4
1464	63.481	63.480	-0.073	0.0	0.2	0.4
1488	63.492	63.491	-0.062	0.0	0.1	0.4
1512	63.504	63.502	-0.051	0.0	0.1	0.3
1536	63.514	63.513	-0.040	0.0	0.1	0.3
1560	63.525	63.524	-0.029	0.0	0.0	0.3
1584	63.535	63.534	-0.019	0.0	0.0	0.3
1608	63.545	63.544	-0.009	0.0	0.0	0.3
1632	63.554	63.553	0.000	0.0	0.0	0.3
1656	63.563	63.562	0.009	0.0	0.0	0.3
1680	63.572	63.571	0.018	0.0	0.0	0.3
1704	63.580	63.579	0.026	0.0	0.0	0.3
1728	63.587	63.587	0.033	0.0	0.0	0.3
1752	63.594	63.594	0.040	0.0	0.0	0.3
1776	63.601	63.600	0.047	0.0	0.0	0.2
1800	63.607	63.606	0.053	0.0	0.0	0.2
1824	63.612	63.612	0.058	0.0	0.0	0.2
1848	63.617	63.617	0.063	0.0	0.0	0.2
1872	63.622	63.621	0.068	0.0	0.0	0.2
1896	63.626	63.625	0.071	0.0	0.0	0.2
1920	63.629	63.629	0.075	0.0	0.0	0.2
1944	63.632	63.632	0.078	0.0	0.0	0.2
1968	63.635	63.635	0.081	0.0	0.0	0.2
1992	63.637	63.637	0.083	0.0	0.0	0.1
2016	63.639	63.639	0.085	0.0	0.0	0.1
2040	63.641	63.640	0.087	0.0	0.0	0.1
2064	63.642	63.642	0.088	0.0	0.0	0.1
2088	63.643	63.643	0.089	0.0	0.0	0.1
2112	63.644	63.644	0.090	0.0	0.0	0.1
2136	63.644	63.644	0.090	0.0	0.0	0.1
2160	63.645	63.644	0.091	0.0	0.0	0.1
2184	63.645	63.644	0.090	0.0	0.0	0.1
2208	63.644	63.644	0.090	0.0	0.0	0.1
2232	63.644	63.644	0.090	0.0	0.0	0.1
2256	63.643	63.643	0.089	0.0	0.0	0.1
2280	63.643	63.643	0.089	0.0	0.0	0.1
2304	63.642	63.642	0.088	0.0	0.0	0.1
2328	63.642	63.641	0.087	0.0	0.0	0.1
2352	63.640	63.640	0.086	0.0	0.0	0.1
2376	63.639	63.639	0.085	0.0	0.0	0.1
2400	63.638	63.638	0.084	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.637	63.637	0.083	0.0	0.0	0.1
2448	63.636	63.636	0.082	0.0	0.0	0.1
2472	63.635	63.635	0.081	0.0	0.0	0.1
2496	63.634	63.634	0.080	0.0	0.0	0.1
2520	63.633	63.633	0.079	0.0	0.0	0.1
2544	63.632	63.632	0.078	0.0	0.0	0.1
2568	63.631	63.631	0.077	0.0	0.0	0.1
2592	63.630	63.630	0.076	0.0	0.0	0.1
2616	63.629	63.629	0.075	0.0	0.0	0.1
2640	63.628	63.628	0.074	0.0	0.0	0.1
2664	63.627	63.627	0.073	0.0	0.0	0.1
2688	63.626	63.626	0.072	0.0	0.0	0.1
2712	63.624	63.624	0.070	0.0	0.0	0.1
2736	63.623	63.623	0.069	0.0	0.0	0.1
2760	63.621	63.621	0.067	0.0	0.0	0.0
2784	63.619	63.619	0.065	0.0	0.0	0.0
2808	63.617	63.617	0.063	0.0	0.0	0.0
2832	63.615	63.615	0.061	0.0	0.0	0.0
2856	63.612	63.612	0.058	0.0	0.0	0.0
2880	63.609	63.609	0.054	0.0	0.0	0.0
2904	63.605	63.605	0.051	0.0	0.0	0.0
2928	63.601	63.601	0.047	0.0	0.0	0.0
2952	63.598	63.598	0.044	0.0	0.0	0.0
2976	63.594	63.594	0.040	0.0	0.0	0.0
3000	63.591	63.591	0.037	0.0	0.0	0.0
3024	63.587	63.587	0.033	0.0	0.0	0.0
3048	63.584	63.584	0.030	0.0	0.0	0.0
3072	63.579	63.580	0.025	0.0	0.0	0.0
3096	63.576	63.576	0.022	0.0	0.0	0.0
3120	63.572	63.572	0.018	0.0	0.0	0.0
3144	63.569	63.569	0.015	0.0	0.0	0.0
3168	63.565	63.565	0.011	0.0	0.0	0.0
3192	63.562	63.562	0.008	0.0	0.0	0.0
3216	63.558	63.558	0.004	0.0	0.0	0.0
3240	63.555	63.555	0.001	0.0	0.0	0.0
3264	63.551	63.551	-0.003	0.0	0.0	0.0
3288	63.548	63.548	-0.006	0.0	0.0	0.0
3312	63.544	63.544	-0.010	0.0	0.0	0.0
3336	63.541	63.541	-0.013	0.0	0.0	0.0
3360	63.538	63.538	-0.017	0.0	0.0	0.0
3384	63.534	63.534	-0.020	0.0	0.0	0.0
3408	63.530	63.531	-0.024	0.0	0.0	0.0
3432	63.527	63.527	-0.027	0.0	0.0	0.0
3456	63.524	63.524	-0.030	0.0	0.0	0.0
3480	63.520	63.521	-0.034	0.0	0.0	0.0
3504	63.517	63.517	-0.037	0.0	0.0	0.0
3528	63.514	63.514	-0.040	0.0	0.0	0.0
3552	63.510	63.510	-0.044	0.0	0.0	0.0
3576	63.507	63.507	-0.047	0.0	0.0	0.0
3600	63.503	63.504	-0.051	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.500	63.500	-0.054	0.0	0.0	0.0
3648	63.496	63.497	-0.058	0.0	0.0	0.0
3672	63.493	63.494	-0.061	0.0	0.0	0.0
3696	63.490	63.490	-0.064	0.0	0.0	0.0
3720	63.487	63.487	-0.067	0.0	0.0	0.0
3744	63.483	63.483	-0.071	0.0	0.0	0.0
3768	63.480	63.480	-0.074	0.0	0.0	0.0
3792	63.477	63.477	-0.078	0.0	0.0	0.0
3816	63.473	63.473	-0.081	0.0	0.0	0.0
3840	63.470	63.470	-0.084	0.0	0.0	0.0
3864	63.467	63.467	-0.087	0.0	0.0	0.0
3888	63.463	63.463	-0.091	0.0	0.0	0.0
3912	63.460	63.460	-0.094	0.0	0.0	0.0
3936	63.457	63.457	-0.097	0.0	0.0	0.0
3960	63.453	63.453	-0.101	0.0	0.0	0.0
3984	63.451	63.450	-0.103	0.0	0.0	0.0
4008	63.447	63.447	-0.107	0.0	0.0	0.0
4032	63.444	63.444	-0.110	0.0	0.0	0.0
4056	63.444	63.441	-0.110	0.0	0.0	0.0
4080	63.444	63.437	-0.110	0.0	0.0	0.0
4104	63.444	63.434	-0.110	0.0	0.0	0.0
4128	63.444	63.431	-0.110	0.0	0.0	0.0
4152	63.444	63.427	-0.110	0.0	0.0	0.0
4176	63.444	63.424	-0.110	0.0	0.0	0.0
4200	63.444	63.421	-0.110	0.0	0.0	0.0
4224	63.444	63.418	-0.110	0.0	0.0	0.0
4248	63.444	63.414	-0.110	0.0	0.0	0.0
4272	63.444	63.411	-0.110	0.0	0.0	0.0
4296	63.444	63.408	-0.110	0.0	0.0	0.0
4320	63.444	63.404	-0.110	0.0	0.0	0.0
4344	63.444	63.401	-0.110	0.0	0.0	0.0
4368	63.444	63.398	-0.110	0.0	0.0	0.0
4392	63.444	63.395	-0.110	0.0	0.0	0.0
4416	63.444	63.392	-0.110	0.0	0.0	0.0
4440	63.444	63.388	-0.110	0.0	0.0	0.0
4464	63.444	63.385	-0.110	0.0	0.0	0.0
4488	63.444	63.382	-0.110	0.0	0.0	0.0
4512	63.444	63.380	-0.110	0.0	0.0	0.0
4536	63.444	63.377	-0.110	0.0	0.0	0.0
4560	63.444	63.374	-0.110	0.0	0.0	0.0
4584	63.444	63.372	-0.110	0.0	0.0	0.0
4608	63.444	63.369	-0.110	0.0	0.0	0.0
4632	63.444	63.367	-0.110	0.0	0.0	0.0
4656	63.444	63.365	-0.110	0.0	0.0	0.0
4680	63.444	63.363	-0.110	0.0	0.0	0.0
4704	63.444	63.359	-0.110	0.0	0.0	0.0
4728	63.444	63.354	-0.110	0.0	0.0	0.0
4752	63.444	63.350	-0.110	0.0	0.0	0.0
4776	63.444	63.347	-0.110	0.0	0.0	0.0
4800	63.444	63.344	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.444	63.341	-0.110	0.0	0.0	0.0
4848	63.444	63.338	-0.110	0.0	0.0	0.0
4872	63.444	63.335	-0.110	0.0	0.0	0.0
4896	63.444	63.331	-0.110	0.0	0.0	0.0
4920	63.444	63.328	-0.110	0.0	0.0	0.0
4944	63.444	63.325	-0.110	0.0	0.0	0.0
4968	63.444	63.322	-0.110	0.0	0.0	0.0
4992	63.444	63.319	-0.110	0.0	0.0	0.0
5016	63.444	63.316	-0.110	0.0	0.0	0.0
5040	63.444	63.313	-0.110	0.0	0.0	0.0
5064	63.444	63.310	-0.110	0.0	0.0	0.0
5088	63.444	63.307	-0.110	0.0	0.0	0.0
5112	63.444	63.304	-0.110	0.0	0.0	0.0
5136	63.444	63.301	-0.110	0.0	0.0	0.0
5160	63.444	63.297	-0.110	0.0	0.0	0.0
5184	63.444	63.294	-0.110	0.0	0.0	0.0
5208	63.444	63.291	-0.110	0.0	0.0	0.0
5232	63.444	63.287	-0.110	0.0	0.0	0.0
5256	63.444	63.284	-0.110	0.0	0.0	0.0
5280	63.444	63.281	-0.110	0.0	0.0	0.0
5304	63.444	63.278	-0.110	0.0	0.0	0.0
5328	63.444	63.275	-0.110	0.0	0.0	0.0
5352	63.444	63.271	-0.110	0.0	0.0	0.0
5376	63.444	63.269	-0.110	0.0	0.0	0.0
5400	63.444	63.267	-0.110	0.0	0.0	0.0
5424	63.444	63.265	-0.110	0.0	0.0	0.0
5448	63.444	63.263	-0.110	0.0	0.0	0.0
5472	63.444	63.262	-0.110	0.0	0.0	0.0
5496	63.444	63.261	-0.110	0.0	0.0	0.0
5520	63.444	63.260	-0.110	0.0	0.0	0.0
5544	63.444	63.259	-0.110	0.0	0.0	0.0
5568	63.444	63.258	-0.110	0.0	0.0	0.0
5592	63.444	63.258	-0.110	0.0	0.0	0.0
5616	63.444	63.257	-0.110	0.0	0.0	0.0
5640	63.444	63.257	-0.110	0.0	0.0	0.0
5664	63.444	63.256	-0.110	0.0	0.0	0.0
5688	63.444	63.256	-0.110	0.0	0.0	0.0
5712	63.444	63.256	-0.110	0.0	0.0	0.0
5736	63.444	63.256	-0.110	0.0	0.0	0.0
5760	63.444	63.255	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.251	63.100	-0.109	0.0	0.0	0.0
96	63.253	63.100	-0.107	0.0	0.0	0.0
120	63.254	63.101	-0.106	0.0	0.0	0.0
144	63.256	63.102	-0.104	0.0	0.0	0.0
168	63.258	63.104	-0.102	0.0	0.0	0.0
192	63.260	63.107	-0.100	0.0	0.1	0.0
216	63.261	63.111	-0.099	0.0	0.1	0.0
240	63.263	63.115	-0.097	0.0	0.1	0.0
264	63.264	63.119	-0.096	0.0	0.1	0.0
288	63.266	63.122	-0.094	0.0	0.2	0.0
312	63.267	63.126	-0.093	0.0	0.2	0.0
336	63.267	63.130	-0.093	0.0	0.2	0.0
360	63.268	63.133	-0.092	0.0	0.2	0.0
384	63.269	63.136	-0.091	0.0	0.2	0.1
408	63.269	63.138	-0.091	0.0	0.2	0.1
432	63.270	63.140	-0.090	0.0	0.2	0.1
456	63.270	63.142	-0.090	0.0	0.2	0.1
480	63.270	63.143	-0.090	0.0	0.2	0.1
504	63.271	63.145	-0.089	0.0	0.2	0.1
528	63.271	63.146	-0.089	0.0	0.2	0.1
552	63.271	63.147	-0.089	0.0	0.2	0.1
576	63.271	63.147	-0.089	0.0	0.2	0.1
600	63.271	63.148	-0.089	0.0	0.2	0.1
624	63.272	63.149	-0.088	0.0	0.2	0.1
648	63.272	63.150	-0.088	0.0	0.2	0.1
672	63.273	63.151	-0.087	0.0	0.2	0.1
696	63.273	63.154	-0.087	0.0	0.2	0.1
720	63.274	63.157	-0.086	0.0	0.2	0.1
744	63.274	63.161	-0.086	0.0	0.3	0.1
768	63.275	63.167	-0.085	0.0	0.3	0.1
792	63.276	63.173	-0.084	0.0	0.3	0.1
816	63.278	63.181	-0.082	0.0	0.3	0.1
840	63.279	63.189	-0.081	0.0	0.3	0.1
864	63.281	63.199	-0.079	0.0	0.3	0.1
888	63.283	63.212	-0.077	0.0	0.3	0.1
912	63.285	63.225	-0.075	0.0	0.3	0.1
936	63.288	63.238	-0.072	0.0	0.3	0.1
960	63.291	63.250	-0.069	0.0	0.3	0.1
984	63.296	63.250	-0.064	0.0	0.2	0.1
1008	63.301	63.250	-0.059	0.0	0.2	0.1
1032	63.307	63.251	-0.053	0.0	0.2	0.1
1056	63.313	63.251	-0.047	0.0	0.2	0.1
1080	63.320	63.251	-0.040	0.0	0.2	0.1
1104	63.327	63.253	-0.033	0.0	0.3	0.1
1128	63.335	63.257	-0.025	0.0	0.3	0.1
1152	63.343	63.263	-0.017	0.0	0.3	0.1
1176	63.351	63.269	-0.009	0.0	0.3	0.1
1200	63.360	63.276	0.000	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.372	63.263	0.012	0.0	0.2	0.0
1248	63.383	63.257	0.023	0.0	0.2	0.1
1272	63.394	63.259	0.034	0.0	0.3	0.1
1296	63.405	63.267	0.045	0.0	0.3	0.1
1320	63.415	63.281	0.055	0.0	0.3	0.1
1344	63.426	63.304	0.066	0.0	0.3	0.1
1368	63.436	63.331	0.076	0.0	0.3	0.1
1392	63.446	63.359	0.086	0.0	0.3	0.1
1416	63.457	63.379	0.097	0.0	0.3	0.1
1440	63.468	63.394	0.108	0.0	0.3	0.1
1464	63.480	63.407	0.120	0.0	0.2	0.1
1488	63.491	63.420	0.131	0.0	0.1	0.1
1512	63.502	63.431	0.142	0.0	0.0	0.1
1536	63.513	63.443	0.153	0.0	0.0	0.1
1560	63.524	63.453	0.164	0.0	0.0	0.1
1584	63.534	63.464	0.174	0.0	0.0	0.1
1608	63.544	63.474	0.184	0.0	0.0	0.1
1632	63.553	63.483	0.193	0.0	0.0	0.1
1656	63.562	63.493	0.202	0.0	0.0	0.1
1680	63.571	63.501	0.211	0.0	0.0	0.1
1704	63.579	63.510	0.219	0.0	0.0	0.1
1728	63.587	63.518	0.227	0.0	0.0	0.1
1752	63.594	63.525	0.234	0.0	0.0	0.1
1776	63.600	63.532	0.240	0.0	0.0	0.1
1800	63.606	63.539	0.246	0.0	0.0	0.1
1824	63.612	63.545	0.252	0.0	0.0	0.1
1848	63.617	63.551	0.257	0.0	0.0	0.1
1872	63.621	63.556	0.261	0.0	0.0	0.1
1896	63.625	63.560	0.265	0.0	0.0	0.1
1920	63.629	63.564	0.269	0.0	0.0	0.1
1944	63.632	63.568	0.272	0.0	0.0	0.1
1968	63.635	63.571	0.275	0.0	0.0	0.1
1992	63.637	63.574	0.277	0.0	0.0	0.1
2016	63.639	63.577	0.279	0.0	0.0	0.1
2040	63.640	63.579	0.280	0.0	0.0	0.1
2064	63.642	63.580	0.282	0.0	0.0	0.1
2088	63.643	63.582	0.283	0.0	0.0	0.1
2112	63.644	63.583	0.284	0.0	0.0	0.1
2136	63.644	63.584	0.284	0.0	0.0	0.1
2160	63.644	63.585	0.284	0.0	0.0	0.1
2184	63.644	63.585	0.284	0.0	0.0	0.1
2208	63.644	63.585	0.284	0.0	0.0	0.1
2232	63.644	63.585	0.284	0.0	0.0	0.1
2256	63.643	63.585	0.283	0.0	0.0	0.1
2280	63.643	63.584	0.283	0.0	0.0	0.1
2304	63.642	63.584	0.282	0.0	0.0	0.1
2328	63.641	63.583	0.281	0.0	0.0	0.1
2352	63.640	63.582	0.280	0.0	0.0	0.1
2376	63.639	63.582	0.279	0.0	0.0	0.1
2400	63.638	63.581	0.278	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.637	63.580	0.277	0.0	0.0	0.1
2448	63.636	63.579	0.276	0.0	0.0	0.1
2472	63.635	63.578	0.275	0.0	0.0	0.1
2496	63.634	63.577	0.274	0.0	0.0	0.1
2520	63.633	63.576	0.273	0.0	0.0	0.1
2544	63.632	63.575	0.272	0.0	0.0	0.1
2568	63.631	63.574	0.271	0.0	0.0	0.1
2592	63.630	63.573	0.270	0.0	0.0	0.1
2616	63.629	63.572	0.269	0.0	0.0	0.1
2640	63.628	63.571	0.268	0.0	0.0	0.1
2664	63.627	63.570	0.267	0.0	0.0	0.1
2688	63.626	63.569	0.266	0.0	0.0	0.1
2712	63.624	63.568	0.264	0.0	0.0	0.1
2736	63.623	63.566	0.263	0.0	0.0	0.1
2760	63.621	63.565	0.261	0.0	0.0	0.1
2784	63.619	63.564	0.259	0.0	0.0	0.1
2808	63.617	63.562	0.257	0.0	0.0	0.1
2832	63.615	63.560	0.255	0.0	0.0	0.1
2856	63.612	63.558	0.252	0.0	0.0	0.1
2880	63.609	63.555	0.249	0.0	0.0	0.1
2904	63.605	63.552	0.245	0.0	0.0	0.1
2928	63.601	63.549	0.241	0.0	0.0	0.1
2952	63.598	63.546	0.238	0.0	0.0	0.1
2976	63.594	63.542	0.234	0.0	0.0	0.1
3000	63.591	63.539	0.231	0.0	0.0	0.1
3024	63.587	63.535	0.227	0.0	0.0	0.1
3048	63.584	63.532	0.224	0.0	0.0	0.1
3072	63.580	63.528	0.220	0.0	0.0	0.1
3096	63.576	63.524	0.216	0.0	0.0	0.1
3120	63.572	63.521	0.212	0.0	0.0	0.1
3144	63.569	63.518	0.209	0.0	0.0	0.1
3168	63.565	63.514	0.205	0.0	0.0	0.1
3192	63.562	63.511	0.202	0.0	0.0	0.1
3216	63.558	63.507	0.198	0.0	0.0	0.1
3240	63.555	63.504	0.195	0.0	0.0	0.1
3264	63.551	63.501	0.191	0.0	0.0	0.1
3288	63.548	63.497	0.188	0.0	0.0	0.1
3312	63.544	63.494	0.184	0.0	0.0	0.1
3336	63.541	63.490	0.181	0.0	0.0	0.1
3360	63.538	63.487	0.178	0.0	0.0	0.1
3384	63.534	63.484	0.174	0.0	0.0	0.1
3408	63.531	63.481	0.171	0.0	0.0	0.1
3432	63.527	63.477	0.167	0.0	0.0	0.1
3456	63.524	63.474	0.164	0.0	0.0	0.1
3480	63.521	63.471	0.161	0.0	0.0	0.1
3504	63.517	63.467	0.157	0.0	0.0	0.1
3528	63.514	63.464	0.154	0.0	0.0	0.1
3552	63.510	63.461	0.150	0.0	0.0	0.1
3576	63.507	63.458	0.147	0.0	0.0	0.1
3600	63.504	63.454	0.144	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.500	63.451	0.140	0.0	0.0	0.1
3648	63.497	63.447	0.137	0.0	0.0	0.1
3672	63.494	63.444	0.134	0.0	0.0	0.1
3696	63.490	63.441	0.130	0.0	0.0	0.1
3720	63.487	63.438	0.127	0.0	0.0	0.1
3744	63.483	63.435	0.123	0.0	0.0	0.1
3768	63.480	63.431	0.120	0.0	0.0	0.1
3792	63.477	63.428	0.117	0.0	0.0	0.1
3816	63.473	63.425	0.113	0.0	0.0	0.1
3840	63.470	63.422	0.110	0.0	0.0	0.1
3864	63.467	63.419	0.107	0.0	0.0	0.1
3888	63.463	63.415	0.103	0.0	0.0	0.1
3912	63.460	63.412	0.100	0.0	0.0	0.1
3936	63.457	63.409	0.097	0.0	0.1	0.1
3960	63.453	63.406	0.093	0.0	0.1	0.1
3984	63.450	63.403	0.090	0.0	0.1	0.1
4008	63.447	63.399	0.087	0.0	0.2	0.1
4032	63.444	63.397	0.084	0.0	0.2	0.1
4056	63.441	63.393	0.081	0.0	0.2	0.1
4080	63.437	63.390	0.077	0.0	0.2	0.1
4104	63.434	63.387	0.074	0.0	0.2	0.1
4128	63.431	63.384	0.071	0.0	0.2	0.1
4152	63.427	63.381	0.067	0.0	0.2	0.1
4176	63.424	63.377	0.064	0.0	0.2	0.1
4200	63.421	63.374	0.061	0.0	0.2	0.1
4224	63.418	63.371	0.058	0.0	0.2	0.1
4248	63.414	63.368	0.054	0.0	0.2	0.1
4272	63.411	63.365	0.051	0.0	0.2	0.1
4296	63.408	63.361	0.048	0.0	0.2	0.1
4320	63.404	63.358	0.044	0.0	0.2	0.1
4344	63.401	63.355	0.041	0.0	0.2	0.1
4368	63.398	63.352	0.038	0.0	0.2	0.1
4392	63.395	63.349	0.035	0.0	0.2	0.1
4416	63.392	63.345	0.032	0.0	0.2	0.1
4440	63.388	63.341	0.028	0.0	0.2	0.1
4464	63.385	63.336	0.025	0.0	0.2	0.1
4488	63.382	63.331	0.022	0.0	0.2	0.1
4512	63.380	63.326	0.020	0.0	0.2	0.1
4536	63.377	63.319	0.017	0.0	0.2	0.1
4560	63.374	63.311	0.014	0.0	0.2	0.1
4584	63.372	63.301	0.012	0.0	0.2	0.1
4608	63.369	63.288	0.009	0.0	0.2	0.0
4632	63.367	63.276	0.007	0.0	0.2	0.0
4656	63.365	63.263	0.005	0.0	0.2	0.0
4680	63.363	63.250	0.003	0.0	0.2	0.1
4704	63.359	63.257	-0.001	0.0	0.2	0.1
4728	63.354	63.270	-0.006	0.0	0.3	0.1
4752	63.350	63.275	-0.010	0.0	0.3	0.1
4776	63.347	63.277	-0.013	0.0	0.3	0.1
4800	63.344	63.277	-0.016	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.341	63.276	-0.019	0.0	0.2	0.1
4848	63.338	63.274	-0.022	0.0	0.2	0.1
4872	63.335	63.272	-0.025	0.0	0.2	0.1
4896	63.331	63.270	-0.029	0.0	0.2	0.1
4920	63.328	63.267	-0.032	0.0	0.2	0.1
4944	63.325	63.264	-0.035	0.0	0.2	0.1
4968	63.322	63.262	-0.038	0.0	0.2	0.1
4992	63.319	63.259	-0.041	0.0	0.2	0.1
5016	63.316	63.256	-0.044	0.0	0.2	0.1
5040	63.313	63.253	-0.047	0.0	0.2	0.1
5064	63.310	63.251	-0.050	0.0	0.2	0.1
5088	63.307	63.252	-0.053	0.0	0.2	0.1
5112	63.304	63.252	-0.056	0.0	0.2	0.1
5136	63.301	63.250	-0.059	0.0	0.2	0.1
5160	63.297	63.250	-0.063	0.0	0.2	0.1
5184	63.294	63.251	-0.066	0.0	0.2	0.1
5208	63.291	63.250	-0.069	0.0	0.2	0.1
5232	63.287	63.251	-0.073	0.0	0.2	0.1
5256	63.284	63.251	-0.076	0.0	0.2	0.1
5280	63.281	63.249	-0.079	0.0	0.2	0.1
5304	63.278	63.250	-0.082	0.0	0.2	0.1
5328	63.275	63.249	-0.085	0.0	0.2	0.1
5352	63.271	63.248	-0.089	0.0	0.2	0.1
5376	63.269	63.245	-0.091	0.0	0.2	0.1
5400	63.267	63.237	-0.093	0.0	0.2	0.0
5424	63.265	63.224	-0.095	0.0	0.2	0.0
5448	63.263	63.209	-0.097	0.0	0.1	0.0
5472	63.262	63.193	-0.098	0.0	0.1	0.0
5496	63.261	63.176	-0.099	0.0	0.1	0.0
5520	63.260	63.157	-0.100	0.0	0.1	0.0
5544	63.259	63.138	-0.101	0.0	0.1	0.0
5568	63.258	63.126	-0.102	0.0	0.1	0.0
5592	63.258	63.120	-0.102	0.0	0.0	0.0
5616	63.257	63.115	-0.103	0.0	0.0	0.0
5640	63.257	63.112	-0.103	0.0	0.0	0.0
5664	63.256	63.110	-0.104	0.0	0.0	0.0
5688	63.256	63.108	-0.104	0.0	0.0	0.0
5712	63.256	63.107	-0.104	0.0	0.0	0.0
5736	63.256	63.106	-0.104	0.0	0.0	0.0
5760	63.255	63.105	-0.105	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.101	63.096	-0.109	0.0	0.0	0.0
144	63.102	63.096	-0.108	0.0	0.0	0.0
168	63.104	63.096	-0.106	0.0	0.0	0.0
192	63.107	63.096	-0.103	0.0	0.0	0.0
216	63.111	63.096	-0.099	0.0	0.0	0.0
240	63.115	63.096	-0.095	0.0	0.0	0.0
264	63.119	63.096	-0.091	0.0	0.0	0.0
288	63.122	63.096	-0.088	0.0	0.0	0.0
312	63.126	63.096	-0.084	0.0	0.0	0.0
336	63.130	63.096	-0.080	0.0	0.0	0.0
360	63.133	63.096	-0.077	0.0	0.0	0.0
384	63.136	63.096	-0.074	0.0	0.0	0.0
408	63.138	63.096	-0.072	0.0	0.0	0.0
432	63.140	63.096	-0.070	0.0	0.0	0.0
456	63.142	63.096	-0.068	0.0	0.0	0.0
480	63.143	63.096	-0.067	0.0	0.0	0.0
504	63.145	63.096	-0.065	0.0	0.0	0.0
528	63.146	63.096	-0.064	0.0	0.0	0.0
552	63.147	63.096	-0.063	0.0	0.0	0.0
576	63.147	63.096	-0.063	0.0	0.0	0.0
600	63.148	63.096	-0.062	0.0	0.0	0.0
624	63.149	63.096	-0.061	0.0	0.0	0.0
648	63.150	63.096	-0.060	0.0	0.0	0.0
672	63.151	63.096	-0.059	0.0	0.0	0.0
696	63.154	63.096	-0.056	0.0	0.0	0.0
720	63.157	63.096	-0.053	0.0	0.0	0.0
744	63.161	63.096	-0.049	0.0	0.0	0.0
768	63.167	63.096	-0.043	0.0	0.0	0.0
792	63.173	63.096	-0.037	0.0	0.0	0.0
816	63.181	63.096	-0.029	0.0	0.0	0.0
840	63.189	63.096	-0.021	0.0	0.0	0.0
864	63.199	63.096	-0.011	0.0	0.0	0.0
888	63.212	63.096	0.002	0.0	0.0	0.0
912	63.225	63.096	0.015	0.0	0.0	0.0
936	63.238	63.096	0.028	0.0	0.0	0.0
960	63.250	63.096	0.040	0.0	0.0	0.0
984	63.250	63.096	0.040	0.0	0.0	0.0
1008	63.250	63.096	0.040	0.0	0.0	0.0
1032	63.251	63.096	0.041	0.0	0.0	0.0
1056	63.251	63.096	0.041	0.0	0.0	0.0
1080	63.251	63.096	0.041	0.0	0.0	0.0
1104	63.253	63.096	0.043	0.0	0.0	0.0
1128	63.257	63.096	0.047	0.0	0.0	0.0
1152	63.263	63.096	0.053	0.0	0.0	0.0
1176	63.269	63.096	0.059	0.0	0.0	0.0
1200	63.276	63.096	0.066	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.263	63.096	0.053	0.0	0.0	0.0
1248	63.257	63.096	0.047	0.0	0.0	0.0
1272	63.259	63.096	0.049	0.0	0.0	0.0
1296	63.267	63.096	0.057	0.0	0.0	0.0
1320	63.281	63.096	0.071	0.0	0.0	0.0
1344	63.304	63.096	0.094	0.0	0.0	0.0
1368	63.331	63.096	0.121	0.0	0.0	0.0
1392	63.359	63.096	0.149	0.0	0.1	0.0
1416	63.379	63.096	0.169	0.0	0.1	0.0
1440	63.394	63.096	0.184	0.0	0.1	0.0
1464	63.407	63.096	0.197	0.0	0.1	0.0
1488	63.420	63.096	0.210	0.0	0.1	0.0
1512	63.431	63.096	0.221	0.0	0.1	0.0
1536	63.443	63.096	0.233	0.0	0.1	0.0
1560	63.453	63.096	0.243	0.0	0.1	0.0
1584	63.464	63.096	0.254	0.0	0.1	0.0
1608	63.474	63.096	0.264	0.0	0.1	0.0
1632	63.483	63.096	0.273	0.0	0.1	0.0
1656	63.493	63.096	0.283	0.0	0.1	0.0
1680	63.501	63.096	0.291	0.0	0.1	0.0
1704	63.510	63.096	0.300	0.0	0.1	0.0
1728	63.518	63.096	0.308	0.0	0.1	0.0
1752	63.525	63.096	0.315	0.0	0.1	0.0
1776	63.532	63.096	0.322	0.0	0.1	0.0
1800	63.539	63.096	0.329	0.0	0.1	0.0
1824	63.545	63.096	0.335	0.0	0.1	0.0
1848	63.551	63.096	0.341	0.0	0.1	0.0
1872	63.556	63.096	0.346	0.0	0.1	0.0
1896	63.560	63.096	0.350	0.0	0.1	0.0
1920	63.564	63.096	0.354	0.0	0.1	0.0
1944	63.568	63.096	0.358	0.0	0.1	0.0
1968	63.571	63.096	0.361	0.0	0.1	0.0
1992	63.574	63.096	0.364	0.0	0.1	0.0
2016	63.577	63.096	0.367	0.0	0.1	0.0
2040	63.579	63.096	0.369	0.0	0.1	0.0
2064	63.580	63.096	0.370	0.0	0.1	0.0
2088	63.582	63.096	0.372	0.0	0.1	0.0
2112	63.583	63.096	0.373	0.0	0.1	0.0
2136	63.584	63.096	0.374	0.0	0.1	0.0
2160	63.585	63.096	0.375	0.0	0.1	0.0
2184	63.585	63.096	0.375	0.0	0.1	0.0
2208	63.585	63.096	0.375	0.0	0.1	0.0
2232	63.585	63.096	0.375	0.0	0.1	0.0
2256	63.585	63.096	0.375	0.0	0.1	0.0
2280	63.584	63.096	0.374	0.0	0.1	0.0
2304	63.584	63.096	0.374	0.0	0.1	0.0
2328	63.583	63.096	0.373	0.0	0.1	0.0
2352	63.582	63.096	0.372	0.0	0.1	0.0
2376	63.582	63.096	0.372	0.0	0.1	0.0
2400	63.581	63.096	0.371	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.580	63.096	0.370	0.0	0.1	0.0
2448	63.579	63.096	0.369	0.0	0.1	0.0
2472	63.578	63.096	0.368	0.0	0.1	0.0
2496	63.577	63.096	0.367	0.0	0.1	0.0
2520	63.576	63.096	0.366	0.0	0.1	0.0
2544	63.575	63.096	0.365	0.0	0.1	0.0
2568	63.574	63.096	0.364	0.0	0.1	0.0
2592	63.573	63.096	0.363	0.0	0.1	0.0
2616	63.572	63.096	0.362	0.0	0.1	0.0
2640	63.571	63.096	0.361	0.0	0.1	0.0
2664	63.570	63.096	0.360	0.0	0.1	0.0
2688	63.569	63.096	0.359	0.0	0.1	0.0
2712	63.568	63.096	0.358	0.0	0.1	0.0
2736	63.566	63.096	0.356	0.0	0.1	0.0
2760	63.565	63.096	0.355	0.0	0.1	0.0
2784	63.564	63.096	0.354	0.0	0.1	0.0
2808	63.562	63.096	0.352	0.0	0.1	0.0
2832	63.560	63.096	0.350	0.0	0.1	0.0
2856	63.558	63.096	0.348	0.0	0.1	0.0
2880	63.555	63.096	0.345	0.0	0.1	0.0
2904	63.552	63.096	0.342	0.0	0.1	0.0
2928	63.549	63.096	0.339	0.0	0.1	0.0
2952	63.546	63.096	0.336	0.0	0.1	0.0
2976	63.542	63.096	0.332	0.0	0.1	0.0
3000	63.539	63.096	0.329	0.0	0.1	0.0
3024	63.535	63.096	0.325	0.0	0.1	0.0
3048	63.532	63.096	0.322	0.0	0.1	0.0
3072	63.528	63.096	0.318	0.0	0.1	0.0
3096	63.524	63.096	0.314	0.0	0.1	0.0
3120	63.521	63.096	0.311	0.0	0.1	0.0
3144	63.518	63.096	0.308	0.0	0.1	0.0
3168	63.514	63.096	0.304	0.0	0.1	0.0
3192	63.511	63.096	0.301	0.0	0.1	0.0
3216	63.507	63.096	0.297	0.0	0.1	0.0
3240	63.504	63.096	0.294	0.0	0.1	0.0
3264	63.501	63.096	0.291	0.0	0.1	0.0
3288	63.497	63.096	0.287	0.0	0.1	0.0
3312	63.494	63.096	0.284	0.0	0.1	0.0
3336	63.490	63.096	0.280	0.0	0.1	0.0
3360	63.487	63.096	0.277	0.0	0.1	0.0
3384	63.484	63.096	0.274	0.0	0.1	0.0
3408	63.481	63.096	0.271	0.0	0.1	0.0
3432	63.477	63.096	0.267	0.0	0.1	0.0
3456	63.474	63.096	0.264	0.0	0.1	0.0
3480	63.471	63.096	0.261	0.0	0.1	0.0
3504	63.467	63.096	0.257	0.0	0.1	0.0
3528	63.464	63.096	0.254	0.0	0.1	0.0
3552	63.461	63.096	0.251	0.0	0.1	0.0
3576	63.458	63.096	0.248	0.0	0.1	0.0
3600	63.454	63.096	0.244	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.451	63.096	0.241	0.0	0.1	0.0
3648	63.447	63.096	0.237	0.0	0.1	0.0
3672	63.444	63.096	0.234	0.0	0.1	0.0
3696	63.441	63.096	0.231	0.0	0.1	0.0
3720	63.438	63.096	0.228	0.0	0.1	0.0
3744	63.435	63.096	0.225	0.0	0.1	0.0
3768	63.431	63.096	0.221	0.0	0.1	0.0
3792	63.428	63.096	0.218	0.0	0.1	0.0
3816	63.425	63.096	0.215	0.0	0.1	0.0
3840	63.422	63.096	0.212	0.0	0.1	0.0
3864	63.419	63.096	0.209	0.0	0.1	0.0
3888	63.415	63.096	0.205	0.0	0.1	0.0
3912	63.412	63.096	0.202	0.0	0.1	0.0
3936	63.409	63.096	0.199	0.0	0.1	0.0
3960	63.406	63.096	0.196	0.0	0.1	0.0
3984	63.403	63.096	0.193	0.0	0.1	0.0
4008	63.399	63.096	0.189	0.0	0.1	0.0
4032	63.397	63.096	0.187	0.0	0.1	0.0
4056	63.393	63.096	0.183	0.0	0.1	0.0
4080	63.390	63.096	0.180	0.0	0.1	0.0
4104	63.387	63.096	0.177	0.0	0.1	0.0
4128	63.384	63.096	0.174	0.0	0.1	0.0
4152	63.381	63.096	0.171	0.0	0.1	0.0
4176	63.377	63.096	0.167	0.0	0.1	0.0
4200	63.374	63.096	0.164	0.0	0.1	0.0
4224	63.371	63.096	0.161	0.0	0.1	0.0
4248	63.368	63.096	0.158	0.0	0.1	0.0
4272	63.365	63.096	0.155	0.0	0.1	0.0
4296	63.361	63.096	0.151	0.0	0.1	0.0
4320	63.358	63.096	0.148	0.0	0.1	0.0
4344	63.355	63.096	0.145	0.0	0.1	0.0
4368	63.352	63.096	0.142	0.0	0.1	0.0
4392	63.349	63.096	0.139	0.0	0.1	0.0
4416	63.345	63.096	0.135	0.0	0.1	0.0
4440	63.341	63.096	0.131	0.0	0.1	0.0
4464	63.336	63.096	0.126	0.0	0.1	0.0
4488	63.331	63.096	0.121	0.0	0.1	0.0
4512	63.326	63.096	0.116	0.0	0.1	0.0
4536	63.319	63.096	0.109	0.0	0.0	0.0
4560	63.311	63.096	0.101	0.0	0.0	0.0
4584	63.301	63.096	0.091	0.0	0.0	0.0
4608	63.288	63.096	0.078	0.0	0.0	0.0
4632	63.276	63.096	0.066	0.0	0.0	0.0
4656	63.263	63.096	0.053	0.0	0.0	0.0
4680	63.250	63.096	0.040	0.0	0.0	0.0
4704	63.257	63.096	0.047	0.0	0.0	0.0
4728	63.270	63.096	0.060	0.0	0.0	0.0
4752	63.275	63.096	0.065	0.0	0.0	0.0
4776	63.277	63.096	0.067	0.0	0.0	0.0
4800	63.277	63.096	0.067	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
2880 minute 100 year Winter
Average Rainfall Intensity 2.226 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.276	63.096	0.066	0.0	0.0	0.0
4848	63.274	63.096	0.064	0.0	0.0	0.0
4872	63.272	63.096	0.062	0.0	0.0	0.0
4896	63.270	63.096	0.060	0.0	0.0	0.0
4920	63.267	63.096	0.057	0.0	0.0	0.0
4944	63.264	63.096	0.054	0.0	0.0	0.0
4968	63.262	63.096	0.052	0.0	0.0	0.0
4992	63.259	63.096	0.049	0.0	0.0	0.0
5016	63.256	63.096	0.046	0.0	0.0	0.0
5040	63.253	63.096	0.043	0.0	0.0	0.0
5064	63.251	63.096	0.041	0.0	0.0	0.0
5088	63.252	63.096	0.042	0.0	0.0	0.0
5112	63.252	63.096	0.042	0.0	0.0	0.0
5136	63.250	63.096	0.040	0.0	0.0	0.0
5160	63.250	63.096	0.040	0.0	0.0	0.0
5184	63.251	63.096	0.041	0.0	0.0	0.0
5208	63.250	63.096	0.040	0.0	0.0	0.0
5232	63.251	63.096	0.041	0.0	0.0	0.0
5256	63.251	63.096	0.041	0.0	0.0	0.0
5280	63.249	63.096	0.039	0.0	0.0	0.0
5304	63.250	63.096	0.040	0.0	0.0	0.0
5328	63.249	63.096	0.039	0.0	0.0	0.0
5352	63.248	63.096	0.038	0.0	0.0	0.0
5376	63.245	63.096	0.035	0.0	0.0	0.0
5400	63.237	63.096	0.027	0.0	0.0	0.0
5424	63.224	63.096	0.014	0.0	0.0	0.0
5448	63.209	63.096	-0.001	0.0	0.0	0.0
5472	63.193	63.096	-0.017	0.0	0.0	0.0
5496	63.176	63.096	-0.034	0.0	0.0	0.0
5520	63.157	63.096	-0.053	0.0	0.0	0.0
5544	63.138	63.096	-0.072	0.0	0.0	0.0
5568	63.126	63.096	-0.084	0.0	0.0	0.0
5592	63.120	63.096	-0.090	0.0	0.0	0.0
5616	63.115	63.096	-0.095	0.0	0.0	0.0
5640	63.112	63.096	-0.098	0.0	0.0	0.0
5664	63.110	63.096	-0.100	0.0	0.0	0.0
5688	63.108	63.096	-0.102	0.0	0.0	0.0
5712	63.107	63.096	-0.103	0.0	0.0	0.0
5736	63.106	63.096	-0.104	0.0	0.0	0.0
5760	63.105	63.096	-0.105	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	8640
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	4320
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 4320 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.402	-0.108	0.000	0.00	0.0	0.1	OK
1.001	S1	63.617	0.013	0.000	0.03	0.0	0.2	SURCHARGED
2.000	RE2	65.403	-0.107	0.000	0.00	0.0	0.1	OK
2.001	S2	65.004	-0.106	0.000	0.01	0.0	0.2	OK
1.002	S3	63.617	0.063	0.000	0.06	0.0	0.4	SURCHARGED
1.003	S4	63.617	0.257	0.000	0.03	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.558	0.348	0.000	0.00	0.0	0.0	SURCHARGED

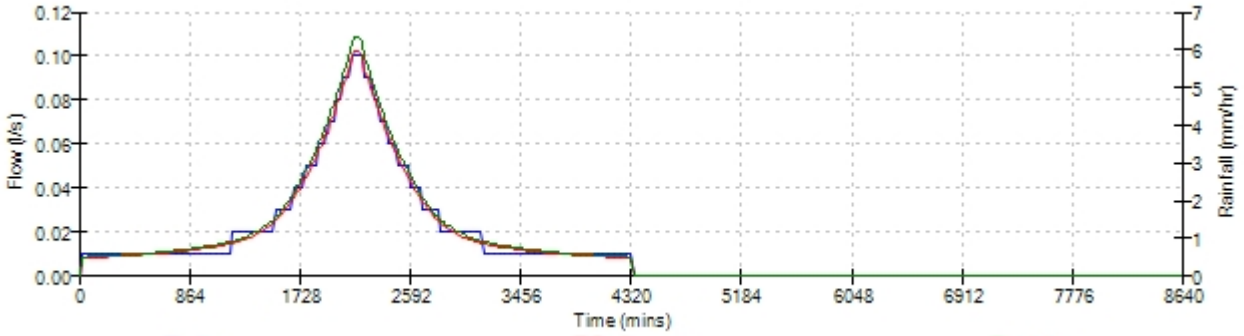
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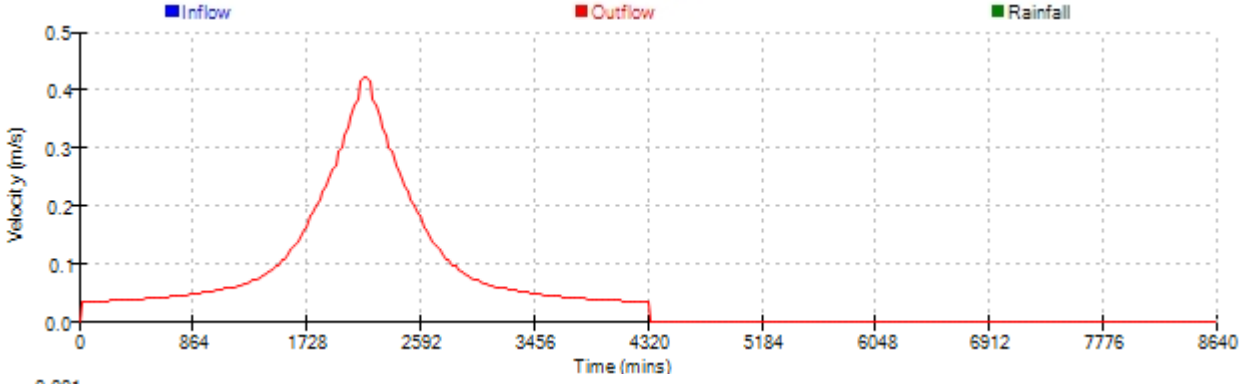
Rainfall Hyetograph for 4320 minute 100 year Summer (Storm)

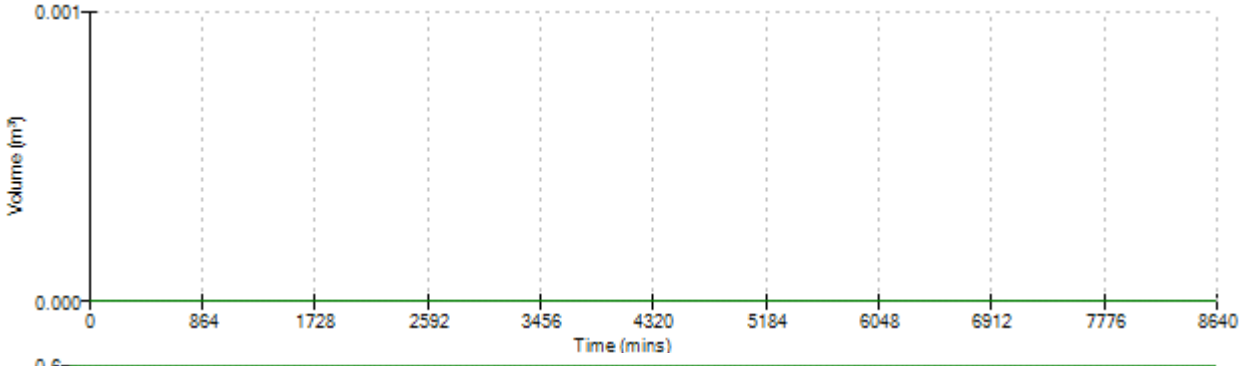
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.517	888	0.744	1752	2.749	2616	2.458	3480	0.728
48	0.521	912	0.750	1776	2.807	2640	2.406	3504	0.724
72	0.534	936	0.776	1800	3.040	2664	2.199	3528	0.711
96	0.534	960	0.783	1824	3.169	2688	2.115	3552	0.705
120	0.534	984	0.792	1848	3.363	2712	1.989	3576	0.695
144	0.543	1008	0.812	1872	3.557	2736	1.863	3600	0.686
168	0.550	1032	0.825	1896	3.686	2760	1.778	3624	0.679
192	0.550	1056	0.837	1920	3.971	2784	1.636	3648	0.666
216	0.550	1080	0.841	1944	4.042	2808	1.601	3672	0.663
240	0.566	1104	0.873	1968	4.430	2832	1.471	3696	0.647
264	0.566	1128	0.880	1992	4.514	2856	1.449	3720	0.643
288	0.566	1152	0.905	2016	4.850	2880	1.358	3744	0.631
312	0.572	1176	0.918	2040	5.031	2904	1.319	3768	0.624
336	0.582	1200	0.938	2064	5.303	2928	1.261	3792	0.614
360	0.582	1224	0.967	2088	5.594	2952	1.203	3816	0.614
384	0.582	1248	0.986	2112	5.788	2976	1.164	3840	0.614
408	0.595	1272	1.025	2136	6.228	3000	1.112	3864	0.601
432	0.598	1296	1.035	2160	6.338	3024	1.099	3888	0.598
456	0.598	1320	1.099	2184	6.338	3048	1.035	3912	0.598
480	0.601	1344	1.112	2208	6.228	3072	1.025	3936	0.595
504	0.614	1368	1.164	2232	5.788	3096	0.986	3960	0.582
528	0.614	1392	1.203	2256	5.594	3120	0.967	3984	0.582
552	0.614	1416	1.261	2280	5.303	3144	0.938	4008	0.582
576	0.624	1440	1.319	2304	5.031	3168	0.918	4032	0.572
600	0.631	1464	1.358	2328	4.850	3192	0.905	4056	0.566
624	0.643	1488	1.449	2352	4.514	3216	0.880	4080	0.566
648	0.647	1512	1.471	2376	4.430	3240	0.873	4104	0.566
672	0.663	1536	1.601	2400	4.042	3264	0.841	4128	0.550
696	0.666	1560	1.636	2424	3.971	3288	0.837	4152	0.550
720	0.679	1584	1.778	2448	3.686	3312	0.825	4176	0.550
744	0.686	1608	1.863	2472	3.557	3336	0.812	4200	0.543
768	0.695	1632	1.989	2496	3.363	3360	0.792	4224	0.534
792	0.705	1656	2.115	2520	3.169	3384	0.783	4248	0.534
816	0.711	1680	2.199	2544	3.040	3408	0.776	4272	0.534
840	0.724	1704	2.406	2568	2.807	3432	0.750	4296	0.521
864	0.728	1728	2.458	2592	2.749	3456	0.744	4320	0.517

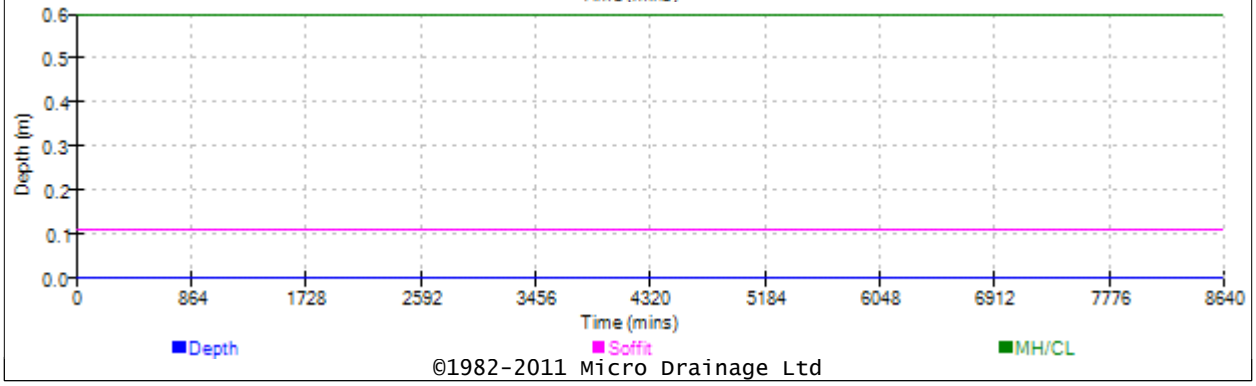
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Status: OK



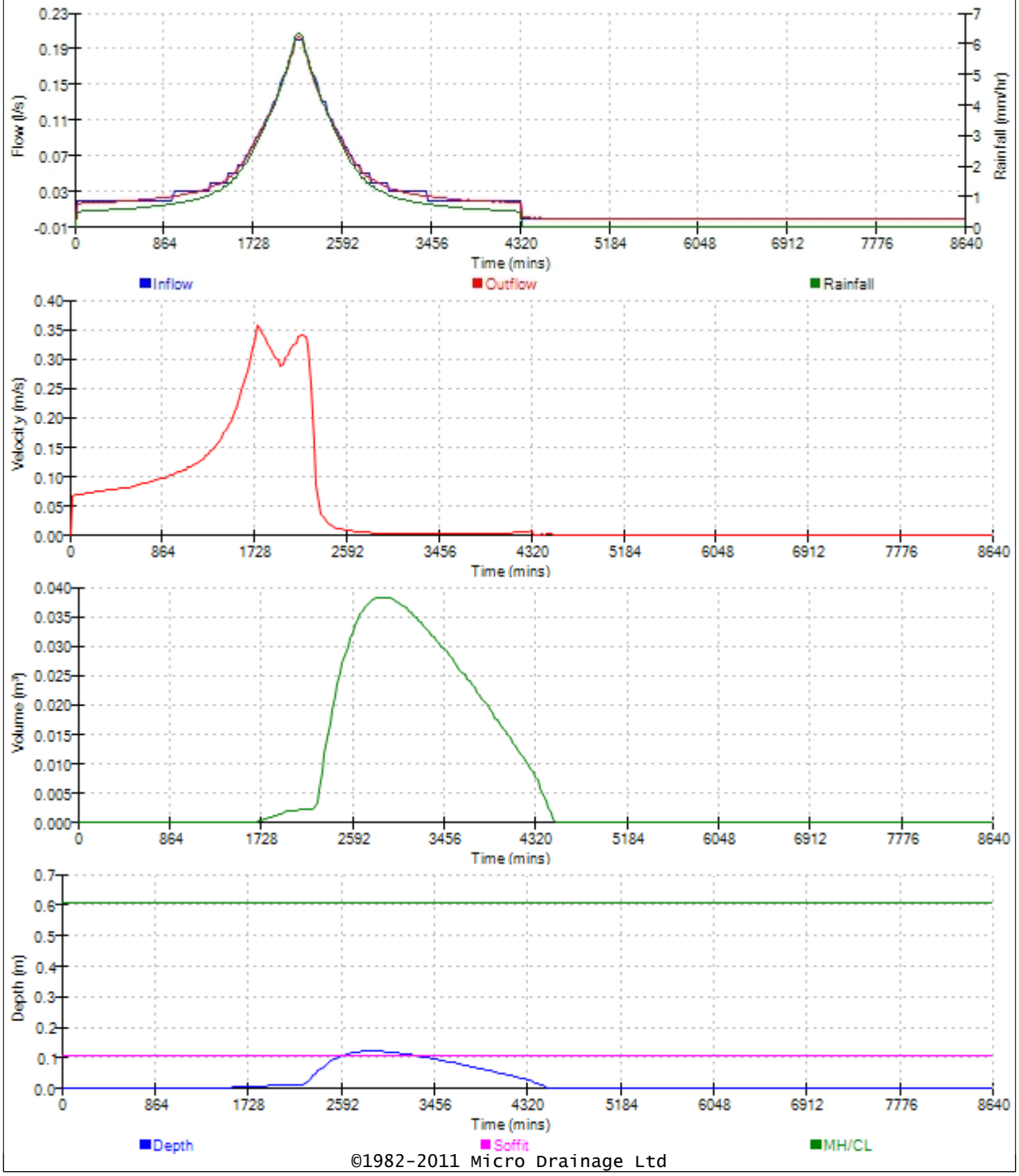






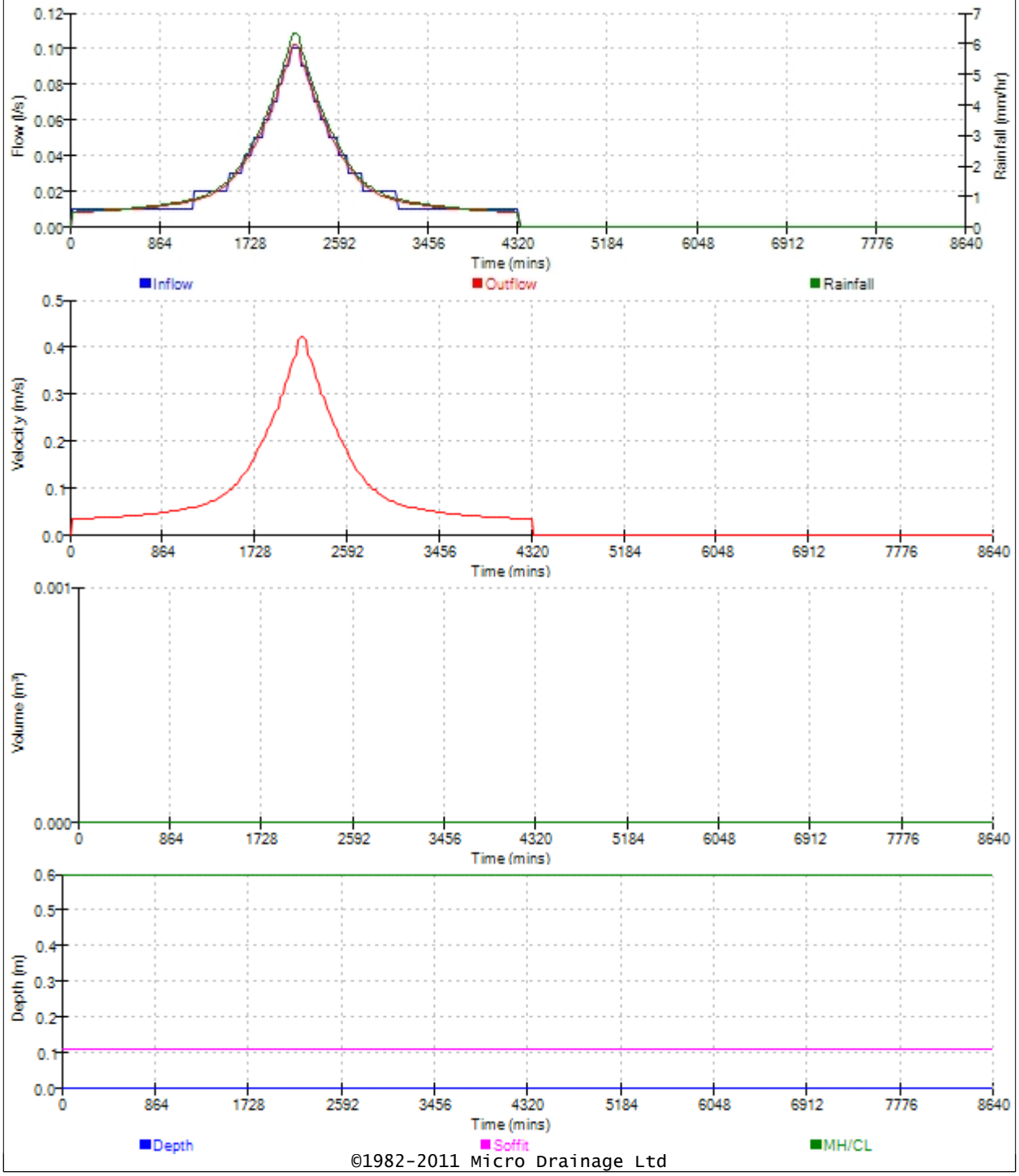
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Graphs for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Status: SURCHARGED



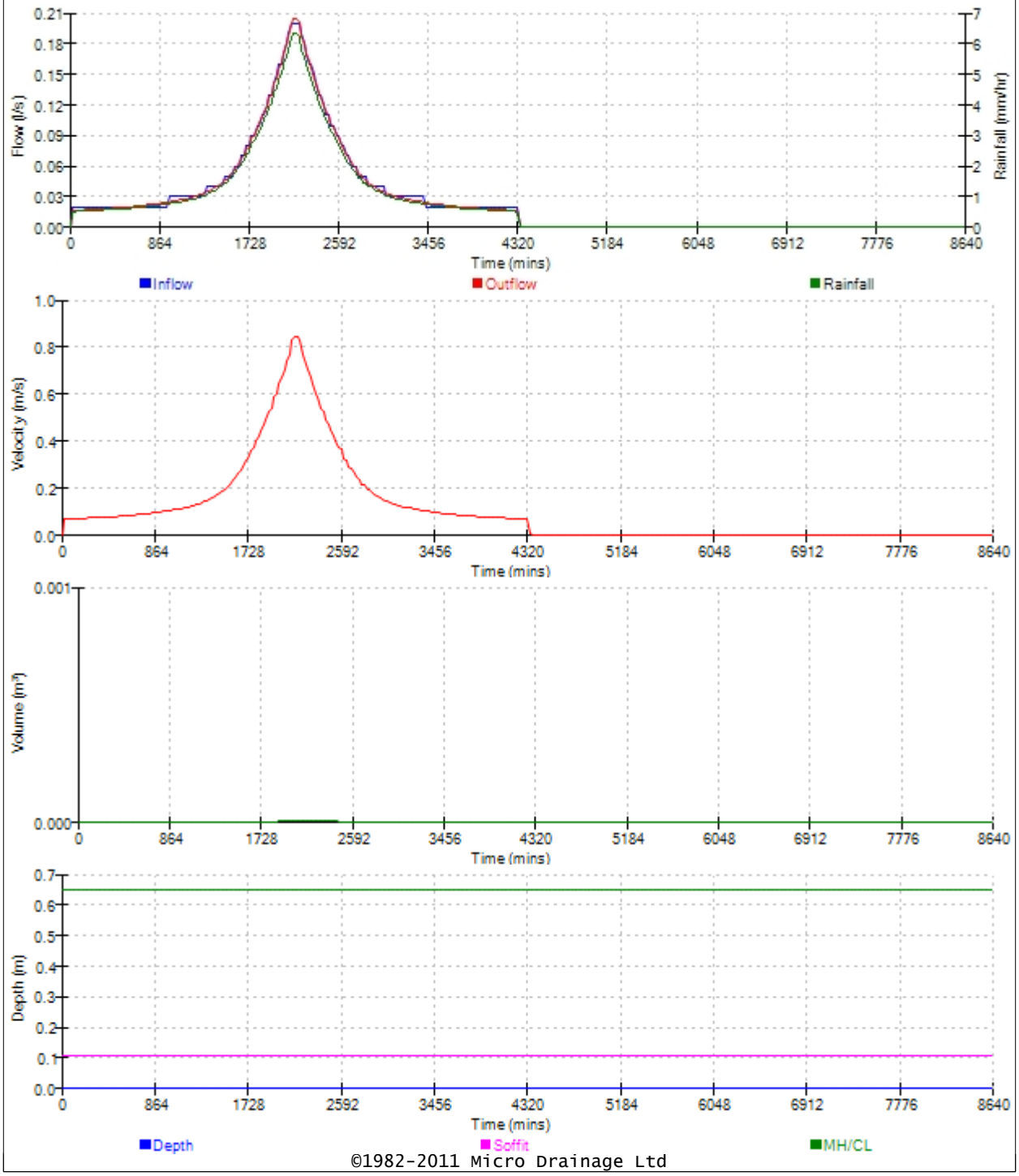
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Status: OK



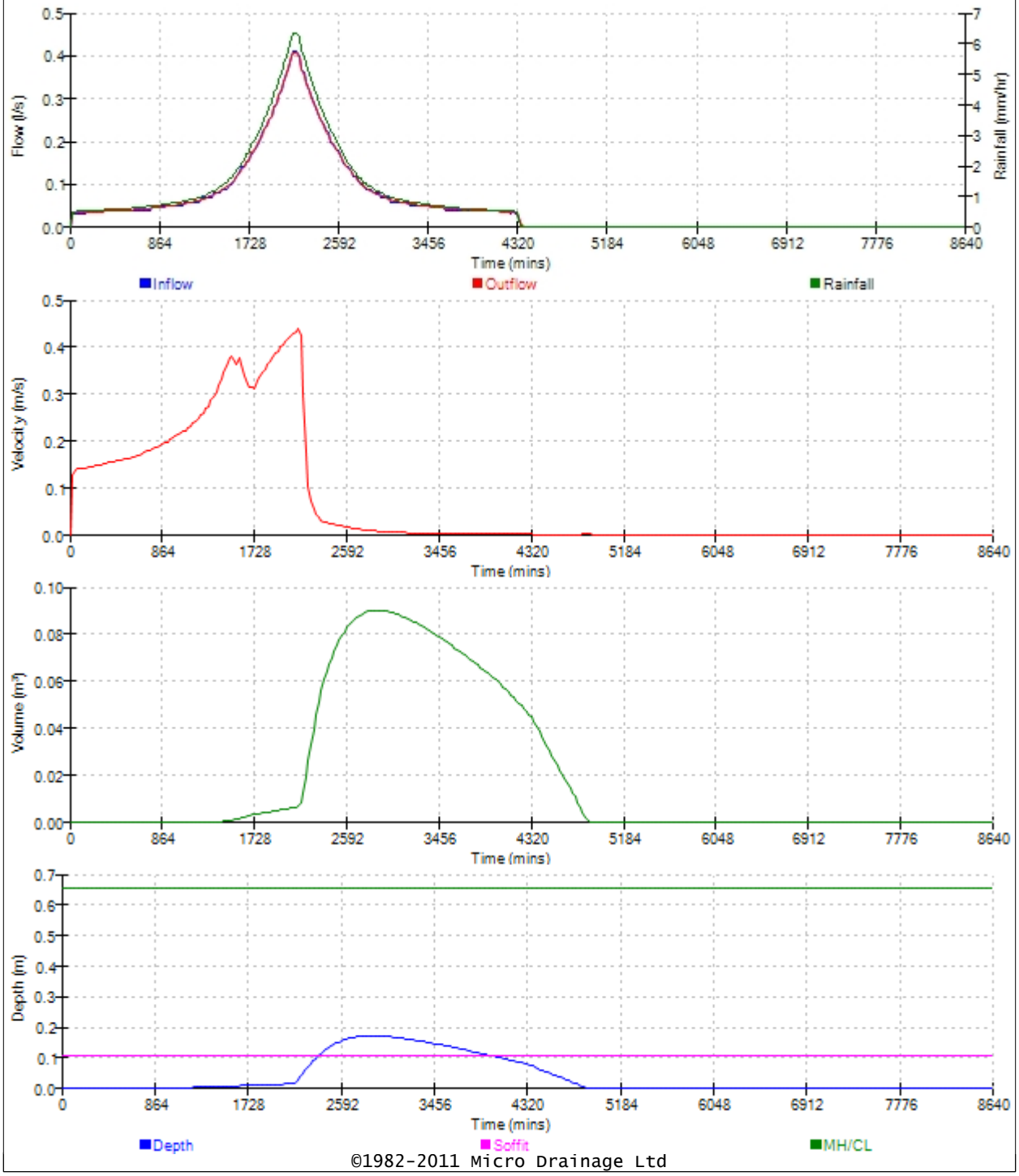
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Graphs for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Status: OK



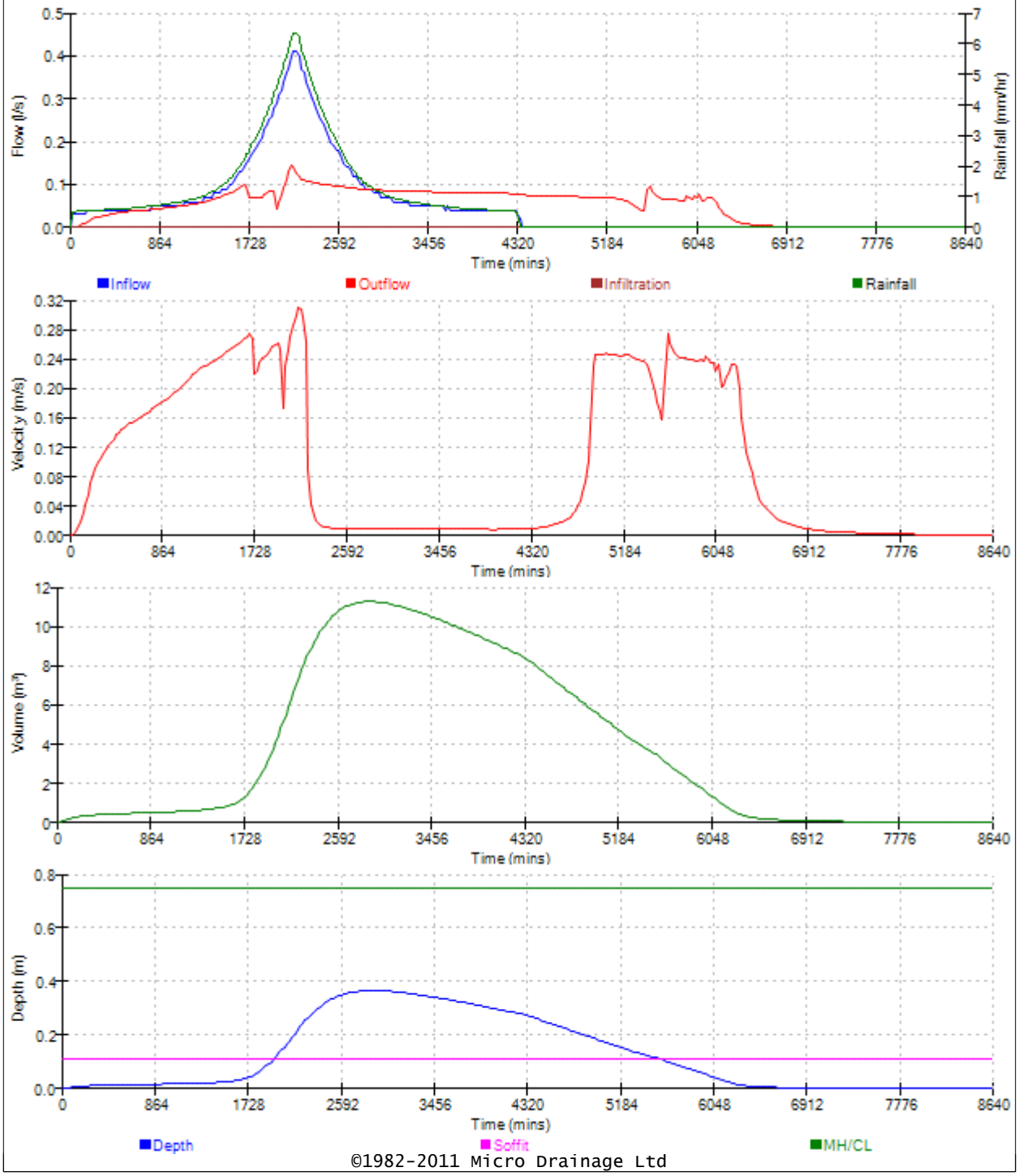
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Graphs for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Status: SURCHARGED



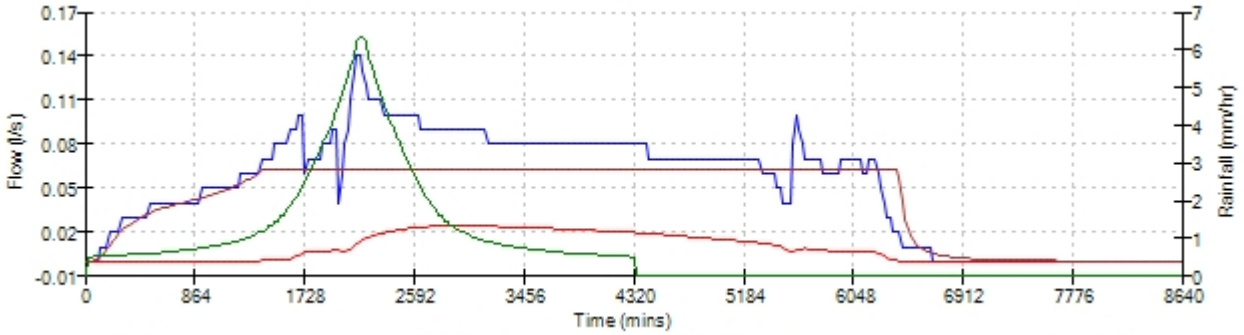
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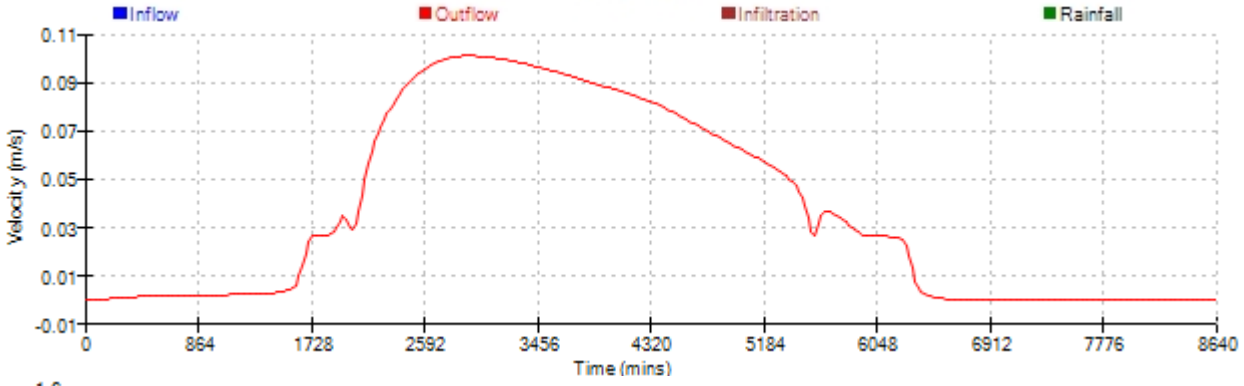
Graphs for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Status: SURCHARGED

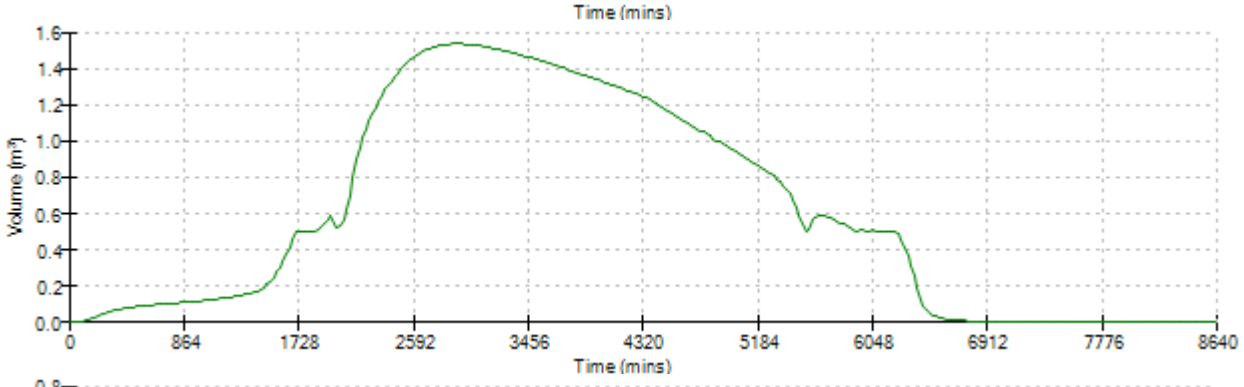


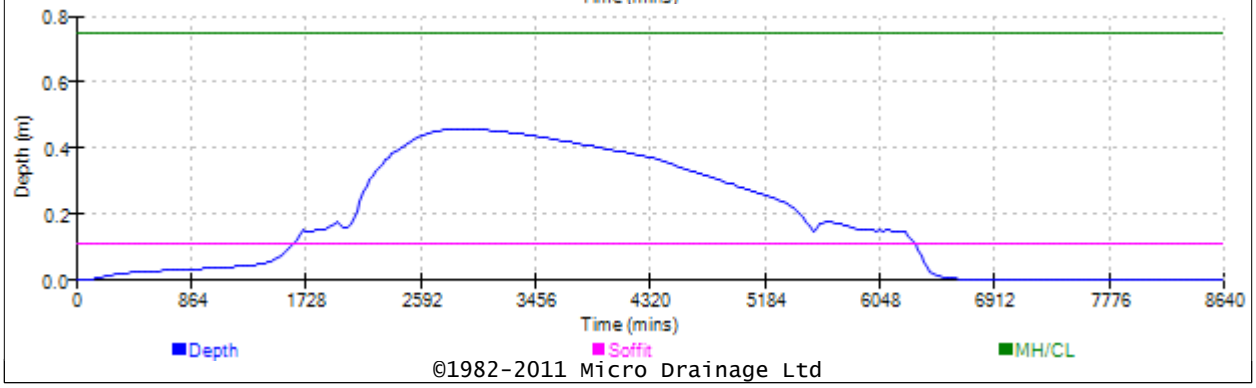
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.496	-0.110	0.0	0.0	0.0
264	65.400	63.496	-0.110	0.0	0.0	0.0
288	65.400	63.496	-0.110	0.0	0.0	0.0
312	65.400	63.496	-0.110	0.0	0.0	0.0
336	65.400	63.496	-0.110	0.0	0.0	0.0
360	65.400	63.496	-0.110	0.0	0.0	0.0
384	65.400	63.496	-0.110	0.0	0.0	0.0
408	65.400	63.496	-0.110	0.0	0.0	0.0
432	65.400	63.496	-0.110	0.0	0.0	0.0
456	65.400	63.496	-0.110	0.0	0.0	0.0
480	65.400	63.496	-0.110	0.0	0.0	0.0
504	65.400	63.496	-0.110	0.0	0.0	0.0
528	65.400	63.496	-0.110	0.0	0.0	0.0
552	65.400	63.496	-0.110	0.0	0.0	0.0
576	65.400	63.496	-0.110	0.0	0.0	0.0
600	65.400	63.496	-0.110	0.0	0.0	0.0
624	65.400	63.496	-0.110	0.0	0.0	0.0
648	65.400	63.496	-0.110	0.0	0.0	0.0
672	65.400	63.496	-0.110	0.0	0.0	0.0
696	65.400	63.496	-0.110	0.0	0.0	0.0
720	65.400	63.496	-0.110	0.0	0.0	0.0
744	65.400	63.496	-0.110	0.0	0.0	0.0
768	65.400	63.496	-0.110	0.0	0.0	0.0
792	65.400	63.496	-0.110	0.0	0.0	0.0
816	65.400	63.496	-0.110	0.0	0.0	0.0
840	65.400	63.496	-0.110	0.0	0.0	0.0
864	65.400	63.496	-0.110	0.0	0.0	0.0
888	65.400	63.496	-0.110	0.0	0.0	0.0
912	65.400	63.496	-0.110	0.0	0.0	0.0
936	65.400	63.496	-0.110	0.0	0.1	0.0
960	65.400	63.496	-0.110	0.0	0.1	0.0
984	65.400	63.496	-0.110	0.0	0.1	0.0
1008	65.400	63.496	-0.110	0.0	0.1	0.0
1032	65.400	63.496	-0.110	0.0	0.1	0.0
1056	65.400	63.496	-0.110	0.0	0.1	0.0
1080	65.400	63.496	-0.110	0.0	0.1	0.0
1104	65.400	63.496	-0.110	0.0	0.1	0.0
1128	65.400	63.496	-0.110	0.0	0.1	0.0
1152	65.400	63.496	-0.110	0.0	0.1	0.0
1176	65.400	63.496	-0.110	0.0	0.1	0.0
1200	65.400	63.496	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.497	-0.110	0.0	0.1	0.0
1248	65.400	63.497	-0.110	0.0	0.1	0.0
1272	65.400	63.497	-0.110	0.0	0.1	0.0
1296	65.400	63.497	-0.110	0.0	0.1	0.0
1320	65.400	63.497	-0.110	0.0	0.1	0.0
1344	65.400	63.497	-0.110	0.0	0.1	0.0
1368	65.400	63.497	-0.110	0.0	0.1	0.0
1392	65.400	63.497	-0.110	0.0	0.1	0.0
1416	65.400	63.497	-0.110	0.0	0.1	0.0
1440	65.400	63.497	-0.110	0.0	0.1	0.0
1464	65.400	63.498	-0.110	0.0	0.1	0.0
1488	65.400	63.498	-0.110	0.0	0.1	0.0
1512	65.400	63.498	-0.110	0.0	0.1	0.0
1536	65.401	63.498	-0.109	0.0	0.1	0.0
1560	65.401	63.498	-0.109	0.0	0.1	0.0
1584	65.401	63.499	-0.109	0.0	0.1	0.0
1608	65.401	63.499	-0.109	0.0	0.1	0.0
1632	65.401	63.499	-0.109	0.0	0.1	0.0
1656	65.401	63.499	-0.109	0.0	0.1	0.0
1680	65.401	63.500	-0.109	0.0	0.1	0.0
1704	65.401	63.500	-0.109	0.0	0.2	0.0
1728	65.401	63.500	-0.109	0.0	0.2	0.0
1752	65.401	63.501	-0.109	0.0	0.2	0.0
1776	65.401	63.501	-0.109	0.0	0.2	0.0
1800	65.401	63.502	-0.109	0.0	0.2	0.0
1824	65.401	63.502	-0.109	0.0	0.2	0.1
1848	65.401	63.503	-0.109	0.0	0.2	0.1
1872	65.401	63.503	-0.109	0.0	0.2	0.1
1896	65.401	63.503	-0.109	0.0	0.2	0.1
1920	65.401	63.504	-0.109	0.0	0.3	0.1
1944	65.401	63.504	-0.109	0.0	0.3	0.1
1968	65.401	63.505	-0.109	0.0	0.3	0.1
1992	65.401	63.505	-0.109	0.0	0.3	0.1
2016	65.402	63.505	-0.108	0.0	0.3	0.1
2040	65.402	63.506	-0.108	0.0	0.3	0.1
2064	65.402	63.506	-0.108	0.0	0.4	0.1
2088	65.402	63.506	-0.108	0.0	0.4	0.1
2112	65.402	63.506	-0.108	0.0	0.4	0.1
2136	65.402	63.507	-0.108	0.0	0.4	0.1
2160	65.402	63.507	-0.108	0.0	0.4	0.1
2184	65.402	63.507	-0.108	0.0	0.4	0.1
2208	65.402	63.507	-0.108	0.0	0.4	0.1
2232	65.402	63.507	-0.108	0.0	0.4	0.1
2256	65.402	63.510	-0.108	0.0	0.4	0.1
2280	65.402	63.517	-0.108	0.0	0.4	0.1
2304	65.402	63.527	-0.108	0.0	0.3	0.1
2328	65.402	63.536	-0.108	0.0	0.3	0.1
2352	65.401	63.544	-0.109	0.0	0.3	0.1
2376	65.401	63.552	-0.109	0.0	0.3	0.1
2400	65.401	63.560	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	63.567	-0.109	0.0	0.3	0.1
2448	65.401	63.573	-0.109	0.0	0.2	0.1
2472	65.401	63.579	-0.109	0.0	0.2	0.1
2496	65.401	63.584	-0.109	0.0	0.2	0.1
2520	65.401	63.589	-0.109	0.0	0.2	0.1
2544	65.401	63.593	-0.109	0.0	0.2	0.0
2568	65.401	63.597	-0.109	0.0	0.2	0.0
2592	65.401	63.601	-0.109	0.0	0.2	0.0
2616	65.401	63.604	-0.109	0.0	0.2	0.0
2640	65.401	63.606	-0.109	0.0	0.2	0.0
2664	65.401	63.609	-0.109	0.0	0.1	0.0
2688	65.401	63.610	-0.109	0.0	0.1	0.0
2712	65.401	63.612	-0.109	0.0	0.1	0.0
2736	65.401	63.614	-0.109	0.0	0.1	0.0
2760	65.401	63.615	-0.109	0.0	0.1	0.0
2784	65.401	63.616	-0.109	0.0	0.1	0.0
2808	65.401	63.616	-0.109	0.0	0.1	0.0
2832	65.400	63.617	-0.110	0.0	0.1	0.0
2856	65.400	63.617	-0.110	0.0	0.1	0.0
2880	65.400	63.617	-0.110	0.0	0.1	0.0
2904	65.400	63.617	-0.110	0.0	0.1	0.0
2928	65.400	63.617	-0.110	0.0	0.1	0.0
2952	65.400	63.616	-0.110	0.0	0.1	0.0
2976	65.400	63.616	-0.110	0.0	0.1	0.0
3000	65.400	63.615	-0.110	0.0	0.1	0.0
3024	65.400	63.615	-0.110	0.0	0.1	0.0
3048	65.400	63.614	-0.110	0.0	0.1	0.0
3072	65.400	63.613	-0.110	0.0	0.1	0.0
3096	65.400	63.612	-0.110	0.0	0.1	0.0
3120	65.400	63.611	-0.110	0.0	0.1	0.0
3144	65.400	63.609	-0.110	0.0	0.1	0.0
3168	65.400	63.609	-0.110	0.0	0.1	0.0
3192	65.400	63.607	-0.110	0.0	0.1	0.0
3216	65.400	63.606	-0.110	0.0	0.1	0.0
3240	65.400	63.605	-0.110	0.0	0.1	0.0
3264	65.400	63.604	-0.110	0.0	0.1	0.0
3288	65.400	63.602	-0.110	0.0	0.1	0.0
3312	65.400	63.601	-0.110	0.0	0.1	0.0
3336	65.400	63.599	-0.110	0.0	0.1	0.0
3360	65.400	63.598	-0.110	0.0	0.1	0.0
3384	65.400	63.596	-0.110	0.0	0.1	0.0
3408	65.400	63.595	-0.110	0.0	0.1	0.0
3432	65.400	63.593	-0.110	0.0	0.0	0.0
3456	65.400	63.592	-0.110	0.0	0.0	0.0
3480	65.400	63.590	-0.110	0.0	0.0	0.0
3504	65.400	63.589	-0.110	0.0	0.0	0.0
3528	65.400	63.587	-0.110	0.0	0.0	0.0
3552	65.400	63.585	-0.110	0.0	0.0	0.0
3576	65.400	63.583	-0.110	0.0	0.0	0.0
3600	65.400	63.581	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.579	-0.110	0.0	0.0	0.0
3648	65.400	63.578	-0.110	0.0	0.0	0.0
3672	65.400	63.575	-0.110	0.0	0.0	0.0
3696	65.400	63.575	-0.110	0.0	0.0	0.0
3720	65.400	63.573	-0.110	0.0	0.0	0.0
3744	65.400	63.571	-0.110	0.0	0.0	0.0
3768	65.400	63.569	-0.110	0.0	0.0	0.0
3792	65.400	63.567	-0.110	0.0	0.0	0.0
3816	65.400	63.565	-0.110	0.0	0.0	0.0
3840	65.400	63.564	-0.110	0.0	0.0	0.0
3864	65.400	63.562	-0.110	0.0	0.0	0.0
3888	65.400	63.560	-0.110	0.0	0.0	0.0
3912	65.400	63.557	-0.110	0.0	0.0	0.0
3936	65.400	63.555	-0.110	0.0	0.0	0.0
3960	65.400	63.554	-0.110	0.0	0.0	0.0
3984	65.400	63.552	-0.110	0.0	0.0	0.0
4008	65.400	63.549	-0.110	0.0	0.0	0.0
4032	65.400	63.548	-0.110	0.0	0.0	0.0
4056	65.400	63.546	-0.110	0.0	0.0	0.0
4080	65.400	63.544	-0.110	0.0	0.0	0.0
4104	65.400	63.542	-0.110	0.0	0.0	0.0
4128	65.400	63.540	-0.110	0.0	0.0	0.0
4152	65.400	63.538	-0.110	0.0	0.0	0.0
4176	65.400	63.536	-0.110	0.0	0.0	0.0
4200	65.400	63.534	-0.110	0.0	0.0	0.0
4224	65.400	63.532	-0.110	0.0	0.0	0.0
4248	65.400	63.530	-0.110	0.0	0.0	0.0
4272	65.400	63.528	-0.110	0.0	0.0	0.0
4296	65.400	63.526	-0.110	0.0	0.0	0.0
4320	65.400	63.524	-0.110	0.0	0.0	0.0
4344	65.400	63.522	-0.110	0.0	0.0	0.0
4368	65.400	63.517	-0.110	0.0	0.0	0.0
4392	65.400	63.514	-0.110	0.0	0.0	0.0
4416	65.400	63.511	-0.110	0.0	0.0	0.0
4440	65.400	63.507	-0.110	0.0	0.0	0.0
4464	65.400	63.505	-0.110	0.0	0.0	0.0
4488	65.400	63.501	-0.110	0.0	0.0	0.0
4512	65.400	63.497	-0.110	0.0	0.0	0.0
4536	65.400	63.494	-0.110	0.0	0.0	0.0
4560	65.400	63.494	-0.110	0.0	0.0	0.0
4584	65.400	63.494	-0.110	0.0	0.0	0.0
4608	65.400	63.494	-0.110	0.0	0.0	0.0
4632	65.400	63.494	-0.110	0.0	0.0	0.0
4656	65.400	63.494	-0.110	0.0	0.0	0.0
4680	65.400	63.494	-0.110	0.0	0.0	0.0
4704	65.400	63.494	-0.110	0.0	0.0	0.0
4728	65.400	63.494	-0.110	0.0	0.0	0.0
4752	65.400	63.494	-0.110	0.0	0.0	0.0
4776	65.400	63.494	-0.110	0.0	0.0	0.0
4800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.494	-0.110	0.0	0.0	0.0
4848	65.400	63.494	-0.110	0.0	0.0	0.0
4872	65.400	63.494	-0.110	0.0	0.0	0.0
4896	65.400	63.494	-0.110	0.0	0.0	0.0
4920	65.400	63.494	-0.110	0.0	0.0	0.0
4944	65.400	63.494	-0.110	0.0	0.0	0.0
4968	65.400	63.494	-0.110	0.0	0.0	0.0
4992	65.400	63.494	-0.110	0.0	0.0	0.0
5016	65.400	63.494	-0.110	0.0	0.0	0.0
5040	65.400	63.494	-0.110	0.0	0.0	0.0
5064	65.400	63.494	-0.110	0.0	0.0	0.0
5088	65.400	63.494	-0.110	0.0	0.0	0.0
5112	65.400	63.494	-0.110	0.0	0.0	0.0
5136	65.400	63.494	-0.110	0.0	0.0	0.0
5160	65.400	63.494	-0.110	0.0	0.0	0.0
5184	65.400	63.494	-0.110	0.0	0.0	0.0
5208	65.400	63.494	-0.110	0.0	0.0	0.0
5232	65.400	63.494	-0.110	0.0	0.0	0.0
5256	65.400	63.494	-0.110	0.0	0.0	0.0
5280	65.400	63.494	-0.110	0.0	0.0	0.0
5304	65.400	63.494	-0.110	0.0	0.0	0.0
5328	65.400	63.494	-0.110	0.0	0.0	0.0
5352	65.400	63.494	-0.110	0.0	0.0	0.0
5376	65.400	63.494	-0.110	0.0	0.0	0.0
5400	65.400	63.494	-0.110	0.0	0.0	0.0
5424	65.400	63.494	-0.110	0.0	0.0	0.0
5448	65.400	63.494	-0.110	0.0	0.0	0.0
5472	65.400	63.494	-0.110	0.0	0.0	0.0
5496	65.400	63.494	-0.110	0.0	0.0	0.0
5520	65.400	63.494	-0.110	0.0	0.0	0.0
5544	65.400	63.494	-0.110	0.0	0.0	0.0
5568	65.400	63.494	-0.110	0.0	0.0	0.0
5592	65.400	63.494	-0.110	0.0	0.0	0.0
5616	65.400	63.494	-0.110	0.0	0.0	0.0
5640	65.400	63.494	-0.110	0.0	0.0	0.0
5664	65.400	63.494	-0.110	0.0	0.0	0.0
5688	65.400	63.494	-0.110	0.0	0.0	0.0
5712	65.400	63.494	-0.110	0.0	0.0	0.0
5736	65.400	63.494	-0.110	0.0	0.0	0.0
5760	65.400	63.494	-0.110	0.0	0.0	0.0
5784	65.400	63.494	-0.110	0.0	0.0	0.0
5808	65.400	63.494	-0.110	0.0	0.0	0.0
5832	65.400	63.494	-0.110	0.0	0.0	0.0
5856	65.400	63.494	-0.110	0.0	0.0	0.0
5880	65.400	63.494	-0.110	0.0	0.0	0.0
5904	65.400	63.494	-0.110	0.0	0.0	0.0
5928	65.400	63.494	-0.110	0.0	0.0	0.0
5952	65.400	63.494	-0.110	0.0	0.0	0.0
5976	65.400	63.494	-0.110	0.0	0.0	0.0
6000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.494	-0.110	0.0	0.0	0.0
6048	65.400	63.494	-0.110	0.0	0.0	0.0
6072	65.400	63.494	-0.110	0.0	0.0	0.0
6096	65.400	63.494	-0.110	0.0	0.0	0.0
6120	65.400	63.494	-0.110	0.0	0.0	0.0
6144	65.400	63.494	-0.110	0.0	0.0	0.0
6168	65.400	63.494	-0.110	0.0	0.0	0.0
6192	65.400	63.494	-0.110	0.0	0.0	0.0
6216	65.400	63.494	-0.110	0.0	0.0	0.0
6240	65.400	63.494	-0.110	0.0	0.0	0.0
6264	65.400	63.494	-0.110	0.0	0.0	0.0
6288	65.400	63.494	-0.110	0.0	0.0	0.0
6312	65.400	63.494	-0.110	0.0	0.0	0.0
6336	65.400	63.494	-0.110	0.0	0.0	0.0
6360	65.400	63.494	-0.110	0.0	0.0	0.0
6384	65.400	63.494	-0.110	0.0	0.0	0.0
6408	65.400	63.494	-0.110	0.0	0.0	0.0
6432	65.400	63.494	-0.110	0.0	0.0	0.0
6456	65.400	63.494	-0.110	0.0	0.0	0.0
6480	65.400	63.494	-0.110	0.0	0.0	0.0
6504	65.400	63.494	-0.110	0.0	0.0	0.0
6528	65.400	63.494	-0.110	0.0	0.0	0.0
6552	65.400	63.494	-0.110	0.0	0.0	0.0
6576	65.400	63.494	-0.110	0.0	0.0	0.0
6600	65.400	63.494	-0.110	0.0	0.0	0.0
6624	65.400	63.494	-0.110	0.0	0.0	0.0
6648	65.400	63.494	-0.110	0.0	0.0	0.0
6672	65.400	63.494	-0.110	0.0	0.0	0.0
6696	65.400	63.494	-0.110	0.0	0.0	0.0
6720	65.400	63.494	-0.110	0.0	0.0	0.0
6744	65.400	63.494	-0.110	0.0	0.0	0.0
6768	65.400	63.494	-0.110	0.0	0.0	0.0
6792	65.400	63.494	-0.110	0.0	0.0	0.0
6816	65.400	63.494	-0.110	0.0	0.0	0.0
6840	65.400	63.494	-0.110	0.0	0.0	0.0
6864	65.400	63.494	-0.110	0.0	0.0	0.0
6888	65.400	63.494	-0.110	0.0	0.0	0.0
6912	65.400	63.494	-0.110	0.0	0.0	0.0
6936	65.400	63.494	-0.110	0.0	0.0	0.0
6960	65.400	63.494	-0.110	0.0	0.0	0.0
6984	65.400	63.494	-0.110	0.0	0.0	0.0
7008	65.400	63.494	-0.110	0.0	0.0	0.0
7032	65.400	63.494	-0.110	0.0	0.0	0.0
7056	65.400	63.494	-0.110	0.0	0.0	0.0
7080	65.400	63.494	-0.110	0.0	0.0	0.0
7104	65.400	63.494	-0.110	0.0	0.0	0.0
7128	65.400	63.494	-0.110	0.0	0.0	0.0
7152	65.400	63.494	-0.110	0.0	0.0	0.0
7176	65.400	63.494	-0.110	0.0	0.0	0.0
7200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.447	-0.109	0.0	0.1	0.0
48	63.495	63.447	-0.109	0.0	0.1	0.0
72	63.495	63.447	-0.109	0.0	0.1	0.0
96	63.495	63.447	-0.109	0.0	0.1	0.0
120	63.495	63.447	-0.109	0.0	0.1	0.0
144	63.495	63.447	-0.109	0.0	0.1	0.0
168	63.495	63.447	-0.109	0.0	0.1	0.0
192	63.495	63.447	-0.109	0.0	0.1	0.0
216	63.495	63.447	-0.109	0.0	0.1	0.0
240	63.496	63.447	-0.109	0.0	0.1	0.0
264	63.496	63.447	-0.109	0.0	0.1	0.0
288	63.496	63.447	-0.109	0.0	0.1	0.0
312	63.496	63.447	-0.109	0.0	0.1	0.0
336	63.496	63.447	-0.109	0.0	0.1	0.0
360	63.496	63.447	-0.109	0.0	0.1	0.0
384	63.496	63.447	-0.109	0.0	0.1	0.0
408	63.496	63.447	-0.109	0.0	0.1	0.0
432	63.496	63.447	-0.109	0.0	0.1	0.0
456	63.496	63.447	-0.109	0.0	0.1	0.0
480	63.496	63.447	-0.108	0.0	0.1	0.0
504	63.496	63.447	-0.108	0.0	0.1	0.0
528	63.496	63.447	-0.108	0.0	0.1	0.0
552	63.496	63.447	-0.108	0.0	0.1	0.0
576	63.496	63.447	-0.108	0.0	0.1	0.0
600	63.496	63.447	-0.108	0.0	0.1	0.0
624	63.496	63.447	-0.108	0.0	0.1	0.0
648	63.496	63.447	-0.108	0.0	0.1	0.0
672	63.496	63.447	-0.108	0.0	0.1	0.0
696	63.496	63.447	-0.108	0.0	0.1	0.0
720	63.496	63.447	-0.108	0.0	0.1	0.0
744	63.496	63.447	-0.108	0.0	0.1	0.0
768	63.496	63.447	-0.108	0.0	0.1	0.0
792	63.496	63.447	-0.108	0.0	0.1	0.0
816	63.496	63.447	-0.108	0.0	0.1	0.0
840	63.496	63.448	-0.108	0.0	0.1	0.0
864	63.496	63.448	-0.108	0.0	0.1	0.0
888	63.496	63.448	-0.108	0.0	0.1	0.0
912	63.496	63.448	-0.108	0.0	0.1	0.0
936	63.496	63.448	-0.108	0.0	0.1	0.0
960	63.496	63.448	-0.108	0.0	0.1	0.0
984	63.496	63.448	-0.108	0.0	0.1	0.0
1008	63.496	63.448	-0.108	0.0	0.1	0.0
1032	63.496	63.448	-0.108	0.0	0.1	0.0
1056	63.496	63.448	-0.108	0.0	0.1	0.0
1080	63.496	63.448	-0.108	0.0	0.1	0.0
1104	63.496	63.448	-0.108	0.0	0.1	0.0
1128	63.496	63.448	-0.108	0.0	0.1	0.0
1152	63.496	63.448	-0.108	0.0	0.1	0.0
1176	63.496	63.448	-0.108	0.0	0.1	0.0
1200	63.496	63.449	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.497	63.449	-0.108	0.0	0.1	0.0
1248	63.497	63.449	-0.108	0.0	0.1	0.0
1272	63.497	63.449	-0.107	0.0	0.1	0.0
1296	63.497	63.449	-0.107	0.0	0.1	0.0
1320	63.497	63.449	-0.107	0.0	0.1	0.0
1344	63.497	63.449	-0.107	0.0	0.1	0.0
1368	63.497	63.450	-0.107	0.0	0.2	0.0
1392	63.497	63.450	-0.107	0.0	0.2	0.0
1416	63.497	63.450	-0.107	0.0	0.2	0.0
1440	63.497	63.450	-0.107	0.0	0.2	0.0
1464	63.498	63.450	-0.107	0.0	0.2	0.0
1488	63.498	63.451	-0.106	0.0	0.2	0.0
1512	63.498	63.451	-0.106	0.0	0.2	0.0
1536	63.498	63.452	-0.106	0.0	0.2	0.1
1560	63.498	63.452	-0.106	0.0	0.2	0.1
1584	63.499	63.452	-0.106	0.0	0.2	0.1
1608	63.499	63.453	-0.105	0.0	0.2	0.1
1632	63.499	63.453	-0.105	0.0	0.3	0.1
1656	63.499	63.454	-0.105	0.0	0.3	0.1
1680	63.500	63.454	-0.105	0.0	0.3	0.1
1704	63.500	63.455	-0.104	0.0	0.3	0.1
1728	63.500	63.455	-0.104	0.0	0.3	0.1
1752	63.501	63.456	-0.103	0.0	0.4	0.1
1776	63.501	63.456	-0.103	0.0	0.4	0.1
1800	63.502	63.456	-0.102	0.0	0.3	0.1
1824	63.502	63.456	-0.102	0.0	0.3	0.1
1848	63.503	63.457	-0.102	0.0	0.3	0.1
1872	63.503	63.457	-0.101	0.0	0.3	0.1
1896	63.503	63.457	-0.101	0.0	0.3	0.1
1920	63.504	63.458	-0.100	0.0	0.3	0.1
1944	63.504	63.458	-0.100	0.0	0.3	0.1
1968	63.505	63.458	-0.099	0.0	0.3	0.1
1992	63.505	63.458	-0.099	0.0	0.3	0.1
2016	63.505	63.459	-0.099	0.0	0.3	0.2
2040	63.506	63.459	-0.099	0.0	0.3	0.2
2064	63.506	63.459	-0.098	0.0	0.3	0.2
2088	63.506	63.460	-0.098	0.0	0.3	0.2
2112	63.506	63.460	-0.098	0.0	0.3	0.2
2136	63.507	63.461	-0.098	0.0	0.3	0.2
2160	63.507	63.463	-0.097	0.0	0.3	0.2
2184	63.507	63.470	-0.097	0.0	0.3	0.2
2208	63.507	63.482	-0.098	0.0	0.3	0.2
2232	63.507	63.494	-0.097	0.0	0.3	0.2
2256	63.510	63.505	-0.094	0.0	0.3	0.2
2280	63.517	63.516	-0.087	0.0	0.2	0.2
2304	63.527	63.526	-0.078	0.0	0.1	0.2
2328	63.536	63.535	-0.068	0.0	0.1	0.2
2352	63.544	63.544	-0.060	0.0	0.0	0.1
2376	63.552	63.552	-0.052	0.0	0.0	0.1
2400	63.560	63.559	-0.045	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.567	63.566	-0.037	0.0	0.0	0.1
2448	63.573	63.572	-0.031	0.0	0.0	0.1
2472	63.579	63.578	-0.025	0.0	0.0	0.1
2496	63.584	63.584	-0.020	0.0	0.0	0.1
2520	63.589	63.589	-0.015	0.0	0.0	0.1
2544	63.593	63.593	-0.011	0.0	0.0	0.1
2568	63.597	63.597	-0.007	0.0	0.0	0.1
2592	63.601	63.600	-0.003	0.0	0.0	0.1
2616	63.604	63.603	0.000	0.0	0.0	0.1
2640	63.606	63.606	0.002	0.0	0.0	0.1
2664	63.609	63.608	0.005	0.0	0.0	0.1
2688	63.610	63.610	0.006	0.0	0.0	0.1
2712	63.612	63.612	0.008	0.0	0.0	0.1
2736	63.614	63.613	0.010	0.0	0.0	0.1
2760	63.615	63.615	0.011	0.0	0.0	0.1
2784	63.616	63.615	0.012	0.0	0.0	0.1
2808	63.616	63.616	0.012	0.0	0.0	0.1
2832	63.617	63.617	0.013	0.0	0.0	0.0
2856	63.617	63.617	0.013	0.0	0.0	0.0
2880	63.617	63.617	0.013	0.0	0.0	0.0
2904	63.617	63.617	0.013	0.0	0.0	0.0
2928	63.617	63.617	0.013	0.0	0.0	0.0
2952	63.616	63.616	0.012	0.0	0.0	0.0
2976	63.616	63.616	0.012	0.0	0.0	0.0
3000	63.615	63.615	0.011	0.0	0.0	0.0
3024	63.615	63.614	0.010	0.0	0.0	0.0
3048	63.614	63.614	0.010	0.0	0.0	0.0
3072	63.613	63.613	0.009	0.0	0.0	0.0
3096	63.612	63.612	0.008	0.0	0.0	0.0
3120	63.611	63.611	0.007	0.0	0.0	0.0
3144	63.609	63.610	0.005	0.0	0.0	0.0
3168	63.609	63.608	0.004	0.0	0.0	0.0
3192	63.607	63.607	0.003	0.0	0.0	0.0
3216	63.606	63.606	0.002	0.0	0.0	0.0
3240	63.605	63.605	0.001	0.0	0.0	0.0
3264	63.604	63.603	-0.001	0.0	0.0	0.0
3288	63.602	63.602	-0.002	0.0	0.0	0.0
3312	63.601	63.601	-0.003	0.0	0.0	0.0
3336	63.599	63.599	-0.005	0.0	0.0	0.0
3360	63.598	63.598	-0.006	0.0	0.0	0.0
3384	63.596	63.596	-0.008	0.0	0.0	0.0
3408	63.595	63.595	-0.009	0.0	0.0	0.0
3432	63.593	63.593	-0.011	0.0	0.0	0.0
3456	63.592	63.592	-0.012	0.0	0.0	0.0
3480	63.590	63.590	-0.014	0.0	0.0	0.0
3504	63.589	63.588	-0.016	0.0	0.0	0.0
3528	63.587	63.587	-0.017	0.0	0.0	0.0
3552	63.585	63.585	-0.019	0.0	0.0	0.0
3576	63.583	63.583	-0.021	0.0	0.0	0.0
3600	63.581	63.582	-0.024	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.579	63.580	-0.025	0.0	0.0	0.0
3648	63.578	63.578	-0.026	0.0	0.0	0.0
3672	63.575	63.576	-0.029	0.0	0.0	0.0
3696	63.575	63.575	-0.029	0.0	0.0	0.0
3720	63.573	63.573	-0.031	0.0	0.0	0.0
3744	63.571	63.571	-0.033	0.0	0.0	0.0
3768	63.569	63.569	-0.035	0.0	0.0	0.0
3792	63.567	63.567	-0.037	0.0	0.0	0.0
3816	63.565	63.565	-0.039	0.0	0.0	0.0
3840	63.564	63.563	-0.041	0.0	0.0	0.0
3864	63.562	63.562	-0.043	0.0	0.0	0.0
3888	63.560	63.560	-0.044	0.0	0.0	0.0
3912	63.557	63.558	-0.047	0.0	0.0	0.0
3936	63.555	63.556	-0.049	0.0	0.0	0.0
3960	63.554	63.554	-0.050	0.0	0.0	0.0
3984	63.552	63.552	-0.052	0.0	0.0	0.0
4008	63.549	63.550	-0.055	0.0	0.0	0.0
4032	63.548	63.548	-0.056	0.0	0.0	0.0
4056	63.546	63.546	-0.058	0.0	0.0	0.0
4080	63.544	63.544	-0.060	0.0	0.0	0.0
4104	63.542	63.542	-0.062	0.0	0.0	0.0
4128	63.540	63.540	-0.064	0.0	0.0	0.0
4152	63.538	63.538	-0.066	0.0	0.0	0.0
4176	63.536	63.536	-0.068	0.0	0.0	0.0
4200	63.534	63.534	-0.070	0.0	0.0	0.0
4224	63.532	63.532	-0.072	0.0	0.0	0.0
4248	63.530	63.530	-0.074	0.0	0.0	0.0
4272	63.528	63.528	-0.076	0.0	0.0	0.0
4296	63.526	63.526	-0.078	0.0	0.0	0.0
4320	63.524	63.524	-0.080	0.0	0.0	0.0
4344	63.522	63.521	-0.082	0.0	0.0	0.0
4368	63.517	63.518	-0.087	0.0	0.0	0.0
4392	63.514	63.515	-0.090	0.0	0.0	0.0
4416	63.511	63.511	-0.093	0.0	0.0	0.0
4440	63.507	63.507	-0.097	0.0	0.0	0.0
4464	63.505	63.504	-0.099	0.0	0.0	0.0
4488	63.501	63.500	-0.103	0.0	0.0	0.0
4512	63.497	63.497	-0.107	0.0	0.0	0.0
4536	63.494	63.494	-0.110	0.0	0.0	0.0
4560	63.494	63.490	-0.110	0.0	0.0	0.0
4584	63.494	63.487	-0.110	0.0	0.0	0.0
4608	63.494	63.483	-0.110	0.0	0.0	0.0
4632	63.494	63.481	-0.110	0.0	0.0	0.0
4656	63.494	63.478	-0.110	0.0	0.0	0.0
4680	63.494	63.473	-0.110	0.0	0.0	0.0
4704	63.494	63.471	-0.110	0.0	0.0	0.0
4728	63.494	63.468	-0.110	0.0	0.0	0.0
4752	63.494	63.463	-0.110	0.0	0.0	0.0
4776	63.494	63.460	-0.110	0.0	0.0	0.0
4800	63.494	63.456	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.494	63.452	-0.110	0.0	0.0	0.0
4848	63.494	63.451	-0.110	0.0	0.0	0.0
4872	63.494	63.447	-0.110	0.0	0.0	0.0
4896	63.494	63.444	-0.110	0.0	0.0	0.0
4920	63.494	63.444	-0.110	0.0	0.0	0.0
4944	63.494	63.444	-0.110	0.0	0.0	0.0
4968	63.494	63.444	-0.110	0.0	0.0	0.0
4992	63.494	63.444	-0.110	0.0	0.0	0.0
5016	63.494	63.444	-0.110	0.0	0.0	0.0
5040	63.494	63.444	-0.110	0.0	0.0	0.0
5064	63.494	63.444	-0.110	0.0	0.0	0.0
5088	63.494	63.444	-0.110	0.0	0.0	0.0
5112	63.494	63.444	-0.110	0.0	0.0	0.0
5136	63.494	63.444	-0.110	0.0	0.0	0.0
5160	63.494	63.444	-0.110	0.0	0.0	0.0
5184	63.494	63.444	-0.110	0.0	0.0	0.0
5208	63.494	63.444	-0.110	0.0	0.0	0.0
5232	63.494	63.444	-0.110	0.0	0.0	0.0
5256	63.494	63.444	-0.110	0.0	0.0	0.0
5280	63.494	63.444	-0.110	0.0	0.0	0.0
5304	63.494	63.444	-0.110	0.0	0.0	0.0
5328	63.494	63.444	-0.110	0.0	0.0	0.0
5352	63.494	63.444	-0.110	0.0	0.0	0.0
5376	63.494	63.444	-0.110	0.0	0.0	0.0
5400	63.494	63.444	-0.110	0.0	0.0	0.0
5424	63.494	63.444	-0.110	0.0	0.0	0.0
5448	63.494	63.444	-0.110	0.0	0.0	0.0
5472	63.494	63.444	-0.110	0.0	0.0	0.0
5496	63.494	63.444	-0.110	0.0	0.0	0.0
5520	63.494	63.444	-0.110	0.0	0.0	0.0
5544	63.494	63.444	-0.110	0.0	0.0	0.0
5568	63.494	63.444	-0.110	0.0	0.0	0.0
5592	63.494	63.444	-0.110	0.0	0.0	0.0
5616	63.494	63.444	-0.110	0.0	0.0	0.0
5640	63.494	63.444	-0.110	0.0	0.0	0.0
5664	63.494	63.444	-0.110	0.0	0.0	0.0
5688	63.494	63.444	-0.110	0.0	0.0	0.0
5712	63.494	63.444	-0.110	0.0	0.0	0.0
5736	63.494	63.444	-0.110	0.0	0.0	0.0
5760	63.494	63.444	-0.110	0.0	0.0	0.0
5784	63.494	63.444	-0.110	0.0	0.0	0.0
5808	63.494	63.444	-0.110	0.0	0.0	0.0
5832	63.494	63.444	-0.110	0.0	0.0	0.0
5856	63.494	63.444	-0.110	0.0	0.0	0.0
5880	63.494	63.444	-0.110	0.0	0.0	0.0
5904	63.494	63.444	-0.110	0.0	0.0	0.0
5928	63.494	63.444	-0.110	0.0	0.0	0.0
5952	63.494	63.444	-0.110	0.0	0.0	0.0
5976	63.494	63.444	-0.110	0.0	0.0	0.0
6000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.494	63.444	-0.110	0.0	0.0	0.0
6048	63.494	63.444	-0.110	0.0	0.0	0.0
6072	63.494	63.444	-0.110	0.0	0.0	0.0
6096	63.494	63.444	-0.110	0.0	0.0	0.0
6120	63.494	63.444	-0.110	0.0	0.0	0.0
6144	63.494	63.444	-0.110	0.0	0.0	0.0
6168	63.494	63.444	-0.110	0.0	0.0	0.0
6192	63.494	63.444	-0.110	0.0	0.0	0.0
6216	63.494	63.444	-0.110	0.0	0.0	0.0
6240	63.494	63.444	-0.110	0.0	0.0	0.0
6264	63.494	63.444	-0.110	0.0	0.0	0.0
6288	63.494	63.444	-0.110	0.0	0.0	0.0
6312	63.494	63.444	-0.110	0.0	0.0	0.0
6336	63.494	63.444	-0.110	0.0	0.0	0.0
6360	63.494	63.444	-0.110	0.0	0.0	0.0
6384	63.494	63.444	-0.110	0.0	0.0	0.0
6408	63.494	63.444	-0.110	0.0	0.0	0.0
6432	63.494	63.444	-0.110	0.0	0.0	0.0
6456	63.494	63.444	-0.110	0.0	0.0	0.0
6480	63.494	63.444	-0.110	0.0	0.0	0.0
6504	63.494	63.444	-0.110	0.0	0.0	0.0
6528	63.494	63.444	-0.110	0.0	0.0	0.0
6552	63.494	63.444	-0.110	0.0	0.0	0.0
6576	63.494	63.444	-0.110	0.0	0.0	0.0
6600	63.494	63.444	-0.110	0.0	0.0	0.0
6624	63.494	63.444	-0.110	0.0	0.0	0.0
6648	63.494	63.444	-0.110	0.0	0.0	0.0
6672	63.494	63.444	-0.110	0.0	0.0	0.0
6696	63.494	63.444	-0.110	0.0	0.0	0.0
6720	63.494	63.444	-0.110	0.0	0.0	0.0
6744	63.494	63.444	-0.110	0.0	0.0	0.0
6768	63.494	63.444	-0.110	0.0	0.0	0.0
6792	63.494	63.444	-0.110	0.0	0.0	0.0
6816	63.494	63.444	-0.110	0.0	0.0	0.0
6840	63.494	63.444	-0.110	0.0	0.0	0.0
6864	63.494	63.444	-0.110	0.0	0.0	0.0
6888	63.494	63.444	-0.110	0.0	0.0	0.0
6912	63.494	63.444	-0.110	0.0	0.0	0.0
6936	63.494	63.444	-0.110	0.0	0.0	0.0
6960	63.494	63.444	-0.110	0.0	0.0	0.0
6984	63.494	63.444	-0.110	0.0	0.0	0.0
7008	63.494	63.444	-0.110	0.0	0.0	0.0
7032	63.494	63.444	-0.110	0.0	0.0	0.0
7056	63.494	63.444	-0.110	0.0	0.0	0.0
7080	63.494	63.444	-0.110	0.0	0.0	0.0
7104	63.494	63.444	-0.110	0.0	0.0	0.0
7128	63.494	63.444	-0.110	0.0	0.0	0.0
7152	63.494	63.444	-0.110	0.0	0.0	0.0
7176	63.494	63.444	-0.110	0.0	0.0	0.0
7200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.1	0.0
960	65.400	65.000	-0.110	0.0	0.1	0.0
984	65.400	65.000	-0.110	0.0	0.1	0.0
1008	65.400	65.000	-0.110	0.0	0.1	0.0
1032	65.400	65.000	-0.110	0.0	0.1	0.0
1056	65.400	65.000	-0.110	0.0	0.1	0.0
1080	65.400	65.000	-0.110	0.0	0.1	0.0
1104	65.400	65.000	-0.110	0.0	0.1	0.0
1128	65.400	65.001	-0.110	0.0	0.1	0.0
1152	65.400	65.001	-0.110	0.0	0.1	0.0
1176	65.400	65.001	-0.110	0.0	0.1	0.0
1200	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.001	-0.110	0.0	0.1	0.0
1248	65.400	65.001	-0.110	0.0	0.1	0.0
1272	65.400	65.001	-0.110	0.0	0.1	0.0
1296	65.400	65.001	-0.110	0.0	0.1	0.0
1320	65.400	65.001	-0.110	0.0	0.1	0.0
1344	65.400	65.001	-0.110	0.0	0.1	0.0
1368	65.400	65.001	-0.110	0.0	0.1	0.0
1392	65.400	65.001	-0.110	0.0	0.1	0.0
1416	65.401	65.001	-0.109	0.0	0.1	0.0
1440	65.401	65.001	-0.109	0.0	0.1	0.0
1464	65.401	65.001	-0.109	0.0	0.1	0.0
1488	65.401	65.001	-0.109	0.0	0.1	0.0
1512	65.401	65.001	-0.109	0.0	0.1	0.0
1536	65.401	65.001	-0.109	0.0	0.1	0.0
1560	65.401	65.001	-0.109	0.0	0.1	0.0
1584	65.401	65.001	-0.109	0.0	0.1	0.0
1608	65.401	65.001	-0.109	0.0	0.1	0.0
1632	65.401	65.001	-0.109	0.0	0.1	0.0
1656	65.401	65.001	-0.109	0.0	0.1	0.0
1680	65.401	65.001	-0.109	0.0	0.1	0.0
1704	65.401	65.001	-0.109	0.0	0.2	0.0
1728	65.401	65.001	-0.109	0.0	0.2	0.0
1752	65.401	65.002	-0.109	0.0	0.2	0.0
1776	65.401	65.002	-0.109	0.0	0.2	0.0
1800	65.401	65.002	-0.109	0.0	0.2	0.0
1824	65.401	65.002	-0.109	0.0	0.2	0.1
1848	65.401	65.002	-0.109	0.0	0.2	0.1
1872	65.401	65.002	-0.109	0.0	0.2	0.1
1896	65.401	65.002	-0.109	0.0	0.2	0.1
1920	65.402	65.002	-0.108	0.0	0.3	0.1
1944	65.402	65.002	-0.108	0.0	0.3	0.1
1968	65.402	65.003	-0.108	0.0	0.3	0.1
1992	65.402	65.003	-0.108	0.0	0.3	0.1
2016	65.402	65.003	-0.108	0.0	0.3	0.1
2040	65.402	65.003	-0.108	0.0	0.3	0.1
2064	65.402	65.003	-0.108	0.0	0.4	0.1
2088	65.402	65.003	-0.108	0.0	0.4	0.1
2112	65.402	65.003	-0.108	0.0	0.4	0.1
2136	65.403	65.004	-0.107	0.0	0.4	0.1
2160	65.403	65.004	-0.107	0.0	0.4	0.1
2184	65.403	65.004	-0.107	0.0	0.4	0.1
2208	65.403	65.004	-0.107	0.0	0.4	0.1
2232	65.402	65.003	-0.108	0.0	0.4	0.1
2256	65.402	65.003	-0.108	0.0	0.4	0.1
2280	65.402	65.003	-0.108	0.0	0.4	0.1
2304	65.402	65.003	-0.108	0.0	0.3	0.1
2328	65.402	65.003	-0.108	0.0	0.3	0.1
2352	65.402	65.003	-0.108	0.0	0.3	0.1
2376	65.402	65.003	-0.108	0.0	0.3	0.1
2400	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.402	65.002	-0.108	0.0	0.3	0.1
2448	65.401	65.002	-0.109	0.0	0.2	0.1
2472	65.401	65.002	-0.109	0.0	0.2	0.1
2496	65.401	65.002	-0.109	0.0	0.2	0.1
2520	65.401	65.002	-0.109	0.0	0.2	0.1
2544	65.401	65.002	-0.109	0.0	0.2	0.0
2568	65.401	65.002	-0.109	0.0	0.2	0.0
2592	65.401	65.002	-0.109	0.0	0.2	0.0
2616	65.401	65.001	-0.109	0.0	0.2	0.0
2640	65.401	65.001	-0.109	0.0	0.2	0.0
2664	65.401	65.001	-0.109	0.0	0.1	0.0
2688	65.401	65.001	-0.109	0.0	0.1	0.0
2712	65.401	65.001	-0.109	0.0	0.1	0.0
2736	65.401	65.001	-0.109	0.0	0.1	0.0
2760	65.401	65.001	-0.109	0.0	0.1	0.0
2784	65.401	65.001	-0.109	0.0	0.1	0.0
2808	65.401	65.001	-0.109	0.0	0.1	0.0
2832	65.401	65.001	-0.109	0.0	0.1	0.0
2856	65.401	65.001	-0.109	0.0	0.1	0.0
2880	65.401	65.001	-0.109	0.0	0.1	0.0
2904	65.401	65.001	-0.109	0.0	0.1	0.0
2928	65.401	65.001	-0.109	0.0	0.1	0.0
2952	65.400	65.001	-0.110	0.0	0.1	0.0
2976	65.400	65.001	-0.110	0.0	0.1	0.0
3000	65.400	65.001	-0.110	0.0	0.1	0.0
3024	65.400	65.001	-0.110	0.0	0.1	0.0
3048	65.400	65.001	-0.110	0.0	0.1	0.0
3072	65.400	65.001	-0.110	0.0	0.1	0.0
3096	65.400	65.001	-0.110	0.0	0.1	0.0
3120	65.400	65.001	-0.110	0.0	0.1	0.0
3144	65.400	65.001	-0.110	0.0	0.1	0.0
3168	65.400	65.001	-0.110	0.0	0.1	0.0
3192	65.400	65.001	-0.110	0.0	0.1	0.0
3216	65.400	65.001	-0.110	0.0	0.1	0.0
3240	65.400	65.000	-0.110	0.0	0.1	0.0
3264	65.400	65.000	-0.110	0.0	0.1	0.0
3288	65.400	65.000	-0.110	0.0	0.1	0.0
3312	65.400	65.000	-0.110	0.0	0.1	0.0
3336	65.400	65.000	-0.110	0.0	0.1	0.0
3360	65.400	65.000	-0.110	0.0	0.1	0.0
3384	65.400	65.000	-0.110	0.0	0.1	0.0
3408	65.400	65.000	-0.110	0.0	0.1	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.0	0.0
3480	65.400	65.000	-0.110	0.0	0.0	0.0
3504	65.400	65.000	-0.110	0.0	0.0	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0
4344	65.400	65.000	-0.110	0.0	0.0	0.0
4368	65.400	65.000	-0.110	0.0	0.0	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.447	-0.110	0.0	0.1	0.0
48	65.000	63.447	-0.110	0.0	0.1	0.0
72	65.000	63.447	-0.110	0.0	0.1	0.0
96	65.000	63.447	-0.110	0.0	0.1	0.0
120	65.000	63.447	-0.110	0.0	0.1	0.0
144	65.000	63.447	-0.110	0.0	0.1	0.0
168	65.000	63.447	-0.110	0.0	0.1	0.0
192	65.000	63.447	-0.110	0.0	0.1	0.0
216	65.000	63.447	-0.110	0.0	0.1	0.0
240	65.000	63.447	-0.110	0.0	0.1	0.0
264	65.000	63.447	-0.110	0.0	0.1	0.0
288	65.000	63.447	-0.110	0.0	0.1	0.0
312	65.000	63.447	-0.110	0.0	0.1	0.0
336	65.000	63.447	-0.110	0.0	0.1	0.0
360	65.000	63.447	-0.110	0.0	0.1	0.0
384	65.000	63.447	-0.110	0.0	0.1	0.0
408	65.000	63.447	-0.110	0.0	0.1	0.0
432	65.000	63.447	-0.110	0.0	0.1	0.0
456	65.000	63.447	-0.110	0.0	0.1	0.0
480	65.000	63.447	-0.110	0.0	0.1	0.0
504	65.000	63.447	-0.110	0.0	0.1	0.0
528	65.000	63.447	-0.110	0.0	0.1	0.0
552	65.000	63.447	-0.110	0.0	0.1	0.0
576	65.000	63.447	-0.110	0.0	0.1	0.0
600	65.000	63.447	-0.110	0.0	0.1	0.0
624	65.000	63.447	-0.110	0.0	0.1	0.0
648	65.000	63.447	-0.110	0.0	0.1	0.0
672	65.000	63.447	-0.110	0.0	0.1	0.0
696	65.000	63.447	-0.110	0.0	0.1	0.0
720	65.000	63.447	-0.110	0.0	0.1	0.0
744	65.000	63.447	-0.110	0.0	0.1	0.0
768	65.000	63.447	-0.110	0.0	0.1	0.0
792	65.000	63.447	-0.110	0.0	0.1	0.0
816	65.000	63.447	-0.110	0.0	0.1	0.0
840	65.000	63.448	-0.110	0.0	0.1	0.0
864	65.000	63.448	-0.110	0.0	0.1	0.0
888	65.000	63.448	-0.110	0.0	0.1	0.0
912	65.000	63.448	-0.110	0.0	0.1	0.0
936	65.000	63.448	-0.110	0.0	0.1	0.0
960	65.000	63.448	-0.110	0.0	0.1	0.0
984	65.000	63.448	-0.110	0.0	0.1	0.0
1008	65.000	63.448	-0.110	0.0	0.1	0.0
1032	65.000	63.448	-0.110	0.0	0.1	0.0
1056	65.000	63.448	-0.110	0.0	0.1	0.0
1080	65.000	63.448	-0.110	0.0	0.1	0.0
1104	65.000	63.448	-0.110	0.0	0.1	0.0
1128	65.001	63.448	-0.109	0.0	0.1	0.0
1152	65.001	63.448	-0.109	0.0	0.1	0.0
1176	65.001	63.448	-0.109	0.0	0.1	0.0
1200	65.001	63.449	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.001	63.449	-0.109	0.0	0.1	0.0
1248	65.001	63.449	-0.109	0.0	0.1	0.0
1272	65.001	63.449	-0.109	0.0	0.1	0.0
1296	65.001	63.449	-0.109	0.0	0.1	0.0
1320	65.001	63.449	-0.109	0.0	0.1	0.0
1344	65.001	63.449	-0.109	0.0	0.1	0.0
1368	65.001	63.450	-0.109	0.0	0.2	0.0
1392	65.001	63.450	-0.109	0.0	0.2	0.0
1416	65.001	63.450	-0.109	0.0	0.2	0.0
1440	65.001	63.450	-0.109	0.0	0.2	0.0
1464	65.001	63.450	-0.109	0.0	0.2	0.0
1488	65.001	63.451	-0.109	0.0	0.2	0.0
1512	65.001	63.451	-0.109	0.0	0.2	0.0
1536	65.001	63.452	-0.109	0.0	0.2	0.1
1560	65.001	63.452	-0.109	0.0	0.2	0.1
1584	65.001	63.452	-0.109	0.0	0.2	0.1
1608	65.001	63.453	-0.109	0.0	0.2	0.1
1632	65.001	63.453	-0.109	0.0	0.3	0.1
1656	65.001	63.454	-0.109	0.0	0.3	0.1
1680	65.001	63.454	-0.109	0.0	0.3	0.1
1704	65.001	63.455	-0.109	0.0	0.3	0.1
1728	65.001	63.455	-0.109	0.0	0.3	0.1
1752	65.002	63.456	-0.108	0.0	0.4	0.1
1776	65.002	63.456	-0.108	0.0	0.4	0.1
1800	65.002	63.456	-0.108	0.0	0.4	0.1
1824	65.002	63.456	-0.108	0.0	0.4	0.1
1848	65.002	63.457	-0.108	0.0	0.4	0.1
1872	65.002	63.457	-0.108	0.0	0.5	0.1
1896	65.002	63.457	-0.108	0.0	0.5	0.1
1920	65.002	63.458	-0.108	0.0	0.5	0.1
1944	65.002	63.458	-0.108	0.0	0.5	0.1
1968	65.003	63.458	-0.107	0.0	0.6	0.1
1992	65.003	63.458	-0.107	0.0	0.6	0.1
2016	65.003	63.459	-0.107	0.0	0.6	0.2
2040	65.003	63.459	-0.107	0.0	0.7	0.2
2064	65.003	63.459	-0.107	0.0	0.7	0.2
2088	65.003	63.460	-0.107	0.0	0.7	0.2
2112	65.003	63.460	-0.107	0.0	0.8	0.2
2136	65.004	63.461	-0.106	0.0	0.8	0.2
2160	65.004	63.463	-0.106	0.0	0.8	0.2
2184	65.004	63.470	-0.106	0.0	0.8	0.2
2208	65.004	63.482	-0.106	0.0	0.8	0.2
2232	65.003	63.494	-0.107	0.0	0.8	0.2
2256	65.003	63.505	-0.107	0.0	0.7	0.2
2280	65.003	63.516	-0.107	0.0	0.7	0.2
2304	65.003	63.526	-0.107	0.0	0.7	0.2
2328	65.003	63.535	-0.107	0.0	0.6	0.2
2352	65.003	63.544	-0.107	0.0	0.6	0.1
2376	65.003	63.552	-0.107	0.0	0.6	0.1
2400	65.002	63.559	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.002	63.566	-0.108	0.0	0.5	0.1
2448	65.002	63.572	-0.108	0.0	0.5	0.1
2472	65.002	63.578	-0.108	0.0	0.5	0.1
2496	65.002	63.584	-0.108	0.0	0.4	0.1
2520	65.002	63.589	-0.108	0.0	0.4	0.1
2544	65.002	63.593	-0.108	0.0	0.4	0.1
2568	65.002	63.597	-0.108	0.0	0.4	0.1
2592	65.002	63.600	-0.108	0.0	0.4	0.1
2616	65.001	63.603	-0.109	0.0	0.3	0.1
2640	65.001	63.606	-0.109	0.0	0.3	0.1
2664	65.001	63.608	-0.109	0.0	0.3	0.1
2688	65.001	63.610	-0.109	0.0	0.3	0.1
2712	65.001	63.612	-0.109	0.0	0.3	0.1
2736	65.001	63.613	-0.109	0.0	0.2	0.1
2760	65.001	63.615	-0.109	0.0	0.2	0.1
2784	65.001	63.615	-0.109	0.0	0.2	0.1
2808	65.001	63.616	-0.109	0.0	0.2	0.1
2832	65.001	63.617	-0.109	0.0	0.2	0.0
2856	65.001	63.617	-0.109	0.0	0.2	0.0
2880	65.001	63.617	-0.109	0.0	0.2	0.0
2904	65.001	63.617	-0.109	0.0	0.2	0.0
2928	65.001	63.617	-0.109	0.0	0.2	0.0
2952	65.001	63.616	-0.109	0.0	0.2	0.0
2976	65.001	63.616	-0.109	0.0	0.2	0.0
3000	65.001	63.615	-0.109	0.0	0.1	0.0
3024	65.001	63.614	-0.109	0.0	0.1	0.0
3048	65.001	63.614	-0.109	0.0	0.1	0.0
3072	65.001	63.613	-0.109	0.0	0.1	0.0
3096	65.001	63.612	-0.109	0.0	0.1	0.0
3120	65.001	63.611	-0.109	0.0	0.1	0.0
3144	65.001	63.610	-0.109	0.0	0.1	0.0
3168	65.001	63.608	-0.109	0.0	0.1	0.0
3192	65.001	63.607	-0.109	0.0	0.1	0.0
3216	65.001	63.606	-0.109	0.0	0.1	0.0
3240	65.000	63.605	-0.110	0.0	0.1	0.0
3264	65.000	63.603	-0.110	0.0	0.1	0.0
3288	65.000	63.602	-0.110	0.0	0.1	0.0
3312	65.000	63.601	-0.110	0.0	0.1	0.0
3336	65.000	63.599	-0.110	0.0	0.1	0.0
3360	65.000	63.598	-0.110	0.0	0.1	0.0
3384	65.000	63.596	-0.110	0.0	0.1	0.0
3408	65.000	63.595	-0.110	0.0	0.1	0.0
3432	65.000	63.593	-0.110	0.0	0.1	0.0
3456	65.000	63.592	-0.110	0.0	0.1	0.0
3480	65.000	63.590	-0.110	0.0	0.1	0.0
3504	65.000	63.588	-0.110	0.0	0.1	0.0
3528	65.000	63.587	-0.110	0.0	0.1	0.0
3552	65.000	63.585	-0.110	0.0	0.1	0.0
3576	65.000	63.583	-0.110	0.0	0.1	0.0
3600	65.000	63.582	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.580	-0.110	0.0	0.1	0.0
3648	65.000	63.578	-0.110	0.0	0.1	0.0
3672	65.000	63.576	-0.110	0.0	0.1	0.0
3696	65.000	63.575	-0.110	0.0	0.1	0.0
3720	65.000	63.573	-0.110	0.0	0.1	0.0
3744	65.000	63.571	-0.110	0.0	0.1	0.0
3768	65.000	63.569	-0.110	0.0	0.1	0.0
3792	65.000	63.567	-0.110	0.0	0.1	0.0
3816	65.000	63.565	-0.110	0.0	0.1	0.0
3840	65.000	63.563	-0.110	0.0	0.1	0.0
3864	65.000	63.562	-0.110	0.0	0.1	0.0
3888	65.000	63.560	-0.110	0.0	0.1	0.0
3912	65.000	63.558	-0.110	0.0	0.1	0.0
3936	65.000	63.556	-0.110	0.0	0.1	0.0
3960	65.000	63.554	-0.110	0.0	0.1	0.0
3984	65.000	63.552	-0.110	0.0	0.1	0.0
4008	65.000	63.550	-0.110	0.0	0.1	0.0
4032	65.000	63.548	-0.110	0.0	0.1	0.0
4056	65.000	63.546	-0.110	0.0	0.1	0.0
4080	65.000	63.544	-0.110	0.0	0.1	0.0
4104	65.000	63.542	-0.110	0.0	0.1	0.0
4128	65.000	63.540	-0.110	0.0	0.1	0.0
4152	65.000	63.538	-0.110	0.0	0.1	0.0
4176	65.000	63.536	-0.110	0.0	0.1	0.0
4200	65.000	63.534	-0.110	0.0	0.1	0.0
4224	65.000	63.532	-0.110	0.0	0.1	0.0
4248	65.000	63.530	-0.110	0.0	0.1	0.0
4272	65.000	63.528	-0.110	0.0	0.1	0.0
4296	65.000	63.526	-0.110	0.0	0.1	0.0
4320	65.000	63.524	-0.110	0.0	0.1	0.0
4344	65.000	63.521	-0.110	0.0	0.0	0.0
4368	65.000	63.518	-0.110	0.0	0.0	0.0
4392	65.000	63.515	-0.110	0.0	0.0	0.0
4416	65.000	63.511	-0.110	0.0	0.0	0.0
4440	65.000	63.507	-0.110	0.0	0.0	0.0
4464	65.000	63.504	-0.110	0.0	0.0	0.0
4488	65.000	63.500	-0.110	0.0	0.0	0.0
4512	65.000	63.497	-0.110	0.0	0.0	0.0
4536	65.000	63.494	-0.110	0.0	0.0	0.0
4560	65.000	63.490	-0.110	0.0	0.0	0.0
4584	65.000	63.487	-0.110	0.0	0.0	0.0
4608	65.000	63.483	-0.110	0.0	0.0	0.0
4632	65.000	63.481	-0.110	0.0	0.0	0.0
4656	65.000	63.478	-0.110	0.0	0.0	0.0
4680	65.000	63.473	-0.110	0.0	0.0	0.0
4704	65.000	63.471	-0.110	0.0	0.0	0.0
4728	65.000	63.468	-0.110	0.0	0.0	0.0
4752	65.000	63.463	-0.110	0.0	0.0	0.0
4776	65.000	63.460	-0.110	0.0	0.0	0.0
4800	65.000	63.456	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.452	-0.110	0.0	0.0	0.0
4848	65.000	63.451	-0.110	0.0	0.0	0.0
4872	65.000	63.447	-0.110	0.0	0.0	0.0
4896	65.000	63.444	-0.110	0.0	0.0	0.0
4920	65.000	63.444	-0.110	0.0	0.0	0.0
4944	65.000	63.444	-0.110	0.0	0.0	0.0
4968	65.000	63.444	-0.110	0.0	0.0	0.0
4992	65.000	63.444	-0.110	0.0	0.0	0.0
5016	65.000	63.444	-0.110	0.0	0.0	0.0
5040	65.000	63.444	-0.110	0.0	0.0	0.0
5064	65.000	63.444	-0.110	0.0	0.0	0.0
5088	65.000	63.444	-0.110	0.0	0.0	0.0
5112	65.000	63.444	-0.110	0.0	0.0	0.0
5136	65.000	63.444	-0.110	0.0	0.0	0.0
5160	65.000	63.444	-0.110	0.0	0.0	0.0
5184	65.000	63.444	-0.110	0.0	0.0	0.0
5208	65.000	63.444	-0.110	0.0	0.0	0.0
5232	65.000	63.444	-0.110	0.0	0.0	0.0
5256	65.000	63.444	-0.110	0.0	0.0	0.0
5280	65.000	63.444	-0.110	0.0	0.0	0.0
5304	65.000	63.444	-0.110	0.0	0.0	0.0
5328	65.000	63.444	-0.110	0.0	0.0	0.0
5352	65.000	63.444	-0.110	0.0	0.0	0.0
5376	65.000	63.444	-0.110	0.0	0.0	0.0
5400	65.000	63.444	-0.110	0.0	0.0	0.0
5424	65.000	63.444	-0.110	0.0	0.0	0.0
5448	65.000	63.444	-0.110	0.0	0.0	0.0
5472	65.000	63.444	-0.110	0.0	0.0	0.0
5496	65.000	63.444	-0.110	0.0	0.0	0.0
5520	65.000	63.444	-0.110	0.0	0.0	0.0
5544	65.000	63.444	-0.110	0.0	0.0	0.0
5568	65.000	63.444	-0.110	0.0	0.0	0.0
5592	65.000	63.444	-0.110	0.0	0.0	0.0
5616	65.000	63.444	-0.110	0.0	0.0	0.0
5640	65.000	63.444	-0.110	0.0	0.0	0.0
5664	65.000	63.444	-0.110	0.0	0.0	0.0
5688	65.000	63.444	-0.110	0.0	0.0	0.0
5712	65.000	63.444	-0.110	0.0	0.0	0.0
5736	65.000	63.444	-0.110	0.0	0.0	0.0
5760	65.000	63.444	-0.110	0.0	0.0	0.0
5784	65.000	63.444	-0.110	0.0	0.0	0.0
5808	65.000	63.444	-0.110	0.0	0.0	0.0
5832	65.000	63.444	-0.110	0.0	0.0	0.0
5856	65.000	63.444	-0.110	0.0	0.0	0.0
5880	65.000	63.444	-0.110	0.0	0.0	0.0
5904	65.000	63.444	-0.110	0.0	0.0	0.0
5928	65.000	63.444	-0.110	0.0	0.0	0.0
5952	65.000	63.444	-0.110	0.0	0.0	0.0
5976	65.000	63.444	-0.110	0.0	0.0	0.0
6000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.444	-0.110	0.0	0.0	0.0
6048	65.000	63.444	-0.110	0.0	0.0	0.0
6072	65.000	63.444	-0.110	0.0	0.0	0.0
6096	65.000	63.444	-0.110	0.0	0.0	0.0
6120	65.000	63.444	-0.110	0.0	0.0	0.0
6144	65.000	63.444	-0.110	0.0	0.0	0.0
6168	65.000	63.444	-0.110	0.0	0.0	0.0
6192	65.000	63.444	-0.110	0.0	0.0	0.0
6216	65.000	63.444	-0.110	0.0	0.0	0.0
6240	65.000	63.444	-0.110	0.0	0.0	0.0
6264	65.000	63.444	-0.110	0.0	0.0	0.0
6288	65.000	63.444	-0.110	0.0	0.0	0.0
6312	65.000	63.444	-0.110	0.0	0.0	0.0
6336	65.000	63.444	-0.110	0.0	0.0	0.0
6360	65.000	63.444	-0.110	0.0	0.0	0.0
6384	65.000	63.444	-0.110	0.0	0.0	0.0
6408	65.000	63.444	-0.110	0.0	0.0	0.0
6432	65.000	63.444	-0.110	0.0	0.0	0.0
6456	65.000	63.444	-0.110	0.0	0.0	0.0
6480	65.000	63.444	-0.110	0.0	0.0	0.0
6504	65.000	63.444	-0.110	0.0	0.0	0.0
6528	65.000	63.444	-0.110	0.0	0.0	0.0
6552	65.000	63.444	-0.110	0.0	0.0	0.0
6576	65.000	63.444	-0.110	0.0	0.0	0.0
6600	65.000	63.444	-0.110	0.0	0.0	0.0
6624	65.000	63.444	-0.110	0.0	0.0	0.0
6648	65.000	63.444	-0.110	0.0	0.0	0.0
6672	65.000	63.444	-0.110	0.0	0.0	0.0
6696	65.000	63.444	-0.110	0.0	0.0	0.0
6720	65.000	63.444	-0.110	0.0	0.0	0.0
6744	65.000	63.444	-0.110	0.0	0.0	0.0
6768	65.000	63.444	-0.110	0.0	0.0	0.0
6792	65.000	63.444	-0.110	0.0	0.0	0.0
6816	65.000	63.444	-0.110	0.0	0.0	0.0
6840	65.000	63.444	-0.110	0.0	0.0	0.0
6864	65.000	63.444	-0.110	0.0	0.0	0.0
6888	65.000	63.444	-0.110	0.0	0.0	0.0
6912	65.000	63.444	-0.110	0.0	0.0	0.0
6936	65.000	63.444	-0.110	0.0	0.0	0.0
6960	65.000	63.444	-0.110	0.0	0.0	0.0
6984	65.000	63.444	-0.110	0.0	0.0	0.0
7008	65.000	63.444	-0.110	0.0	0.0	0.0
7032	65.000	63.444	-0.110	0.0	0.0	0.0
7056	65.000	63.444	-0.110	0.0	0.0	0.0
7080	65.000	63.444	-0.110	0.0	0.0	0.0
7104	65.000	63.444	-0.110	0.0	0.0	0.0
7128	65.000	63.444	-0.110	0.0	0.0	0.0
7152	65.000	63.444	-0.110	0.0	0.0	0.0
7176	65.000	63.444	-0.110	0.0	0.0	0.0
7200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.447	63.251	-0.108	0.0	0.1	0.0
48	63.447	63.253	-0.108	0.0	0.1	0.0
72	63.447	63.254	-0.107	0.0	0.1	0.0
96	63.447	63.255	-0.107	0.0	0.1	0.0
120	63.447	63.257	-0.107	0.0	0.1	0.0
144	63.447	63.258	-0.107	0.0	0.1	0.0
168	63.447	63.259	-0.107	0.0	0.1	0.0
192	63.447	63.260	-0.107	0.0	0.1	0.0
216	63.447	63.260	-0.107	0.0	0.1	0.0
240	63.447	63.261	-0.107	0.0	0.1	0.0
264	63.447	63.262	-0.107	0.0	0.2	0.0
288	63.447	63.262	-0.107	0.0	0.2	0.0
312	63.447	63.263	-0.107	0.0	0.2	0.0
336	63.447	63.263	-0.107	0.0	0.2	0.0
360	63.447	63.263	-0.107	0.0	0.2	0.0
384	63.447	63.264	-0.107	0.0	0.2	0.0
408	63.447	63.264	-0.107	0.0	0.2	0.0
432	63.447	63.264	-0.107	0.0	0.2	0.0
456	63.447	63.265	-0.107	0.0	0.2	0.0
480	63.447	63.265	-0.107	0.0	0.2	0.0
504	63.447	63.265	-0.107	0.0	0.2	0.0
528	63.447	63.265	-0.107	0.0	0.2	0.0
552	63.447	63.265	-0.107	0.0	0.2	0.0
576	63.447	63.265	-0.107	0.0	0.2	0.0
600	63.447	63.265	-0.107	0.0	0.2	0.0
624	63.447	63.266	-0.107	0.0	0.2	0.0
648	63.447	63.266	-0.107	0.0	0.2	0.0
672	63.447	63.266	-0.107	0.0	0.2	0.0
696	63.447	63.266	-0.107	0.0	0.2	0.0
720	63.447	63.266	-0.107	0.0	0.2	0.0
744	63.447	63.266	-0.107	0.0	0.2	0.0
768	63.447	63.266	-0.107	0.0	0.2	0.0
792	63.447	63.266	-0.107	0.0	0.2	0.0
816	63.447	63.267	-0.107	0.0	0.2	0.0
840	63.448	63.267	-0.107	0.0	0.2	0.0
864	63.448	63.267	-0.107	0.0	0.2	0.0
888	63.448	63.267	-0.107	0.0	0.2	0.0
912	63.448	63.267	-0.106	0.0	0.2	0.0
936	63.448	63.267	-0.106	0.0	0.2	0.0
960	63.448	63.268	-0.106	0.0	0.2	0.1
984	63.448	63.268	-0.106	0.0	0.2	0.1
1008	63.448	63.268	-0.106	0.0	0.2	0.1
1032	63.448	63.268	-0.106	0.0	0.2	0.1
1056	63.448	63.268	-0.106	0.0	0.2	0.1
1080	63.448	63.268	-0.106	0.0	0.2	0.1
1104	63.448	63.269	-0.106	0.0	0.2	0.1
1128	63.448	63.269	-0.106	0.0	0.2	0.1
1152	63.448	63.269	-0.106	0.0	0.2	0.1
1176	63.448	63.269	-0.106	0.0	0.2	0.1
1200	63.449	63.270	-0.106	0.0	0.2	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.449	63.270	-0.105	0.0	0.3	0.1
1248	63.449	63.270	-0.105	0.0	0.3	0.1
1272	63.449	63.270	-0.105	0.0	0.3	0.1
1296	63.449	63.271	-0.105	0.0	0.3	0.1
1320	63.449	63.271	-0.105	0.0	0.3	0.1
1344	63.449	63.271	-0.105	0.0	0.3	0.1
1368	63.450	63.272	-0.105	0.0	0.3	0.1
1392	63.450	63.272	-0.104	0.0	0.3	0.1
1416	63.450	63.273	-0.104	0.0	0.3	0.1
1440	63.450	63.273	-0.104	0.0	0.3	0.1
1464	63.450	63.274	-0.104	0.0	0.4	0.1
1488	63.451	63.275	-0.103	0.0	0.4	0.1
1512	63.451	63.275	-0.103	0.0	0.4	0.1
1536	63.452	63.276	-0.102	0.0	0.4	0.1
1560	63.452	63.277	-0.102	0.0	0.4	0.1
1584	63.452	63.279	-0.102	0.0	0.4	0.1
1608	63.453	63.280	-0.102	0.0	0.4	0.1
1632	63.453	63.282	-0.101	0.0	0.3	0.1
1656	63.454	63.284	-0.100	0.0	0.3	0.1
1680	63.454	63.286	-0.100	0.0	0.3	0.1
1704	63.455	63.288	-0.099	0.0	0.3	0.2
1728	63.455	63.293	-0.099	0.0	0.3	0.2
1752	63.456	63.297	-0.098	0.0	0.3	0.2
1776	63.456	63.302	-0.098	0.0	0.3	0.2
1800	63.456	63.308	-0.098	0.0	0.3	0.2
1824	63.456	63.314	-0.098	0.0	0.4	0.2
1848	63.457	63.321	-0.097	0.0	0.4	0.2
1872	63.457	63.328	-0.097	0.0	0.4	0.2
1896	63.457	63.335	-0.097	0.0	0.4	0.2
1920	63.458	63.343	-0.097	0.0	0.4	0.3
1944	63.458	63.351	-0.096	0.0	0.4	0.3
1968	63.458	63.360	-0.096	0.0	0.4	0.3
1992	63.458	63.372	-0.096	0.0	0.4	0.3
2016	63.459	63.384	-0.095	0.0	0.4	0.3
2040	63.459	63.395	-0.095	0.0	0.4	0.3
2064	63.459	63.407	-0.095	0.0	0.4	0.3
2088	63.460	63.418	-0.094	0.0	0.4	0.4
2112	63.460	63.430	-0.094	0.0	0.4	0.4
2136	63.461	63.442	-0.093	0.0	0.4	0.4
2160	63.463	63.455	-0.091	0.0	0.4	0.4
2184	63.470	63.468	-0.084	0.0	0.3	0.4
2208	63.482	63.481	-0.072	0.0	0.2	0.4
2232	63.494	63.493	-0.060	0.0	0.1	0.4
2256	63.505	63.504	-0.049	0.0	0.1	0.4
2280	63.516	63.515	-0.038	0.0	0.1	0.3
2304	63.526	63.525	-0.028	0.0	0.0	0.3
2328	63.535	63.534	-0.019	0.0	0.0	0.3
2352	63.544	63.543	-0.011	0.0	0.0	0.3
2376	63.552	63.551	-0.002	0.0	0.0	0.3
2400	63.559	63.558	0.005	0.0	0.0	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.566	63.565	0.012	0.0	0.0	0.3
2448	63.572	63.572	0.018	0.0	0.0	0.2
2472	63.578	63.578	0.024	0.0	0.0	0.2
2496	63.584	63.583	0.030	0.0	0.0	0.2
2520	63.589	63.588	0.034	0.0	0.0	0.2
2544	63.593	63.592	0.039	0.0	0.0	0.2
2568	63.597	63.596	0.042	0.0	0.0	0.2
2592	63.600	63.600	0.046	0.0	0.0	0.2
2616	63.603	63.603	0.049	0.0	0.0	0.2
2640	63.606	63.606	0.052	0.0	0.0	0.2
2664	63.608	63.608	0.054	0.0	0.0	0.1
2688	63.610	63.610	0.056	0.0	0.0	0.1
2712	63.612	63.612	0.058	0.0	0.0	0.1
2736	63.613	63.613	0.059	0.0	0.0	0.1
2760	63.615	63.614	0.060	0.0	0.0	0.1
2784	63.615	63.615	0.061	0.0	0.0	0.1
2808	63.616	63.616	0.062	0.0	0.0	0.1
2832	63.617	63.616	0.062	0.0	0.0	0.1
2856	63.617	63.616	0.063	0.0	0.0	0.1
2880	63.617	63.617	0.063	0.0	0.0	0.1
2904	63.617	63.616	0.063	0.0	0.0	0.1
2928	63.617	63.616	0.062	0.0	0.0	0.1
2952	63.616	63.616	0.062	0.0	0.0	0.1
2976	63.616	63.615	0.062	0.0	0.0	0.1
3000	63.615	63.615	0.061	0.0	0.0	0.1
3024	63.614	63.614	0.060	0.0	0.0	0.1
3048	63.614	63.613	0.059	0.0	0.0	0.1
3072	63.613	63.612	0.059	0.0	0.0	0.1
3096	63.612	63.612	0.058	0.0	0.0	0.1
3120	63.611	63.610	0.057	0.0	0.0	0.1
3144	63.610	63.609	0.055	0.0	0.0	0.1
3168	63.608	63.608	0.054	0.0	0.0	0.1
3192	63.607	63.607	0.053	0.0	0.0	0.1
3216	63.606	63.606	0.052	0.0	0.0	0.1
3240	63.605	63.605	0.051	0.0	0.0	0.1
3264	63.603	63.603	0.049	0.0	0.0	0.1
3288	63.602	63.602	0.048	0.0	0.0	0.1
3312	63.601	63.601	0.047	0.0	0.0	0.1
3336	63.599	63.599	0.045	0.0	0.0	0.1
3360	63.598	63.598	0.044	0.0	0.0	0.1
3384	63.596	63.596	0.042	0.0	0.0	0.1
3408	63.595	63.595	0.041	0.0	0.0	0.1
3432	63.593	63.593	0.039	0.0	0.0	0.0
3456	63.592	63.592	0.038	0.0	0.0	0.0
3480	63.590	63.590	0.036	0.0	0.0	0.0
3504	63.588	63.588	0.034	0.0	0.0	0.0
3528	63.587	63.587	0.033	0.0	0.0	0.0
3552	63.585	63.585	0.031	0.0	0.0	0.0
3576	63.583	63.583	0.029	0.0	0.0	0.0
3600	63.582	63.581	0.028	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.580	63.580	0.026	0.0	0.0	0.0
3648	63.578	63.578	0.024	0.0	0.0	0.0
3672	63.576	63.576	0.022	0.0	0.0	0.0
3696	63.575	63.574	0.020	0.0	0.0	0.0
3720	63.573	63.573	0.019	0.0	0.0	0.0
3744	63.571	63.571	0.017	0.0	0.0	0.0
3768	63.569	63.569	0.015	0.0	0.0	0.0
3792	63.567	63.567	0.013	0.0	0.0	0.0
3816	63.565	63.565	0.011	0.0	0.0	0.0
3840	63.563	63.563	0.009	0.0	0.0	0.0
3864	63.562	63.561	0.007	0.0	0.0	0.0
3888	63.560	63.559	0.005	0.0	0.0	0.0
3912	63.558	63.558	0.004	0.0	0.0	0.0
3936	63.556	63.556	0.002	0.0	0.0	0.0
3960	63.554	63.554	0.000	0.0	0.0	0.0
3984	63.552	63.552	-0.002	0.0	0.0	0.0
4008	63.550	63.550	-0.004	0.0	0.0	0.0
4032	63.548	63.548	-0.006	0.0	0.0	0.0
4056	63.546	63.546	-0.008	0.0	0.0	0.0
4080	63.544	63.544	-0.010	0.0	0.0	0.0
4104	63.542	63.542	-0.012	0.0	0.0	0.0
4128	63.540	63.540	-0.014	0.0	0.0	0.0
4152	63.538	63.538	-0.016	0.0	0.0	0.0
4176	63.536	63.536	-0.018	0.0	0.0	0.0
4200	63.534	63.534	-0.020	0.0	0.0	0.0
4224	63.532	63.532	-0.022	0.0	0.0	0.0
4248	63.530	63.530	-0.024	0.0	0.0	0.0
4272	63.528	63.528	-0.026	0.0	0.0	0.0
4296	63.526	63.526	-0.028	0.0	0.0	0.0
4320	63.524	63.524	-0.030	0.0	0.0	0.0
4344	63.521	63.521	-0.033	0.0	0.0	0.0
4368	63.518	63.518	-0.036	0.0	0.0	0.0
4392	63.515	63.515	-0.040	0.0	0.0	0.0
4416	63.511	63.511	-0.043	0.0	0.0	0.0
4440	63.507	63.507	-0.048	0.0	0.0	0.0
4464	63.504	63.504	-0.051	0.0	0.0	0.0
4488	63.500	63.500	-0.054	0.0	0.0	0.0
4512	63.497	63.497	-0.057	0.0	0.0	0.0
4536	63.494	63.494	-0.061	0.0	0.0	0.0
4560	63.490	63.490	-0.064	0.0	0.0	0.0
4584	63.487	63.487	-0.067	0.0	0.0	0.0
4608	63.483	63.483	-0.071	0.0	0.0	0.0
4632	63.481	63.481	-0.074	0.0	0.0	0.0
4656	63.478	63.477	-0.076	0.0	0.0	0.0
4680	63.473	63.474	-0.081	0.0	0.0	0.0
4704	63.471	63.471	-0.083	0.0	0.0	0.0
4728	63.468	63.467	-0.086	0.0	0.0	0.0
4752	63.463	63.464	-0.091	0.0	0.0	0.0
4776	63.460	63.461	-0.094	0.0	0.0	0.0
4800	63.456	63.457	-0.098	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.452	63.454	-0.102	0.0	0.0	0.0
4848	63.451	63.450	-0.103	0.0	0.0	0.0
4872	63.447	63.447	-0.107	0.0	0.0	0.0
4896	63.444	63.444	-0.110	0.0	0.0	0.0
4920	63.444	63.441	-0.110	0.0	0.0	0.0
4944	63.444	63.437	-0.110	0.0	0.0	0.0
4968	63.444	63.434	-0.110	0.0	0.0	0.0
4992	63.444	63.431	-0.110	0.0	0.0	0.0
5016	63.444	63.428	-0.110	0.0	0.0	0.0
5040	63.444	63.424	-0.110	0.0	0.0	0.0
5064	63.444	63.421	-0.110	0.0	0.0	0.0
5088	63.444	63.418	-0.110	0.0	0.0	0.0
5112	63.444	63.414	-0.110	0.0	0.0	0.0
5136	63.444	63.411	-0.110	0.0	0.0	0.0
5160	63.444	63.408	-0.110	0.0	0.0	0.0
5184	63.444	63.405	-0.110	0.0	0.0	0.0
5208	63.444	63.401	-0.110	0.0	0.0	0.0
5232	63.444	63.398	-0.110	0.0	0.0	0.0
5256	63.444	63.395	-0.110	0.0	0.0	0.0
5280	63.444	63.392	-0.110	0.0	0.0	0.0
5304	63.444	63.389	-0.110	0.0	0.0	0.0
5328	63.444	63.386	-0.110	0.0	0.0	0.0
5352	63.444	63.383	-0.110	0.0	0.0	0.0
5376	63.444	63.380	-0.110	0.0	0.0	0.0
5400	63.444	63.377	-0.110	0.0	0.0	0.0
5424	63.444	63.374	-0.110	0.0	0.0	0.0
5448	63.444	63.372	-0.110	0.0	0.0	0.0
5472	63.444	63.369	-0.110	0.0	0.0	0.0
5496	63.444	63.367	-0.110	0.0	0.0	0.0
5520	63.444	63.365	-0.110	0.0	0.0	0.0
5544	63.444	63.363	-0.110	0.0	0.0	0.0
5568	63.444	63.359	-0.110	0.0	0.0	0.0
5592	63.444	63.354	-0.110	0.0	0.0	0.0
5616	63.444	63.351	-0.110	0.0	0.0	0.0
5640	63.444	63.347	-0.110	0.0	0.0	0.0
5664	63.444	63.344	-0.110	0.0	0.0	0.0
5688	63.444	63.341	-0.110	0.0	0.0	0.0
5712	63.444	63.338	-0.110	0.0	0.0	0.0
5736	63.444	63.335	-0.110	0.0	0.0	0.0
5760	63.444	63.332	-0.110	0.0	0.0	0.0
5784	63.444	63.329	-0.110	0.0	0.0	0.0
5808	63.444	63.326	-0.110	0.0	0.0	0.0
5832	63.444	63.322	-0.110	0.0	0.0	0.0
5856	63.444	63.319	-0.110	0.0	0.0	0.0
5880	63.444	63.316	-0.110	0.0	0.0	0.0
5904	63.444	63.314	-0.110	0.0	0.0	0.0
5928	63.444	63.311	-0.110	0.0	0.0	0.0
5952	63.444	63.307	-0.110	0.0	0.0	0.0
5976	63.444	63.304	-0.110	0.0	0.0	0.0
6000	63.444	63.301	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.444	63.297	-0.110	0.0	0.0	0.0
6048	63.444	63.294	-0.110	0.0	0.0	0.0
6072	63.444	63.291	-0.110	0.0	0.0	0.0
6096	63.444	63.288	-0.110	0.0	0.0	0.0
6120	63.444	63.284	-0.110	0.0	0.0	0.0
6144	63.444	63.281	-0.110	0.0	0.0	0.0
6168	63.444	63.278	-0.110	0.0	0.0	0.0
6192	63.444	63.275	-0.110	0.0	0.0	0.0
6216	63.444	63.271	-0.110	0.0	0.0	0.0
6240	63.444	63.269	-0.110	0.0	0.0	0.0
6264	63.444	63.267	-0.110	0.0	0.0	0.0
6288	63.444	63.265	-0.110	0.0	0.0	0.0
6312	63.444	63.263	-0.110	0.0	0.0	0.0
6336	63.444	63.262	-0.110	0.0	0.0	0.0
6360	63.444	63.261	-0.110	0.0	0.0	0.0
6384	63.444	63.260	-0.110	0.0	0.0	0.0
6408	63.444	63.259	-0.110	0.0	0.0	0.0
6432	63.444	63.258	-0.110	0.0	0.0	0.0
6456	63.444	63.258	-0.110	0.0	0.0	0.0
6480	63.444	63.257	-0.110	0.0	0.0	0.0
6504	63.444	63.257	-0.110	0.0	0.0	0.0
6528	63.444	63.256	-0.110	0.0	0.0	0.0
6552	63.444	63.256	-0.110	0.0	0.0	0.0
6576	63.444	63.256	-0.110	0.0	0.0	0.0
6600	63.444	63.256	-0.110	0.0	0.0	0.0
6624	63.444	63.255	-0.110	0.0	0.0	0.0
6648	63.444	63.255	-0.110	0.0	0.0	0.0
6672	63.444	63.255	-0.110	0.0	0.0	0.0
6696	63.444	63.255	-0.110	0.0	0.0	0.0
6720	63.444	63.254	-0.110	0.0	0.0	0.0
6744	63.444	63.254	-0.110	0.0	0.0	0.0
6768	63.444	63.254	-0.110	0.0	0.0	0.0
6792	63.444	63.254	-0.110	0.0	0.0	0.0
6816	63.444	63.254	-0.110	0.0	0.0	0.0
6840	63.444	63.254	-0.110	0.0	0.0	0.0
6864	63.444	63.254	-0.110	0.0	0.0	0.0
6888	63.444	63.253	-0.110	0.0	0.0	0.0
6912	63.444	63.253	-0.110	0.0	0.0	0.0
6936	63.444	63.253	-0.110	0.0	0.0	0.0
6960	63.444	63.253	-0.110	0.0	0.0	0.0
6984	63.444	63.253	-0.110	0.0	0.0	0.0
7008	63.444	63.253	-0.110	0.0	0.0	0.0
7032	63.444	63.253	-0.110	0.0	0.0	0.0
7056	63.444	63.253	-0.110	0.0	0.0	0.0
7080	63.444	63.253	-0.110	0.0	0.0	0.0
7104	63.444	63.253	-0.110	0.0	0.0	0.0
7128	63.444	63.253	-0.110	0.0	0.0	0.0
7152	63.444	63.253	-0.110	0.0	0.0	0.0
7176	63.444	63.252	-0.110	0.0	0.0	0.0
7200	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.252	-0.110	0.0	0.0	0.0
7248	63.444	63.252	-0.110	0.0	0.0	0.0
7272	63.444	63.252	-0.110	0.0	0.0	0.0
7296	63.444	63.252	-0.110	0.0	0.0	0.0
7320	63.444	63.252	-0.110	0.0	0.0	0.0
7344	63.444	63.252	-0.110	0.0	0.0	0.0
7368	63.444	63.252	-0.110	0.0	0.0	0.0
7392	63.444	63.252	-0.110	0.0	0.0	0.0
7416	63.444	63.252	-0.110	0.0	0.0	0.0
7440	63.444	63.252	-0.110	0.0	0.0	0.0
7464	63.444	63.252	-0.110	0.0	0.0	0.0
7488	63.444	63.252	-0.110	0.0	0.0	0.0
7512	63.444	63.252	-0.110	0.0	0.0	0.0
7536	63.444	63.252	-0.110	0.0	0.0	0.0
7560	63.444	63.252	-0.110	0.0	0.0	0.0
7584	63.444	63.252	-0.110	0.0	0.0	0.0
7608	63.444	63.252	-0.110	0.0	0.0	0.0
7632	63.444	63.252	-0.110	0.0	0.0	0.0
7656	63.444	63.252	-0.110	0.0	0.0	0.0
7680	63.444	63.252	-0.110	0.0	0.0	0.0
7704	63.444	63.252	-0.110	0.0	0.0	0.0
7728	63.444	63.252	-0.110	0.0	0.0	0.0
7752	63.444	63.251	-0.110	0.0	0.0	0.0
7776	63.444	63.251	-0.110	0.0	0.0	0.0
7800	63.444	63.251	-0.110	0.0	0.0	0.0
7824	63.444	63.251	-0.110	0.0	0.0	0.0
7848	63.444	63.251	-0.110	0.0	0.0	0.0
7872	63.444	63.251	-0.110	0.0	0.0	0.0
7896	63.444	63.251	-0.110	0.0	0.0	0.0
7920	63.444	63.251	-0.110	0.0	0.0	0.0
7944	63.444	63.251	-0.110	0.0	0.0	0.0
7968	63.444	63.251	-0.110	0.0	0.0	0.0
7992	63.444	63.251	-0.110	0.0	0.0	0.0
8016	63.444	63.251	-0.110	0.0	0.0	0.0
8040	63.444	63.251	-0.110	0.0	0.0	0.0
8064	63.444	63.251	-0.110	0.0	0.0	0.0
8088	63.444	63.251	-0.110	0.0	0.0	0.0
8112	63.444	63.251	-0.110	0.0	0.0	0.0
8136	63.444	63.251	-0.110	0.0	0.0	0.0
8160	63.444	63.251	-0.110	0.0	0.0	0.0
8184	63.444	63.251	-0.110	0.0	0.0	0.0
8208	63.444	63.251	-0.110	0.0	0.0	0.0
8232	63.444	63.251	-0.110	0.0	0.0	0.0
8256	63.444	63.251	-0.110	0.0	0.0	0.0
8280	63.444	63.251	-0.110	0.0	0.0	0.0
8304	63.444	63.251	-0.110	0.0	0.0	0.0
8328	63.444	63.251	-0.110	0.0	0.0	0.0
8352	63.444	63.251	-0.110	0.0	0.0	0.0
8376	63.444	63.251	-0.110	0.0	0.0	0.0
8400	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.251	-0.110	0.0	0.0	0.0
8448	63.444	63.251	-0.110	0.0	0.0	0.0
8472	63.444	63.251	-0.110	0.0	0.0	0.0
8496	63.444	63.251	-0.110	0.0	0.0	0.0
8520	63.444	63.251	-0.110	0.0	0.0	0.0
8544	63.444	63.251	-0.110	0.0	0.0	0.0
8568	63.444	63.251	-0.110	0.0	0.0	0.0
8592	63.444	63.251	-0.110	0.0	0.0	0.0
8616	63.444	63.251	-0.110	0.0	0.0	0.0
8640	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.253	63.100	-0.107	0.0	0.0	0.0
72	63.254	63.101	-0.106	0.0	0.0	0.0
96	63.255	63.102	-0.105	0.0	0.0	0.0
120	63.257	63.103	-0.103	0.0	0.0	0.0
144	63.258	63.105	-0.102	0.0	0.0	0.0
168	63.259	63.107	-0.101	0.0	0.1	0.0
192	63.260	63.110	-0.100	0.0	0.1	0.0
216	63.260	63.112	-0.100	0.0	0.1	0.0
240	63.261	63.114	-0.099	0.0	0.1	0.0
264	63.262	63.116	-0.098	0.0	0.1	0.0
288	63.262	63.118	-0.098	0.0	0.1	0.0
312	63.263	63.119	-0.097	0.0	0.1	0.0
336	63.263	63.120	-0.097	0.0	0.1	0.0
360	63.263	63.121	-0.097	0.0	0.1	0.0
384	63.264	63.122	-0.096	0.0	0.1	0.0
408	63.264	63.123	-0.096	0.0	0.1	0.0
432	63.264	63.124	-0.096	0.0	0.1	0.0
456	63.265	63.125	-0.095	0.0	0.1	0.0
480	63.265	63.126	-0.095	0.0	0.1	0.0
504	63.265	63.127	-0.095	0.0	0.1	0.0
528	63.265	63.127	-0.095	0.0	0.1	0.0
552	63.265	63.128	-0.095	0.0	0.2	0.0
576	63.265	63.128	-0.095	0.0	0.2	0.0
600	63.265	63.129	-0.095	0.0	0.2	0.0
624	63.266	63.129	-0.094	0.0	0.2	0.0
648	63.266	63.130	-0.094	0.0	0.2	0.0
672	63.266	63.130	-0.094	0.0	0.2	0.0
696	63.266	63.131	-0.094	0.0	0.2	0.0
720	63.266	63.131	-0.094	0.0	0.2	0.0
744	63.266	63.131	-0.094	0.0	0.2	0.0
768	63.266	63.132	-0.094	0.0	0.2	0.0
792	63.266	63.132	-0.094	0.0	0.2	0.0
816	63.267	63.133	-0.093	0.0	0.2	0.0
840	63.267	63.133	-0.093	0.0	0.2	0.0
864	63.267	63.134	-0.093	0.0	0.2	0.0
888	63.267	63.134	-0.093	0.0	0.2	0.0
912	63.267	63.135	-0.093	0.0	0.2	0.0
936	63.267	63.135	-0.093	0.0	0.2	0.0
960	63.268	63.136	-0.092	0.0	0.2	0.0
984	63.268	63.136	-0.092	0.0	0.2	0.0
1008	63.268	63.137	-0.092	0.0	0.2	0.0
1032	63.268	63.137	-0.092	0.0	0.2	0.0
1056	63.268	63.138	-0.092	0.0	0.2	0.0
1080	63.268	63.138	-0.092	0.0	0.2	0.1
1104	63.269	63.139	-0.091	0.0	0.2	0.1
1128	63.269	63.140	-0.091	0.0	0.2	0.1
1152	63.269	63.140	-0.091	0.0	0.2	0.1
1176	63.269	63.141	-0.091	0.0	0.2	0.1
1200	63.270	63.142	-0.090	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.270	63.143	-0.090	0.0	0.2	0.1
1248	63.270	63.143	-0.090	0.0	0.2	0.1
1272	63.270	63.144	-0.090	0.0	0.2	0.1
1296	63.271	63.145	-0.089	0.0	0.2	0.1
1320	63.271	63.146	-0.089	0.0	0.2	0.1
1344	63.271	63.147	-0.089	0.0	0.2	0.1
1368	63.272	63.149	-0.088	0.0	0.2	0.1
1392	63.272	63.150	-0.088	0.0	0.2	0.1
1416	63.273	63.152	-0.087	0.0	0.2	0.1
1440	63.273	63.154	-0.087	0.0	0.2	0.1
1464	63.274	63.158	-0.086	0.0	0.2	0.1
1488	63.275	63.163	-0.085	0.0	0.3	0.1
1512	63.275	63.169	-0.085	0.0	0.3	0.1
1536	63.276	63.175	-0.084	0.0	0.3	0.1
1560	63.277	63.183	-0.083	0.0	0.3	0.1
1584	63.279	63.191	-0.081	0.0	0.3	0.1
1608	63.280	63.200	-0.080	0.0	0.3	0.1
1632	63.282	63.213	-0.078	0.0	0.3	0.1
1656	63.284	63.224	-0.076	0.0	0.3	0.1
1680	63.286	63.237	-0.074	0.0	0.3	0.1
1704	63.288	63.251	-0.072	0.0	0.3	0.1
1728	63.293	63.250	-0.067	0.0	0.2	0.1
1752	63.297	63.249	-0.063	0.0	0.2	0.1
1776	63.302	63.250	-0.058	0.0	0.2	0.1
1800	63.308	63.251	-0.052	0.0	0.2	0.1
1824	63.314	63.251	-0.046	0.0	0.2	0.1
1848	63.321	63.251	-0.039	0.0	0.2	0.1
1872	63.328	63.254	-0.032	0.0	0.3	0.1
1896	63.335	63.258	-0.025	0.0	0.3	0.1
1920	63.343	63.263	-0.017	0.0	0.3	0.1
1944	63.351	63.269	-0.009	0.0	0.3	0.1
1968	63.360	63.276	0.000	0.0	0.3	0.1
1992	63.372	63.264	0.012	0.0	0.2	0.0
2016	63.384	63.258	0.024	0.0	0.2	0.1
2040	63.395	63.260	0.035	0.0	0.3	0.1
2064	63.407	63.269	0.047	0.0	0.3	0.1
2088	63.418	63.285	0.058	0.0	0.3	0.1
2112	63.430	63.310	0.070	0.0	0.3	0.1
2136	63.442	63.340	0.082	0.0	0.3	0.1
2160	63.455	63.367	0.095	0.0	0.3	0.1
2184	63.468	63.388	0.108	0.0	0.3	0.1
2208	63.481	63.404	0.121	0.0	0.3	0.1
2232	63.493	63.419	0.133	0.0	0.1	0.1
2256	63.504	63.432	0.144	0.0	0.0	0.1
2280	63.515	63.444	0.155	0.0	0.0	0.1
2304	63.525	63.454	0.165	0.0	0.0	0.1
2328	63.534	63.464	0.174	0.0	0.0	0.1
2352	63.543	63.474	0.183	0.0	0.0	0.1
2376	63.551	63.483	0.191	0.0	0.0	0.1
2400	63.558	63.491	0.198	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.565	63.498	0.205	0.0	0.0	0.1
2448	63.572	63.505	0.212	0.0	0.0	0.1
2472	63.578	63.512	0.218	0.0	0.0	0.1
2496	63.583	63.518	0.223	0.0	0.0	0.1
2520	63.588	63.523	0.228	0.0	0.0	0.1
2544	63.592	63.528	0.232	0.0	0.0	0.1
2568	63.596	63.532	0.236	0.0	0.0	0.1
2592	63.600	63.536	0.240	0.0	0.0	0.1
2616	63.603	63.540	0.243	0.0	0.0	0.1
2640	63.606	63.543	0.246	0.0	0.0	0.1
2664	63.608	63.546	0.248	0.0	0.0	0.1
2688	63.610	63.548	0.250	0.0	0.0	0.1
2712	63.612	63.551	0.252	0.0	0.0	0.1
2736	63.613	63.553	0.253	0.0	0.0	0.1
2760	63.614	63.554	0.254	0.0	0.0	0.1
2784	63.615	63.555	0.255	0.0	0.0	0.1
2808	63.616	63.556	0.256	0.0	0.0	0.1
2832	63.616	63.557	0.256	0.0	0.0	0.1
2856	63.616	63.558	0.256	0.0	0.0	0.1
2880	63.617	63.558	0.257	0.0	0.0	0.1
2904	63.616	63.558	0.256	0.0	0.0	0.1
2928	63.616	63.558	0.256	0.0	0.0	0.1
2952	63.616	63.558	0.256	0.0	0.0	0.1
2976	63.615	63.558	0.255	0.0	0.0	0.1
3000	63.615	63.558	0.255	0.0	0.0	0.1
3024	63.614	63.557	0.254	0.0	0.0	0.1
3048	63.613	63.556	0.253	0.0	0.0	0.1
3072	63.612	63.556	0.252	0.0	0.0	0.1
3096	63.612	63.555	0.252	0.0	0.0	0.1
3120	63.610	63.554	0.250	0.0	0.0	0.1
3144	63.609	63.553	0.249	0.0	0.0	0.1
3168	63.608	63.552	0.248	0.0	0.0	0.1
3192	63.607	63.551	0.247	0.0	0.0	0.1
3216	63.606	63.550	0.246	0.0	0.0	0.1
3240	63.605	63.549	0.245	0.0	0.0	0.1
3264	63.603	63.547	0.243	0.0	0.0	0.1
3288	63.602	63.546	0.242	0.0	0.0	0.1
3312	63.601	63.545	0.241	0.0	0.0	0.1
3336	63.599	63.544	0.239	0.0	0.0	0.1
3360	63.598	63.542	0.238	0.0	0.0	0.1
3384	63.596	63.541	0.236	0.0	0.0	0.1
3408	63.595	63.539	0.235	0.0	0.0	0.1
3432	63.593	63.538	0.233	0.0	0.0	0.1
3456	63.592	63.537	0.232	0.0	0.0	0.1
3480	63.590	63.535	0.230	0.0	0.0	0.1
3504	63.588	63.533	0.228	0.0	0.0	0.1
3528	63.587	63.532	0.227	0.0	0.0	0.1
3552	63.585	63.530	0.225	0.0	0.0	0.1
3576	63.583	63.529	0.223	0.0	0.0	0.1
3600	63.581	63.527	0.221	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.580	63.525	0.220	0.0	0.0	0.1
3648	63.578	63.524	0.218	0.0	0.0	0.1
3672	63.576	63.522	0.216	0.0	0.0	0.1
3696	63.574	63.520	0.214	0.0	0.0	0.1
3720	63.573	63.519	0.213	0.0	0.0	0.1
3744	63.571	63.517	0.211	0.0	0.0	0.1
3768	63.569	63.515	0.209	0.0	0.0	0.1
3792	63.567	63.513	0.207	0.0	0.0	0.1
3816	63.565	63.512	0.205	0.0	0.0	0.1
3840	63.563	63.510	0.203	0.0	0.0	0.1
3864	63.561	63.508	0.201	0.0	0.0	0.1
3888	63.559	63.506	0.199	0.0	0.0	0.1
3912	63.558	63.504	0.198	0.0	0.0	0.1
3936	63.556	63.502	0.196	0.0	0.0	0.1
3960	63.554	63.501	0.194	0.0	0.0	0.1
3984	63.552	63.499	0.192	0.0	0.0	0.1
4008	63.550	63.497	0.190	0.0	0.0	0.1
4032	63.548	63.495	0.188	0.0	0.0	0.1
4056	63.546	63.493	0.186	0.0	0.0	0.1
4080	63.544	63.491	0.184	0.0	0.0	0.1
4104	63.542	63.489	0.182	0.0	0.0	0.1
4128	63.540	63.487	0.180	0.0	0.0	0.1
4152	63.538	63.486	0.178	0.0	0.0	0.1
4176	63.536	63.484	0.176	0.0	0.0	0.1
4200	63.534	63.482	0.174	0.0	0.0	0.1
4224	63.532	63.480	0.172	0.0	0.0	0.1
4248	63.530	63.478	0.170	0.0	0.0	0.1
4272	63.528	63.476	0.168	0.0	0.0	0.1
4296	63.526	63.474	0.166	0.0	0.0	0.1
4320	63.524	63.472	0.164	0.0	0.0	0.1
4344	63.521	63.470	0.161	0.0	0.0	0.1
4368	63.518	63.468	0.158	0.0	0.0	0.1
4392	63.515	63.465	0.155	0.0	0.0	0.1
4416	63.511	63.461	0.151	0.0	0.0	0.1
4440	63.507	63.458	0.147	0.0	0.0	0.1
4464	63.504	63.454	0.144	0.0	0.0	0.1
4488	63.500	63.451	0.140	0.0	0.0	0.1
4512	63.497	63.448	0.137	0.0	0.0	0.1
4536	63.494	63.445	0.134	0.0	0.0	0.1
4560	63.490	63.441	0.130	0.0	0.0	0.1
4584	63.487	63.438	0.127	0.0	0.0	0.1
4608	63.483	63.435	0.123	0.0	0.0	0.1
4632	63.481	63.432	0.121	0.0	0.0	0.1
4656	63.477	63.429	0.117	0.0	0.0	0.1
4680	63.474	63.426	0.114	0.0	0.0	0.1
4704	63.471	63.422	0.111	0.0	0.0	0.1
4728	63.467	63.419	0.107	0.0	0.0	0.1
4752	63.464	63.416	0.104	0.0	0.0	0.1
4776	63.461	63.413	0.101	0.0	0.0	0.1
4800	63.457	63.410	0.097	0.0	0.1	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.454	63.406	0.094	0.0	0.1	0.1
4848	63.450	63.403	0.090	0.0	0.1	0.1
4872	63.447	63.399	0.087	0.0	0.1	0.1
4896	63.444	63.396	0.084	0.0	0.2	0.1
4920	63.441	63.394	0.081	0.0	0.2	0.1
4944	63.437	63.390	0.077	0.0	0.2	0.1
4968	63.434	63.387	0.074	0.0	0.2	0.1
4992	63.431	63.384	0.071	0.0	0.2	0.1
5016	63.428	63.381	0.068	0.0	0.2	0.1
5040	63.424	63.378	0.064	0.0	0.2	0.1
5064	63.421	63.374	0.061	0.0	0.2	0.1
5088	63.418	63.371	0.058	0.0	0.2	0.1
5112	63.414	63.368	0.054	0.0	0.2	0.1
5136	63.411	63.365	0.051	0.0	0.2	0.1
5160	63.408	63.362	0.048	0.0	0.2	0.1
5184	63.405	63.358	0.045	0.0	0.2	0.1
5208	63.401	63.355	0.041	0.0	0.2	0.1
5232	63.398	63.352	0.038	0.0	0.2	0.1
5256	63.395	63.349	0.035	0.0	0.2	0.1
5280	63.392	63.345	0.032	0.0	0.2	0.1
5304	63.389	63.341	0.029	0.0	0.2	0.1
5328	63.386	63.336	0.026	0.0	0.2	0.1
5352	63.383	63.331	0.023	0.0	0.2	0.1
5376	63.380	63.326	0.020	0.0	0.2	0.1
5400	63.377	63.319	0.017	0.0	0.2	0.1
5424	63.374	63.311	0.014	0.0	0.2	0.1
5448	63.372	63.302	0.012	0.0	0.2	0.1
5472	63.369	63.289	0.009	0.0	0.2	0.0
5496	63.367	63.277	0.007	0.0	0.2	0.0
5520	63.365	63.264	0.005	0.0	0.2	0.0
5544	63.363	63.250	0.003	0.0	0.2	0.0
5568	63.359	63.254	-0.001	0.0	0.2	0.1
5592	63.354	63.269	-0.006	0.0	0.3	0.1
5616	63.351	63.275	-0.009	0.0	0.3	0.1
5640	63.347	63.277	-0.013	0.0	0.3	0.1
5664	63.344	63.277	-0.016	0.0	0.2	0.1
5688	63.341	63.276	-0.019	0.0	0.2	0.1
5712	63.338	63.274	-0.022	0.0	0.2	0.1
5736	63.335	63.272	-0.025	0.0	0.2	0.1
5760	63.332	63.270	-0.028	0.0	0.2	0.1
5784	63.329	63.267	-0.031	0.0	0.2	0.1
5808	63.326	63.264	-0.034	0.0	0.2	0.1
5832	63.322	63.262	-0.038	0.0	0.2	0.1
5856	63.319	63.259	-0.041	0.0	0.2	0.1
5880	63.316	63.256	-0.044	0.0	0.2	0.1
5904	63.314	63.253	-0.046	0.0	0.2	0.1
5928	63.311	63.251	-0.049	0.0	0.2	0.1
5952	63.307	63.252	-0.053	0.0	0.2	0.1
5976	63.304	63.252	-0.056	0.0	0.2	0.1
6000	63.301	63.251	-0.059	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.297	63.251	-0.063	0.0	0.2	0.1
6048	63.294	63.254	-0.066	0.0	0.2	0.1
6072	63.291	63.250	-0.069	0.0	0.2	0.1
6096	63.288	63.251	-0.072	0.0	0.2	0.1
6120	63.284	63.251	-0.076	0.0	0.2	0.1
6144	63.281	63.249	-0.079	0.0	0.2	0.1
6168	63.278	63.250	-0.082	0.0	0.2	0.1
6192	63.275	63.250	-0.085	0.0	0.2	0.1
6216	63.271	63.249	-0.089	0.0	0.2	0.1
6240	63.269	63.246	-0.091	0.0	0.2	0.1
6264	63.267	63.238	-0.093	0.0	0.2	0.0
6288	63.265	63.224	-0.095	0.0	0.2	0.0
6312	63.263	63.210	-0.097	0.0	0.1	0.0
6336	63.262	63.194	-0.098	0.0	0.1	0.0
6360	63.261	63.176	-0.099	0.0	0.1	0.0
6384	63.260	63.158	-0.100	0.0	0.1	0.0
6408	63.259	63.138	-0.101	0.0	0.1	0.0
6432	63.258	63.127	-0.102	0.0	0.1	0.0
6456	63.258	63.120	-0.102	0.0	0.0	0.0
6480	63.257	63.115	-0.103	0.0	0.0	0.0
6504	63.257	63.112	-0.103	0.0	0.0	0.0
6528	63.256	63.110	-0.104	0.0	0.0	0.0
6552	63.256	63.108	-0.104	0.0	0.0	0.0
6576	63.256	63.107	-0.104	0.0	0.0	0.0
6600	63.256	63.106	-0.104	0.0	0.0	0.0
6624	63.255	63.105	-0.105	0.0	0.0	0.0
6648	63.255	63.105	-0.105	0.0	0.0	0.0
6672	63.255	63.104	-0.105	0.0	0.0	0.0
6696	63.255	63.104	-0.105	0.0	0.0	0.0
6720	63.254	63.104	-0.106	0.0	0.0	0.0
6744	63.254	63.103	-0.106	0.0	0.0	0.0
6768	63.254	63.103	-0.106	0.0	0.0	0.0
6792	63.254	63.103	-0.106	0.0	0.0	0.0
6816	63.254	63.103	-0.106	0.0	0.0	0.0
6840	63.254	63.102	-0.106	0.0	0.0	0.0
6864	63.254	63.102	-0.106	0.0	0.0	0.0
6888	63.253	63.102	-0.107	0.0	0.0	0.0
6912	63.253	63.102	-0.107	0.0	0.0	0.0
6936	63.253	63.102	-0.107	0.0	0.0	0.0
6960	63.253	63.102	-0.107	0.0	0.0	0.0
6984	63.253	63.102	-0.107	0.0	0.0	0.0
7008	63.253	63.101	-0.107	0.0	0.0	0.0
7032	63.253	63.101	-0.107	0.0	0.0	0.0
7056	63.253	63.101	-0.107	0.0	0.0	0.0
7080	63.253	63.101	-0.107	0.0	0.0	0.0
7104	63.253	63.101	-0.107	0.0	0.0	0.0
7128	63.253	63.101	-0.107	0.0	0.0	0.0
7152	63.253	63.101	-0.107	0.0	0.0	0.0
7176	63.252	63.101	-0.108	0.0	0.0	0.0
7200	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.252	63.101	-0.108	0.0	0.0	0.0
7248	63.252	63.101	-0.108	0.0	0.0	0.0
7272	63.252	63.101	-0.108	0.0	0.0	0.0
7296	63.252	63.101	-0.108	0.0	0.0	0.0
7320	63.252	63.101	-0.108	0.0	0.0	0.0
7344	63.252	63.101	-0.108	0.0	0.0	0.0
7368	63.252	63.101	-0.108	0.0	0.0	0.0
7392	63.252	63.101	-0.108	0.0	0.0	0.0
7416	63.252	63.101	-0.108	0.0	0.0	0.0
7440	63.252	63.101	-0.108	0.0	0.0	0.0
7464	63.252	63.101	-0.108	0.0	0.0	0.0
7488	63.252	63.101	-0.108	0.0	0.0	0.0
7512	63.252	63.101	-0.108	0.0	0.0	0.0
7536	63.252	63.101	-0.108	0.0	0.0	0.0
7560	63.252	63.101	-0.108	0.0	0.0	0.0
7584	63.252	63.101	-0.108	0.0	0.0	0.0
7608	63.252	63.101	-0.108	0.0	0.0	0.0
7632	63.252	63.101	-0.108	0.0	0.0	0.0
7656	63.252	63.101	-0.108	0.0	0.0	0.0
7680	63.252	63.101	-0.108	0.0	0.0	0.0
7704	63.252	63.100	-0.108	0.0	0.0	0.0
7728	63.252	63.100	-0.108	0.0	0.0	0.0
7752	63.251	63.100	-0.109	0.0	0.0	0.0
7776	63.251	63.100	-0.109	0.0	0.0	0.0
7800	63.251	63.100	-0.109	0.0	0.0	0.0
7824	63.251	63.100	-0.109	0.0	0.0	0.0
7848	63.251	63.100	-0.109	0.0	0.0	0.0
7872	63.251	63.100	-0.109	0.0	0.0	0.0
7896	63.251	63.100	-0.109	0.0	0.0	0.0
7920	63.251	63.100	-0.109	0.0	0.0	0.0
7944	63.251	63.100	-0.109	0.0	0.0	0.0
7968	63.251	63.100	-0.109	0.0	0.0	0.0
7992	63.251	63.100	-0.109	0.0	0.0	0.0
8016	63.251	63.100	-0.109	0.0	0.0	0.0
8040	63.251	63.100	-0.109	0.0	0.0	0.0
8064	63.251	63.100	-0.109	0.0	0.0	0.0
8088	63.251	63.100	-0.109	0.0	0.0	0.0
8112	63.251	63.100	-0.109	0.0	0.0	0.0
8136	63.251	63.100	-0.109	0.0	0.0	0.0
8160	63.251	63.100	-0.109	0.0	0.0	0.0
8184	63.251	63.100	-0.109	0.0	0.0	0.0
8208	63.251	63.100	-0.109	0.0	0.0	0.0
8232	63.251	63.100	-0.109	0.0	0.0	0.0
8256	63.251	63.100	-0.109	0.0	0.0	0.0
8280	63.251	63.100	-0.109	0.0	0.0	0.0
8304	63.251	63.100	-0.109	0.0	0.0	0.0
8328	63.251	63.100	-0.109	0.0	0.0	0.0
8352	63.251	63.100	-0.109	0.0	0.0	0.0
8376	63.251	63.100	-0.109	0.0	0.0	0.0
8400	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.251	63.100	-0.109	0.0	0.0	0.0
8448	63.251	63.100	-0.109	0.0	0.0	0.0
8472	63.251	63.100	-0.109	0.0	0.0	0.0
8496	63.251	63.100	-0.109	0.0	0.0	0.0
8520	63.251	63.100	-0.109	0.0	0.0	0.0
8544	63.251	63.100	-0.109	0.0	0.0	0.0
8568	63.251	63.100	-0.109	0.0	0.0	0.0
8592	63.251	63.100	-0.109	0.0	0.0	0.0
8616	63.251	63.100	-0.109	0.0	0.0	0.0
8640	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.101	63.096	-0.109	0.0	0.0	0.0
96	63.102	63.096	-0.108	0.0	0.0	0.0
120	63.103	63.096	-0.107	0.0	0.0	0.0
144	63.105	63.096	-0.105	0.0	0.0	0.0
168	63.107	63.096	-0.103	0.0	0.0	0.0
192	63.110	63.096	-0.100	0.0	0.0	0.0
216	63.112	63.096	-0.098	0.0	0.0	0.0
240	63.114	63.096	-0.096	0.0	0.0	0.0
264	63.116	63.096	-0.094	0.0	0.0	0.0
288	63.118	63.096	-0.092	0.0	0.0	0.0
312	63.119	63.096	-0.091	0.0	0.0	0.0
336	63.120	63.096	-0.090	0.0	0.0	0.0
360	63.121	63.096	-0.089	0.0	0.0	0.0
384	63.122	63.096	-0.088	0.0	0.0	0.0
408	63.123	63.096	-0.087	0.0	0.0	0.0
432	63.124	63.096	-0.086	0.0	0.0	0.0
456	63.125	63.096	-0.085	0.0	0.0	0.0
480	63.126	63.096	-0.084	0.0	0.0	0.0
504	63.127	63.096	-0.083	0.0	0.0	0.0
528	63.127	63.096	-0.083	0.0	0.0	0.0
552	63.128	63.096	-0.082	0.0	0.0	0.0
576	63.128	63.096	-0.082	0.0	0.0	0.0
600	63.129	63.096	-0.081	0.0	0.0	0.0
624	63.129	63.096	-0.081	0.0	0.0	0.0
648	63.130	63.096	-0.080	0.0	0.0	0.0
672	63.130	63.096	-0.080	0.0	0.0	0.0
696	63.131	63.096	-0.079	0.0	0.0	0.0
720	63.131	63.096	-0.079	0.0	0.0	0.0
744	63.131	63.096	-0.079	0.0	0.0	0.0
768	63.132	63.096	-0.078	0.0	0.0	0.0
792	63.132	63.096	-0.078	0.0	0.0	0.0
816	63.133	63.096	-0.077	0.0	0.0	0.0
840	63.133	63.096	-0.077	0.0	0.0	0.0
864	63.134	63.096	-0.076	0.0	0.0	0.0
888	63.134	63.096	-0.076	0.0	0.0	0.0
912	63.135	63.096	-0.075	0.0	0.0	0.0
936	63.135	63.096	-0.075	0.0	0.0	0.0
960	63.136	63.096	-0.074	0.0	0.0	0.0
984	63.136	63.096	-0.074	0.0	0.0	0.0
1008	63.137	63.096	-0.073	0.0	0.0	0.0
1032	63.137	63.096	-0.073	0.0	0.0	0.0
1056	63.138	63.096	-0.072	0.0	0.0	0.0
1080	63.138	63.096	-0.072	0.0	0.0	0.0
1104	63.139	63.096	-0.071	0.0	0.0	0.0
1128	63.140	63.096	-0.070	0.0	0.0	0.0
1152	63.140	63.096	-0.070	0.0	0.0	0.0
1176	63.141	63.096	-0.069	0.0	0.0	0.0
1200	63.142	63.096	-0.068	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.143	63.096	-0.067	0.0	0.0	0.0
1248	63.143	63.096	-0.067	0.0	0.0	0.0
1272	63.144	63.096	-0.066	0.0	0.0	0.0
1296	63.145	63.096	-0.065	0.0	0.0	0.0
1320	63.146	63.096	-0.064	0.0	0.0	0.0
1344	63.147	63.096	-0.063	0.0	0.0	0.0
1368	63.149	63.096	-0.061	0.0	0.0	0.0
1392	63.150	63.096	-0.060	0.0	0.0	0.0
1416	63.152	63.096	-0.058	0.0	0.0	0.0
1440	63.154	63.096	-0.056	0.0	0.0	0.0
1464	63.158	63.096	-0.052	0.0	0.0	0.0
1488	63.163	63.096	-0.047	0.0	0.0	0.0
1512	63.169	63.096	-0.041	0.0	0.0	0.0
1536	63.175	63.096	-0.035	0.0	0.0	0.0
1560	63.183	63.096	-0.027	0.0	0.0	0.0
1584	63.191	63.096	-0.019	0.0	0.0	0.0
1608	63.200	63.096	-0.010	0.0	0.0	0.0
1632	63.213	63.096	0.003	0.0	0.0	0.0
1656	63.224	63.096	0.014	0.0	0.0	0.0
1680	63.237	63.096	0.027	0.0	0.0	0.0
1704	63.251	63.096	0.041	0.0	0.0	0.0
1728	63.250	63.096	0.040	0.0	0.0	0.0
1752	63.249	63.096	0.039	0.0	0.0	0.0
1776	63.250	63.096	0.040	0.0	0.0	0.0
1800	63.251	63.096	0.041	0.0	0.0	0.0
1824	63.251	63.096	0.041	0.0	0.0	0.0
1848	63.251	63.096	0.041	0.0	0.0	0.0
1872	63.254	63.096	0.044	0.0	0.0	0.0
1896	63.258	63.096	0.048	0.0	0.0	0.0
1920	63.263	63.096	0.053	0.0	0.0	0.0
1944	63.269	63.096	0.059	0.0	0.0	0.0
1968	63.276	63.096	0.066	0.0	0.0	0.0
1992	63.264	63.096	0.054	0.0	0.0	0.0
2016	63.258	63.096	0.048	0.0	0.0	0.0
2040	63.260	63.096	0.050	0.0	0.0	0.0
2064	63.269	63.096	0.059	0.0	0.0	0.0
2088	63.285	63.096	0.075	0.0	0.0	0.0
2112	63.310	63.096	0.100	0.0	0.0	0.0
2136	63.340	63.096	0.130	0.0	0.0	0.0
2160	63.367	63.096	0.157	0.0	0.1	0.0
2184	63.388	63.096	0.178	0.0	0.1	0.0
2208	63.404	63.096	0.194	0.0	0.1	0.0
2232	63.419	63.096	0.209	0.0	0.1	0.0
2256	63.432	63.096	0.222	0.0	0.1	0.0
2280	63.444	63.096	0.234	0.0	0.1	0.0
2304	63.454	63.096	0.244	0.0	0.1	0.0
2328	63.464	63.096	0.254	0.0	0.1	0.0
2352	63.474	63.096	0.264	0.0	0.1	0.0
2376	63.483	63.096	0.273	0.0	0.1	0.0
2400	63.491	63.096	0.281	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.498	63.096	0.288	0.0	0.1	0.0
2448	63.505	63.096	0.295	0.0	0.1	0.0
2472	63.512	63.096	0.302	0.0	0.1	0.0
2496	63.518	63.096	0.308	0.0	0.1	0.0
2520	63.523	63.096	0.313	0.0	0.1	0.0
2544	63.528	63.096	0.318	0.0	0.1	0.0
2568	63.532	63.096	0.322	0.0	0.1	0.0
2592	63.536	63.096	0.326	0.0	0.1	0.0
2616	63.540	63.096	0.330	0.0	0.1	0.0
2640	63.543	63.096	0.333	0.0	0.1	0.0
2664	63.546	63.096	0.336	0.0	0.1	0.0
2688	63.548	63.096	0.338	0.0	0.1	0.0
2712	63.551	63.096	0.341	0.0	0.1	0.0
2736	63.553	63.096	0.343	0.0	0.1	0.0
2760	63.554	63.096	0.344	0.0	0.1	0.0
2784	63.555	63.096	0.345	0.0	0.1	0.0
2808	63.556	63.096	0.346	0.0	0.1	0.0
2832	63.557	63.096	0.347	0.0	0.1	0.0
2856	63.558	63.096	0.348	0.0	0.1	0.0
2880	63.558	63.096	0.348	0.0	0.1	0.0
2904	63.558	63.096	0.348	0.0	0.1	0.0
2928	63.558	63.096	0.348	0.0	0.1	0.0
2952	63.558	63.096	0.348	0.0	0.1	0.0
2976	63.558	63.096	0.348	0.0	0.1	0.0
3000	63.558	63.096	0.348	0.0	0.1	0.0
3024	63.557	63.096	0.347	0.0	0.1	0.0
3048	63.556	63.096	0.346	0.0	0.1	0.0
3072	63.556	63.096	0.346	0.0	0.1	0.0
3096	63.555	63.096	0.345	0.0	0.1	0.0
3120	63.554	63.096	0.344	0.0	0.1	0.0
3144	63.553	63.096	0.343	0.0	0.1	0.0
3168	63.552	63.096	0.342	0.0	0.1	0.0
3192	63.551	63.096	0.341	0.0	0.1	0.0
3216	63.550	63.096	0.340	0.0	0.1	0.0
3240	63.549	63.096	0.339	0.0	0.1	0.0
3264	63.547	63.096	0.337	0.0	0.1	0.0
3288	63.546	63.096	0.336	0.0	0.1	0.0
3312	63.545	63.096	0.335	0.0	0.1	0.0
3336	63.544	63.096	0.334	0.0	0.1	0.0
3360	63.542	63.096	0.332	0.0	0.1	0.0
3384	63.541	63.096	0.331	0.0	0.1	0.0
3408	63.539	63.096	0.329	0.0	0.1	0.0
3432	63.538	63.096	0.328	0.0	0.1	0.0
3456	63.537	63.096	0.327	0.0	0.1	0.0
3480	63.535	63.096	0.325	0.0	0.1	0.0
3504	63.533	63.096	0.323	0.0	0.1	0.0
3528	63.532	63.096	0.322	0.0	0.1	0.0
3552	63.530	63.096	0.320	0.0	0.1	0.0
3576	63.529	63.096	0.319	0.0	0.1	0.0
3600	63.527	63.096	0.317	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.525	63.096	0.315	0.0	0.1	0.0
3648	63.524	63.096	0.314	0.0	0.1	0.0
3672	63.522	63.096	0.312	0.0	0.1	0.0
3696	63.520	63.096	0.310	0.0	0.1	0.0
3720	63.519	63.096	0.309	0.0	0.1	0.0
3744	63.517	63.096	0.307	0.0	0.1	0.0
3768	63.515	63.096	0.305	0.0	0.1	0.0
3792	63.513	63.096	0.303	0.0	0.1	0.0
3816	63.512	63.096	0.302	0.0	0.1	0.0
3840	63.510	63.096	0.300	0.0	0.1	0.0
3864	63.508	63.096	0.298	0.0	0.1	0.0
3888	63.506	63.096	0.296	0.0	0.1	0.0
3912	63.504	63.096	0.294	0.0	0.1	0.0
3936	63.502	63.096	0.292	0.0	0.1	0.0
3960	63.501	63.096	0.291	0.0	0.1	0.0
3984	63.499	63.096	0.289	0.0	0.1	0.0
4008	63.497	63.096	0.287	0.0	0.1	0.0
4032	63.495	63.096	0.285	0.0	0.1	0.0
4056	63.493	63.096	0.283	0.0	0.1	0.0
4080	63.491	63.096	0.281	0.0	0.1	0.0
4104	63.489	63.096	0.279	0.0	0.1	0.0
4128	63.487	63.096	0.277	0.0	0.1	0.0
4152	63.486	63.096	0.276	0.0	0.1	0.0
4176	63.484	63.096	0.274	0.0	0.1	0.0
4200	63.482	63.096	0.272	0.0	0.1	0.0
4224	63.480	63.096	0.270	0.0	0.1	0.0
4248	63.478	63.096	0.268	0.0	0.1	0.0
4272	63.476	63.096	0.266	0.0	0.1	0.0
4296	63.474	63.096	0.264	0.0	0.1	0.0
4320	63.472	63.096	0.262	0.0	0.1	0.0
4344	63.470	63.096	0.260	0.0	0.1	0.0
4368	63.468	63.096	0.258	0.0	0.1	0.0
4392	63.465	63.096	0.255	0.0	0.1	0.0
4416	63.461	63.096	0.251	0.0	0.1	0.0
4440	63.458	63.096	0.248	0.0	0.1	0.0
4464	63.454	63.096	0.244	0.0	0.1	0.0
4488	63.451	63.096	0.241	0.0	0.1	0.0
4512	63.448	63.096	0.238	0.0	0.1	0.0
4536	63.445	63.096	0.235	0.0	0.1	0.0
4560	63.441	63.096	0.231	0.0	0.1	0.0
4584	63.438	63.096	0.228	0.0	0.1	0.0
4608	63.435	63.096	0.225	0.0	0.1	0.0
4632	63.432	63.096	0.222	0.0	0.1	0.0
4656	63.429	63.096	0.219	0.0	0.1	0.0
4680	63.426	63.096	0.216	0.0	0.1	0.0
4704	63.422	63.096	0.212	0.0	0.1	0.0
4728	63.419	63.096	0.209	0.0	0.1	0.0
4752	63.416	63.096	0.206	0.0	0.1	0.0
4776	63.413	63.096	0.203	0.0	0.1	0.0
4800	63.410	63.096	0.200	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.406	63.096	0.196	0.0	0.1	0.0
4848	63.403	63.096	0.193	0.0	0.1	0.0
4872	63.399	63.096	0.189	0.0	0.1	0.0
4896	63.396	63.096	0.186	0.0	0.1	0.0
4920	63.394	63.096	0.184	0.0	0.1	0.0
4944	63.390	63.096	0.180	0.0	0.1	0.0
4968	63.387	63.096	0.177	0.0	0.1	0.0
4992	63.384	63.096	0.174	0.0	0.1	0.0
5016	63.381	63.096	0.171	0.0	0.1	0.0
5040	63.378	63.096	0.168	0.0	0.1	0.0
5064	63.374	63.096	0.164	0.0	0.1	0.0
5088	63.371	63.096	0.161	0.0	0.1	0.0
5112	63.368	63.096	0.158	0.0	0.1	0.0
5136	63.365	63.096	0.155	0.0	0.1	0.0
5160	63.362	63.096	0.152	0.0	0.1	0.0
5184	63.358	63.096	0.148	0.0	0.1	0.0
5208	63.355	63.096	0.145	0.0	0.1	0.0
5232	63.352	63.096	0.142	0.0	0.1	0.0
5256	63.349	63.096	0.139	0.0	0.1	0.0
5280	63.345	63.096	0.135	0.0	0.1	0.0
5304	63.341	63.096	0.131	0.0	0.1	0.0
5328	63.336	63.096	0.126	0.0	0.1	0.0
5352	63.331	63.096	0.121	0.0	0.1	0.0
5376	63.326	63.096	0.116	0.0	0.1	0.0
5400	63.319	63.096	0.109	0.0	0.0	0.0
5424	63.311	63.096	0.101	0.0	0.0	0.0
5448	63.302	63.096	0.092	0.0	0.0	0.0
5472	63.289	63.096	0.079	0.0	0.0	0.0
5496	63.277	63.096	0.067	0.0	0.0	0.0
5520	63.264	63.096	0.054	0.0	0.0	0.0
5544	63.250	63.096	0.040	0.0	0.0	0.0
5568	63.254	63.096	0.044	0.0	0.0	0.0
5592	63.269	63.096	0.059	0.0	0.0	0.0
5616	63.275	63.096	0.065	0.0	0.0	0.0
5640	63.277	63.096	0.067	0.0	0.0	0.0
5664	63.277	63.096	0.067	0.0	0.0	0.0
5688	63.276	63.096	0.066	0.0	0.0	0.0
5712	63.274	63.096	0.064	0.0	0.0	0.0
5736	63.272	63.096	0.062	0.0	0.0	0.0
5760	63.270	63.096	0.060	0.0	0.0	0.0
5784	63.267	63.096	0.057	0.0	0.0	0.0
5808	63.264	63.096	0.054	0.0	0.0	0.0
5832	63.262	63.096	0.052	0.0	0.0	0.0
5856	63.259	63.096	0.049	0.0	0.0	0.0
5880	63.256	63.096	0.046	0.0	0.0	0.0
5904	63.253	63.096	0.043	0.0	0.0	0.0
5928	63.251	63.096	0.041	0.0	0.0	0.0
5952	63.252	63.096	0.042	0.0	0.0	0.0
5976	63.252	63.096	0.042	0.0	0.0	0.0
6000	63.251	63.096	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.251	63.096	0.041	0.0	0.0	0.0
6048	63.254	63.096	0.044	0.0	0.0	0.0
6072	63.250	63.096	0.040	0.0	0.0	0.0
6096	63.251	63.096	0.041	0.0	0.0	0.0
6120	63.251	63.096	0.041	0.0	0.0	0.0
6144	63.249	63.096	0.039	0.0	0.0	0.0
6168	63.250	63.096	0.040	0.0	0.0	0.0
6192	63.250	63.096	0.040	0.0	0.0	0.0
6216	63.249	63.096	0.039	0.0	0.0	0.0
6240	63.246	63.096	0.036	0.0	0.0	0.0
6264	63.238	63.096	0.028	0.0	0.0	0.0
6288	63.224	63.096	0.014	0.0	0.0	0.0
6312	63.210	63.096	0.000	0.0	0.0	0.0
6336	63.194	63.096	-0.016	0.0	0.0	0.0
6360	63.176	63.096	-0.034	0.0	0.0	0.0
6384	63.158	63.096	-0.052	0.0	0.0	0.0
6408	63.138	63.096	-0.072	0.0	0.0	0.0
6432	63.127	63.096	-0.083	0.0	0.0	0.0
6456	63.120	63.096	-0.090	0.0	0.0	0.0
6480	63.115	63.096	-0.095	0.0	0.0	0.0
6504	63.112	63.096	-0.098	0.0	0.0	0.0
6528	63.110	63.096	-0.100	0.0	0.0	0.0
6552	63.108	63.096	-0.102	0.0	0.0	0.0
6576	63.107	63.096	-0.103	0.0	0.0	0.0
6600	63.106	63.096	-0.104	0.0	0.0	0.0
6624	63.105	63.096	-0.105	0.0	0.0	0.0
6648	63.105	63.096	-0.105	0.0	0.0	0.0
6672	63.104	63.096	-0.106	0.0	0.0	0.0
6696	63.104	63.096	-0.106	0.0	0.0	0.0
6720	63.104	63.096	-0.106	0.0	0.0	0.0
6744	63.103	63.096	-0.107	0.0	0.0	0.0
6768	63.103	63.096	-0.107	0.0	0.0	0.0
6792	63.103	63.096	-0.107	0.0	0.0	0.0
6816	63.103	63.096	-0.107	0.0	0.0	0.0
6840	63.102	63.096	-0.108	0.0	0.0	0.0
6864	63.102	63.096	-0.108	0.0	0.0	0.0
6888	63.102	63.096	-0.108	0.0	0.0	0.0
6912	63.102	63.096	-0.108	0.0	0.0	0.0
6936	63.102	63.096	-0.108	0.0	0.0	0.0
6960	63.102	63.096	-0.108	0.0	0.0	0.0
6984	63.102	63.096	-0.108	0.0	0.0	0.0
7008	63.101	63.096	-0.109	0.0	0.0	0.0
7032	63.101	63.096	-0.109	0.0	0.0	0.0
7056	63.101	63.096	-0.109	0.0	0.0	0.0
7080	63.101	63.096	-0.109	0.0	0.0	0.0
7104	63.101	63.096	-0.109	0.0	0.0	0.0
7128	63.101	63.096	-0.109	0.0	0.0	0.0
7152	63.101	63.096	-0.109	0.0	0.0	0.0
7176	63.101	63.096	-0.109	0.0	0.0	0.0
7200	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.101	63.096	-0.109	0.0	0.0	0.0
7248	63.101	63.096	-0.109	0.0	0.0	0.0
7272	63.101	63.096	-0.109	0.0	0.0	0.0
7296	63.101	63.096	-0.109	0.0	0.0	0.0
7320	63.101	63.096	-0.109	0.0	0.0	0.0
7344	63.101	63.096	-0.109	0.0	0.0	0.0
7368	63.101	63.096	-0.109	0.0	0.0	0.0
7392	63.101	63.096	-0.109	0.0	0.0	0.0
7416	63.101	63.096	-0.109	0.0	0.0	0.0
7440	63.101	63.096	-0.109	0.0	0.0	0.0
7464	63.101	63.096	-0.109	0.0	0.0	0.0
7488	63.101	63.096	-0.109	0.0	0.0	0.0
7512	63.101	63.096	-0.109	0.0	0.0	0.0
7536	63.101	63.096	-0.109	0.0	0.0	0.0
7560	63.101	63.096	-0.109	0.0	0.0	0.0
7584	63.101	63.096	-0.109	0.0	0.0	0.0
7608	63.101	63.096	-0.109	0.0	0.0	0.0
7632	63.101	63.096	-0.109	0.0	0.0	0.0
7656	63.101	63.096	-0.109	0.0	0.0	0.0
7680	63.101	63.096	-0.109	0.0	0.0	0.0
7704	63.100	63.096	-0.110	0.0	0.0	0.0
7728	63.100	63.096	-0.110	0.0	0.0	0.0
7752	63.100	63.096	-0.110	0.0	0.0	0.0
7776	63.100	63.096	-0.110	0.0	0.0	0.0
7800	63.100	63.096	-0.110	0.0	0.0	0.0
7824	63.100	63.096	-0.110	0.0	0.0	0.0
7848	63.100	63.096	-0.110	0.0	0.0	0.0
7872	63.100	63.096	-0.110	0.0	0.0	0.0
7896	63.100	63.096	-0.110	0.0	0.0	0.0
7920	63.100	63.096	-0.110	0.0	0.0	0.0
7944	63.100	63.096	-0.110	0.0	0.0	0.0
7968	63.100	63.096	-0.110	0.0	0.0	0.0
7992	63.100	63.096	-0.110	0.0	0.0	0.0
8016	63.100	63.096	-0.110	0.0	0.0	0.0
8040	63.100	63.096	-0.110	0.0	0.0	0.0
8064	63.100	63.096	-0.110	0.0	0.0	0.0
8088	63.100	63.096	-0.110	0.0	0.0	0.0
8112	63.100	63.096	-0.110	0.0	0.0	0.0
8136	63.100	63.096	-0.110	0.0	0.0	0.0
8160	63.100	63.096	-0.110	0.0	0.0	0.0
8184	63.100	63.096	-0.110	0.0	0.0	0.0
8208	63.100	63.096	-0.110	0.0	0.0	0.0
8232	63.100	63.096	-0.110	0.0	0.0	0.0
8256	63.100	63.096	-0.110	0.0	0.0	0.0
8280	63.100	63.096	-0.110	0.0	0.0	0.0
8304	63.100	63.096	-0.110	0.0	0.0	0.0
8328	63.100	63.096	-0.110	0.0	0.0	0.0
8352	63.100	63.096	-0.110	0.0	0.0	0.0
8376	63.100	63.096	-0.110	0.0	0.0	0.0
8400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Summer
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.100	63.096	-0.110	0.0	0.0	0.0
8448	63.100	63.096	-0.110	0.0	0.0	0.0
8472	63.100	63.096	-0.110	0.0	0.0	0.0
8496	63.100	63.096	-0.110	0.0	0.0	0.0
8520	63.100	63.096	-0.110	0.0	0.0	0.0
8544	63.100	63.096	-0.110	0.0	0.0	0.0
8568	63.100	63.096	-0.110	0.0	0.0	0.0
8592	63.100	63.096	-0.110	0.0	0.0	0.0
8616	63.100	63.096	-0.110	0.0	0.0	0.0
8640	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	8640
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	4320
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 4320 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.1	OK
1.001	S1	63.603	-0.002	0.000	0.02	0.0	0.1	OK
2.000	RE2	65.402	-0.108	0.000	0.00	0.0	0.1	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.602	0.048	0.000	0.04	0.0	0.3	SURCHARGED
1.003	S4	63.602	0.242	0.000	0.03	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.544	0.334	0.000	0.00	0.0	0.0	SURCHARGED

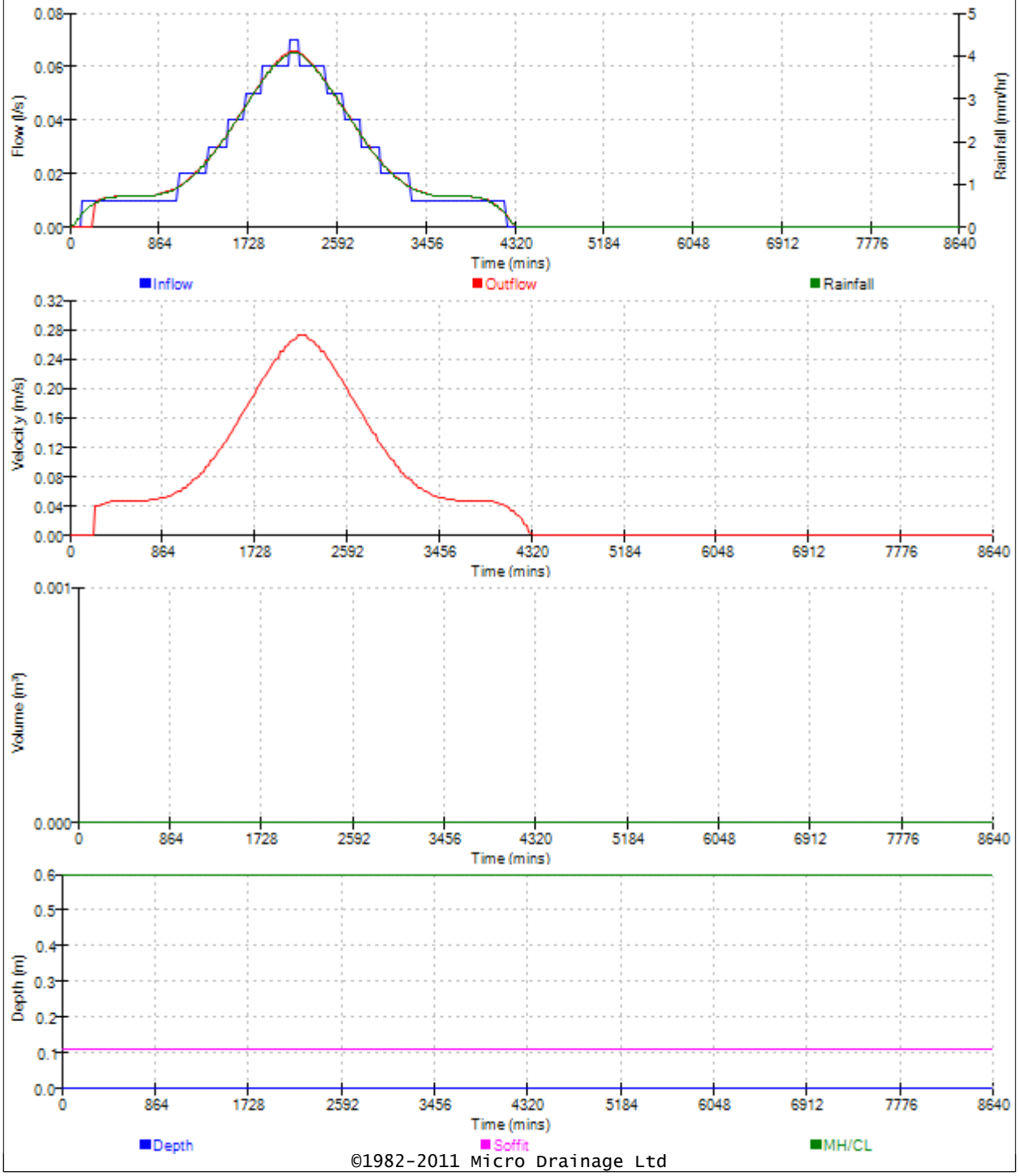
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Rainfall Hyetograph for 4320 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.053	888	0.789	1752	3.037	2616	2.877	3480	0.763
48	0.084	912	0.796	1776	3.068	2640	2.845	3504	0.759
72	0.208	936	0.823	1800	3.193	2664	2.716	3528	0.744
96	0.259	960	0.840	1824	3.254	2688	2.652	3552	0.738
120	0.335	984	0.866	1848	3.345	2712	2.556	3576	0.731
144	0.398	1008	0.897	1872	3.431	2736	2.460	3600	0.726
168	0.439	1032	0.917	1896	3.489	2760	2.396	3624	0.723
192	0.505	1056	0.966	1920	3.598	2784	2.272	3648	0.720
216	0.522	1080	0.978	1944	3.625	2808	2.240	3672	0.719
240	0.586	1104	1.048	1968	3.750	2832	2.088	3696	0.719
264	0.596	1128	1.064	1992	3.772	2856	2.059	3720	0.719
288	0.635	1152	1.128	2016	3.861	2880	1.942	3744	0.720
312	0.649	1176	1.164	2040	3.899	2904	1.885	3768	0.720
336	0.670	1200	1.218	2064	3.956	2928	1.801	3792	0.721
360	0.684	1224	1.277	2088	4.002	2952	1.721	3816	0.721
384	0.694	1248	1.317	2112	4.033	2976	1.668	3840	0.721
408	0.706	1272	1.403	2136	4.078	3000	1.567	3864	0.718
432	0.709	1296	1.425	2160	4.089	3024	1.542	3888	0.717
456	0.717	1320	1.542	2184	4.089	3048	1.425	3912	0.709
480	0.718	1344	1.567	2208	4.078	3072	1.403	3936	0.706
504	0.721	1368	1.668	2232	4.033	3096	1.317	3960	0.694
528	0.721	1392	1.721	2256	4.002	3120	1.277	3984	0.684
552	0.721	1416	1.801	2280	3.956	3144	1.218	4008	0.670
576	0.720	1440	1.885	2304	3.899	3168	1.164	4032	0.649
600	0.720	1464	1.942	2328	3.861	3192	1.128	4056	0.635
624	0.719	1488	2.059	2352	3.772	3216	1.064	4080	0.596
648	0.719	1512	2.088	2376	3.750	3240	1.048	4104	0.586
672	0.719	1536	2.240	2400	3.625	3264	0.978	4128	0.522
696	0.720	1560	2.272	2424	3.598	3288	0.966	4152	0.505
720	0.723	1584	2.396	2448	3.489	3312	0.917	4176	0.439
744	0.726	1608	2.460	2472	3.431	3336	0.897	4200	0.398
768	0.731	1632	2.556	2496	3.345	3360	0.866	4224	0.335
792	0.738	1656	2.652	2520	3.254	3384	0.840	4248	0.259
816	0.744	1680	2.716	2544	3.193	3408	0.823	4272	0.208
840	0.759	1704	2.845	2568	3.068	3432	0.796	4296	0.084
864	0.763	1728	2.877	2592	3.037	3456	0.789	4320	0.053

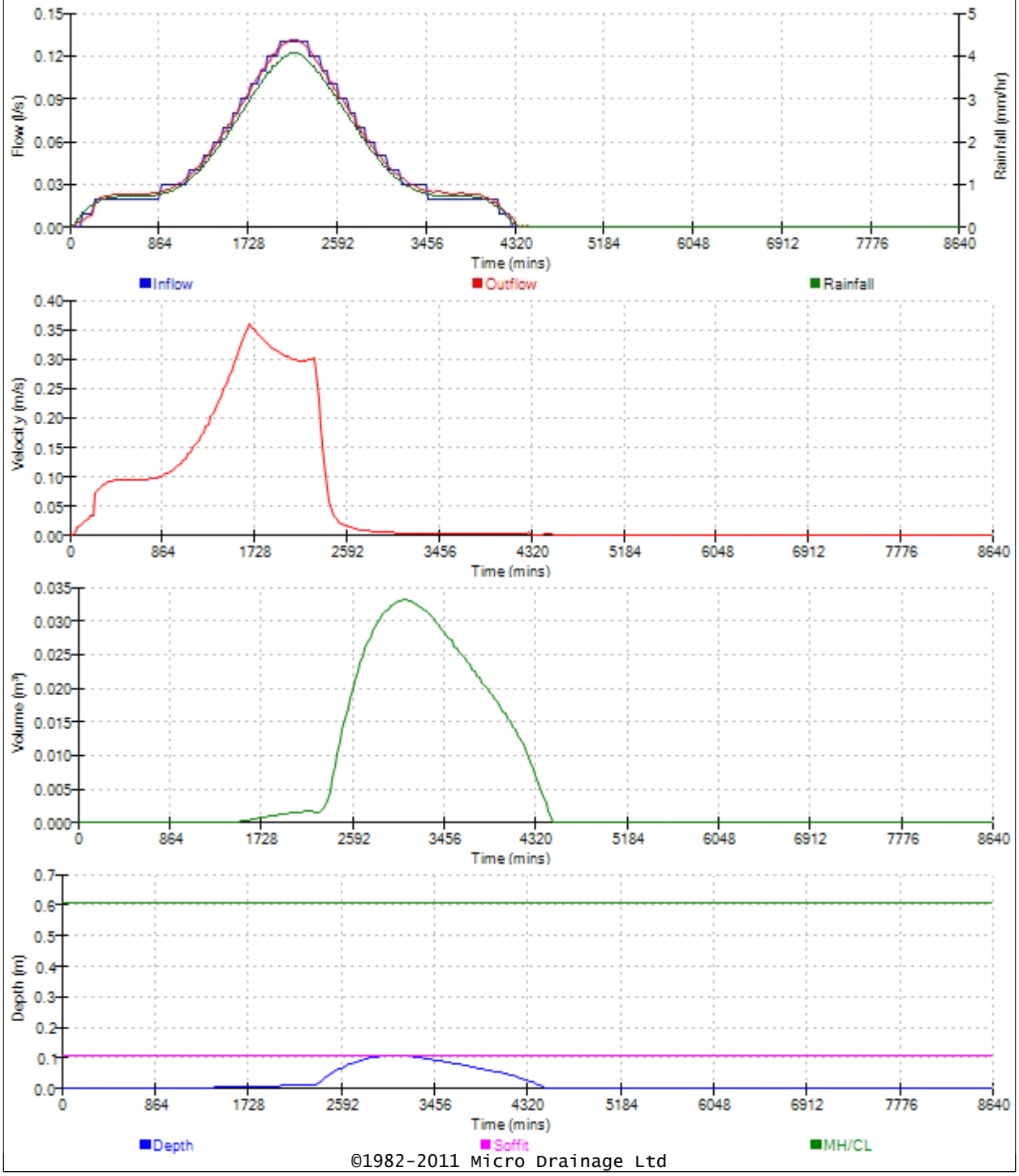
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Status: OK



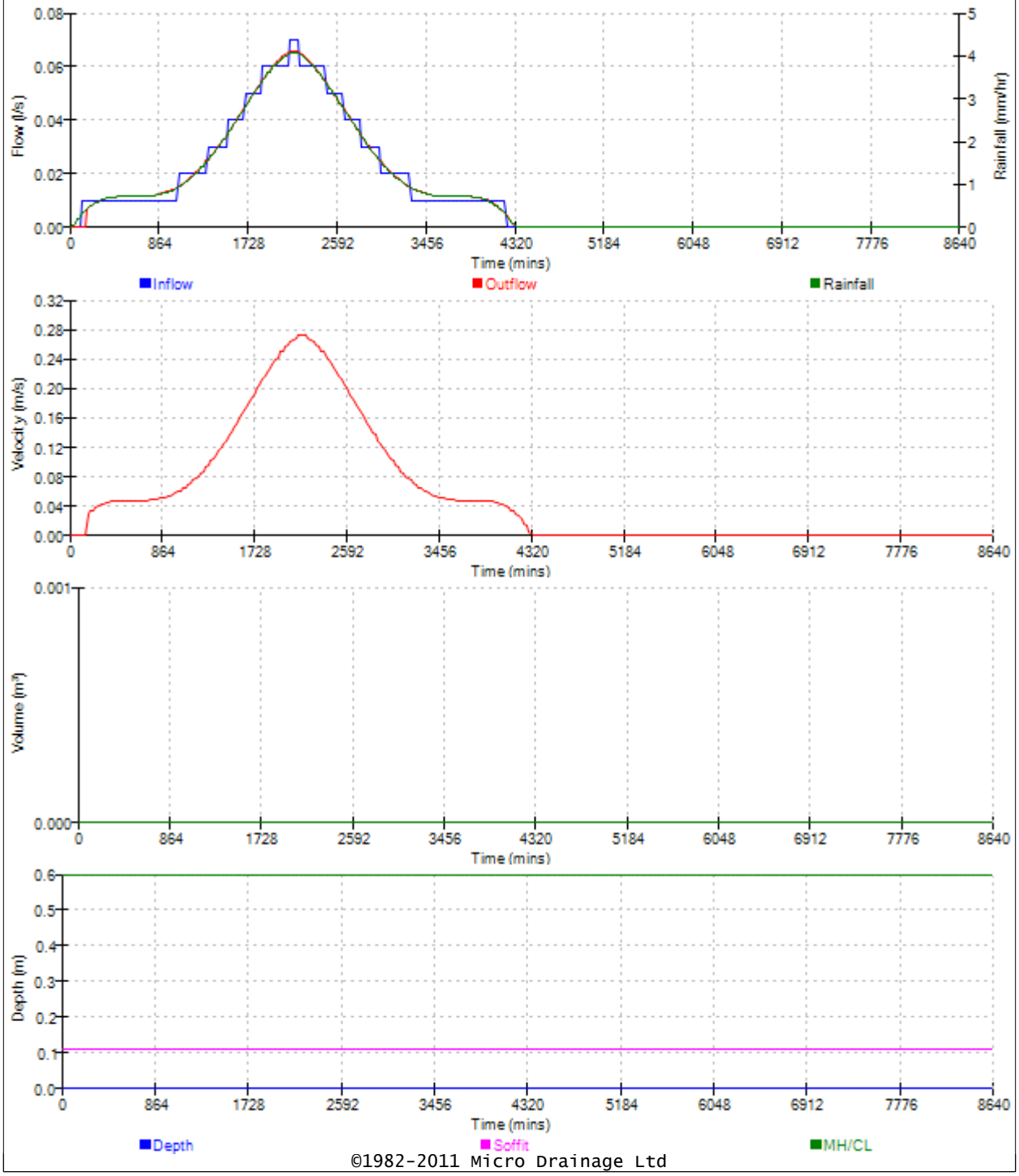
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Graphs for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Status: OK



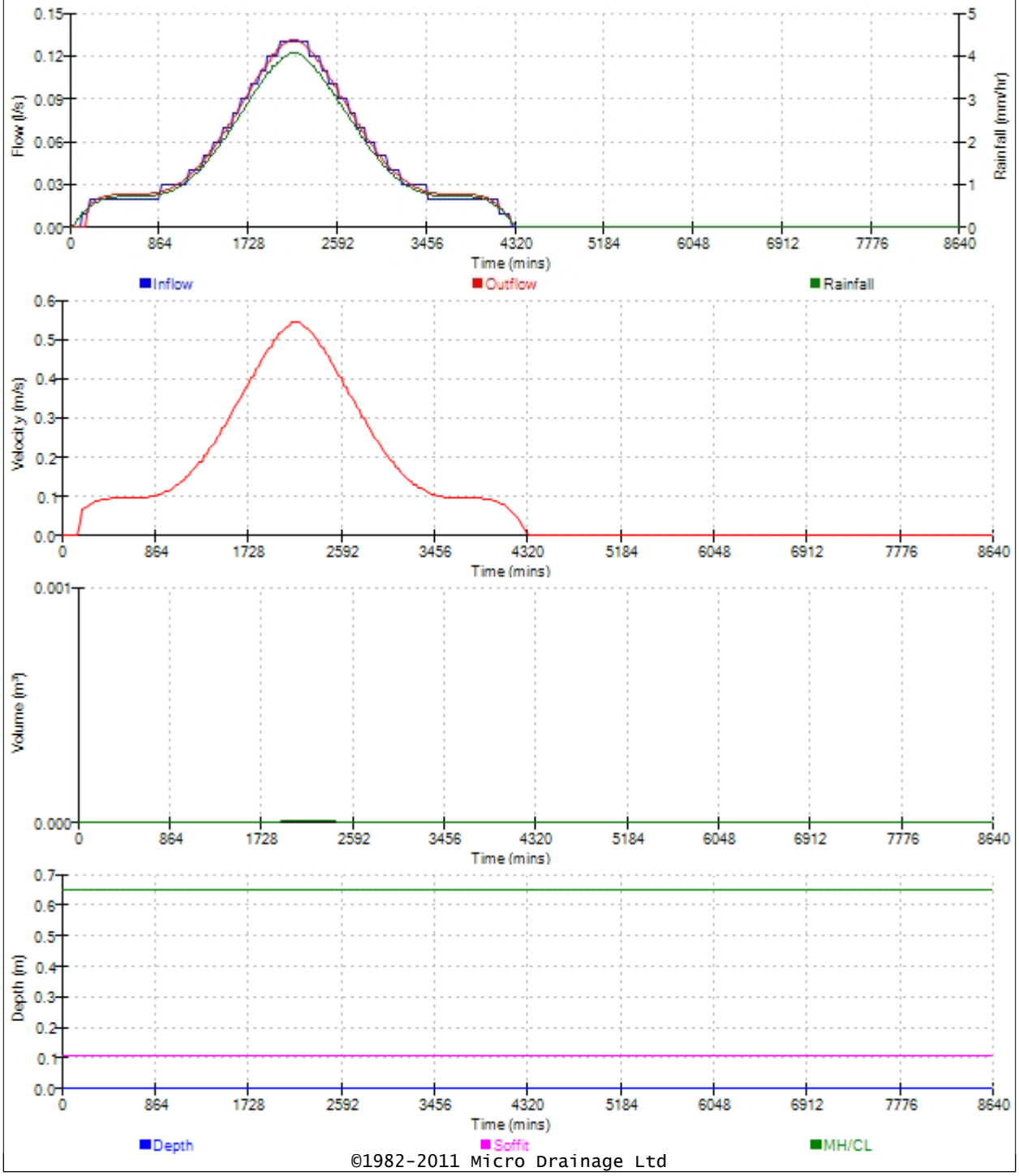
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Status: OK



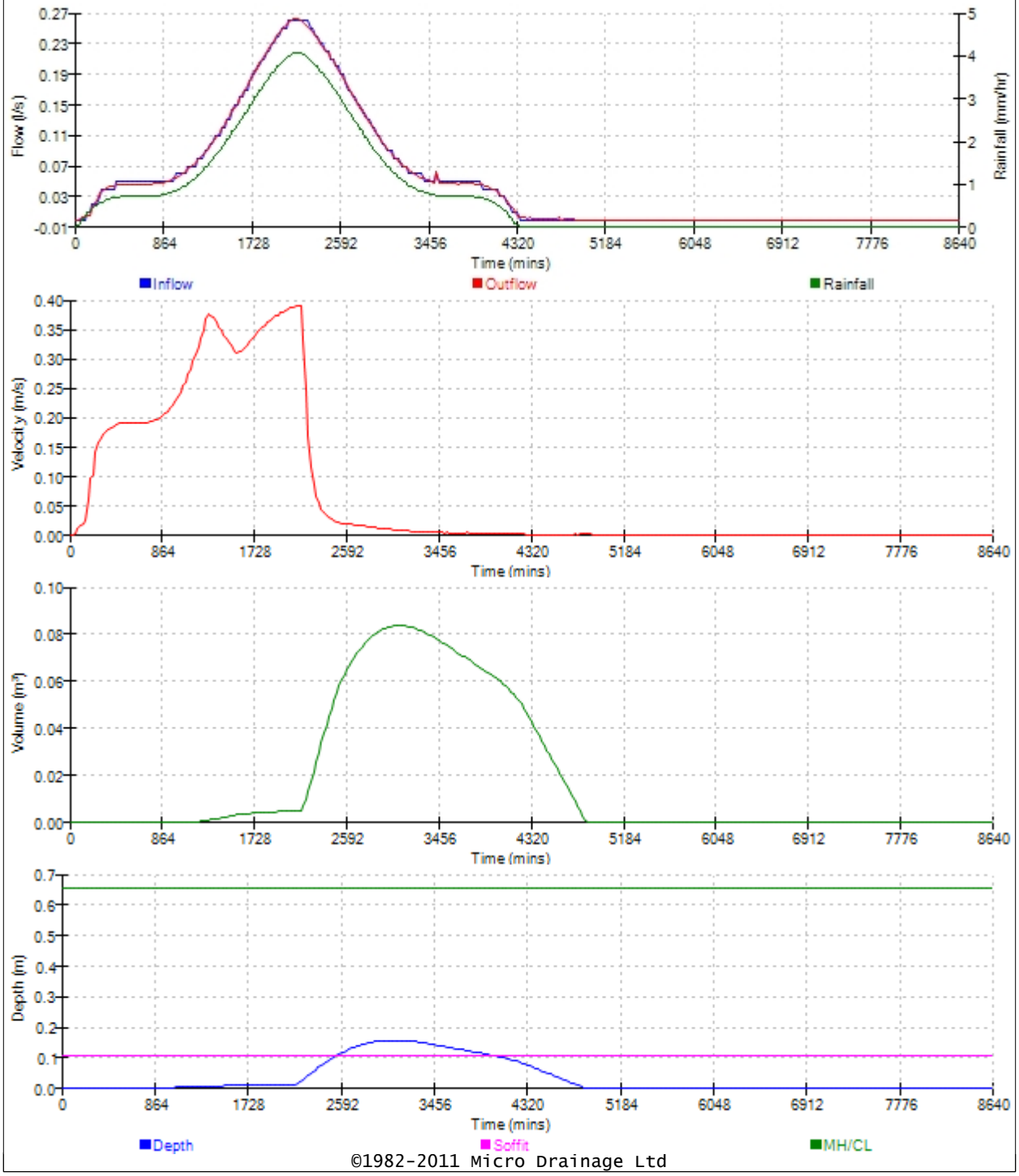
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Graphs for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Status: OK



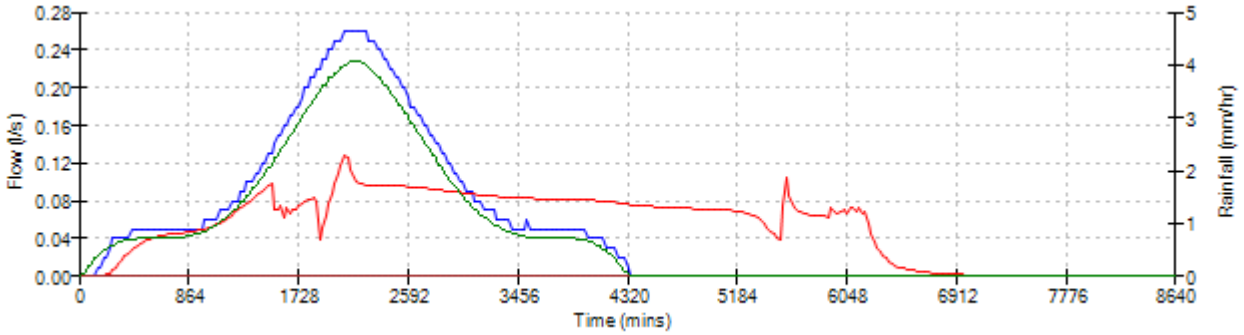
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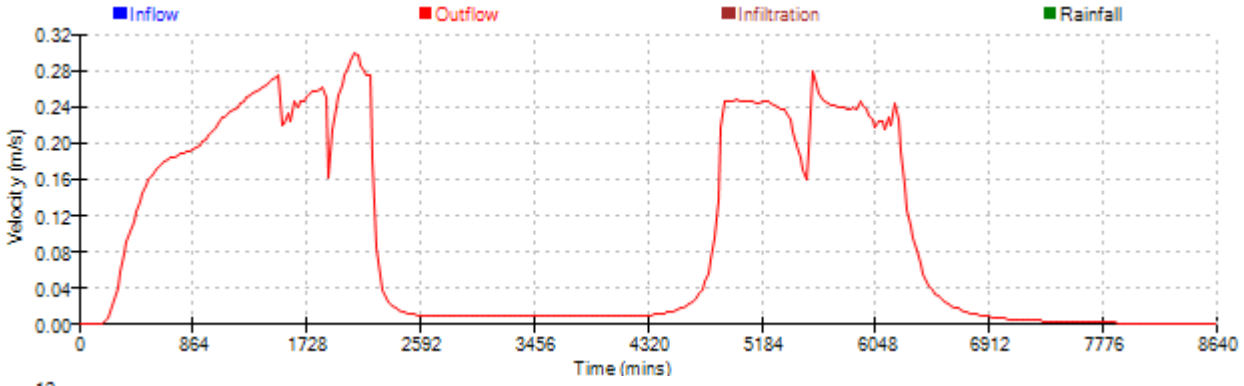
Graphs for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Status: SURCHARGED

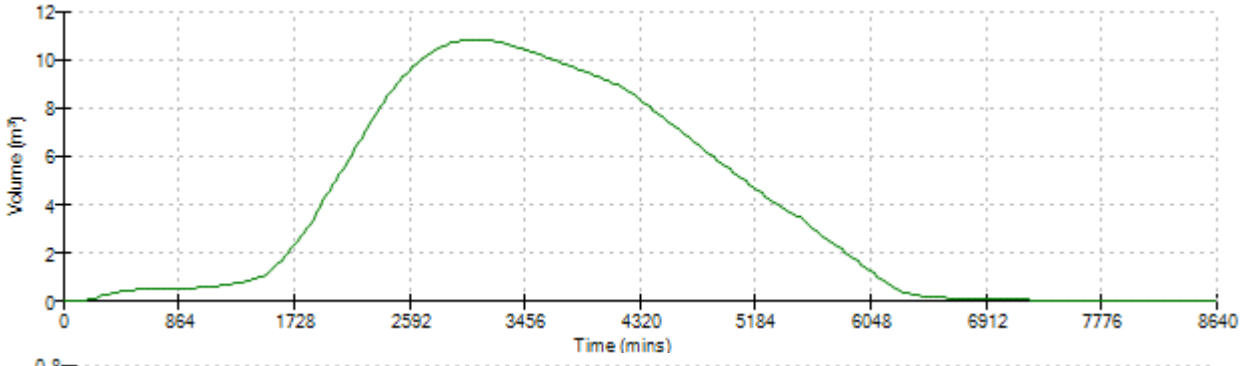


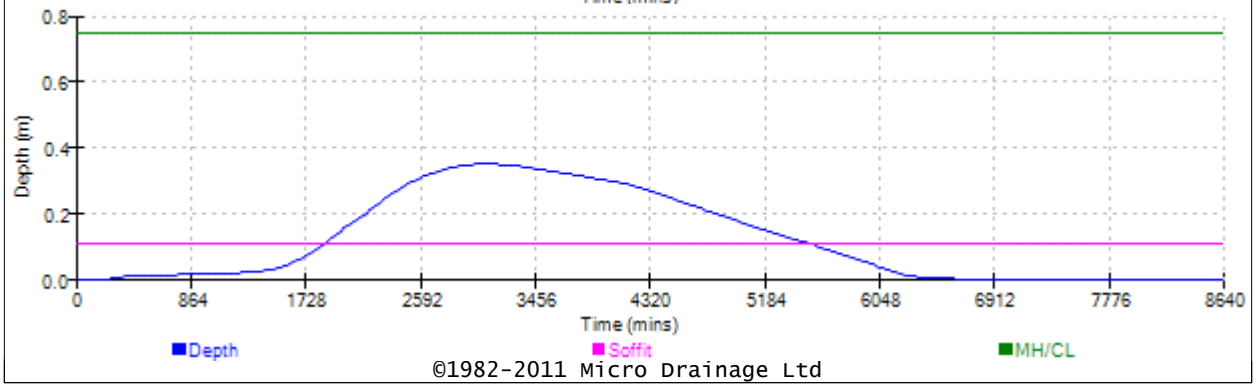
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Graphs for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Status: SURCHARGED



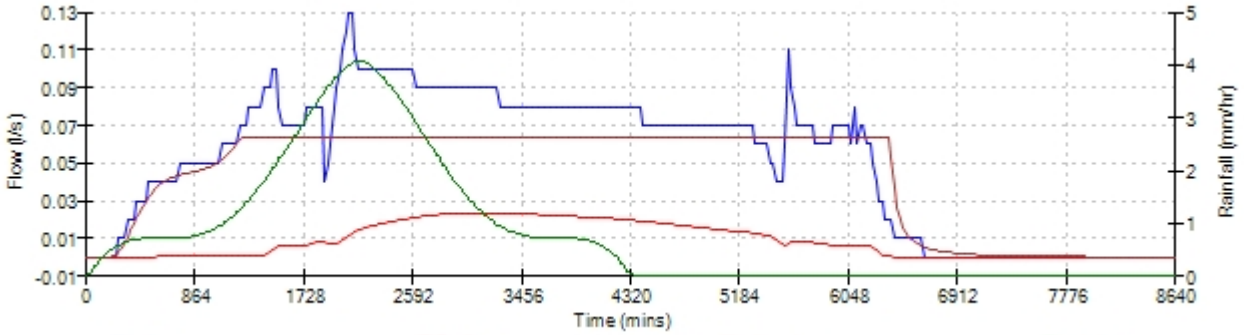


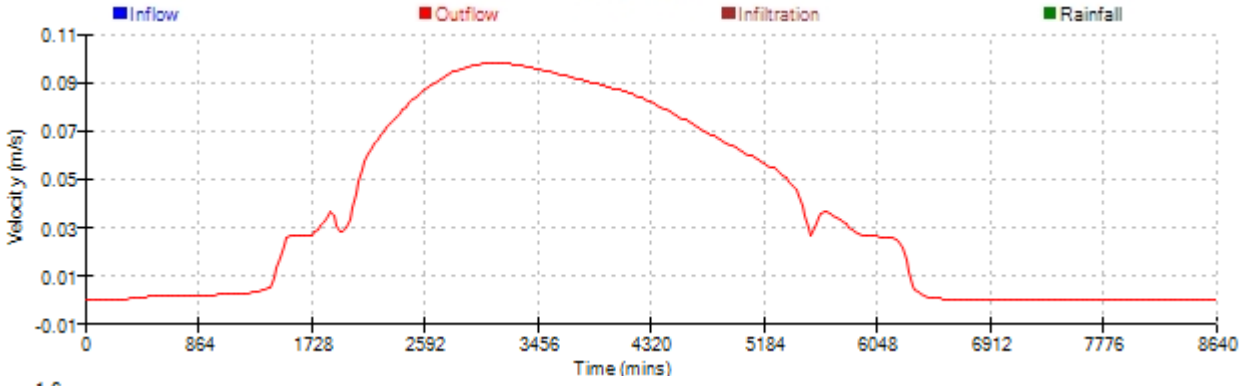


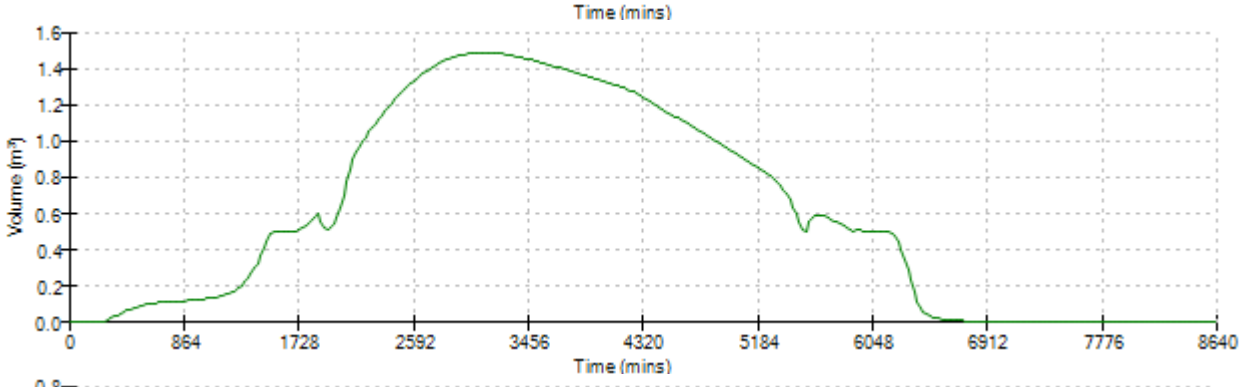


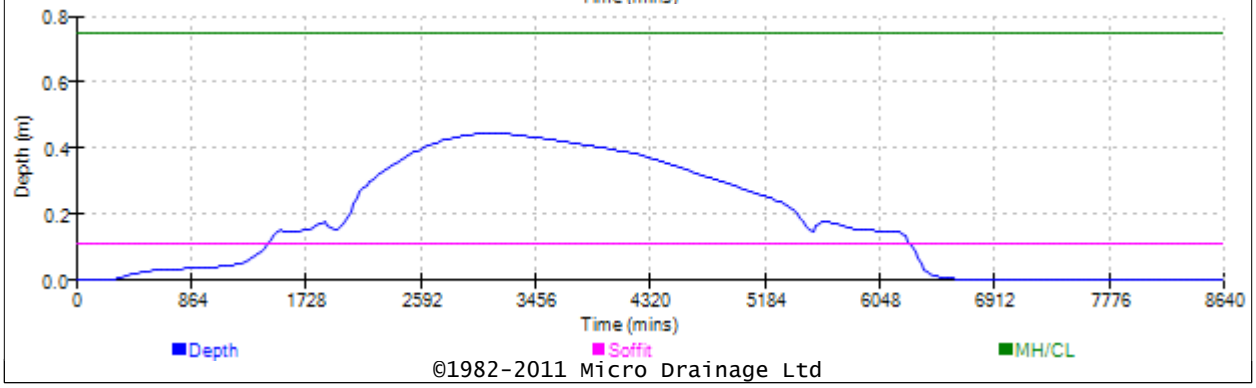
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.494	-0.110	0.0	0.0	0.0
96	65.400	63.494	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.496	-0.110	0.0	0.0	0.0
264	65.400	63.496	-0.110	0.0	0.0	0.0
288	65.400	63.496	-0.110	0.0	0.0	0.0
312	65.400	63.496	-0.110	0.0	0.0	0.0
336	65.400	63.496	-0.110	0.0	0.0	0.0
360	65.400	63.496	-0.110	0.0	0.0	0.0
384	65.400	63.496	-0.110	0.0	0.0	0.0
408	65.400	63.496	-0.110	0.0	0.0	0.0
432	65.400	63.496	-0.110	0.0	0.0	0.0
456	65.400	63.496	-0.110	0.0	0.0	0.0
480	65.400	63.496	-0.110	0.0	0.0	0.0
504	65.400	63.496	-0.110	0.0	0.0	0.0
528	65.400	63.496	-0.110	0.0	0.0	0.0
552	65.400	63.496	-0.110	0.0	0.0	0.0
576	65.400	63.496	-0.110	0.0	0.0	0.0
600	65.400	63.496	-0.110	0.0	0.0	0.0
624	65.400	63.496	-0.110	0.0	0.0	0.0
648	65.400	63.496	-0.110	0.0	0.0	0.0
672	65.400	63.496	-0.110	0.0	0.0	0.0
696	65.400	63.496	-0.110	0.0	0.0	0.0
720	65.400	63.496	-0.110	0.0	0.0	0.0
744	65.400	63.496	-0.110	0.0	0.0	0.0
768	65.400	63.496	-0.110	0.0	0.0	0.0
792	65.400	63.496	-0.110	0.0	0.0	0.0
816	65.400	63.496	-0.110	0.0	0.0	0.0
840	65.400	63.496	-0.110	0.0	0.1	0.0
864	65.400	63.496	-0.110	0.0	0.1	0.0
888	65.400	63.496	-0.110	0.0	0.1	0.0
912	65.400	63.496	-0.110	0.0	0.1	0.0
936	65.400	63.496	-0.110	0.0	0.1	0.0
960	65.400	63.496	-0.110	0.0	0.1	0.0
984	65.400	63.496	-0.110	0.0	0.1	0.0
1008	65.400	63.496	-0.110	0.0	0.1	0.0
1032	65.400	63.496	-0.110	0.0	0.1	0.0
1056	65.400	63.497	-0.110	0.0	0.1	0.0
1080	65.400	63.497	-0.110	0.0	0.1	0.0
1104	65.400	63.497	-0.110	0.0	0.1	0.0
1128	65.400	63.497	-0.110	0.0	0.1	0.0
1152	65.400	63.497	-0.110	0.0	0.1	0.0
1176	65.400	63.497	-0.110	0.0	0.1	0.0
1200	65.400	63.497	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.497	-0.110	0.0	0.1	0.0
1248	65.400	63.497	-0.110	0.0	0.1	0.0
1272	65.400	63.498	-0.110	0.0	0.1	0.0
1296	65.400	63.498	-0.110	0.0	0.1	0.0
1320	65.401	63.498	-0.109	0.0	0.1	0.0
1344	65.401	63.498	-0.109	0.0	0.1	0.0
1368	65.401	63.498	-0.109	0.0	0.1	0.0
1392	65.401	63.498	-0.109	0.0	0.1	0.0
1416	65.401	63.499	-0.109	0.0	0.1	0.0
1440	65.401	63.499	-0.109	0.0	0.1	0.0
1464	65.401	63.499	-0.109	0.0	0.1	0.0
1488	65.401	63.499	-0.109	0.0	0.1	0.0
1512	65.401	63.499	-0.109	0.0	0.1	0.0
1536	65.401	63.500	-0.109	0.0	0.1	0.0
1560	65.401	63.500	-0.109	0.0	0.2	0.0
1584	65.401	63.500	-0.109	0.0	0.2	0.0
1608	65.401	63.500	-0.109	0.0	0.2	0.0
1632	65.401	63.501	-0.109	0.0	0.2	0.0
1656	65.401	63.501	-0.109	0.0	0.2	0.0
1680	65.401	63.501	-0.109	0.0	0.2	0.0
1704	65.401	63.501	-0.109	0.0	0.2	0.0
1728	65.401	63.501	-0.109	0.0	0.2	0.0
1752	65.401	63.502	-0.109	0.0	0.2	0.0
1776	65.401	63.502	-0.109	0.0	0.2	0.0
1800	65.401	63.502	-0.109	0.0	0.2	0.1
1824	65.401	63.502	-0.109	0.0	0.2	0.1
1848	65.401	63.502	-0.109	0.0	0.2	0.1
1872	65.401	63.503	-0.109	0.0	0.2	0.1
1896	65.401	63.503	-0.109	0.0	0.2	0.1
1920	65.401	63.503	-0.109	0.0	0.2	0.1
1944	65.401	63.503	-0.109	0.0	0.2	0.1
1968	65.401	63.503	-0.109	0.0	0.2	0.1
1992	65.401	63.504	-0.109	0.0	0.3	0.1
2016	65.401	63.504	-0.109	0.0	0.3	0.1
2040	65.401	63.504	-0.109	0.0	0.3	0.1
2064	65.401	63.504	-0.109	0.0	0.3	0.1
2088	65.401	63.504	-0.109	0.0	0.3	0.1
2112	65.401	63.504	-0.109	0.0	0.3	0.1
2136	65.401	63.504	-0.109	0.0	0.3	0.1
2160	65.401	63.504	-0.109	0.0	0.3	0.1
2184	65.401	63.504	-0.109	0.0	0.3	0.1
2208	65.401	63.504	-0.109	0.0	0.3	0.1
2232	65.401	63.504	-0.109	0.0	0.3	0.1
2256	65.401	63.504	-0.109	0.0	0.3	0.1
2280	65.401	63.504	-0.109	0.0	0.3	0.1
2304	65.401	63.505	-0.109	0.0	0.3	0.1
2328	65.401	63.506	-0.109	0.0	0.3	0.1
2352	65.401	63.509	-0.109	0.0	0.3	0.1
2376	65.401	63.514	-0.109	0.0	0.2	0.1
2400	65.401	63.520	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	63.526	-0.109	0.0	0.2	0.1
2448	65.401	63.531	-0.109	0.0	0.2	0.1
2472	65.401	63.537	-0.109	0.0	0.2	0.1
2496	65.401	63.542	-0.109	0.0	0.2	0.1
2520	65.401	63.548	-0.109	0.0	0.2	0.1
2544	65.401	63.553	-0.109	0.0	0.2	0.1
2568	65.401	63.557	-0.109	0.0	0.2	0.0
2592	65.401	63.561	-0.109	0.0	0.2	0.0
2616	65.401	63.566	-0.109	0.0	0.2	0.0
2640	65.401	63.570	-0.109	0.0	0.2	0.0
2664	65.401	63.573	-0.109	0.0	0.2	0.0
2688	65.401	63.577	-0.109	0.0	0.2	0.0
2712	65.401	63.580	-0.109	0.0	0.2	0.0
2736	65.401	63.583	-0.109	0.0	0.2	0.0
2760	65.401	63.586	-0.109	0.0	0.2	0.0
2784	65.401	63.589	-0.109	0.0	0.2	0.0
2808	65.401	63.591	-0.109	0.0	0.1	0.0
2832	65.401	63.593	-0.109	0.0	0.1	0.0
2856	65.401	63.595	-0.109	0.0	0.1	0.0
2880	65.401	63.596	-0.109	0.0	0.1	0.0
2904	65.401	63.598	-0.109	0.0	0.1	0.0
2928	65.401	63.599	-0.109	0.0	0.1	0.0
2952	65.401	63.600	-0.109	0.0	0.1	0.0
2976	65.401	63.601	-0.109	0.0	0.1	0.0
3000	65.401	63.602	-0.109	0.0	0.1	0.0
3024	65.401	63.602	-0.109	0.0	0.1	0.0
3048	65.400	63.602	-0.110	0.0	0.1	0.0
3072	65.400	63.603	-0.110	0.0	0.1	0.0
3096	65.400	63.603	-0.110	0.0	0.1	0.0
3120	65.400	63.602	-0.110	0.0	0.1	0.0
3144	65.400	63.602	-0.110	0.0	0.1	0.0
3168	65.400	63.602	-0.110	0.0	0.1	0.0
3192	65.400	63.601	-0.110	0.0	0.1	0.0
3216	65.400	63.600	-0.110	0.0	0.1	0.0
3240	65.400	63.600	-0.110	0.0	0.1	0.0
3264	65.400	63.599	-0.110	0.0	0.1	0.0
3288	65.400	63.598	-0.110	0.0	0.1	0.0
3312	65.400	63.597	-0.110	0.0	0.1	0.0
3336	65.400	63.595	-0.110	0.0	0.1	0.0
3360	65.400	63.594	-0.110	0.0	0.1	0.0
3384	65.400	63.593	-0.110	0.0	0.1	0.0
3408	65.400	63.591	-0.110	0.0	0.1	0.0
3432	65.400	63.590	-0.110	0.0	0.1	0.0
3456	65.400	63.588	-0.110	0.0	0.1	0.0
3480	65.400	63.586	-0.110	0.0	0.1	0.0
3504	65.400	63.585	-0.110	0.0	0.1	0.0
3528	65.400	63.584	-0.110	0.0	0.0	0.0
3552	65.400	63.582	-0.110	0.0	0.0	0.0
3576	65.400	63.581	-0.110	0.0	0.0	0.0
3600	65.400	63.579	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.577	-0.110	0.0	0.0	0.0
3648	65.400	63.576	-0.110	0.0	0.0	0.0
3672	65.400	63.574	-0.110	0.0	0.0	0.0
3696	65.400	63.573	-0.110	0.0	0.0	0.0
3720	65.400	63.571	-0.110	0.0	0.0	0.0
3744	65.400	63.570	-0.110	0.0	0.0	0.0
3768	65.400	63.568	-0.110	0.0	0.0	0.0
3792	65.400	63.567	-0.110	0.0	0.0	0.0
3816	65.400	63.565	-0.110	0.0	0.0	0.0
3840	65.400	63.563	-0.110	0.0	0.0	0.0
3864	65.400	63.562	-0.110	0.0	0.0	0.0
3888	65.400	63.560	-0.110	0.0	0.0	0.0
3912	65.400	63.558	-0.110	0.0	0.0	0.0
3936	65.400	63.557	-0.110	0.0	0.0	0.0
3960	65.400	63.555	-0.110	0.0	0.0	0.0
3984	65.400	63.554	-0.110	0.0	0.0	0.0
4008	65.400	63.551	-0.110	0.0	0.0	0.0
4032	65.400	63.550	-0.110	0.0	0.0	0.0
4056	65.400	63.548	-0.110	0.0	0.0	0.0
4080	65.400	63.546	-0.110	0.0	0.0	0.0
4104	65.400	63.544	-0.110	0.0	0.0	0.0
4128	65.400	63.542	-0.110	0.0	0.0	0.0
4152	65.400	63.540	-0.110	0.0	0.0	0.0
4176	65.400	63.538	-0.110	0.0	0.0	0.0
4200	65.400	63.536	-0.110	0.0	0.0	0.0
4224	65.400	63.533	-0.110	0.0	0.0	0.0
4248	65.400	63.530	-0.110	0.0	0.0	0.0
4272	65.400	63.527	-0.110	0.0	0.0	0.0
4296	65.400	63.524	-0.110	0.0	0.0	0.0
4320	65.400	63.521	-0.110	0.0	0.0	0.0
4344	65.400	63.518	-0.110	0.0	0.0	0.0
4368	65.400	63.515	-0.110	0.0	0.0	0.0
4392	65.400	63.511	-0.110	0.0	0.0	0.0
4416	65.400	63.508	-0.110	0.0	0.0	0.0
4440	65.400	63.505	-0.110	0.0	0.0	0.0
4464	65.400	63.502	-0.110	0.0	0.0	0.0
4488	65.400	63.498	-0.110	0.0	0.0	0.0
4512	65.400	63.495	-0.110	0.0	0.0	0.0
4536	65.400	63.494	-0.110	0.0	0.0	0.0
4560	65.400	63.494	-0.110	0.0	0.0	0.0
4584	65.400	63.494	-0.110	0.0	0.0	0.0
4608	65.400	63.494	-0.110	0.0	0.0	0.0
4632	65.400	63.494	-0.110	0.0	0.0	0.0
4656	65.400	63.494	-0.110	0.0	0.0	0.0
4680	65.400	63.494	-0.110	0.0	0.0	0.0
4704	65.400	63.494	-0.110	0.0	0.0	0.0
4728	65.400	63.494	-0.110	0.0	0.0	0.0
4752	65.400	63.494	-0.110	0.0	0.0	0.0
4776	65.400	63.494	-0.110	0.0	0.0	0.0
4800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.494	-0.110	0.0	0.0	0.0
4848	65.400	63.494	-0.110	0.0	0.0	0.0
4872	65.400	63.494	-0.110	0.0	0.0	0.0
4896	65.400	63.494	-0.110	0.0	0.0	0.0
4920	65.400	63.494	-0.110	0.0	0.0	0.0
4944	65.400	63.494	-0.110	0.0	0.0	0.0
4968	65.400	63.494	-0.110	0.0	0.0	0.0
4992	65.400	63.494	-0.110	0.0	0.0	0.0
5016	65.400	63.494	-0.110	0.0	0.0	0.0
5040	65.400	63.494	-0.110	0.0	0.0	0.0
5064	65.400	63.494	-0.110	0.0	0.0	0.0
5088	65.400	63.494	-0.110	0.0	0.0	0.0
5112	65.400	63.494	-0.110	0.0	0.0	0.0
5136	65.400	63.494	-0.110	0.0	0.0	0.0
5160	65.400	63.494	-0.110	0.0	0.0	0.0
5184	65.400	63.494	-0.110	0.0	0.0	0.0
5208	65.400	63.494	-0.110	0.0	0.0	0.0
5232	65.400	63.494	-0.110	0.0	0.0	0.0
5256	65.400	63.494	-0.110	0.0	0.0	0.0
5280	65.400	63.494	-0.110	0.0	0.0	0.0
5304	65.400	63.494	-0.110	0.0	0.0	0.0
5328	65.400	63.494	-0.110	0.0	0.0	0.0
5352	65.400	63.494	-0.110	0.0	0.0	0.0
5376	65.400	63.494	-0.110	0.0	0.0	0.0
5400	65.400	63.494	-0.110	0.0	0.0	0.0
5424	65.400	63.494	-0.110	0.0	0.0	0.0
5448	65.400	63.494	-0.110	0.0	0.0	0.0
5472	65.400	63.494	-0.110	0.0	0.0	0.0
5496	65.400	63.494	-0.110	0.0	0.0	0.0
5520	65.400	63.494	-0.110	0.0	0.0	0.0
5544	65.400	63.494	-0.110	0.0	0.0	0.0
5568	65.400	63.494	-0.110	0.0	0.0	0.0
5592	65.400	63.494	-0.110	0.0	0.0	0.0
5616	65.400	63.494	-0.110	0.0	0.0	0.0
5640	65.400	63.494	-0.110	0.0	0.0	0.0
5664	65.400	63.494	-0.110	0.0	0.0	0.0
5688	65.400	63.494	-0.110	0.0	0.0	0.0
5712	65.400	63.494	-0.110	0.0	0.0	0.0
5736	65.400	63.494	-0.110	0.0	0.0	0.0
5760	65.400	63.494	-0.110	0.0	0.0	0.0
5784	65.400	63.494	-0.110	0.0	0.0	0.0
5808	65.400	63.494	-0.110	0.0	0.0	0.0
5832	65.400	63.494	-0.110	0.0	0.0	0.0
5856	65.400	63.494	-0.110	0.0	0.0	0.0
5880	65.400	63.494	-0.110	0.0	0.0	0.0
5904	65.400	63.494	-0.110	0.0	0.0	0.0
5928	65.400	63.494	-0.110	0.0	0.0	0.0
5952	65.400	63.494	-0.110	0.0	0.0	0.0
5976	65.400	63.494	-0.110	0.0	0.0	0.0
6000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.494	-0.110	0.0	0.0	0.0
6048	65.400	63.494	-0.110	0.0	0.0	0.0
6072	65.400	63.494	-0.110	0.0	0.0	0.0
6096	65.400	63.494	-0.110	0.0	0.0	0.0
6120	65.400	63.494	-0.110	0.0	0.0	0.0
6144	65.400	63.494	-0.110	0.0	0.0	0.0
6168	65.400	63.494	-0.110	0.0	0.0	0.0
6192	65.400	63.494	-0.110	0.0	0.0	0.0
6216	65.400	63.494	-0.110	0.0	0.0	0.0
6240	65.400	63.494	-0.110	0.0	0.0	0.0
6264	65.400	63.494	-0.110	0.0	0.0	0.0
6288	65.400	63.494	-0.110	0.0	0.0	0.0
6312	65.400	63.494	-0.110	0.0	0.0	0.0
6336	65.400	63.494	-0.110	0.0	0.0	0.0
6360	65.400	63.494	-0.110	0.0	0.0	0.0
6384	65.400	63.494	-0.110	0.0	0.0	0.0
6408	65.400	63.494	-0.110	0.0	0.0	0.0
6432	65.400	63.494	-0.110	0.0	0.0	0.0
6456	65.400	63.494	-0.110	0.0	0.0	0.0
6480	65.400	63.494	-0.110	0.0	0.0	0.0
6504	65.400	63.494	-0.110	0.0	0.0	0.0
6528	65.400	63.494	-0.110	0.0	0.0	0.0
6552	65.400	63.494	-0.110	0.0	0.0	0.0
6576	65.400	63.494	-0.110	0.0	0.0	0.0
6600	65.400	63.494	-0.110	0.0	0.0	0.0
6624	65.400	63.494	-0.110	0.0	0.0	0.0
6648	65.400	63.494	-0.110	0.0	0.0	0.0
6672	65.400	63.494	-0.110	0.0	0.0	0.0
6696	65.400	63.494	-0.110	0.0	0.0	0.0
6720	65.400	63.494	-0.110	0.0	0.0	0.0
6744	65.400	63.494	-0.110	0.0	0.0	0.0
6768	65.400	63.494	-0.110	0.0	0.0	0.0
6792	65.400	63.494	-0.110	0.0	0.0	0.0
6816	65.400	63.494	-0.110	0.0	0.0	0.0
6840	65.400	63.494	-0.110	0.0	0.0	0.0
6864	65.400	63.494	-0.110	0.0	0.0	0.0
6888	65.400	63.494	-0.110	0.0	0.0	0.0
6912	65.400	63.494	-0.110	0.0	0.0	0.0
6936	65.400	63.494	-0.110	0.0	0.0	0.0
6960	65.400	63.494	-0.110	0.0	0.0	0.0
6984	65.400	63.494	-0.110	0.0	0.0	0.0
7008	65.400	63.494	-0.110	0.0	0.0	0.0
7032	65.400	63.494	-0.110	0.0	0.0	0.0
7056	65.400	63.494	-0.110	0.0	0.0	0.0
7080	65.400	63.494	-0.110	0.0	0.0	0.0
7104	65.400	63.494	-0.110	0.0	0.0	0.0
7128	65.400	63.494	-0.110	0.0	0.0	0.0
7152	65.400	63.494	-0.110	0.0	0.0	0.0
7176	65.400	63.494	-0.110	0.0	0.0	0.0
7200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
72	63.494	63.444	-0.110	0.0	0.0	0.0
96	63.494	63.444	-0.110	0.0	0.0	0.0
120	63.495	63.445	-0.110	0.0	0.0	0.0
144	63.495	63.445	-0.110	0.0	0.0	0.0
168	63.495	63.446	-0.109	0.0	0.0	0.0
192	63.495	63.446	-0.109	0.0	0.0	0.0
216	63.495	63.446	-0.109	0.0	0.0	0.0
240	63.496	63.447	-0.108	0.0	0.1	0.0
264	63.496	63.447	-0.109	0.0	0.1	0.0
288	63.496	63.447	-0.108	0.0	0.1	0.0
312	63.496	63.447	-0.108	0.0	0.1	0.0
336	63.496	63.447	-0.108	0.0	0.1	0.0
360	63.496	63.447	-0.108	0.0	0.1	0.0
384	63.496	63.447	-0.108	0.0	0.1	0.0
408	63.496	63.447	-0.108	0.0	0.1	0.0
432	63.496	63.447	-0.108	0.0	0.1	0.0
456	63.496	63.447	-0.108	0.0	0.1	0.0
480	63.496	63.447	-0.108	0.0	0.1	0.0
504	63.496	63.448	-0.108	0.0	0.1	0.0
528	63.496	63.448	-0.108	0.0	0.1	0.0
552	63.496	63.448	-0.108	0.0	0.1	0.0
576	63.496	63.447	-0.108	0.0	0.1	0.0
600	63.496	63.447	-0.108	0.0	0.1	0.0
624	63.496	63.447	-0.108	0.0	0.1	0.0
648	63.496	63.447	-0.108	0.0	0.1	0.0
672	63.496	63.447	-0.108	0.0	0.1	0.0
696	63.496	63.447	-0.108	0.0	0.1	0.0
720	63.496	63.448	-0.108	0.0	0.1	0.0
744	63.496	63.448	-0.108	0.0	0.1	0.0
768	63.496	63.448	-0.108	0.0	0.1	0.0
792	63.496	63.448	-0.108	0.0	0.1	0.0
816	63.496	63.448	-0.108	0.0	0.1	0.0
840	63.496	63.448	-0.108	0.0	0.1	0.0
864	63.496	63.448	-0.108	0.0	0.1	0.0
888	63.496	63.448	-0.108	0.0	0.1	0.0
912	63.496	63.448	-0.108	0.0	0.1	0.0
936	63.496	63.448	-0.108	0.0	0.1	0.0
960	63.496	63.448	-0.108	0.0	0.1	0.0
984	63.496	63.448	-0.108	0.0	0.1	0.0
1008	63.496	63.448	-0.108	0.0	0.1	0.0
1032	63.496	63.448	-0.108	0.0	0.1	0.0
1056	63.497	63.449	-0.108	0.0	0.1	0.0
1080	63.497	63.449	-0.108	0.0	0.1	0.0
1104	63.497	63.449	-0.107	0.0	0.1	0.0
1128	63.497	63.449	-0.107	0.0	0.1	0.0
1152	63.497	63.449	-0.107	0.0	0.1	0.0
1176	63.497	63.450	-0.107	0.0	0.2	0.0
1200	63.497	63.450	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.497	63.450	-0.107	0.0	0.2	0.0
1248	63.497	63.450	-0.107	0.0	0.2	0.0
1272	63.498	63.451	-0.106	0.0	0.2	0.0
1296	63.498	63.451	-0.106	0.0	0.2	0.0
1320	63.498	63.451	-0.106	0.0	0.2	0.0
1344	63.498	63.451	-0.106	0.0	0.2	0.1
1368	63.498	63.452	-0.106	0.0	0.2	0.1
1392	63.498	63.452	-0.106	0.0	0.2	0.1
1416	63.499	63.453	-0.105	0.0	0.2	0.1
1440	63.499	63.453	-0.105	0.0	0.3	0.1
1464	63.499	63.453	-0.105	0.0	0.3	0.1
1488	63.499	63.454	-0.105	0.0	0.3	0.1
1512	63.499	63.454	-0.105	0.0	0.3	0.1
1536	63.500	63.455	-0.104	0.0	0.3	0.1
1560	63.500	63.455	-0.104	0.0	0.3	0.1
1584	63.500	63.455	-0.104	0.0	0.3	0.1
1608	63.500	63.455	-0.104	0.0	0.3	0.1
1632	63.501	63.455	-0.104	0.0	0.3	0.1
1656	63.501	63.456	-0.103	0.0	0.4	0.1
1680	63.501	63.456	-0.103	0.0	0.4	0.1
1704	63.501	63.456	-0.103	0.0	0.4	0.1
1728	63.501	63.456	-0.103	0.0	0.4	0.1
1752	63.502	63.456	-0.102	0.0	0.3	0.1
1776	63.502	63.456	-0.102	0.0	0.3	0.1
1800	63.502	63.456	-0.102	0.0	0.3	0.1
1824	63.502	63.456	-0.102	0.0	0.3	0.1
1848	63.502	63.457	-0.102	0.0	0.3	0.1
1872	63.503	63.457	-0.101	0.0	0.3	0.1
1896	63.503	63.457	-0.101	0.0	0.3	0.1
1920	63.503	63.457	-0.101	0.0	0.3	0.1
1944	63.503	63.457	-0.101	0.0	0.3	0.1
1968	63.503	63.457	-0.101	0.0	0.3	0.1
1992	63.504	63.457	-0.101	0.0	0.3	0.1
2016	63.504	63.457	-0.100	0.0	0.3	0.1
2040	63.504	63.457	-0.100	0.0	0.3	0.1
2064	63.504	63.457	-0.100	0.0	0.3	0.1
2088	63.504	63.458	-0.100	0.0	0.3	0.1
2112	63.504	63.458	-0.100	0.0	0.3	0.1
2136	63.504	63.458	-0.100	0.0	0.3	0.1
2160	63.504	63.458	-0.100	0.0	0.3	0.1
2184	63.504	63.461	-0.100	0.0	0.3	0.1
2208	63.504	63.465	-0.100	0.0	0.3	0.1
2232	63.504	63.471	-0.100	0.0	0.3	0.1
2256	63.504	63.479	-0.100	0.0	0.3	0.1
2280	63.504	63.486	-0.100	0.0	0.3	0.1
2304	63.505	63.493	-0.099	0.0	0.3	0.1
2328	63.506	63.500	-0.098	0.0	0.2	0.1
2352	63.509	63.506	-0.095	0.0	0.2	0.1
2376	63.514	63.513	-0.090	0.0	0.1	0.1
2400	63.520	63.519	-0.085	0.0	0.1	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.526	63.525	-0.078	0.0	0.1	0.1
2448	63.531	63.531	-0.073	0.0	0.0	0.1
2472	63.537	63.537	-0.067	0.0	0.0	0.1
2496	63.542	63.542	-0.062	0.0	0.0	0.1
2520	63.548	63.547	-0.056	0.0	0.0	0.1
2544	63.553	63.552	-0.052	0.0	0.0	0.1
2568	63.557	63.557	-0.047	0.0	0.0	0.1
2592	63.561	63.561	-0.043	0.0	0.0	0.1
2616	63.566	63.565	-0.038	0.0	0.0	0.1
2640	63.570	63.569	-0.034	0.0	0.0	0.1
2664	63.573	63.573	-0.031	0.0	0.0	0.1
2688	63.577	63.577	-0.027	0.0	0.0	0.1
2712	63.580	63.580	-0.024	0.0	0.0	0.1
2736	63.583	63.583	-0.021	0.0	0.0	0.1
2760	63.586	63.586	-0.018	0.0	0.0	0.1
2784	63.589	63.588	-0.016	0.0	0.0	0.1
2808	63.591	63.591	-0.013	0.0	0.0	0.1
2832	63.593	63.593	-0.011	0.0	0.0	0.1
2856	63.595	63.594	-0.010	0.0	0.0	0.1
2880	63.596	63.596	-0.008	0.0	0.0	0.1
2904	63.598	63.597	-0.006	0.0	0.0	0.1
2928	63.599	63.599	-0.005	0.0	0.0	0.1
2952	63.600	63.600	-0.004	0.0	0.0	0.1
2976	63.601	63.601	-0.003	0.0	0.0	0.1
3000	63.602	63.601	-0.003	0.0	0.0	0.1
3024	63.602	63.602	-0.002	0.0	0.0	0.0
3048	63.602	63.602	-0.002	0.0	0.0	0.0
3072	63.603	63.602	-0.002	0.0	0.0	0.0
3096	63.603	63.602	-0.002	0.0	0.0	0.0
3120	63.602	63.602	-0.002	0.0	0.0	0.0
3144	63.602	63.602	-0.002	0.0	0.0	0.0
3168	63.602	63.601	-0.003	0.0	0.0	0.0
3192	63.601	63.601	-0.003	0.0	0.0	0.0
3216	63.600	63.600	-0.004	0.0	0.0	0.0
3240	63.600	63.599	-0.005	0.0	0.0	0.0
3264	63.599	63.598	-0.006	0.0	0.0	0.0
3288	63.598	63.597	-0.007	0.0	0.0	0.0
3312	63.597	63.596	-0.008	0.0	0.0	0.0
3336	63.595	63.595	-0.009	0.0	0.0	0.0
3360	63.594	63.594	-0.010	0.0	0.0	0.0
3384	63.593	63.593	-0.011	0.0	0.0	0.0
3408	63.591	63.591	-0.013	0.0	0.0	0.0
3432	63.590	63.590	-0.014	0.0	0.0	0.0
3456	63.588	63.588	-0.016	0.0	0.0	0.0
3480	63.586	63.586	-0.018	0.0	0.0	0.0
3504	63.585	63.585	-0.019	0.0	0.0	0.0
3528	63.584	63.584	-0.020	0.0	0.0	0.0
3552	63.582	63.583	-0.022	0.0	0.0	0.0
3576	63.581	63.581	-0.024	0.0	0.0	0.0
3600	63.579	63.579	-0.025	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.577	63.577	-0.027	0.0	0.0	0.0
3648	63.576	63.576	-0.028	0.0	0.0	0.0
3672	63.574	63.574	-0.030	0.0	0.0	0.0
3696	63.573	63.573	-0.031	0.0	0.0	0.0
3720	63.571	63.571	-0.033	0.0	0.0	0.0
3744	63.570	63.570	-0.034	0.0	0.0	0.0
3768	63.568	63.568	-0.036	0.0	0.0	0.0
3792	63.567	63.566	-0.038	0.0	0.0	0.0
3816	63.565	63.565	-0.039	0.0	0.0	0.0
3840	63.563	63.563	-0.041	0.0	0.0	0.0
3864	63.562	63.562	-0.042	0.0	0.0	0.0
3888	63.560	63.560	-0.044	0.0	0.0	0.0
3912	63.558	63.558	-0.046	0.0	0.0	0.0
3936	63.557	63.557	-0.047	0.0	0.0	0.0
3960	63.555	63.555	-0.049	0.0	0.0	0.0
3984	63.554	63.554	-0.050	0.0	0.0	0.0
4008	63.551	63.552	-0.053	0.0	0.0	0.0
4032	63.550	63.550	-0.054	0.0	0.0	0.0
4056	63.548	63.548	-0.056	0.0	0.0	0.0
4080	63.546	63.547	-0.058	0.0	0.0	0.0
4104	63.544	63.545	-0.060	0.0	0.0	0.0
4128	63.542	63.543	-0.062	0.0	0.0	0.0
4152	63.540	63.541	-0.064	0.0	0.0	0.0
4176	63.538	63.538	-0.066	0.0	0.0	0.0
4200	63.536	63.536	-0.068	0.0	0.0	0.0
4224	63.533	63.534	-0.071	0.0	0.0	0.0
4248	63.530	63.531	-0.074	0.0	0.0	0.0
4272	63.527	63.528	-0.077	0.0	0.0	0.0
4296	63.524	63.525	-0.080	0.0	0.0	0.0
4320	63.521	63.521	-0.083	0.0	0.0	0.0
4344	63.518	63.518	-0.086	0.0	0.0	0.0
4368	63.515	63.514	-0.089	0.0	0.0	0.0
4392	63.511	63.511	-0.093	0.0	0.0	0.0
4416	63.508	63.508	-0.096	0.0	0.0	0.0
4440	63.505	63.504	-0.099	0.0	0.0	0.0
4464	63.502	63.501	-0.102	0.0	0.0	0.0
4488	63.498	63.498	-0.106	0.0	0.0	0.0
4512	63.495	63.494	-0.110	0.0	0.0	0.0
4536	63.494	63.491	-0.110	0.0	0.0	0.0
4560	63.494	63.488	-0.110	0.0	0.0	0.0
4584	63.494	63.485	-0.110	0.0	0.0	0.0
4608	63.494	63.481	-0.110	0.0	0.0	0.0
4632	63.494	63.478	-0.110	0.0	0.0	0.0
4656	63.494	63.475	-0.110	0.0	0.0	0.0
4680	63.494	63.471	-0.110	0.0	0.0	0.0
4704	63.494	63.468	-0.110	0.0	0.0	0.0
4728	63.494	63.464	-0.110	0.0	0.0	0.0
4752	63.494	63.461	-0.110	0.0	0.0	0.0
4776	63.494	63.458	-0.110	0.0	0.0	0.0
4800	63.494	63.455	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.494	63.451	-0.110	0.0	0.0	0.0
4848	63.494	63.448	-0.110	0.0	0.0	0.0
4872	63.494	63.444	-0.110	0.0	0.0	0.0
4896	63.494	63.444	-0.110	0.0	0.0	0.0
4920	63.494	63.444	-0.110	0.0	0.0	0.0
4944	63.494	63.444	-0.110	0.0	0.0	0.0
4968	63.494	63.444	-0.110	0.0	0.0	0.0
4992	63.494	63.444	-0.110	0.0	0.0	0.0
5016	63.494	63.444	-0.110	0.0	0.0	0.0
5040	63.494	63.444	-0.110	0.0	0.0	0.0
5064	63.494	63.444	-0.110	0.0	0.0	0.0
5088	63.494	63.444	-0.110	0.0	0.0	0.0
5112	63.494	63.444	-0.110	0.0	0.0	0.0
5136	63.494	63.444	-0.110	0.0	0.0	0.0
5160	63.494	63.444	-0.110	0.0	0.0	0.0
5184	63.494	63.444	-0.110	0.0	0.0	0.0
5208	63.494	63.444	-0.110	0.0	0.0	0.0
5232	63.494	63.444	-0.110	0.0	0.0	0.0
5256	63.494	63.444	-0.110	0.0	0.0	0.0
5280	63.494	63.444	-0.110	0.0	0.0	0.0
5304	63.494	63.444	-0.110	0.0	0.0	0.0
5328	63.494	63.444	-0.110	0.0	0.0	0.0
5352	63.494	63.444	-0.110	0.0	0.0	0.0
5376	63.494	63.444	-0.110	0.0	0.0	0.0
5400	63.494	63.444	-0.110	0.0	0.0	0.0
5424	63.494	63.444	-0.110	0.0	0.0	0.0
5448	63.494	63.444	-0.110	0.0	0.0	0.0
5472	63.494	63.444	-0.110	0.0	0.0	0.0
5496	63.494	63.444	-0.110	0.0	0.0	0.0
5520	63.494	63.444	-0.110	0.0	0.0	0.0
5544	63.494	63.444	-0.110	0.0	0.0	0.0
5568	63.494	63.444	-0.110	0.0	0.0	0.0
5592	63.494	63.444	-0.110	0.0	0.0	0.0
5616	63.494	63.444	-0.110	0.0	0.0	0.0
5640	63.494	63.444	-0.110	0.0	0.0	0.0
5664	63.494	63.444	-0.110	0.0	0.0	0.0
5688	63.494	63.444	-0.110	0.0	0.0	0.0
5712	63.494	63.444	-0.110	0.0	0.0	0.0
5736	63.494	63.444	-0.110	0.0	0.0	0.0
5760	63.494	63.444	-0.110	0.0	0.0	0.0
5784	63.494	63.444	-0.110	0.0	0.0	0.0
5808	63.494	63.444	-0.110	0.0	0.0	0.0
5832	63.494	63.444	-0.110	0.0	0.0	0.0
5856	63.494	63.444	-0.110	0.0	0.0	0.0
5880	63.494	63.444	-0.110	0.0	0.0	0.0
5904	63.494	63.444	-0.110	0.0	0.0	0.0
5928	63.494	63.444	-0.110	0.0	0.0	0.0
5952	63.494	63.444	-0.110	0.0	0.0	0.0
5976	63.494	63.444	-0.110	0.0	0.0	0.0
6000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.494	63.444	-0.110	0.0	0.0	0.0
6048	63.494	63.444	-0.110	0.0	0.0	0.0
6072	63.494	63.444	-0.110	0.0	0.0	0.0
6096	63.494	63.444	-0.110	0.0	0.0	0.0
6120	63.494	63.444	-0.110	0.0	0.0	0.0
6144	63.494	63.444	-0.110	0.0	0.0	0.0
6168	63.494	63.444	-0.110	0.0	0.0	0.0
6192	63.494	63.444	-0.110	0.0	0.0	0.0
6216	63.494	63.444	-0.110	0.0	0.0	0.0
6240	63.494	63.444	-0.110	0.0	0.0	0.0
6264	63.494	63.444	-0.110	0.0	0.0	0.0
6288	63.494	63.444	-0.110	0.0	0.0	0.0
6312	63.494	63.444	-0.110	0.0	0.0	0.0
6336	63.494	63.444	-0.110	0.0	0.0	0.0
6360	63.494	63.444	-0.110	0.0	0.0	0.0
6384	63.494	63.444	-0.110	0.0	0.0	0.0
6408	63.494	63.444	-0.110	0.0	0.0	0.0
6432	63.494	63.444	-0.110	0.0	0.0	0.0
6456	63.494	63.444	-0.110	0.0	0.0	0.0
6480	63.494	63.444	-0.110	0.0	0.0	0.0
6504	63.494	63.444	-0.110	0.0	0.0	0.0
6528	63.494	63.444	-0.110	0.0	0.0	0.0
6552	63.494	63.444	-0.110	0.0	0.0	0.0
6576	63.494	63.444	-0.110	0.0	0.0	0.0
6600	63.494	63.444	-0.110	0.0	0.0	0.0
6624	63.494	63.444	-0.110	0.0	0.0	0.0
6648	63.494	63.444	-0.110	0.0	0.0	0.0
6672	63.494	63.444	-0.110	0.0	0.0	0.0
6696	63.494	63.444	-0.110	0.0	0.0	0.0
6720	63.494	63.444	-0.110	0.0	0.0	0.0
6744	63.494	63.444	-0.110	0.0	0.0	0.0
6768	63.494	63.444	-0.110	0.0	0.0	0.0
6792	63.494	63.444	-0.110	0.0	0.0	0.0
6816	63.494	63.444	-0.110	0.0	0.0	0.0
6840	63.494	63.444	-0.110	0.0	0.0	0.0
6864	63.494	63.444	-0.110	0.0	0.0	0.0
6888	63.494	63.444	-0.110	0.0	0.0	0.0
6912	63.494	63.444	-0.110	0.0	0.0	0.0
6936	63.494	63.444	-0.110	0.0	0.0	0.0
6960	63.494	63.444	-0.110	0.0	0.0	0.0
6984	63.494	63.444	-0.110	0.0	0.0	0.0
7008	63.494	63.444	-0.110	0.0	0.0	0.0
7032	63.494	63.444	-0.110	0.0	0.0	0.0
7056	63.494	63.444	-0.110	0.0	0.0	0.0
7080	63.494	63.444	-0.110	0.0	0.0	0.0
7104	63.494	63.444	-0.110	0.0	0.0	0.0
7128	63.494	63.444	-0.110	0.0	0.0	0.0
7152	63.494	63.444	-0.110	0.0	0.0	0.0
7176	63.494	63.444	-0.110	0.0	0.0	0.0
7200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.1	0.0
864	65.400	65.000	-0.110	0.0	0.1	0.0
888	65.400	65.000	-0.110	0.0	0.1	0.0
912	65.400	65.000	-0.110	0.0	0.1	0.0
936	65.400	65.000	-0.110	0.0	0.1	0.0
960	65.400	65.000	-0.110	0.0	0.1	0.0
984	65.400	65.000	-0.110	0.0	0.1	0.0
1008	65.400	65.001	-0.110	0.0	0.1	0.0
1032	65.400	65.001	-0.110	0.0	0.1	0.0
1056	65.400	65.001	-0.110	0.0	0.1	0.0
1080	65.400	65.001	-0.110	0.0	0.1	0.0
1104	65.400	65.001	-0.110	0.0	0.1	0.0
1128	65.400	65.001	-0.110	0.0	0.1	0.0
1152	65.400	65.001	-0.110	0.0	0.1	0.0
1176	65.400	65.001	-0.110	0.0	0.1	0.0
1200	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.401	65.001	-0.109	0.0	0.1	0.0
1248	65.401	65.001	-0.109	0.0	0.1	0.0
1272	65.401	65.001	-0.109	0.0	0.1	0.0
1296	65.401	65.001	-0.109	0.0	0.1	0.0
1320	65.401	65.001	-0.109	0.0	0.1	0.0
1344	65.401	65.001	-0.109	0.0	0.1	0.0
1368	65.401	65.001	-0.109	0.0	0.1	0.0
1392	65.401	65.001	-0.109	0.0	0.1	0.0
1416	65.401	65.001	-0.109	0.0	0.1	0.0
1440	65.401	65.001	-0.109	0.0	0.1	0.0
1464	65.401	65.001	-0.109	0.0	0.1	0.0
1488	65.401	65.001	-0.109	0.0	0.1	0.0
1512	65.401	65.001	-0.109	0.0	0.1	0.0
1536	65.401	65.001	-0.109	0.0	0.1	0.0
1560	65.401	65.001	-0.109	0.0	0.2	0.0
1584	65.401	65.001	-0.109	0.0	0.2	0.0
1608	65.401	65.001	-0.109	0.0	0.2	0.0
1632	65.401	65.001	-0.109	0.0	0.2	0.0
1656	65.401	65.002	-0.109	0.0	0.2	0.0
1680	65.401	65.002	-0.109	0.0	0.2	0.0
1704	65.401	65.002	-0.109	0.0	0.2	0.0
1728	65.401	65.002	-0.109	0.0	0.2	0.0
1752	65.401	65.002	-0.109	0.0	0.2	0.0
1776	65.401	65.002	-0.109	0.0	0.2	0.0
1800	65.401	65.002	-0.109	0.0	0.2	0.1
1824	65.401	65.002	-0.109	0.0	0.2	0.1
1848	65.401	65.002	-0.109	0.0	0.2	0.1
1872	65.401	65.002	-0.109	0.0	0.2	0.1
1896	65.401	65.002	-0.109	0.0	0.2	0.1
1920	65.401	65.002	-0.109	0.0	0.2	0.1
1944	65.401	65.002	-0.109	0.0	0.2	0.1
1968	65.402	65.002	-0.108	0.0	0.2	0.1
1992	65.402	65.002	-0.108	0.0	0.3	0.1
2016	65.402	65.002	-0.108	0.0	0.3	0.1
2040	65.402	65.002	-0.108	0.0	0.3	0.1
2064	65.402	65.002	-0.108	0.0	0.3	0.1
2088	65.402	65.002	-0.108	0.0	0.3	0.1
2112	65.402	65.002	-0.108	0.0	0.3	0.1
2136	65.402	65.002	-0.108	0.0	0.3	0.1
2160	65.402	65.002	-0.108	0.0	0.3	0.1
2184	65.402	65.002	-0.108	0.0	0.3	0.1
2208	65.402	65.002	-0.108	0.0	0.3	0.1
2232	65.402	65.002	-0.108	0.0	0.3	0.1
2256	65.402	65.002	-0.108	0.0	0.3	0.1
2280	65.402	65.002	-0.108	0.0	0.3	0.1
2304	65.402	65.002	-0.108	0.0	0.3	0.1
2328	65.402	65.002	-0.108	0.0	0.3	0.1
2352	65.402	65.002	-0.108	0.0	0.3	0.1
2376	65.402	65.002	-0.108	0.0	0.2	0.1
2400	65.401	65.002	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	65.002	-0.109	0.0	0.2	0.1
2448	65.401	65.002	-0.109	0.0	0.2	0.1
2472	65.401	65.002	-0.109	0.0	0.2	0.1
2496	65.401	65.002	-0.109	0.0	0.2	0.1
2520	65.401	65.002	-0.109	0.0	0.2	0.1
2544	65.401	65.002	-0.109	0.0	0.2	0.1
2568	65.401	65.002	-0.109	0.0	0.2	0.0
2592	65.401	65.002	-0.109	0.0	0.2	0.0
2616	65.401	65.002	-0.109	0.0	0.2	0.0
2640	65.401	65.002	-0.109	0.0	0.2	0.0
2664	65.401	65.002	-0.109	0.0	0.2	0.0
2688	65.401	65.002	-0.109	0.0	0.2	0.0
2712	65.401	65.001	-0.109	0.0	0.2	0.0
2736	65.401	65.001	-0.109	0.0	0.2	0.0
2760	65.401	65.001	-0.109	0.0	0.2	0.0
2784	65.401	65.001	-0.109	0.0	0.2	0.0
2808	65.401	65.001	-0.109	0.0	0.1	0.0
2832	65.401	65.001	-0.109	0.0	0.1	0.0
2856	65.401	65.001	-0.109	0.0	0.1	0.0
2880	65.401	65.001	-0.109	0.0	0.1	0.0
2904	65.401	65.001	-0.109	0.0	0.1	0.0
2928	65.401	65.001	-0.109	0.0	0.1	0.0
2952	65.401	65.001	-0.109	0.0	0.1	0.0
2976	65.401	65.001	-0.109	0.0	0.1	0.0
3000	65.401	65.001	-0.109	0.0	0.1	0.0
3024	65.401	65.001	-0.109	0.0	0.1	0.0
3048	65.401	65.001	-0.109	0.0	0.1	0.0
3072	65.401	65.001	-0.109	0.0	0.1	0.0
3096	65.401	65.001	-0.109	0.0	0.1	0.0
3120	65.401	65.001	-0.109	0.0	0.1	0.0
3144	65.400	65.001	-0.110	0.0	0.1	0.0
3168	65.400	65.001	-0.110	0.0	0.1	0.0
3192	65.400	65.001	-0.110	0.0	0.1	0.0
3216	65.400	65.001	-0.110	0.0	0.1	0.0
3240	65.400	65.001	-0.110	0.0	0.1	0.0
3264	65.400	65.001	-0.110	0.0	0.1	0.0
3288	65.400	65.001	-0.110	0.0	0.1	0.0
3312	65.400	65.001	-0.110	0.0	0.1	0.0
3336	65.400	65.001	-0.110	0.0	0.1	0.0
3360	65.400	65.000	-0.110	0.0	0.1	0.0
3384	65.400	65.000	-0.110	0.0	0.1	0.0
3408	65.400	65.000	-0.110	0.0	0.1	0.0
3432	65.400	65.000	-0.110	0.0	0.1	0.0
3456	65.400	65.000	-0.110	0.0	0.1	0.0
3480	65.400	65.000	-0.110	0.0	0.1	0.0
3504	65.400	65.000	-0.110	0.0	0.1	0.0
3528	65.400	65.000	-0.110	0.0	0.0	0.0
3552	65.400	65.000	-0.110	0.0	0.0	0.0
3576	65.400	65.000	-0.110	0.0	0.0	0.0
3600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.0	0.0
3648	65.400	65.000	-0.110	0.0	0.0	0.0
3672	65.400	65.000	-0.110	0.0	0.0	0.0
3696	65.400	65.000	-0.110	0.0	0.0	0.0
3720	65.400	65.000	-0.110	0.0	0.0	0.0
3744	65.400	65.000	-0.110	0.0	0.0	0.0
3768	65.400	65.000	-0.110	0.0	0.0	0.0
3792	65.400	65.000	-0.110	0.0	0.0	0.0
3816	65.400	65.000	-0.110	0.0	0.0	0.0
3840	65.400	65.000	-0.110	0.0	0.0	0.0
3864	65.400	65.000	-0.110	0.0	0.0	0.0
3888	65.400	65.000	-0.110	0.0	0.0	0.0
3912	65.400	65.000	-0.110	0.0	0.0	0.0
3936	65.400	65.000	-0.110	0.0	0.0	0.0
3960	65.400	65.000	-0.110	0.0	0.0	0.0
3984	65.400	65.000	-0.110	0.0	0.0	0.0
4008	65.400	65.000	-0.110	0.0	0.0	0.0
4032	65.400	65.000	-0.110	0.0	0.0	0.0
4056	65.400	65.000	-0.110	0.0	0.0	0.0
4080	65.400	65.000	-0.110	0.0	0.0	0.0
4104	65.400	65.000	-0.110	0.0	0.0	0.0
4128	65.400	65.000	-0.110	0.0	0.0	0.0
4152	65.400	65.000	-0.110	0.0	0.0	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0
4344	65.400	65.000	-0.110	0.0	0.0	0.0
4368	65.400	65.000	-0.110	0.0	0.0	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
72	65.000	63.444	-0.110	0.0	0.0	0.0
96	65.000	63.444	-0.110	0.0	0.0	0.0
120	65.000	63.445	-0.110	0.0	0.0	0.0
144	65.000	63.445	-0.110	0.0	0.0	0.0
168	65.000	63.446	-0.110	0.0	0.0	0.0
192	65.000	63.446	-0.110	0.0	0.1	0.0
216	65.000	63.446	-0.110	0.0	0.1	0.0
240	65.000	63.447	-0.110	0.0	0.1	0.0
264	65.000	63.447	-0.110	0.0	0.1	0.0
288	65.000	63.447	-0.110	0.0	0.1	0.0
312	65.000	63.447	-0.110	0.0	0.1	0.0
336	65.000	63.447	-0.110	0.0	0.1	0.0
360	65.000	63.447	-0.110	0.0	0.1	0.0
384	65.000	63.447	-0.110	0.0	0.1	0.0
408	65.000	63.447	-0.110	0.0	0.1	0.0
432	65.000	63.447	-0.110	0.0	0.1	0.0
456	65.000	63.447	-0.110	0.0	0.1	0.0
480	65.000	63.447	-0.110	0.0	0.1	0.0
504	65.000	63.448	-0.110	0.0	0.1	0.0
528	65.000	63.448	-0.110	0.0	0.1	0.0
552	65.000	63.448	-0.110	0.0	0.1	0.0
576	65.000	63.447	-0.110	0.0	0.1	0.0
600	65.000	63.447	-0.110	0.0	0.1	0.0
624	65.000	63.447	-0.110	0.0	0.1	0.0
648	65.000	63.447	-0.110	0.0	0.1	0.0
672	65.000	63.447	-0.110	0.0	0.1	0.0
696	65.000	63.447	-0.110	0.0	0.1	0.0
720	65.000	63.448	-0.110	0.0	0.1	0.0
744	65.000	63.448	-0.110	0.0	0.1	0.0
768	65.000	63.448	-0.110	0.0	0.1	0.0
792	65.000	63.448	-0.110	0.0	0.1	0.0
816	65.000	63.448	-0.110	0.0	0.1	0.0
840	65.000	63.448	-0.110	0.0	0.1	0.0
864	65.000	63.448	-0.110	0.0	0.1	0.0
888	65.000	63.448	-0.110	0.0	0.1	0.0
912	65.000	63.448	-0.110	0.0	0.1	0.0
936	65.000	63.448	-0.110	0.0	0.1	0.0
960	65.000	63.448	-0.110	0.0	0.1	0.0
984	65.000	63.448	-0.110	0.0	0.1	0.0
1008	65.001	63.448	-0.109	0.0	0.1	0.0
1032	65.001	63.448	-0.109	0.0	0.1	0.0
1056	65.001	63.449	-0.109	0.0	0.1	0.0
1080	65.001	63.449	-0.109	0.0	0.1	0.0
1104	65.001	63.449	-0.109	0.0	0.1	0.0
1128	65.001	63.449	-0.109	0.0	0.1	0.0
1152	65.001	63.449	-0.109	0.0	0.1	0.0
1176	65.001	63.450	-0.109	0.0	0.2	0.0
1200	65.001	63.450	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.001	63.450	-0.109	0.0	0.2	0.0
1248	65.001	63.450	-0.109	0.0	0.2	0.0
1272	65.001	63.451	-0.109	0.0	0.2	0.0
1296	65.001	63.451	-0.109	0.0	0.2	0.0
1320	65.001	63.451	-0.109	0.0	0.2	0.0
1344	65.001	63.451	-0.109	0.0	0.2	0.1
1368	65.001	63.452	-0.109	0.0	0.2	0.1
1392	65.001	63.452	-0.109	0.0	0.2	0.1
1416	65.001	63.453	-0.109	0.0	0.2	0.1
1440	65.001	63.453	-0.109	0.0	0.3	0.1
1464	65.001	63.453	-0.109	0.0	0.3	0.1
1488	65.001	63.454	-0.109	0.0	0.3	0.1
1512	65.001	63.454	-0.109	0.0	0.3	0.1
1536	65.001	63.455	-0.109	0.0	0.3	0.1
1560	65.001	63.455	-0.109	0.0	0.3	0.1
1584	65.001	63.455	-0.109	0.0	0.3	0.1
1608	65.001	63.455	-0.109	0.0	0.3	0.1
1632	65.001	63.455	-0.109	0.0	0.3	0.1
1656	65.002	63.456	-0.108	0.0	0.4	0.1
1680	65.002	63.456	-0.108	0.0	0.4	0.1
1704	65.002	63.456	-0.108	0.0	0.4	0.1
1728	65.002	63.456	-0.108	0.0	0.4	0.1
1752	65.002	63.456	-0.108	0.0	0.4	0.1
1776	65.002	63.456	-0.108	0.0	0.4	0.1
1800	65.002	63.456	-0.108	0.0	0.4	0.1
1824	65.002	63.456	-0.108	0.0	0.4	0.1
1848	65.002	63.457	-0.108	0.0	0.4	0.1
1872	65.002	63.457	-0.108	0.0	0.5	0.1
1896	65.002	63.457	-0.108	0.0	0.5	0.1
1920	65.002	63.457	-0.108	0.0	0.5	0.1
1944	65.002	63.457	-0.108	0.0	0.5	0.1
1968	65.002	63.457	-0.108	0.0	0.5	0.1
1992	65.002	63.457	-0.108	0.0	0.5	0.1
2016	65.002	63.457	-0.108	0.0	0.5	0.1
2040	65.002	63.457	-0.108	0.0	0.5	0.1
2064	65.002	63.457	-0.108	0.0	0.5	0.1
2088	65.002	63.458	-0.108	0.0	0.5	0.1
2112	65.002	63.458	-0.108	0.0	0.5	0.1
2136	65.002	63.458	-0.108	0.0	0.5	0.1
2160	65.002	63.458	-0.108	0.0	0.5	0.1
2184	65.002	63.461	-0.108	0.0	0.5	0.1
2208	65.002	63.465	-0.108	0.0	0.5	0.1
2232	65.002	63.471	-0.108	0.0	0.5	0.1
2256	65.002	63.479	-0.108	0.0	0.5	0.1
2280	65.002	63.486	-0.108	0.0	0.5	0.1
2304	65.002	63.493	-0.108	0.0	0.5	0.1
2328	65.002	63.500	-0.108	0.0	0.5	0.1
2352	65.002	63.506	-0.108	0.0	0.5	0.1
2376	65.002	63.513	-0.108	0.0	0.5	0.1
2400	65.002	63.519	-0.108	0.0	0.5	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.002	63.525	-0.108	0.0	0.5	0.1
2448	65.002	63.531	-0.108	0.0	0.5	0.1
2472	65.002	63.537	-0.108	0.0	0.5	0.1
2496	65.002	63.542	-0.108	0.0	0.4	0.1
2520	65.002	63.547	-0.108	0.0	0.4	0.1
2544	65.002	63.552	-0.108	0.0	0.4	0.1
2568	65.002	63.557	-0.108	0.0	0.4	0.1
2592	65.002	63.561	-0.108	0.0	0.4	0.1
2616	65.002	63.565	-0.108	0.0	0.4	0.1
2640	65.002	63.569	-0.108	0.0	0.4	0.1
2664	65.002	63.573	-0.108	0.0	0.4	0.1
2688	65.002	63.577	-0.108	0.0	0.4	0.1
2712	65.001	63.580	-0.109	0.0	0.3	0.1
2736	65.001	63.583	-0.109	0.0	0.3	0.1
2760	65.001	63.586	-0.109	0.0	0.3	0.1
2784	65.001	63.588	-0.109	0.0	0.3	0.1
2808	65.001	63.591	-0.109	0.0	0.3	0.1
2832	65.001	63.593	-0.109	0.0	0.3	0.1
2856	65.001	63.594	-0.109	0.0	0.3	0.1
2880	65.001	63.596	-0.109	0.0	0.3	0.1
2904	65.001	63.597	-0.109	0.0	0.3	0.1
2928	65.001	63.599	-0.109	0.0	0.2	0.1
2952	65.001	63.600	-0.109	0.0	0.2	0.1
2976	65.001	63.601	-0.109	0.0	0.2	0.1
3000	65.001	63.601	-0.109	0.0	0.2	0.1
3024	65.001	63.602	-0.109	0.0	0.2	0.0
3048	65.001	63.602	-0.109	0.0	0.2	0.0
3072	65.001	63.602	-0.109	0.0	0.2	0.0
3096	65.001	63.602	-0.109	0.0	0.2	0.0
3120	65.001	63.602	-0.109	0.0	0.2	0.0
3144	65.001	63.602	-0.109	0.0	0.2	0.0
3168	65.001	63.601	-0.109	0.0	0.2	0.0
3192	65.001	63.601	-0.109	0.0	0.2	0.0
3216	65.001	63.600	-0.109	0.0	0.1	0.0
3240	65.001	63.599	-0.109	0.0	0.1	0.0
3264	65.001	63.598	-0.109	0.0	0.1	0.0
3288	65.001	63.597	-0.109	0.0	0.1	0.0
3312	65.001	63.596	-0.109	0.0	0.1	0.0
3336	65.001	63.595	-0.109	0.0	0.1	0.0
3360	65.000	63.594	-0.110	0.0	0.1	0.0
3384	65.000	63.593	-0.110	0.0	0.1	0.0
3408	65.000	63.591	-0.110	0.0	0.1	0.0
3432	65.000	63.590	-0.110	0.0	0.1	0.0
3456	65.000	63.588	-0.110	0.0	0.1	0.0
3480	65.000	63.586	-0.110	0.0	0.1	0.0
3504	65.000	63.585	-0.110	0.0	0.1	0.0
3528	65.000	63.584	-0.110	0.0	0.1	0.0
3552	65.000	63.583	-0.110	0.0	0.1	0.0
3576	65.000	63.581	-0.110	0.0	0.1	0.0
3600	65.000	63.579	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.577	-0.110	0.0	0.1	0.0
3648	65.000	63.576	-0.110	0.0	0.1	0.0
3672	65.000	63.574	-0.110	0.0	0.1	0.0
3696	65.000	63.573	-0.110	0.0	0.1	0.0
3720	65.000	63.571	-0.110	0.0	0.1	0.0
3744	65.000	63.570	-0.110	0.0	0.1	0.0
3768	65.000	63.568	-0.110	0.0	0.1	0.0
3792	65.000	63.566	-0.110	0.0	0.1	0.0
3816	65.000	63.565	-0.110	0.0	0.1	0.0
3840	65.000	63.563	-0.110	0.0	0.1	0.0
3864	65.000	63.562	-0.110	0.0	0.1	0.0
3888	65.000	63.560	-0.110	0.0	0.1	0.0
3912	65.000	63.558	-0.110	0.0	0.1	0.0
3936	65.000	63.557	-0.110	0.0	0.1	0.0
3960	65.000	63.555	-0.110	0.0	0.1	0.0
3984	65.000	63.554	-0.110	0.0	0.1	0.0
4008	65.000	63.552	-0.110	0.0	0.1	0.0
4032	65.000	63.550	-0.110	0.0	0.1	0.0
4056	65.000	63.548	-0.110	0.0	0.1	0.0
4080	65.000	63.547	-0.110	0.0	0.1	0.0
4104	65.000	63.545	-0.110	0.0	0.1	0.0
4128	65.000	63.543	-0.110	0.0	0.1	0.0
4152	65.000	63.541	-0.110	0.0	0.1	0.0
4176	65.000	63.538	-0.110	0.0	0.1	0.0
4200	65.000	63.536	-0.110	0.0	0.1	0.0
4224	65.000	63.534	-0.110	0.0	0.0	0.0
4248	65.000	63.531	-0.110	0.0	0.0	0.0
4272	65.000	63.528	-0.110	0.0	0.0	0.0
4296	65.000	63.525	-0.110	0.0	0.0	0.0
4320	65.000	63.521	-0.110	0.0	0.0	0.0
4344	65.000	63.518	-0.110	0.0	0.0	0.0
4368	65.000	63.514	-0.110	0.0	0.0	0.0
4392	65.000	63.511	-0.110	0.0	0.0	0.0
4416	65.000	63.508	-0.110	0.0	0.0	0.0
4440	65.000	63.504	-0.110	0.0	0.0	0.0
4464	65.000	63.501	-0.110	0.0	0.0	0.0
4488	65.000	63.498	-0.110	0.0	0.0	0.0
4512	65.000	63.494	-0.110	0.0	0.0	0.0
4536	65.000	63.491	-0.110	0.0	0.0	0.0
4560	65.000	63.488	-0.110	0.0	0.0	0.0
4584	65.000	63.485	-0.110	0.0	0.0	0.0
4608	65.000	63.481	-0.110	0.0	0.0	0.0
4632	65.000	63.478	-0.110	0.0	0.0	0.0
4656	65.000	63.475	-0.110	0.0	0.0	0.0
4680	65.000	63.471	-0.110	0.0	0.0	0.0
4704	65.000	63.468	-0.110	0.0	0.0	0.0
4728	65.000	63.464	-0.110	0.0	0.0	0.0
4752	65.000	63.461	-0.110	0.0	0.0	0.0
4776	65.000	63.458	-0.110	0.0	0.0	0.0
4800	65.000	63.455	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.451	-0.110	0.0	0.0	0.0
4848	65.000	63.448	-0.110	0.0	0.0	0.0
4872	65.000	63.444	-0.110	0.0	0.0	0.0
4896	65.000	63.444	-0.110	0.0	0.0	0.0
4920	65.000	63.444	-0.110	0.0	0.0	0.0
4944	65.000	63.444	-0.110	0.0	0.0	0.0
4968	65.000	63.444	-0.110	0.0	0.0	0.0
4992	65.000	63.444	-0.110	0.0	0.0	0.0
5016	65.000	63.444	-0.110	0.0	0.0	0.0
5040	65.000	63.444	-0.110	0.0	0.0	0.0
5064	65.000	63.444	-0.110	0.0	0.0	0.0
5088	65.000	63.444	-0.110	0.0	0.0	0.0
5112	65.000	63.444	-0.110	0.0	0.0	0.0
5136	65.000	63.444	-0.110	0.0	0.0	0.0
5160	65.000	63.444	-0.110	0.0	0.0	0.0
5184	65.000	63.444	-0.110	0.0	0.0	0.0
5208	65.000	63.444	-0.110	0.0	0.0	0.0
5232	65.000	63.444	-0.110	0.0	0.0	0.0
5256	65.000	63.444	-0.110	0.0	0.0	0.0
5280	65.000	63.444	-0.110	0.0	0.0	0.0
5304	65.000	63.444	-0.110	0.0	0.0	0.0
5328	65.000	63.444	-0.110	0.0	0.0	0.0
5352	65.000	63.444	-0.110	0.0	0.0	0.0
5376	65.000	63.444	-0.110	0.0	0.0	0.0
5400	65.000	63.444	-0.110	0.0	0.0	0.0
5424	65.000	63.444	-0.110	0.0	0.0	0.0
5448	65.000	63.444	-0.110	0.0	0.0	0.0
5472	65.000	63.444	-0.110	0.0	0.0	0.0
5496	65.000	63.444	-0.110	0.0	0.0	0.0
5520	65.000	63.444	-0.110	0.0	0.0	0.0
5544	65.000	63.444	-0.110	0.0	0.0	0.0
5568	65.000	63.444	-0.110	0.0	0.0	0.0
5592	65.000	63.444	-0.110	0.0	0.0	0.0
5616	65.000	63.444	-0.110	0.0	0.0	0.0
5640	65.000	63.444	-0.110	0.0	0.0	0.0
5664	65.000	63.444	-0.110	0.0	0.0	0.0
5688	65.000	63.444	-0.110	0.0	0.0	0.0
5712	65.000	63.444	-0.110	0.0	0.0	0.0
5736	65.000	63.444	-0.110	0.0	0.0	0.0
5760	65.000	63.444	-0.110	0.0	0.0	0.0
5784	65.000	63.444	-0.110	0.0	0.0	0.0
5808	65.000	63.444	-0.110	0.0	0.0	0.0
5832	65.000	63.444	-0.110	0.0	0.0	0.0
5856	65.000	63.444	-0.110	0.0	0.0	0.0
5880	65.000	63.444	-0.110	0.0	0.0	0.0
5904	65.000	63.444	-0.110	0.0	0.0	0.0
5928	65.000	63.444	-0.110	0.0	0.0	0.0
5952	65.000	63.444	-0.110	0.0	0.0	0.0
5976	65.000	63.444	-0.110	0.0	0.0	0.0
6000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.444	-0.110	0.0	0.0	0.0
6048	65.000	63.444	-0.110	0.0	0.0	0.0
6072	65.000	63.444	-0.110	0.0	0.0	0.0
6096	65.000	63.444	-0.110	0.0	0.0	0.0
6120	65.000	63.444	-0.110	0.0	0.0	0.0
6144	65.000	63.444	-0.110	0.0	0.0	0.0
6168	65.000	63.444	-0.110	0.0	0.0	0.0
6192	65.000	63.444	-0.110	0.0	0.0	0.0
6216	65.000	63.444	-0.110	0.0	0.0	0.0
6240	65.000	63.444	-0.110	0.0	0.0	0.0
6264	65.000	63.444	-0.110	0.0	0.0	0.0
6288	65.000	63.444	-0.110	0.0	0.0	0.0
6312	65.000	63.444	-0.110	0.0	0.0	0.0
6336	65.000	63.444	-0.110	0.0	0.0	0.0
6360	65.000	63.444	-0.110	0.0	0.0	0.0
6384	65.000	63.444	-0.110	0.0	0.0	0.0
6408	65.000	63.444	-0.110	0.0	0.0	0.0
6432	65.000	63.444	-0.110	0.0	0.0	0.0
6456	65.000	63.444	-0.110	0.0	0.0	0.0
6480	65.000	63.444	-0.110	0.0	0.0	0.0
6504	65.000	63.444	-0.110	0.0	0.0	0.0
6528	65.000	63.444	-0.110	0.0	0.0	0.0
6552	65.000	63.444	-0.110	0.0	0.0	0.0
6576	65.000	63.444	-0.110	0.0	0.0	0.0
6600	65.000	63.444	-0.110	0.0	0.0	0.0
6624	65.000	63.444	-0.110	0.0	0.0	0.0
6648	65.000	63.444	-0.110	0.0	0.0	0.0
6672	65.000	63.444	-0.110	0.0	0.0	0.0
6696	65.000	63.444	-0.110	0.0	0.0	0.0
6720	65.000	63.444	-0.110	0.0	0.0	0.0
6744	65.000	63.444	-0.110	0.0	0.0	0.0
6768	65.000	63.444	-0.110	0.0	0.0	0.0
6792	65.000	63.444	-0.110	0.0	0.0	0.0
6816	65.000	63.444	-0.110	0.0	0.0	0.0
6840	65.000	63.444	-0.110	0.0	0.0	0.0
6864	65.000	63.444	-0.110	0.0	0.0	0.0
6888	65.000	63.444	-0.110	0.0	0.0	0.0
6912	65.000	63.444	-0.110	0.0	0.0	0.0
6936	65.000	63.444	-0.110	0.0	0.0	0.0
6960	65.000	63.444	-0.110	0.0	0.0	0.0
6984	65.000	63.444	-0.110	0.0	0.0	0.0
7008	65.000	63.444	-0.110	0.0	0.0	0.0
7032	65.000	63.444	-0.110	0.0	0.0	0.0
7056	65.000	63.444	-0.110	0.0	0.0	0.0
7080	65.000	63.444	-0.110	0.0	0.0	0.0
7104	65.000	63.444	-0.110	0.0	0.0	0.0
7128	65.000	63.444	-0.110	0.0	0.0	0.0
7152	65.000	63.444	-0.110	0.0	0.0	0.0
7176	65.000	63.444	-0.110	0.0	0.0	0.0
7200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.444	63.250	-0.110	0.0	0.0	0.0
72	63.444	63.250	-0.110	0.0	0.0	0.0
96	63.444	63.250	-0.110	0.0	0.0	0.0
120	63.445	63.251	-0.110	0.0	0.0	0.0
144	63.445	63.251	-0.110	0.0	0.0	0.0
168	63.446	63.251	-0.108	0.0	0.1	0.0
192	63.446	63.252	-0.108	0.0	0.1	0.0
216	63.446	63.253	-0.108	0.0	0.1	0.0
240	63.447	63.255	-0.107	0.0	0.1	0.0
264	63.447	63.256	-0.107	0.0	0.2	0.0
288	63.447	63.258	-0.107	0.0	0.2	0.0
312	63.447	63.259	-0.107	0.0	0.2	0.0
336	63.447	63.260	-0.107	0.0	0.2	0.0
360	63.447	63.261	-0.107	0.0	0.2	0.0
384	63.447	63.262	-0.107	0.0	0.2	0.0
408	63.447	63.263	-0.107	0.0	0.2	0.0
432	63.447	63.264	-0.107	0.0	0.2	0.0
456	63.447	63.264	-0.107	0.0	0.2	0.0
480	63.447	63.265	-0.107	0.0	0.2	0.0
504	63.448	63.265	-0.107	0.0	0.2	0.0
528	63.448	63.266	-0.107	0.0	0.2	0.0
552	63.448	63.266	-0.107	0.0	0.2	0.0
576	63.447	63.266	-0.107	0.0	0.2	0.0
600	63.447	63.266	-0.107	0.0	0.2	0.0
624	63.447	63.267	-0.107	0.0	0.2	0.0
648	63.447	63.267	-0.107	0.0	0.2	0.0
672	63.447	63.267	-0.107	0.0	0.2	0.0
696	63.447	63.267	-0.107	0.0	0.2	0.0
720	63.448	63.267	-0.107	0.0	0.2	0.0
744	63.448	63.267	-0.107	0.0	0.2	0.0
768	63.448	63.267	-0.107	0.0	0.2	0.0
792	63.448	63.267	-0.107	0.0	0.2	0.0
816	63.448	63.267	-0.107	0.0	0.2	0.0
840	63.448	63.267	-0.106	0.0	0.2	0.0
864	63.448	63.268	-0.106	0.0	0.2	0.0
888	63.448	63.268	-0.106	0.0	0.2	0.1
912	63.448	63.268	-0.106	0.0	0.2	0.1
936	63.448	63.268	-0.106	0.0	0.2	0.1
960	63.448	63.268	-0.106	0.0	0.2	0.1
984	63.448	63.268	-0.106	0.0	0.2	0.1
1008	63.448	63.269	-0.106	0.0	0.2	0.1
1032	63.448	63.269	-0.106	0.0	0.2	0.1
1056	63.449	63.269	-0.105	0.0	0.3	0.1
1080	63.449	63.270	-0.105	0.0	0.3	0.1
1104	63.449	63.270	-0.105	0.0	0.3	0.1
1128	63.449	63.270	-0.105	0.0	0.3	0.1
1152	63.449	63.271	-0.105	0.0	0.3	0.1
1176	63.450	63.271	-0.105	0.0	0.3	0.1
1200	63.450	63.272	-0.104	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.450	63.273	-0.104	0.0	0.3	0.1
1248	63.450	63.273	-0.104	0.0	0.3	0.1
1272	63.451	63.274	-0.103	0.0	0.4	0.1
1296	63.451	63.275	-0.103	0.0	0.4	0.1
1320	63.451	63.276	-0.103	0.0	0.4	0.1
1344	63.451	63.276	-0.103	0.0	0.4	0.1
1368	63.452	63.278	-0.102	0.0	0.4	0.1
1392	63.452	63.279	-0.102	0.0	0.4	0.1
1416	63.453	63.280	-0.102	0.0	0.3	0.1
1440	63.453	63.282	-0.101	0.0	0.3	0.1
1464	63.453	63.283	-0.101	0.0	0.3	0.1
1488	63.454	63.285	-0.100	0.0	0.3	0.1
1512	63.454	63.286	-0.100	0.0	0.3	0.1
1536	63.455	63.289	-0.099	0.0	0.3	0.1
1560	63.455	63.293	-0.099	0.0	0.3	0.1
1584	63.455	63.297	-0.099	0.0	0.3	0.2
1608	63.455	63.301	-0.099	0.0	0.3	0.2
1632	63.455	63.305	-0.099	0.0	0.3	0.2
1656	63.456	63.310	-0.099	0.0	0.3	0.2
1680	63.456	63.315	-0.098	0.0	0.3	0.2
1704	63.456	63.320	-0.098	0.0	0.3	0.2
1728	63.456	63.325	-0.098	0.0	0.3	0.2
1752	63.456	63.331	-0.098	0.0	0.3	0.2
1776	63.456	63.336	-0.098	0.0	0.3	0.2
1800	63.456	63.342	-0.098	0.0	0.4	0.2
1824	63.456	63.348	-0.098	0.0	0.4	0.2
1848	63.457	63.354	-0.098	0.0	0.4	0.2
1872	63.457	63.360	-0.097	0.0	0.4	0.2
1896	63.457	63.369	-0.097	0.0	0.4	0.2
1920	63.457	63.377	-0.097	0.0	0.4	0.2
1944	63.457	63.385	-0.097	0.0	0.4	0.2
1968	63.457	63.393	-0.097	0.0	0.4	0.2
1992	63.457	63.400	-0.097	0.0	0.4	0.2
2016	63.457	63.407	-0.097	0.0	0.4	0.2
2040	63.457	63.414	-0.097	0.0	0.4	0.3
2064	63.457	63.420	-0.097	0.0	0.4	0.3
2088	63.458	63.427	-0.097	0.0	0.4	0.3
2112	63.458	63.433	-0.097	0.0	0.4	0.3
2136	63.458	63.440	-0.096	0.0	0.4	0.3
2160	63.458	63.448	-0.096	0.0	0.4	0.3
2184	63.461	63.455	-0.093	0.0	0.3	0.3
2208	63.465	63.463	-0.089	0.0	0.2	0.3
2232	63.471	63.470	-0.083	0.0	0.2	0.3
2256	63.479	63.478	-0.076	0.0	0.1	0.3
2280	63.486	63.485	-0.068	0.0	0.1	0.3
2304	63.493	63.492	-0.061	0.0	0.1	0.2
2328	63.500	63.499	-0.054	0.0	0.1	0.2
2352	63.506	63.506	-0.048	0.0	0.0	0.2
2376	63.513	63.512	-0.041	0.0	0.0	0.2
2400	63.519	63.518	-0.035	0.0	0.0	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.525	63.524	-0.029	0.0	0.0	0.2
2448	63.531	63.530	-0.023	0.0	0.0	0.2
2472	63.537	63.536	-0.017	0.0	0.0	0.2
2496	63.542	63.541	-0.012	0.0	0.0	0.2
2520	63.547	63.547	-0.007	0.0	0.0	0.2
2544	63.552	63.552	-0.002	0.0	0.0	0.2
2568	63.557	63.556	0.003	0.0	0.0	0.2
2592	63.561	63.560	0.007	0.0	0.0	0.2
2616	63.565	63.565	0.011	0.0	0.0	0.2
2640	63.569	63.569	0.015	0.0	0.0	0.2
2664	63.573	63.572	0.019	0.0	0.0	0.2
2688	63.577	63.576	0.022	0.0	0.0	0.2
2712	63.580	63.579	0.026	0.0	0.0	0.2
2736	63.583	63.582	0.029	0.0	0.0	0.2
2760	63.586	63.585	0.032	0.0	0.0	0.2
2784	63.588	63.588	0.034	0.0	0.0	0.1
2808	63.591	63.590	0.037	0.0	0.0	0.1
2832	63.593	63.592	0.039	0.0	0.0	0.1
2856	63.594	63.594	0.040	0.0	0.0	0.1
2880	63.596	63.596	0.042	0.0	0.0	0.1
2904	63.597	63.597	0.043	0.0	0.0	0.1
2928	63.599	63.598	0.045	0.0	0.0	0.1
2952	63.600	63.599	0.046	0.0	0.0	0.1
2976	63.601	63.600	0.047	0.0	0.0	0.1
3000	63.601	63.601	0.047	0.0	0.0	0.1
3024	63.602	63.602	0.048	0.0	0.0	0.1
3048	63.602	63.602	0.048	0.0	0.0	0.1
3072	63.602	63.602	0.048	0.0	0.0	0.1
3096	63.602	63.602	0.048	0.0	0.0	0.1
3120	63.602	63.602	0.048	0.0	0.0	0.1
3144	63.602	63.602	0.048	0.0	0.0	0.1
3168	63.601	63.601	0.047	0.0	0.0	0.1
3192	63.601	63.601	0.047	0.0	0.0	0.1
3216	63.600	63.600	0.046	0.0	0.0	0.1
3240	63.599	63.599	0.045	0.0	0.0	0.1
3264	63.598	63.598	0.044	0.0	0.0	0.1
3288	63.597	63.597	0.043	0.0	0.0	0.1
3312	63.596	63.596	0.042	0.0	0.0	0.1
3336	63.595	63.595	0.041	0.0	0.0	0.1
3360	63.594	63.594	0.040	0.0	0.0	0.1
3384	63.593	63.592	0.039	0.0	0.0	0.1
3408	63.591	63.591	0.037	0.0	0.0	0.1
3432	63.590	63.590	0.036	0.0	0.0	0.1
3456	63.588	63.588	0.034	0.0	0.0	0.1
3480	63.586	63.587	0.032	0.0	0.0	0.1
3504	63.585	63.585	0.031	0.0	0.0	0.0
3528	63.584	63.584	0.030	0.0	0.0	0.1
3552	63.583	63.582	0.028	0.0	0.0	0.0
3576	63.581	63.581	0.027	0.0	0.0	0.0
3600	63.579	63.579	0.025	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.577	63.578	0.023	0.0	0.0	0.0
3648	63.576	63.576	0.022	0.0	0.0	0.0
3672	63.574	63.574	0.020	0.0	0.0	0.0
3696	63.573	63.573	0.019	0.0	0.0	0.0
3720	63.571	63.571	0.017	0.0	0.0	0.0
3744	63.570	63.569	0.016	0.0	0.0	0.0
3768	63.568	63.568	0.014	0.0	0.0	0.0
3792	63.566	63.566	0.012	0.0	0.0	0.0
3816	63.565	63.565	0.011	0.0	0.0	0.0
3840	63.563	63.563	0.009	0.0	0.0	0.0
3864	63.562	63.561	0.008	0.0	0.0	0.0
3888	63.560	63.560	0.006	0.0	0.0	0.0
3912	63.558	63.558	0.004	0.0	0.0	0.0
3936	63.557	63.557	0.003	0.0	0.0	0.0
3960	63.555	63.555	0.001	0.0	0.0	0.0
3984	63.554	63.553	-0.001	0.0	0.0	0.0
4008	63.552	63.552	-0.002	0.0	0.0	0.0
4032	63.550	63.550	-0.004	0.0	0.0	0.0
4056	63.548	63.548	-0.006	0.0	0.0	0.0
4080	63.547	63.546	-0.008	0.0	0.0	0.0
4104	63.545	63.545	-0.009	0.0	0.0	0.0
4128	63.543	63.543	-0.011	0.0	0.0	0.0
4152	63.541	63.540	-0.014	0.0	0.0	0.0
4176	63.538	63.538	-0.016	0.0	0.0	0.0
4200	63.536	63.536	-0.018	0.0	0.0	0.0
4224	63.534	63.533	-0.021	0.0	0.0	0.0
4248	63.531	63.531	-0.023	0.0	0.0	0.0
4272	63.528	63.528	-0.027	0.0	0.0	0.0
4296	63.525	63.525	-0.030	0.0	0.0	0.0
4320	63.521	63.521	-0.033	0.0	0.0	0.0
4344	63.518	63.518	-0.036	0.0	0.0	0.0
4368	63.514	63.515	-0.040	0.0	0.0	0.0
4392	63.511	63.511	-0.043	0.0	0.0	0.0
4416	63.508	63.508	-0.046	0.0	0.0	0.0
4440	63.504	63.505	-0.050	0.0	0.0	0.0
4464	63.501	63.501	-0.053	0.0	0.0	0.0
4488	63.498	63.498	-0.056	0.0	0.0	0.0
4512	63.494	63.494	-0.060	0.0	0.0	0.0
4536	63.491	63.491	-0.063	0.0	0.0	0.0
4560	63.488	63.488	-0.066	0.0	0.0	0.0
4584	63.485	63.485	-0.069	0.0	0.0	0.0
4608	63.481	63.481	-0.073	0.0	0.0	0.0
4632	63.478	63.478	-0.076	0.0	0.0	0.0
4656	63.475	63.475	-0.079	0.0	0.0	0.0
4680	63.471	63.471	-0.083	0.0	0.0	0.0
4704	63.468	63.468	-0.086	0.0	0.0	0.0
4728	63.464	63.465	-0.090	0.0	0.0	0.0
4752	63.461	63.461	-0.093	0.0	0.0	0.0
4776	63.458	63.457	-0.097	0.0	0.0	0.0
4800	63.455	63.454	-0.100	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.451	63.451	-0.103	0.0	0.0	0.0
4848	63.448	63.447	-0.106	0.0	0.0	0.0
4872	63.444	63.444	-0.110	0.0	0.0	0.0
4896	63.444	63.441	-0.110	0.0	0.0	0.0
4920	63.444	63.438	-0.110	0.0	0.0	0.0
4944	63.444	63.435	-0.110	0.0	0.0	0.0
4968	63.444	63.431	-0.110	0.0	0.0	0.0
4992	63.444	63.428	-0.110	0.0	0.0	0.0
5016	63.444	63.425	-0.110	0.0	0.0	0.0
5040	63.444	63.421	-0.110	0.0	0.0	0.0
5064	63.444	63.418	-0.110	0.0	0.0	0.0
5088	63.444	63.415	-0.110	0.0	0.0	0.0
5112	63.444	63.412	-0.110	0.0	0.0	0.0
5136	63.444	63.408	-0.110	0.0	0.0	0.0
5160	63.444	63.405	-0.110	0.0	0.0	0.0
5184	63.444	63.402	-0.110	0.0	0.0	0.0
5208	63.444	63.399	-0.110	0.0	0.0	0.0
5232	63.444	63.395	-0.110	0.0	0.0	0.0
5256	63.444	63.392	-0.110	0.0	0.0	0.0
5280	63.444	63.389	-0.110	0.0	0.0	0.0
5304	63.444	63.386	-0.110	0.0	0.0	0.0
5328	63.444	63.383	-0.110	0.0	0.0	0.0
5352	63.444	63.380	-0.110	0.0	0.0	0.0
5376	63.444	63.377	-0.110	0.0	0.0	0.0
5400	63.444	63.375	-0.110	0.0	0.0	0.0
5424	63.444	63.372	-0.110	0.0	0.0	0.0
5448	63.444	63.370	-0.110	0.0	0.0	0.0
5472	63.444	63.368	-0.110	0.0	0.0	0.0
5496	63.444	63.366	-0.110	0.0	0.0	0.0
5520	63.444	63.364	-0.110	0.0	0.0	0.0
5544	63.444	63.361	-0.110	0.0	0.0	0.0
5568	63.444	63.355	-0.110	0.0	0.0	0.0
5592	63.444	63.351	-0.110	0.0	0.0	0.0
5616	63.444	63.348	-0.110	0.0	0.0	0.0
5640	63.444	63.345	-0.110	0.0	0.0	0.0
5664	63.444	63.342	-0.110	0.0	0.0	0.0
5688	63.444	63.338	-0.110	0.0	0.0	0.0
5712	63.444	63.335	-0.110	0.0	0.0	0.0
5736	63.444	63.332	-0.110	0.0	0.0	0.0
5760	63.444	63.329	-0.110	0.0	0.0	0.0
5784	63.444	63.326	-0.110	0.0	0.0	0.0
5808	63.444	63.323	-0.110	0.0	0.0	0.0
5832	63.444	63.320	-0.110	0.0	0.0	0.0
5856	63.444	63.317	-0.110	0.0	0.0	0.0
5880	63.444	63.314	-0.110	0.0	0.0	0.0
5904	63.444	63.311	-0.110	0.0	0.0	0.0
5928	63.444	63.308	-0.110	0.0	0.0	0.0
5952	63.444	63.304	-0.110	0.0	0.0	0.0
5976	63.444	63.301	-0.110	0.0	0.0	0.0
6000	63.444	63.298	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.444	63.294	-0.110	0.0	0.0	0.0
6048	63.444	63.291	-0.110	0.0	0.0	0.0
6072	63.444	63.288	-0.110	0.0	0.0	0.0
6096	63.444	63.284	-0.110	0.0	0.0	0.0
6120	63.444	63.281	-0.110	0.0	0.0	0.0
6144	63.444	63.277	-0.110	0.0	0.0	0.0
6168	63.444	63.274	-0.110	0.0	0.0	0.0
6192	63.444	63.271	-0.110	0.0	0.0	0.0
6216	63.444	63.269	-0.110	0.0	0.0	0.0
6240	63.444	63.266	-0.110	0.0	0.0	0.0
6264	63.444	63.264	-0.110	0.0	0.0	0.0
6288	63.444	63.263	-0.110	0.0	0.0	0.0
6312	63.444	63.262	-0.110	0.0	0.0	0.0
6336	63.444	63.261	-0.110	0.0	0.0	0.0
6360	63.444	63.260	-0.110	0.0	0.0	0.0
6384	63.444	63.259	-0.110	0.0	0.0	0.0
6408	63.444	63.258	-0.110	0.0	0.0	0.0
6432	63.444	63.258	-0.110	0.0	0.0	0.0
6456	63.444	63.257	-0.110	0.0	0.0	0.0
6480	63.444	63.257	-0.110	0.0	0.0	0.0
6504	63.444	63.256	-0.110	0.0	0.0	0.0
6528	63.444	63.256	-0.110	0.0	0.0	0.0
6552	63.444	63.256	-0.110	0.0	0.0	0.0
6576	63.444	63.255	-0.110	0.0	0.0	0.0
6600	63.444	63.255	-0.110	0.0	0.0	0.0
6624	63.444	63.255	-0.110	0.0	0.0	0.0
6648	63.444	63.255	-0.110	0.0	0.0	0.0
6672	63.444	63.255	-0.110	0.0	0.0	0.0
6696	63.444	63.254	-0.110	0.0	0.0	0.0
6720	63.444	63.254	-0.110	0.0	0.0	0.0
6744	63.444	63.254	-0.110	0.0	0.0	0.0
6768	63.444	63.254	-0.110	0.0	0.0	0.0
6792	63.444	63.254	-0.110	0.0	0.0	0.0
6816	63.444	63.254	-0.110	0.0	0.0	0.0
6840	63.444	63.253	-0.110	0.0	0.0	0.0
6864	63.444	63.253	-0.110	0.0	0.0	0.0
6888	63.444	63.253	-0.110	0.0	0.0	0.0
6912	63.444	63.253	-0.110	0.0	0.0	0.0
6936	63.444	63.253	-0.110	0.0	0.0	0.0
6960	63.444	63.253	-0.110	0.0	0.0	0.0
6984	63.444	63.253	-0.110	0.0	0.0	0.0
7008	63.444	63.253	-0.110	0.0	0.0	0.0
7032	63.444	63.253	-0.110	0.0	0.0	0.0
7056	63.444	63.253	-0.110	0.0	0.0	0.0
7080	63.444	63.253	-0.110	0.0	0.0	0.0
7104	63.444	63.253	-0.110	0.0	0.0	0.0
7128	63.444	63.252	-0.110	0.0	0.0	0.0
7152	63.444	63.252	-0.110	0.0	0.0	0.0
7176	63.444	63.252	-0.110	0.0	0.0	0.0
7200	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.252	-0.110	0.0	0.0	0.0
7248	63.444	63.252	-0.110	0.0	0.0	0.0
7272	63.444	63.252	-0.110	0.0	0.0	0.0
7296	63.444	63.252	-0.110	0.0	0.0	0.0
7320	63.444	63.252	-0.110	0.0	0.0	0.0
7344	63.444	63.252	-0.110	0.0	0.0	0.0
7368	63.444	63.252	-0.110	0.0	0.0	0.0
7392	63.444	63.252	-0.110	0.0	0.0	0.0
7416	63.444	63.252	-0.110	0.0	0.0	0.0
7440	63.444	63.252	-0.110	0.0	0.0	0.0
7464	63.444	63.252	-0.110	0.0	0.0	0.0
7488	63.444	63.252	-0.110	0.0	0.0	0.0
7512	63.444	63.252	-0.110	0.0	0.0	0.0
7536	63.444	63.252	-0.110	0.0	0.0	0.0
7560	63.444	63.252	-0.110	0.0	0.0	0.0
7584	63.444	63.252	-0.110	0.0	0.0	0.0
7608	63.444	63.252	-0.110	0.0	0.0	0.0
7632	63.444	63.252	-0.110	0.0	0.0	0.0
7656	63.444	63.252	-0.110	0.0	0.0	0.0
7680	63.444	63.252	-0.110	0.0	0.0	0.0
7704	63.444	63.252	-0.110	0.0	0.0	0.0
7728	63.444	63.251	-0.110	0.0	0.0	0.0
7752	63.444	63.251	-0.110	0.0	0.0	0.0
7776	63.444	63.251	-0.110	0.0	0.0	0.0
7800	63.444	63.251	-0.110	0.0	0.0	0.0
7824	63.444	63.251	-0.110	0.0	0.0	0.0
7848	63.444	63.251	-0.110	0.0	0.0	0.0
7872	63.444	63.251	-0.110	0.0	0.0	0.0
7896	63.444	63.251	-0.110	0.0	0.0	0.0
7920	63.444	63.251	-0.110	0.0	0.0	0.0
7944	63.444	63.251	-0.110	0.0	0.0	0.0
7968	63.444	63.251	-0.110	0.0	0.0	0.0
7992	63.444	63.251	-0.110	0.0	0.0	0.0
8016	63.444	63.251	-0.110	0.0	0.0	0.0
8040	63.444	63.251	-0.110	0.0	0.0	0.0
8064	63.444	63.251	-0.110	0.0	0.0	0.0
8088	63.444	63.251	-0.110	0.0	0.0	0.0
8112	63.444	63.251	-0.110	0.0	0.0	0.0
8136	63.444	63.251	-0.110	0.0	0.0	0.0
8160	63.444	63.251	-0.110	0.0	0.0	0.0
8184	63.444	63.251	-0.110	0.0	0.0	0.0
8208	63.444	63.251	-0.110	0.0	0.0	0.0
8232	63.444	63.251	-0.110	0.0	0.0	0.0
8256	63.444	63.251	-0.110	0.0	0.0	0.0
8280	63.444	63.251	-0.110	0.0	0.0	0.0
8304	63.444	63.251	-0.110	0.0	0.0	0.0
8328	63.444	63.251	-0.110	0.0	0.0	0.0
8352	63.444	63.251	-0.110	0.0	0.0	0.0
8376	63.444	63.251	-0.110	0.0	0.0	0.0
8400	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.251	-0.110	0.0	0.0	0.0
8448	63.444	63.251	-0.110	0.0	0.0	0.0
8472	63.444	63.251	-0.110	0.0	0.0	0.0
8496	63.444	63.251	-0.110	0.0	0.0	0.0
8520	63.444	63.251	-0.110	0.0	0.0	0.0
8544	63.444	63.251	-0.110	0.0	0.0	0.0
8568	63.444	63.251	-0.110	0.0	0.0	0.0
8592	63.444	63.251	-0.110	0.0	0.0	0.0
8616	63.444	63.251	-0.110	0.0	0.0	0.0
8640	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.250	63.100	-0.110	0.0	0.0	0.0
96	63.250	63.100	-0.110	0.0	0.0	0.0
120	63.251	63.100	-0.109	0.0	0.0	0.0
144	63.251	63.100	-0.109	0.0	0.0	0.0
168	63.251	63.100	-0.109	0.0	0.0	0.0
192	63.252	63.100	-0.108	0.0	0.0	0.0
216	63.253	63.101	-0.107	0.0	0.0	0.0
240	63.255	63.101	-0.105	0.0	0.0	0.0
264	63.256	63.103	-0.104	0.0	0.0	0.0
288	63.258	63.105	-0.102	0.0	0.0	0.0
312	63.259	63.107	-0.101	0.0	0.1	0.0
336	63.260	63.110	-0.100	0.0	0.1	0.0
360	63.261	63.113	-0.099	0.0	0.1	0.0
384	63.262	63.115	-0.098	0.0	0.1	0.0
408	63.263	63.118	-0.097	0.0	0.1	0.0
432	63.264	63.120	-0.096	0.0	0.1	0.0
456	63.264	63.122	-0.096	0.0	0.1	0.0
480	63.265	63.124	-0.095	0.0	0.1	0.0
504	63.265	63.126	-0.095	0.0	0.2	0.0
528	63.266	63.128	-0.094	0.0	0.2	0.0
552	63.266	63.129	-0.094	0.0	0.2	0.0
576	63.266	63.130	-0.094	0.0	0.2	0.0
600	63.266	63.131	-0.094	0.0	0.2	0.0
624	63.267	63.132	-0.093	0.0	0.2	0.0
648	63.267	63.133	-0.093	0.0	0.2	0.0
672	63.267	63.133	-0.093	0.0	0.2	0.0
696	63.267	63.134	-0.093	0.0	0.2	0.0
720	63.267	63.134	-0.093	0.0	0.2	0.0
744	63.267	63.135	-0.093	0.0	0.2	0.0
768	63.267	63.135	-0.093	0.0	0.2	0.0
792	63.267	63.135	-0.093	0.0	0.2	0.0
816	63.267	63.136	-0.093	0.0	0.2	0.0
840	63.267	63.136	-0.093	0.0	0.2	0.0
864	63.268	63.136	-0.092	0.0	0.2	0.0
888	63.268	63.136	-0.092	0.0	0.2	0.0
912	63.268	63.137	-0.092	0.0	0.2	0.0
936	63.268	63.137	-0.092	0.0	0.2	0.0
960	63.268	63.138	-0.092	0.0	0.2	0.0
984	63.268	63.138	-0.092	0.0	0.2	0.1
1008	63.269	63.139	-0.091	0.0	0.2	0.1
1032	63.269	63.140	-0.091	0.0	0.2	0.1
1056	63.269	63.141	-0.091	0.0	0.2	0.1
1080	63.270	63.142	-0.090	0.0	0.2	0.1
1104	63.270	63.143	-0.090	0.0	0.2	0.1
1128	63.270	63.144	-0.090	0.0	0.2	0.1
1152	63.271	63.145	-0.089	0.0	0.2	0.1
1176	63.271	63.147	-0.089	0.0	0.2	0.1
1200	63.272	63.148	-0.088	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.273	63.150	-0.087	0.0	0.2	0.1
1248	63.273	63.153	-0.087	0.0	0.2	0.1
1272	63.274	63.156	-0.086	0.0	0.2	0.1
1296	63.275	63.161	-0.085	0.0	0.3	0.1
1320	63.276	63.167	-0.084	0.0	0.3	0.1
1344	63.276	63.173	-0.084	0.0	0.3	0.1
1368	63.278	63.181	-0.082	0.0	0.3	0.1
1392	63.279	63.189	-0.081	0.0	0.3	0.1
1416	63.280	63.199	-0.080	0.0	0.3	0.1
1440	63.282	63.211	-0.078	0.0	0.3	0.1
1464	63.283	63.222	-0.077	0.0	0.3	0.1
1488	63.285	63.234	-0.075	0.0	0.3	0.1
1512	63.286	63.247	-0.074	0.0	0.3	0.1
1536	63.289	63.251	-0.071	0.0	0.2	0.1
1560	63.293	63.250	-0.067	0.0	0.2	0.1
1584	63.297	63.250	-0.063	0.0	0.2	0.1
1608	63.301	63.250	-0.059	0.0	0.2	0.1
1632	63.305	63.251	-0.055	0.0	0.2	0.1
1656	63.310	63.250	-0.050	0.0	0.2	0.1
1680	63.315	63.251	-0.045	0.0	0.2	0.1
1704	63.320	63.251	-0.040	0.0	0.2	0.1
1728	63.325	63.253	-0.035	0.0	0.3	0.1
1752	63.331	63.256	-0.029	0.0	0.3	0.1
1776	63.336	63.260	-0.024	0.0	0.3	0.1
1800	63.342	63.264	-0.018	0.0	0.3	0.1
1824	63.348	63.269	-0.012	0.0	0.3	0.1
1848	63.354	63.274	-0.006	0.0	0.3	0.1
1872	63.360	63.280	0.000	0.0	0.3	0.1
1896	63.369	63.266	0.009	0.0	0.2	0.0
1920	63.377	63.258	0.017	0.0	0.2	0.1
1944	63.385	63.255	0.025	0.0	0.2	0.1
1968	63.393	63.257	0.033	0.0	0.3	0.1
1992	63.400	63.263	0.040	0.0	0.3	0.1
2016	63.407	63.274	0.047	0.0	0.3	0.1
2040	63.414	63.289	0.054	0.0	0.3	0.1
2064	63.420	63.308	0.060	0.0	0.3	0.1
2088	63.427	63.332	0.067	0.0	0.3	0.1
2112	63.433	63.354	0.073	0.0	0.3	0.1
2136	63.440	63.369	0.080	0.0	0.3	0.1
2160	63.448	63.380	0.088	0.0	0.3	0.1
2184	63.455	63.390	0.095	0.0	0.3	0.1
2208	63.463	63.398	0.103	0.0	0.3	0.1
2232	63.470	63.406	0.110	0.0	0.2	0.1
2256	63.478	63.413	0.118	0.0	0.1	0.1
2280	63.485	63.421	0.125	0.0	0.1	0.1
2304	63.492	63.428	0.132	0.0	0.0	0.1
2328	63.499	63.435	0.139	0.0	0.0	0.1
2352	63.506	63.441	0.146	0.0	0.0	0.1
2376	63.512	63.448	0.152	0.0	0.0	0.1
2400	63.518	63.454	0.158	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.524	63.461	0.164	0.0	0.0	0.1
2448	63.530	63.466	0.170	0.0	0.0	0.1
2472	63.536	63.472	0.176	0.0	0.0	0.1
2496	63.541	63.478	0.181	0.0	0.0	0.1
2520	63.547	63.483	0.187	0.0	0.0	0.1
2544	63.552	63.488	0.192	0.0	0.0	0.1
2568	63.556	63.493	0.196	0.0	0.0	0.1
2592	63.560	63.497	0.200	0.0	0.0	0.1
2616	63.565	63.502	0.205	0.0	0.0	0.1
2640	63.569	63.506	0.209	0.0	0.0	0.1
2664	63.572	63.510	0.212	0.0	0.0	0.1
2688	63.576	63.514	0.216	0.0	0.0	0.1
2712	63.579	63.517	0.219	0.0	0.0	0.1
2736	63.582	63.521	0.222	0.0	0.0	0.1
2760	63.585	63.524	0.225	0.0	0.0	0.1
2784	63.588	63.527	0.228	0.0	0.0	0.1
2808	63.590	63.529	0.230	0.0	0.0	0.1
2832	63.592	63.532	0.232	0.0	0.0	0.1
2856	63.594	63.534	0.234	0.0	0.0	0.1
2880	63.596	63.536	0.236	0.0	0.0	0.1
2904	63.597	63.537	0.237	0.0	0.0	0.1
2928	63.598	63.539	0.238	0.0	0.0	0.1
2952	63.599	63.540	0.239	0.0	0.0	0.1
2976	63.600	63.541	0.240	0.0	0.0	0.1
3000	63.601	63.542	0.241	0.0	0.0	0.1
3024	63.602	63.543	0.242	0.0	0.0	0.1
3048	63.602	63.544	0.242	0.0	0.0	0.1
3072	63.602	63.544	0.242	0.0	0.0	0.1
3096	63.602	63.544	0.242	0.0	0.0	0.1
3120	63.602	63.544	0.242	0.0	0.0	0.1
3144	63.602	63.544	0.242	0.0	0.0	0.1
3168	63.601	63.544	0.241	0.0	0.0	0.1
3192	63.601	63.544	0.241	0.0	0.0	0.1
3216	63.600	63.543	0.240	0.0	0.0	0.1
3240	63.599	63.543	0.239	0.0	0.0	0.1
3264	63.598	63.542	0.238	0.0	0.0	0.1
3288	63.597	63.541	0.237	0.0	0.0	0.1
3312	63.596	63.540	0.236	0.0	0.0	0.1
3336	63.595	63.539	0.235	0.0	0.0	0.1
3360	63.594	63.538	0.234	0.0	0.0	0.1
3384	63.592	63.537	0.232	0.0	0.0	0.1
3408	63.591	63.536	0.231	0.0	0.0	0.1
3432	63.590	63.535	0.230	0.0	0.0	0.1
3456	63.588	63.533	0.228	0.0	0.0	0.1
3480	63.587	63.532	0.227	0.0	0.0	0.1
3504	63.585	63.530	0.225	0.0	0.0	0.1
3528	63.584	63.529	0.224	0.0	0.0	0.1
3552	63.582	63.528	0.222	0.0	0.0	0.1
3576	63.581	63.526	0.221	0.0	0.0	0.1
3600	63.579	63.525	0.219	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.578	63.523	0.218	0.0	0.0	0.1
3648	63.576	63.522	0.216	0.0	0.0	0.1
3672	63.574	63.520	0.214	0.0	0.0	0.1
3696	63.573	63.518	0.213	0.0	0.0	0.1
3720	63.571	63.517	0.211	0.0	0.0	0.1
3744	63.569	63.515	0.209	0.0	0.0	0.1
3768	63.568	63.514	0.208	0.0	0.0	0.1
3792	63.566	63.512	0.206	0.0	0.0	0.1
3816	63.565	63.511	0.205	0.0	0.0	0.1
3840	63.563	63.509	0.203	0.0	0.0	0.1
3864	63.561	63.508	0.201	0.0	0.0	0.1
3888	63.560	63.506	0.200	0.0	0.0	0.1
3912	63.558	63.505	0.198	0.0	0.0	0.1
3936	63.557	63.503	0.197	0.0	0.0	0.1
3960	63.555	63.501	0.195	0.0	0.0	0.1
3984	63.553	63.500	0.193	0.0	0.0	0.1
4008	63.552	63.498	0.192	0.0	0.0	0.1
4032	63.550	63.497	0.190	0.0	0.0	0.1
4056	63.548	63.495	0.188	0.0	0.0	0.1
4080	63.546	63.493	0.186	0.0	0.0	0.1
4104	63.545	63.492	0.185	0.0	0.0	0.1
4128	63.543	63.490	0.183	0.0	0.0	0.1
4152	63.540	63.488	0.180	0.0	0.0	0.1
4176	63.538	63.486	0.178	0.0	0.0	0.1
4200	63.536	63.484	0.176	0.0	0.0	0.1
4224	63.533	63.482	0.173	0.0	0.0	0.1
4248	63.531	63.479	0.171	0.0	0.0	0.1
4272	63.528	63.477	0.168	0.0	0.0	0.1
4296	63.525	63.474	0.165	0.0	0.0	0.1
4320	63.521	63.471	0.161	0.0	0.0	0.1
4344	63.518	63.468	0.158	0.0	0.0	0.1
4368	63.515	63.465	0.155	0.0	0.0	0.1
4392	63.511	63.462	0.151	0.0	0.0	0.1
4416	63.508	63.458	0.148	0.0	0.0	0.1
4440	63.505	63.455	0.145	0.0	0.0	0.1
4464	63.501	63.452	0.141	0.0	0.0	0.1
4488	63.498	63.449	0.138	0.0	0.0	0.1
4512	63.494	63.445	0.134	0.0	0.0	0.1
4536	63.491	63.442	0.131	0.0	0.0	0.1
4560	63.488	63.439	0.128	0.0	0.0	0.1
4584	63.485	63.436	0.125	0.0	0.0	0.1
4608	63.481	63.433	0.121	0.0	0.0	0.1
4632	63.478	63.430	0.118	0.0	0.0	0.1
4656	63.475	63.426	0.115	0.0	0.0	0.1
4680	63.471	63.423	0.111	0.0	0.0	0.1
4704	63.468	63.420	0.108	0.0	0.0	0.1
4728	63.465	63.417	0.105	0.0	0.0	0.1
4752	63.461	63.413	0.101	0.0	0.0	0.1
4776	63.457	63.410	0.097	0.0	0.1	0.1
4800	63.454	63.406	0.094	0.0	0.1	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.451	63.403	0.091	0.0	0.1	0.1
4848	63.447	63.400	0.087	0.0	0.1	0.1
4872	63.444	63.397	0.084	0.0	0.2	0.1
4896	63.441	63.394	0.081	0.0	0.2	0.1
4920	63.438	63.391	0.078	0.0	0.2	0.1
4944	63.435	63.388	0.075	0.0	0.2	0.1
4968	63.431	63.384	0.071	0.0	0.2	0.1
4992	63.428	63.381	0.068	0.0	0.2	0.1
5016	63.425	63.378	0.065	0.0	0.2	0.1
5040	63.421	63.375	0.061	0.0	0.2	0.1
5064	63.418	63.372	0.058	0.0	0.2	0.1
5088	63.415	63.368	0.055	0.0	0.2	0.1
5112	63.412	63.365	0.052	0.0	0.2	0.1
5136	63.408	63.362	0.048	0.0	0.2	0.1
5160	63.405	63.359	0.045	0.0	0.2	0.1
5184	63.402	63.356	0.042	0.0	0.2	0.1
5208	63.399	63.353	0.039	0.0	0.2	0.1
5232	63.395	63.350	0.035	0.0	0.2	0.1
5256	63.392	63.346	0.032	0.0	0.2	0.1
5280	63.389	63.342	0.029	0.0	0.2	0.1
5304	63.386	63.337	0.026	0.0	0.2	0.1
5328	63.383	63.332	0.023	0.0	0.2	0.1
5352	63.380	63.327	0.020	0.0	0.2	0.1
5376	63.377	63.321	0.017	0.0	0.2	0.1
5400	63.375	63.313	0.015	0.0	0.2	0.1
5424	63.372	63.303	0.012	0.0	0.2	0.1
5448	63.370	63.291	0.010	0.0	0.2	0.0
5472	63.368	63.279	0.008	0.0	0.2	0.0
5496	63.366	63.266	0.006	0.0	0.2	0.0
5520	63.364	63.253	0.004	0.0	0.2	0.0
5544	63.361	63.249	0.001	0.0	0.2	0.1
5568	63.355	63.267	-0.005	0.0	0.3	0.1
5592	63.351	63.274	-0.009	0.0	0.3	0.1
5616	63.348	63.277	-0.012	0.0	0.3	0.1
5640	63.345	63.277	-0.015	0.0	0.2	0.1
5664	63.342	63.277	-0.018	0.0	0.2	0.1
5688	63.338	63.275	-0.022	0.0	0.2	0.1
5712	63.335	63.273	-0.025	0.0	0.2	0.1
5736	63.332	63.270	-0.028	0.0	0.2	0.1
5760	63.329	63.268	-0.031	0.0	0.2	0.1
5784	63.326	63.265	-0.034	0.0	0.2	0.1
5808	63.323	63.262	-0.037	0.0	0.2	0.1
5832	63.320	63.259	-0.040	0.0	0.2	0.1
5856	63.317	63.257	-0.043	0.0	0.2	0.1
5880	63.314	63.254	-0.046	0.0	0.2	0.1
5904	63.311	63.251	-0.049	0.0	0.2	0.1
5928	63.308	63.253	-0.052	0.0	0.2	0.1
5952	63.304	63.253	-0.056	0.0	0.2	0.1
5976	63.301	63.251	-0.059	0.0	0.2	0.1
6000	63.298	63.251	-0.062	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.294	63.250	-0.066	0.0	0.2	0.1
6048	63.291	63.250	-0.069	0.0	0.2	0.1
6072	63.288	63.250	-0.072	0.0	0.2	0.1
6096	63.284	63.250	-0.076	0.0	0.2	0.1
6120	63.281	63.249	-0.079	0.0	0.2	0.1
6144	63.277	63.249	-0.083	0.0	0.2	0.1
6168	63.274	63.250	-0.086	0.0	0.2	0.1
6192	63.271	63.247	-0.089	0.0	0.2	0.1
6216	63.269	63.243	-0.091	0.0	0.2	0.1
6240	63.266	63.234	-0.094	0.0	0.2	0.0
6264	63.264	63.220	-0.096	0.0	0.2	0.0
6288	63.263	63.205	-0.097	0.0	0.1	0.0
6312	63.262	63.189	-0.098	0.0	0.1	0.0
6336	63.261	63.171	-0.099	0.0	0.1	0.0
6360	63.260	63.152	-0.100	0.0	0.1	0.0
6384	63.259	63.135	-0.101	0.0	0.1	0.0
6408	63.258	63.125	-0.102	0.0	0.1	0.0
6432	63.258	63.118	-0.102	0.0	0.0	0.0
6456	63.257	63.114	-0.103	0.0	0.0	0.0
6480	63.257	63.112	-0.103	0.0	0.0	0.0
6504	63.256	63.109	-0.104	0.0	0.0	0.0
6528	63.256	63.108	-0.104	0.0	0.0	0.0
6552	63.256	63.107	-0.104	0.0	0.0	0.0
6576	63.255	63.106	-0.105	0.0	0.0	0.0
6600	63.255	63.105	-0.105	0.0	0.0	0.0
6624	63.255	63.105	-0.105	0.0	0.0	0.0
6648	63.255	63.104	-0.105	0.0	0.0	0.0
6672	63.255	63.104	-0.105	0.0	0.0	0.0
6696	63.254	63.103	-0.106	0.0	0.0	0.0
6720	63.254	63.103	-0.106	0.0	0.0	0.0
6744	63.254	63.103	-0.106	0.0	0.0	0.0
6768	63.254	63.103	-0.106	0.0	0.0	0.0
6792	63.254	63.102	-0.106	0.0	0.0	0.0
6816	63.254	63.102	-0.106	0.0	0.0	0.0
6840	63.253	63.102	-0.107	0.0	0.0	0.0
6864	63.253	63.102	-0.107	0.0	0.0	0.0
6888	63.253	63.102	-0.107	0.0	0.0	0.0
6912	63.253	63.102	-0.107	0.0	0.0	0.0
6936	63.253	63.102	-0.107	0.0	0.0	0.0
6960	63.253	63.102	-0.107	0.0	0.0	0.0
6984	63.253	63.101	-0.107	0.0	0.0	0.0
7008	63.253	63.101	-0.107	0.0	0.0	0.0
7032	63.253	63.101	-0.107	0.0	0.0	0.0
7056	63.253	63.101	-0.107	0.0	0.0	0.0
7080	63.253	63.101	-0.107	0.0	0.0	0.0
7104	63.253	63.101	-0.107	0.0	0.0	0.0
7128	63.252	63.101	-0.108	0.0	0.0	0.0
7152	63.252	63.101	-0.108	0.0	0.0	0.0
7176	63.252	63.101	-0.108	0.0	0.0	0.0
7200	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.252	63.101	-0.108	0.0	0.0	0.0
7248	63.252	63.101	-0.108	0.0	0.0	0.0
7272	63.252	63.101	-0.108	0.0	0.0	0.0
7296	63.252	63.101	-0.108	0.0	0.0	0.0
7320	63.252	63.101	-0.108	0.0	0.0	0.0
7344	63.252	63.101	-0.108	0.0	0.0	0.0
7368	63.252	63.101	-0.108	0.0	0.0	0.0
7392	63.252	63.101	-0.108	0.0	0.0	0.0
7416	63.252	63.101	-0.108	0.0	0.0	0.0
7440	63.252	63.101	-0.108	0.0	0.0	0.0
7464	63.252	63.101	-0.108	0.0	0.0	0.0
7488	63.252	63.101	-0.108	0.0	0.0	0.0
7512	63.252	63.101	-0.108	0.0	0.0	0.0
7536	63.252	63.101	-0.108	0.0	0.0	0.0
7560	63.252	63.101	-0.108	0.0	0.0	0.0
7584	63.252	63.101	-0.108	0.0	0.0	0.0
7608	63.252	63.101	-0.108	0.0	0.0	0.0
7632	63.252	63.101	-0.108	0.0	0.0	0.0
7656	63.252	63.101	-0.108	0.0	0.0	0.0
7680	63.252	63.100	-0.108	0.0	0.0	0.0
7704	63.252	63.100	-0.108	0.0	0.0	0.0
7728	63.251	63.100	-0.109	0.0	0.0	0.0
7752	63.251	63.100	-0.109	0.0	0.0	0.0
7776	63.251	63.100	-0.109	0.0	0.0	0.0
7800	63.251	63.100	-0.109	0.0	0.0	0.0
7824	63.251	63.100	-0.109	0.0	0.0	0.0
7848	63.251	63.100	-0.109	0.0	0.0	0.0
7872	63.251	63.100	-0.109	0.0	0.0	0.0
7896	63.251	63.100	-0.109	0.0	0.0	0.0
7920	63.251	63.100	-0.109	0.0	0.0	0.0
7944	63.251	63.100	-0.109	0.0	0.0	0.0
7968	63.251	63.100	-0.109	0.0	0.0	0.0
7992	63.251	63.100	-0.109	0.0	0.0	0.0
8016	63.251	63.100	-0.109	0.0	0.0	0.0
8040	63.251	63.100	-0.109	0.0	0.0	0.0
8064	63.251	63.100	-0.109	0.0	0.0	0.0
8088	63.251	63.100	-0.109	0.0	0.0	0.0
8112	63.251	63.100	-0.109	0.0	0.0	0.0
8136	63.251	63.100	-0.109	0.0	0.0	0.0
8160	63.251	63.100	-0.109	0.0	0.0	0.0
8184	63.251	63.100	-0.109	0.0	0.0	0.0
8208	63.251	63.100	-0.109	0.0	0.0	0.0
8232	63.251	63.100	-0.109	0.0	0.0	0.0
8256	63.251	63.100	-0.109	0.0	0.0	0.0
8280	63.251	63.100	-0.109	0.0	0.0	0.0
8304	63.251	63.100	-0.109	0.0	0.0	0.0
8328	63.251	63.100	-0.109	0.0	0.0	0.0
8352	63.251	63.100	-0.109	0.0	0.0	0.0
8376	63.251	63.100	-0.109	0.0	0.0	0.0
8400	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.251	63.100	-0.109	0.0	0.0	0.0
8448	63.251	63.100	-0.109	0.0	0.0	0.0
8472	63.251	63.100	-0.109	0.0	0.0	0.0
8496	63.251	63.100	-0.109	0.0	0.0	0.0
8520	63.251	63.100	-0.109	0.0	0.0	0.0
8544	63.251	63.100	-0.109	0.0	0.0	0.0
8568	63.251	63.100	-0.109	0.0	0.0	0.0
8592	63.251	63.100	-0.109	0.0	0.0	0.0
8616	63.251	63.100	-0.109	0.0	0.0	0.0
8640	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.100	63.096	-0.110	0.0	0.0	0.0
144	63.100	63.096	-0.110	0.0	0.0	0.0
168	63.100	63.096	-0.110	0.0	0.0	0.0
192	63.100	63.096	-0.110	0.0	0.0	0.0
216	63.101	63.096	-0.109	0.0	0.0	0.0
240	63.101	63.096	-0.109	0.0	0.0	0.0
264	63.103	63.096	-0.107	0.0	0.0	0.0
288	63.105	63.096	-0.105	0.0	0.0	0.0
312	63.107	63.096	-0.103	0.0	0.0	0.0
336	63.110	63.096	-0.100	0.0	0.0	0.0
360	63.113	63.096	-0.097	0.0	0.0	0.0
384	63.115	63.096	-0.095	0.0	0.0	0.0
408	63.118	63.096	-0.092	0.0	0.0	0.0
432	63.120	63.096	-0.090	0.0	0.0	0.0
456	63.122	63.096	-0.088	0.0	0.0	0.0
480	63.124	63.096	-0.086	0.0	0.0	0.0
504	63.126	63.096	-0.084	0.0	0.0	0.0
528	63.128	63.096	-0.082	0.0	0.0	0.0
552	63.129	63.096	-0.081	0.0	0.0	0.0
576	63.130	63.096	-0.080	0.0	0.0	0.0
600	63.131	63.096	-0.079	0.0	0.0	0.0
624	63.132	63.096	-0.078	0.0	0.0	0.0
648	63.133	63.096	-0.077	0.0	0.0	0.0
672	63.133	63.096	-0.077	0.0	0.0	0.0
696	63.134	63.096	-0.076	0.0	0.0	0.0
720	63.134	63.096	-0.076	0.0	0.0	0.0
744	63.135	63.096	-0.075	0.0	0.0	0.0
768	63.135	63.096	-0.075	0.0	0.0	0.0
792	63.135	63.096	-0.075	0.0	0.0	0.0
816	63.136	63.096	-0.074	0.0	0.0	0.0
840	63.136	63.096	-0.074	0.0	0.0	0.0
864	63.136	63.096	-0.074	0.0	0.0	0.0
888	63.136	63.096	-0.074	0.0	0.0	0.0
912	63.137	63.096	-0.073	0.0	0.0	0.0
936	63.137	63.096	-0.073	0.0	0.0	0.0
960	63.138	63.096	-0.072	0.0	0.0	0.0
984	63.138	63.096	-0.072	0.0	0.0	0.0
1008	63.139	63.096	-0.071	0.0	0.0	0.0
1032	63.140	63.096	-0.070	0.0	0.0	0.0
1056	63.141	63.096	-0.069	0.0	0.0	0.0
1080	63.142	63.096	-0.068	0.0	0.0	0.0
1104	63.143	63.096	-0.067	0.0	0.0	0.0
1128	63.144	63.096	-0.066	0.0	0.0	0.0
1152	63.145	63.096	-0.065	0.0	0.0	0.0
1176	63.147	63.096	-0.063	0.0	0.0	0.0
1200	63.148	63.096	-0.062	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.150	63.096	-0.060	0.0	0.0	0.0
1248	63.153	63.096	-0.057	0.0	0.0	0.0
1272	63.156	63.096	-0.054	0.0	0.0	0.0
1296	63.161	63.096	-0.049	0.0	0.0	0.0
1320	63.167	63.096	-0.043	0.0	0.0	0.0
1344	63.173	63.096	-0.037	0.0	0.0	0.0
1368	63.181	63.096	-0.029	0.0	0.0	0.0
1392	63.189	63.096	-0.021	0.0	0.0	0.0
1416	63.199	63.096	-0.011	0.0	0.0	0.0
1440	63.211	63.096	0.001	0.0	0.0	0.0
1464	63.222	63.096	0.012	0.0	0.0	0.0
1488	63.234	63.096	0.024	0.0	0.0	0.0
1512	63.247	63.096	0.037	0.0	0.0	0.0
1536	63.251	63.096	0.041	0.0	0.0	0.0
1560	63.250	63.096	0.040	0.0	0.0	0.0
1584	63.250	63.096	0.040	0.0	0.0	0.0
1608	63.250	63.096	0.040	0.0	0.0	0.0
1632	63.251	63.096	0.041	0.0	0.0	0.0
1656	63.250	63.096	0.040	0.0	0.0	0.0
1680	63.251	63.096	0.041	0.0	0.0	0.0
1704	63.251	63.096	0.041	0.0	0.0	0.0
1728	63.253	63.096	0.043	0.0	0.0	0.0
1752	63.256	63.096	0.046	0.0	0.0	0.0
1776	63.260	63.096	0.050	0.0	0.0	0.0
1800	63.264	63.096	0.054	0.0	0.0	0.0
1824	63.269	63.096	0.059	0.0	0.0	0.0
1848	63.274	63.096	0.064	0.0	0.0	0.0
1872	63.280	63.096	0.070	0.0	0.0	0.0
1896	63.266	63.096	0.056	0.0	0.0	0.0
1920	63.258	63.096	0.048	0.0	0.0	0.0
1944	63.255	63.096	0.045	0.0	0.0	0.0
1968	63.257	63.096	0.047	0.0	0.0	0.0
1992	63.263	63.096	0.053	0.0	0.0	0.0
2016	63.274	63.096	0.064	0.0	0.0	0.0
2040	63.289	63.096	0.079	0.0	0.0	0.0
2064	63.308	63.096	0.098	0.0	0.0	0.0
2088	63.332	63.096	0.122	0.0	0.0	0.0
2112	63.354	63.096	0.144	0.0	0.1	0.0
2136	63.369	63.096	0.159	0.0	0.1	0.0
2160	63.380	63.096	0.170	0.0	0.1	0.0
2184	63.390	63.096	0.180	0.0	0.1	0.0
2208	63.398	63.096	0.188	0.0	0.1	0.0
2232	63.406	63.096	0.196	0.0	0.1	0.0
2256	63.413	63.096	0.203	0.0	0.1	0.0
2280	63.421	63.096	0.211	0.0	0.1	0.0
2304	63.428	63.096	0.218	0.0	0.1	0.0
2328	63.435	63.096	0.225	0.0	0.1	0.0
2352	63.441	63.096	0.231	0.0	0.1	0.0
2376	63.448	63.096	0.238	0.0	0.1	0.0
2400	63.454	63.096	0.244	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.461	63.096	0.251	0.0	0.1	0.0
2448	63.466	63.096	0.256	0.0	0.1	0.0
2472	63.472	63.096	0.262	0.0	0.1	0.0
2496	63.478	63.096	0.268	0.0	0.1	0.0
2520	63.483	63.096	0.273	0.0	0.1	0.0
2544	63.488	63.096	0.278	0.0	0.1	0.0
2568	63.493	63.096	0.283	0.0	0.1	0.0
2592	63.497	63.096	0.287	0.0	0.1	0.0
2616	63.502	63.096	0.292	0.0	0.1	0.0
2640	63.506	63.096	0.296	0.0	0.1	0.0
2664	63.510	63.096	0.300	0.0	0.1	0.0
2688	63.514	63.096	0.304	0.0	0.1	0.0
2712	63.517	63.096	0.307	0.0	0.1	0.0
2736	63.521	63.096	0.311	0.0	0.1	0.0
2760	63.524	63.096	0.314	0.0	0.1	0.0
2784	63.527	63.096	0.317	0.0	0.1	0.0
2808	63.529	63.096	0.319	0.0	0.1	0.0
2832	63.532	63.096	0.322	0.0	0.1	0.0
2856	63.534	63.096	0.324	0.0	0.1	0.0
2880	63.536	63.096	0.326	0.0	0.1	0.0
2904	63.537	63.096	0.327	0.0	0.1	0.0
2928	63.539	63.096	0.329	0.0	0.1	0.0
2952	63.540	63.096	0.330	0.0	0.1	0.0
2976	63.541	63.096	0.331	0.0	0.1	0.0
3000	63.542	63.096	0.332	0.0	0.1	0.0
3024	63.543	63.096	0.333	0.0	0.1	0.0
3048	63.544	63.096	0.334	0.0	0.1	0.0
3072	63.544	63.096	0.334	0.0	0.1	0.0
3096	63.544	63.096	0.334	0.0	0.1	0.0
3120	63.544	63.096	0.334	0.0	0.1	0.0
3144	63.544	63.096	0.334	0.0	0.1	0.0
3168	63.544	63.096	0.334	0.0	0.1	0.0
3192	63.544	63.096	0.334	0.0	0.1	0.0
3216	63.543	63.096	0.333	0.0	0.1	0.0
3240	63.543	63.096	0.333	0.0	0.1	0.0
3264	63.542	63.096	0.332	0.0	0.1	0.0
3288	63.541	63.096	0.331	0.0	0.1	0.0
3312	63.540	63.096	0.330	0.0	0.1	0.0
3336	63.539	63.096	0.329	0.0	0.1	0.0
3360	63.538	63.096	0.328	0.0	0.1	0.0
3384	63.537	63.096	0.327	0.0	0.1	0.0
3408	63.536	63.096	0.326	0.0	0.1	0.0
3432	63.535	63.096	0.325	0.0	0.1	0.0
3456	63.533	63.096	0.323	0.0	0.1	0.0
3480	63.532	63.096	0.322	0.0	0.1	0.0
3504	63.530	63.096	0.320	0.0	0.1	0.0
3528	63.529	63.096	0.319	0.0	0.1	0.0
3552	63.528	63.096	0.318	0.0	0.1	0.0
3576	63.526	63.096	0.316	0.0	0.1	0.0
3600	63.525	63.096	0.315	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.523	63.096	0.313	0.0	0.1	0.0
3648	63.522	63.096	0.312	0.0	0.1	0.0
3672	63.520	63.096	0.310	0.0	0.1	0.0
3696	63.518	63.096	0.308	0.0	0.1	0.0
3720	63.517	63.096	0.307	0.0	0.1	0.0
3744	63.515	63.096	0.305	0.0	0.1	0.0
3768	63.514	63.096	0.304	0.0	0.1	0.0
3792	63.512	63.096	0.302	0.0	0.1	0.0
3816	63.511	63.096	0.301	0.0	0.1	0.0
3840	63.509	63.096	0.299	0.0	0.1	0.0
3864	63.508	63.096	0.298	0.0	0.1	0.0
3888	63.506	63.096	0.296	0.0	0.1	0.0
3912	63.505	63.096	0.295	0.0	0.1	0.0
3936	63.503	63.096	0.293	0.0	0.1	0.0
3960	63.501	63.096	0.291	0.0	0.1	0.0
3984	63.500	63.096	0.290	0.0	0.1	0.0
4008	63.498	63.096	0.288	0.0	0.1	0.0
4032	63.497	63.096	0.287	0.0	0.1	0.0
4056	63.495	63.096	0.285	0.0	0.1	0.0
4080	63.493	63.096	0.283	0.0	0.1	0.0
4104	63.492	63.096	0.282	0.0	0.1	0.0
4128	63.490	63.096	0.280	0.0	0.1	0.0
4152	63.488	63.096	0.278	0.0	0.1	0.0
4176	63.486	63.096	0.276	0.0	0.1	0.0
4200	63.484	63.096	0.274	0.0	0.1	0.0
4224	63.482	63.096	0.272	0.0	0.1	0.0
4248	63.479	63.096	0.269	0.0	0.1	0.0
4272	63.477	63.096	0.267	0.0	0.1	0.0
4296	63.474	63.096	0.264	0.0	0.1	0.0
4320	63.471	63.096	0.261	0.0	0.1	0.0
4344	63.468	63.096	0.258	0.0	0.1	0.0
4368	63.465	63.096	0.255	0.0	0.1	0.0
4392	63.462	63.096	0.252	0.0	0.1	0.0
4416	63.458	63.096	0.248	0.0	0.1	0.0
4440	63.455	63.096	0.245	0.0	0.1	0.0
4464	63.452	63.096	0.242	0.0	0.1	0.0
4488	63.449	63.096	0.239	0.0	0.1	0.0
4512	63.445	63.096	0.235	0.0	0.1	0.0
4536	63.442	63.096	0.232	0.0	0.1	0.0
4560	63.439	63.096	0.229	0.0	0.1	0.0
4584	63.436	63.096	0.226	0.0	0.1	0.0
4608	63.433	63.096	0.223	0.0	0.1	0.0
4632	63.430	63.096	0.220	0.0	0.1	0.0
4656	63.426	63.096	0.216	0.0	0.1	0.0
4680	63.423	63.096	0.213	0.0	0.1	0.0
4704	63.420	63.096	0.210	0.0	0.1	0.0
4728	63.417	63.096	0.207	0.0	0.1	0.0
4752	63.413	63.096	0.203	0.0	0.1	0.0
4776	63.410	63.096	0.200	0.0	0.1	0.0
4800	63.406	63.096	0.196	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.403	63.096	0.193	0.0	0.1	0.0
4848	63.400	63.096	0.190	0.0	0.1	0.0
4872	63.397	63.096	0.187	0.0	0.1	0.0
4896	63.394	63.096	0.184	0.0	0.1	0.0
4920	63.391	63.096	0.181	0.0	0.1	0.0
4944	63.388	63.096	0.178	0.0	0.1	0.0
4968	63.384	63.096	0.174	0.0	0.1	0.0
4992	63.381	63.096	0.171	0.0	0.1	0.0
5016	63.378	63.096	0.168	0.0	0.1	0.0
5040	63.375	63.096	0.165	0.0	0.1	0.0
5064	63.372	63.096	0.162	0.0	0.1	0.0
5088	63.368	63.096	0.158	0.0	0.1	0.0
5112	63.365	63.096	0.155	0.0	0.1	0.0
5136	63.362	63.096	0.152	0.0	0.1	0.0
5160	63.359	63.096	0.149	0.0	0.1	0.0
5184	63.356	63.096	0.146	0.0	0.1	0.0
5208	63.353	63.096	0.143	0.0	0.1	0.0
5232	63.350	63.096	0.140	0.0	0.1	0.0
5256	63.346	63.096	0.136	0.0	0.1	0.0
5280	63.342	63.096	0.132	0.0	0.1	0.0
5304	63.337	63.096	0.127	0.0	0.1	0.0
5328	63.332	63.096	0.122	0.0	0.1	0.0
5352	63.327	63.096	0.117	0.0	0.1	0.0
5376	63.321	63.096	0.111	0.0	0.0	0.0
5400	63.313	63.096	0.103	0.0	0.0	0.0
5424	63.303	63.096	0.093	0.0	0.0	0.0
5448	63.291	63.096	0.081	0.0	0.0	0.0
5472	63.279	63.096	0.069	0.0	0.0	0.0
5496	63.266	63.096	0.056	0.0	0.0	0.0
5520	63.253	63.096	0.043	0.0	0.0	0.0
5544	63.249	63.096	0.039	0.0	0.0	0.0
5568	63.267	63.096	0.057	0.0	0.0	0.0
5592	63.274	63.096	0.064	0.0	0.0	0.0
5616	63.277	63.096	0.067	0.0	0.0	0.0
5640	63.277	63.096	0.067	0.0	0.0	0.0
5664	63.277	63.096	0.067	0.0	0.0	0.0
5688	63.275	63.096	0.065	0.0	0.0	0.0
5712	63.273	63.096	0.063	0.0	0.0	0.0
5736	63.270	63.096	0.060	0.0	0.0	0.0
5760	63.268	63.096	0.058	0.0	0.0	0.0
5784	63.265	63.096	0.055	0.0	0.0	0.0
5808	63.262	63.096	0.052	0.0	0.0	0.0
5832	63.259	63.096	0.049	0.0	0.0	0.0
5856	63.257	63.096	0.047	0.0	0.0	0.0
5880	63.254	63.096	0.044	0.0	0.0	0.0
5904	63.251	63.096	0.041	0.0	0.0	0.0
5928	63.253	63.096	0.043	0.0	0.0	0.0
5952	63.253	63.096	0.043	0.0	0.0	0.0
5976	63.251	63.096	0.041	0.0	0.0	0.0
6000	63.251	63.096	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.250	63.096	0.040	0.0	0.0	0.0
6048	63.250	63.096	0.040	0.0	0.0	0.0
6072	63.250	63.096	0.040	0.0	0.0	0.0
6096	63.250	63.096	0.040	0.0	0.0	0.0
6120	63.249	63.096	0.039	0.0	0.0	0.0
6144	63.249	63.096	0.039	0.0	0.0	0.0
6168	63.250	63.096	0.040	0.0	0.0	0.0
6192	63.247	63.096	0.037	0.0	0.0	0.0
6216	63.243	63.096	0.033	0.0	0.0	0.0
6240	63.234	63.096	0.024	0.0	0.0	0.0
6264	63.220	63.096	0.010	0.0	0.0	0.0
6288	63.205	63.096	-0.005	0.0	0.0	0.0
6312	63.189	63.096	-0.021	0.0	0.0	0.0
6336	63.171	63.096	-0.039	0.0	0.0	0.0
6360	63.152	63.096	-0.058	0.0	0.0	0.0
6384	63.135	63.096	-0.075	0.0	0.0	0.0
6408	63.125	63.096	-0.085	0.0	0.0	0.0
6432	63.118	63.096	-0.092	0.0	0.0	0.0
6456	63.114	63.096	-0.096	0.0	0.0	0.0
6480	63.112	63.096	-0.098	0.0	0.0	0.0
6504	63.109	63.096	-0.101	0.0	0.0	0.0
6528	63.108	63.096	-0.102	0.0	0.0	0.0
6552	63.107	63.096	-0.103	0.0	0.0	0.0
6576	63.106	63.096	-0.104	0.0	0.0	0.0
6600	63.105	63.096	-0.105	0.0	0.0	0.0
6624	63.105	63.096	-0.105	0.0	0.0	0.0
6648	63.104	63.096	-0.106	0.0	0.0	0.0
6672	63.104	63.096	-0.106	0.0	0.0	0.0
6696	63.103	63.096	-0.107	0.0	0.0	0.0
6720	63.103	63.096	-0.107	0.0	0.0	0.0
6744	63.103	63.096	-0.107	0.0	0.0	0.0
6768	63.103	63.096	-0.107	0.0	0.0	0.0
6792	63.102	63.096	-0.108	0.0	0.0	0.0
6816	63.102	63.096	-0.108	0.0	0.0	0.0
6840	63.102	63.096	-0.108	0.0	0.0	0.0
6864	63.102	63.096	-0.108	0.0	0.0	0.0
6888	63.102	63.096	-0.108	0.0	0.0	0.0
6912	63.102	63.096	-0.108	0.0	0.0	0.0
6936	63.102	63.096	-0.108	0.0	0.0	0.0
6960	63.102	63.096	-0.108	0.0	0.0	0.0
6984	63.101	63.096	-0.109	0.0	0.0	0.0
7008	63.101	63.096	-0.109	0.0	0.0	0.0
7032	63.101	63.096	-0.109	0.0	0.0	0.0
7056	63.101	63.096	-0.109	0.0	0.0	0.0
7080	63.101	63.096	-0.109	0.0	0.0	0.0
7104	63.101	63.096	-0.109	0.0	0.0	0.0
7128	63.101	63.096	-0.109	0.0	0.0	0.0
7152	63.101	63.096	-0.109	0.0	0.0	0.0
7176	63.101	63.096	-0.109	0.0	0.0	0.0
7200	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.101	63.096	-0.109	0.0	0.0	0.0
7248	63.101	63.096	-0.109	0.0	0.0	0.0
7272	63.101	63.096	-0.109	0.0	0.0	0.0
7296	63.101	63.096	-0.109	0.0	0.0	0.0
7320	63.101	63.096	-0.109	0.0	0.0	0.0
7344	63.101	63.096	-0.109	0.0	0.0	0.0
7368	63.101	63.096	-0.109	0.0	0.0	0.0
7392	63.101	63.096	-0.109	0.0	0.0	0.0
7416	63.101	63.096	-0.109	0.0	0.0	0.0
7440	63.101	63.096	-0.109	0.0	0.0	0.0
7464	63.101	63.096	-0.109	0.0	0.0	0.0
7488	63.101	63.096	-0.109	0.0	0.0	0.0
7512	63.101	63.096	-0.109	0.0	0.0	0.0
7536	63.101	63.096	-0.109	0.0	0.0	0.0
7560	63.101	63.096	-0.109	0.0	0.0	0.0
7584	63.101	63.096	-0.109	0.0	0.0	0.0
7608	63.101	63.096	-0.109	0.0	0.0	0.0
7632	63.101	63.096	-0.109	0.0	0.0	0.0
7656	63.101	63.096	-0.109	0.0	0.0	0.0
7680	63.100	63.096	-0.110	0.0	0.0	0.0
7704	63.100	63.096	-0.110	0.0	0.0	0.0
7728	63.100	63.096	-0.110	0.0	0.0	0.0
7752	63.100	63.096	-0.110	0.0	0.0	0.0
7776	63.100	63.096	-0.110	0.0	0.0	0.0
7800	63.100	63.096	-0.110	0.0	0.0	0.0
7824	63.100	63.096	-0.110	0.0	0.0	0.0
7848	63.100	63.096	-0.110	0.0	0.0	0.0
7872	63.100	63.096	-0.110	0.0	0.0	0.0
7896	63.100	63.096	-0.110	0.0	0.0	0.0
7920	63.100	63.096	-0.110	0.0	0.0	0.0
7944	63.100	63.096	-0.110	0.0	0.0	0.0
7968	63.100	63.096	-0.110	0.0	0.0	0.0
7992	63.100	63.096	-0.110	0.0	0.0	0.0
8016	63.100	63.096	-0.110	0.0	0.0	0.0
8040	63.100	63.096	-0.110	0.0	0.0	0.0
8064	63.100	63.096	-0.110	0.0	0.0	0.0
8088	63.100	63.096	-0.110	0.0	0.0	0.0
8112	63.100	63.096	-0.110	0.0	0.0	0.0
8136	63.100	63.096	-0.110	0.0	0.0	0.0
8160	63.100	63.096	-0.110	0.0	0.0	0.0
8184	63.100	63.096	-0.110	0.0	0.0	0.0
8208	63.100	63.096	-0.110	0.0	0.0	0.0
8232	63.100	63.096	-0.110	0.0	0.0	0.0
8256	63.100	63.096	-0.110	0.0	0.0	0.0
8280	63.100	63.096	-0.110	0.0	0.0	0.0
8304	63.100	63.096	-0.110	0.0	0.0	0.0
8328	63.100	63.096	-0.110	0.0	0.0	0.0
8352	63.100	63.096	-0.110	0.0	0.0	0.0
8376	63.100	63.096	-0.110	0.0	0.0	0.0
8400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
4320 minute 100 year Winter
Average Rainfall Intensity 1.617 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.100	63.096	-0.110	0.0	0.0	0.0
8448	63.100	63.096	-0.110	0.0	0.0	0.0
8472	63.100	63.096	-0.110	0.0	0.0	0.0
8496	63.100	63.096	-0.110	0.0	0.0	0.0
8520	63.100	63.096	-0.110	0.0	0.0	0.0
8544	63.100	63.096	-0.110	0.0	0.0	0.0
8568	63.100	63.096	-0.110	0.0	0.0	0.0
8592	63.100	63.096	-0.110	0.0	0.0	0.0
8616	63.100	63.096	-0.110	0.0	0.0	0.0
8640	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	11520
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	5760
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 5760 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.402	-0.108	0.000	0.00	0.0	0.1	OK
1.001	S1	63.588	-0.016	0.000	0.02	0.0	0.2	OK
2.000	RE2	65.402	-0.108	0.000	0.00	0.0	0.1	OK
2.001	S2	65.003	-0.107	0.000	0.01	0.0	0.2	OK
1.002	S3	63.588	0.034	0.000	0.05	0.0	0.3	SURCHARGED
1.003	S4	63.588	0.228	0.000	0.03	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.531	0.321	0.000	0.00	0.0	0.0	SURCHARGED

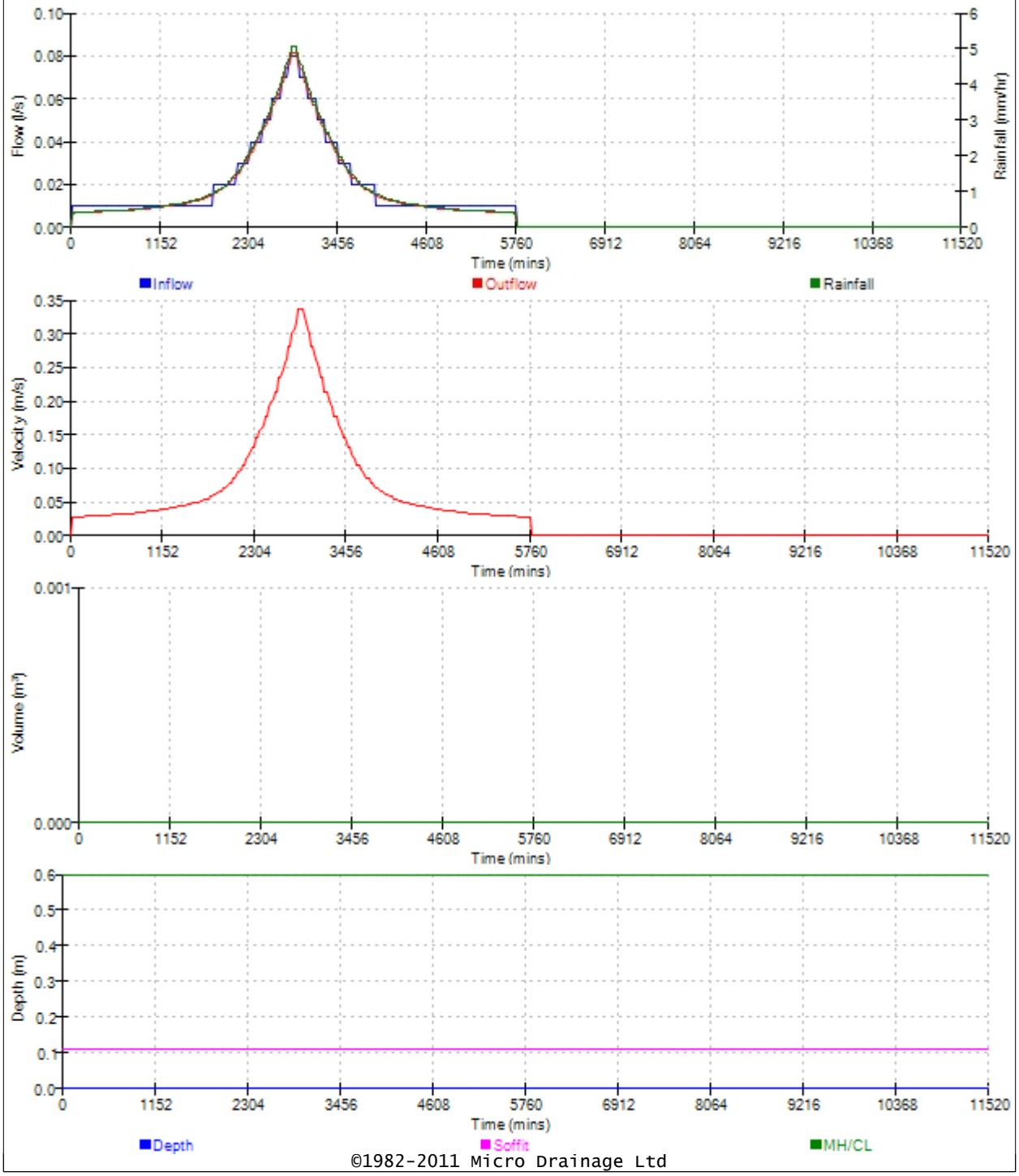
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Rainfall Hyetograph for 5760 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.412	1176	0.592	2328	2.188	3480	1.957	4632	0.579
48	0.412	1200	0.592	2352	2.188	3504	1.957	4656	0.579
72	0.420	1224	0.608	2376	2.327	3528	1.833	4680	0.572
96	0.425	1248	0.618	2400	2.420	3552	1.751	4704	0.566
120	0.425	1272	0.620	2424	2.471	3576	1.717	4728	0.564
144	0.425	1296	0.631	2448	2.677	3600	1.583	4752	0.553
168	0.425	1320	0.631	2472	2.677	3624	1.583	4776	0.553
192	0.435	1344	0.651	2496	2.883	3648	1.449	4800	0.543
216	0.438	1368	0.656	2520	2.935	3672	1.416	4824	0.541
240	0.438	1392	0.662	2544	3.048	3696	1.359	4848	0.535
264	0.438	1416	0.669	2568	3.218	3720	1.274	4872	0.528
288	0.438	1440	0.669	2592	3.218	3744	1.274	4896	0.528
312	0.451	1464	0.695	2616	3.527	3768	1.171	4920	0.515
336	0.451	1488	0.695	2640	3.527	3792	1.171	4944	0.515
360	0.451	1512	0.711	2664	3.728	3816	1.117	4968	0.507
384	0.451	1536	0.721	2688	3.862	3840	1.081	4992	0.502
408	0.453	1560	0.726	2712	3.934	3864	1.066	5016	0.499
432	0.463	1584	0.747	2736	4.222	3888	1.004	5040	0.489
456	0.463	1608	0.747	2760	4.222	3912	1.004	5064	0.489
480	0.463	1632	0.777	2784	4.531	3936	0.942	5088	0.489
504	0.463	1656	0.785	2808	4.608	3960	0.927	5112	0.489
528	0.469	1680	0.801	2832	4.783	3984	0.906	5136	0.484
552	0.476	1704	0.824	2856	5.046	4008	0.875	5160	0.476
576	0.476	1728	0.824	2880	5.046	4032	0.875	5184	0.476
600	0.476	1752	0.875	2904	5.046	4056	0.824	5208	0.476
624	0.476	1776	0.875	2928	5.046	4080	0.824	5232	0.476
648	0.484	1800	0.906	2952	4.783	4104	0.801	5256	0.469
672	0.489	1824	0.927	2976	4.608	4128	0.785	5280	0.463
696	0.489	1848	0.942	3000	4.531	4152	0.777	5304	0.463
720	0.489	1872	1.004	3024	4.222	4176	0.747	5328	0.463
744	0.489	1896	1.004	3048	4.222	4200	0.747	5352	0.463
768	0.499	1920	1.066	3072	3.934	4224	0.726	5376	0.453
792	0.502	1944	1.081	3096	3.862	4248	0.721	5400	0.451
816	0.507	1968	1.117	3120	3.728	4272	0.711	5424	0.451
840	0.515	1992	1.171	3144	3.527	4296	0.695	5448	0.451
864	0.515	2016	1.171	3168	3.527	4320	0.695	5472	0.451
888	0.528	2040	1.274	3192	3.218	4344	0.669	5496	0.438
912	0.528	2064	1.274	3216	3.218	4368	0.669	5520	0.438
936	0.535	2088	1.359	3240	3.048	4392	0.662	5544	0.438
960	0.541	2112	1.416	3264	2.935	4416	0.656	5568	0.438
984	0.543	2136	1.449	3288	2.883	4440	0.651	5592	0.435
1008	0.553	2160	1.583	3312	2.677	4464	0.631	5616	0.425
1032	0.553	2184	1.583	3336	2.677	4488	0.631	5640	0.425
1056	0.564	2208	1.717	3360	2.471	4512	0.620	5664	0.425
1080	0.566	2232	1.751	3384	2.420	4536	0.618	5688	0.425
1104	0.572	2256	1.833	3408	2.327	4560	0.608	5712	0.420
1128	0.579	2280	1.957	3432	2.188	4584	0.592	5736	0.412
1152	0.579	2304	1.957	3456	2.188	4608	0.592	5760	0.412

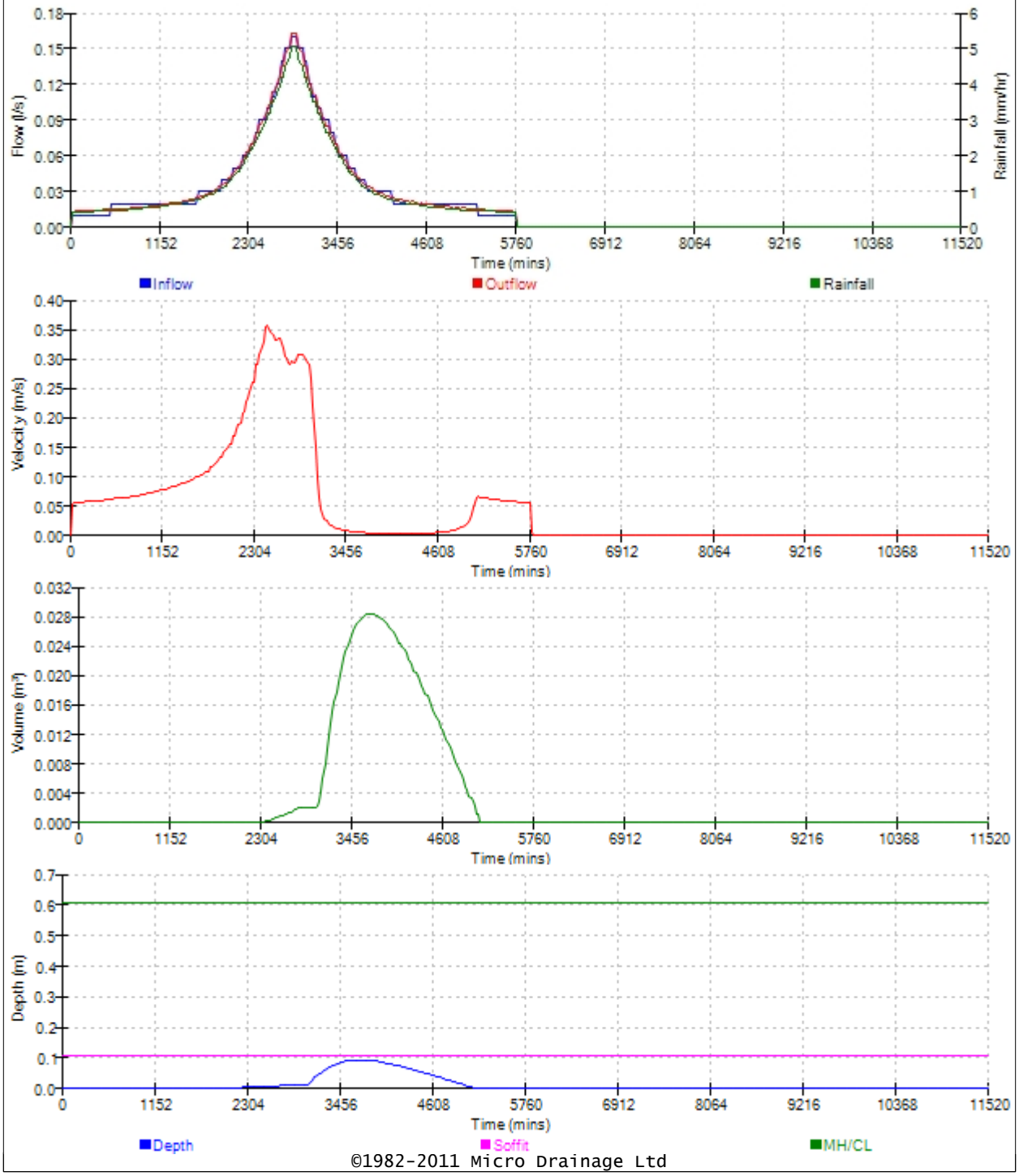
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Status: OK



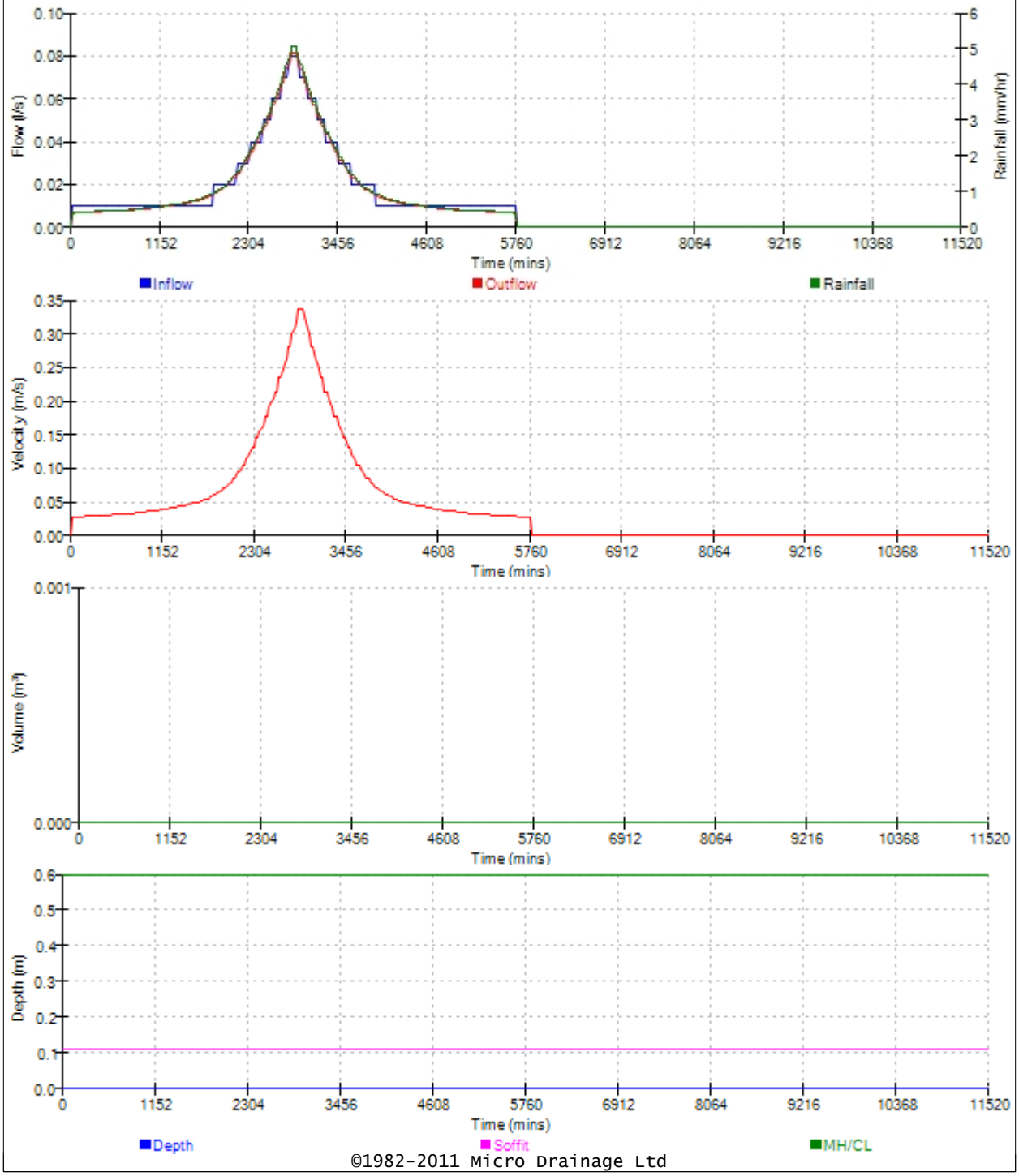
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Graphs for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Status: OK



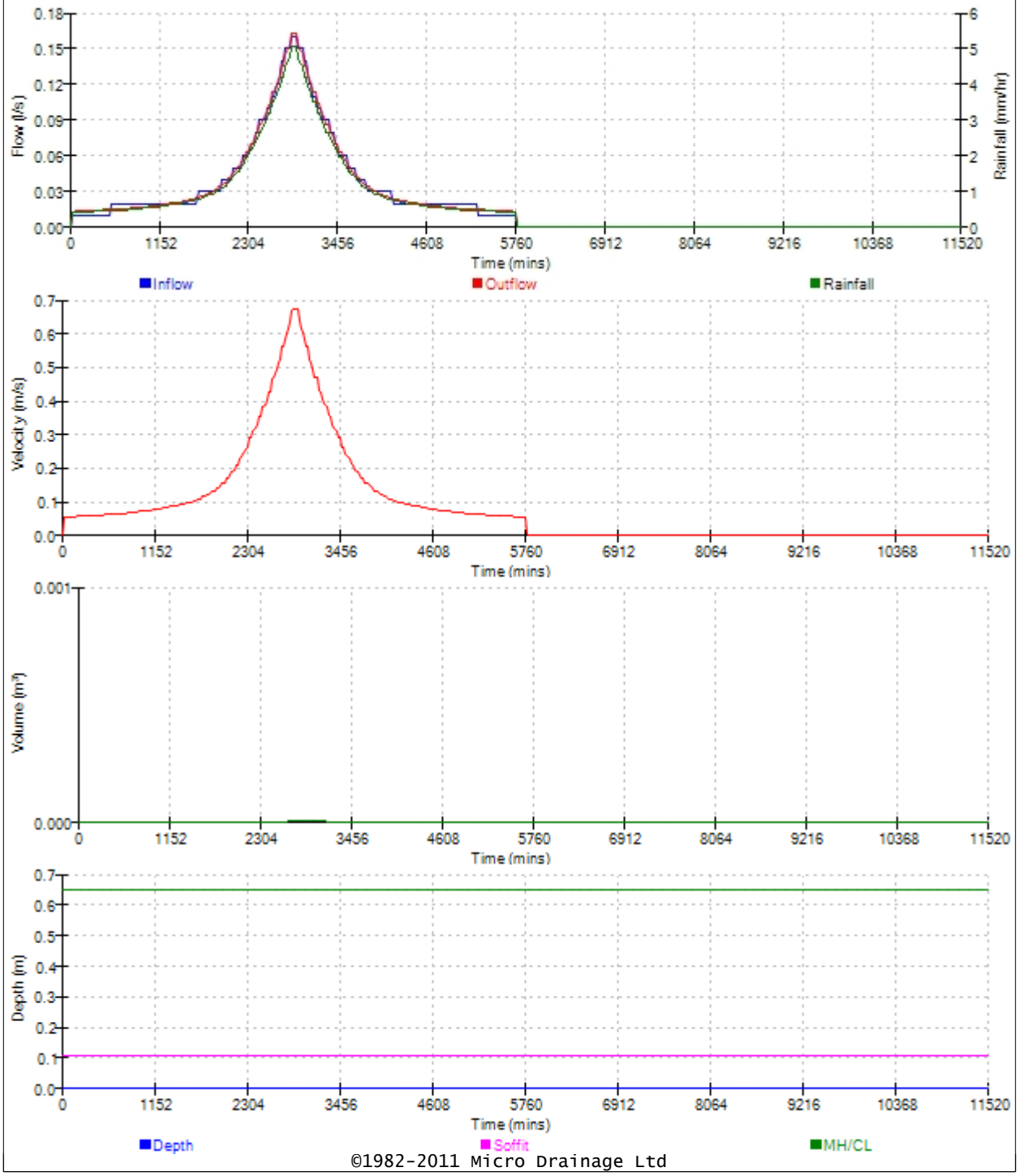
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Status: OK



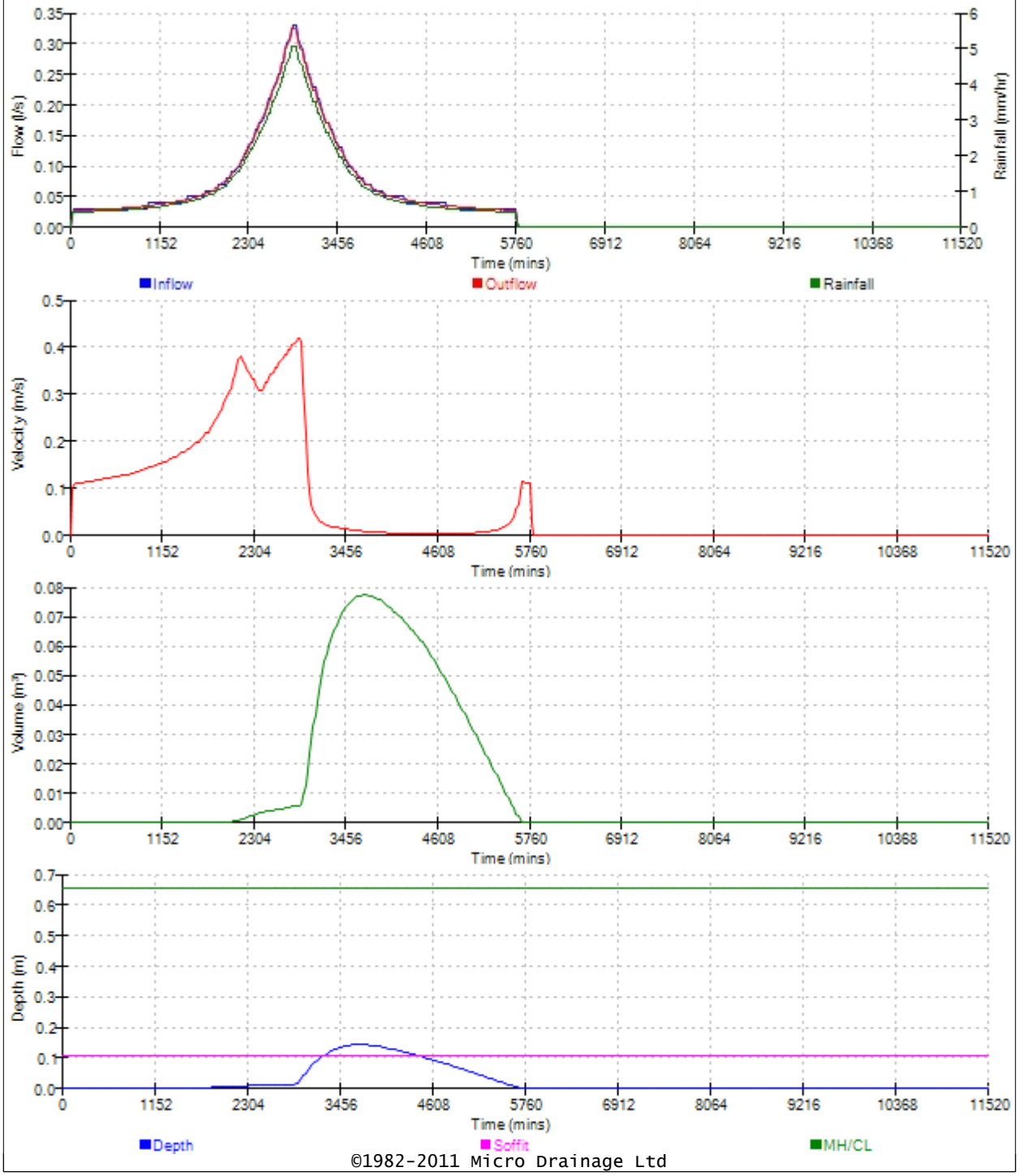
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Graphs for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Status: OK



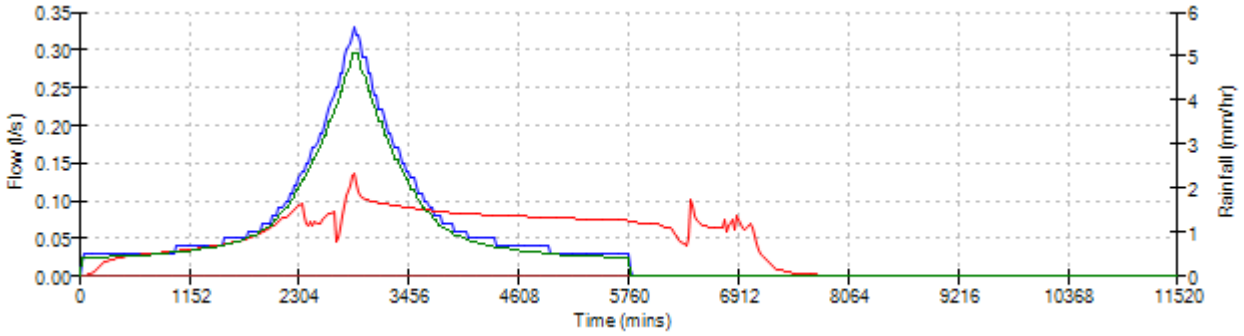
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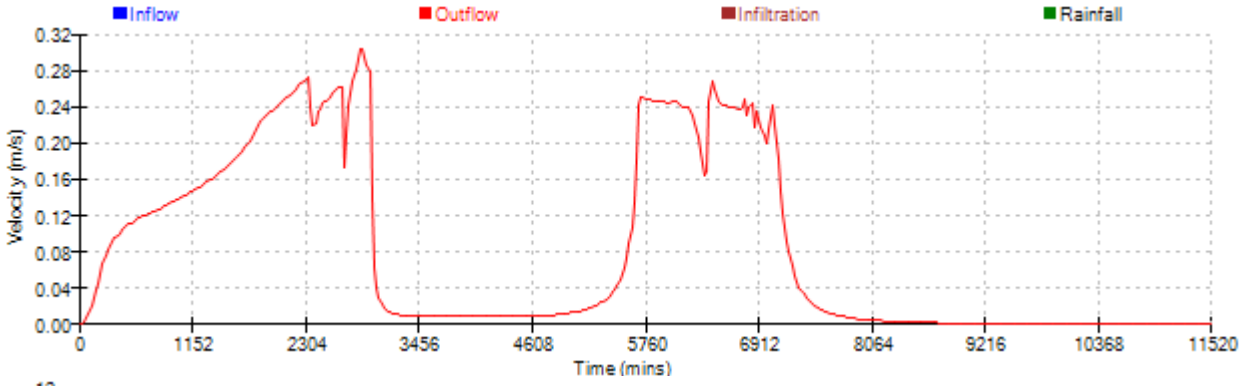
Graphs for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
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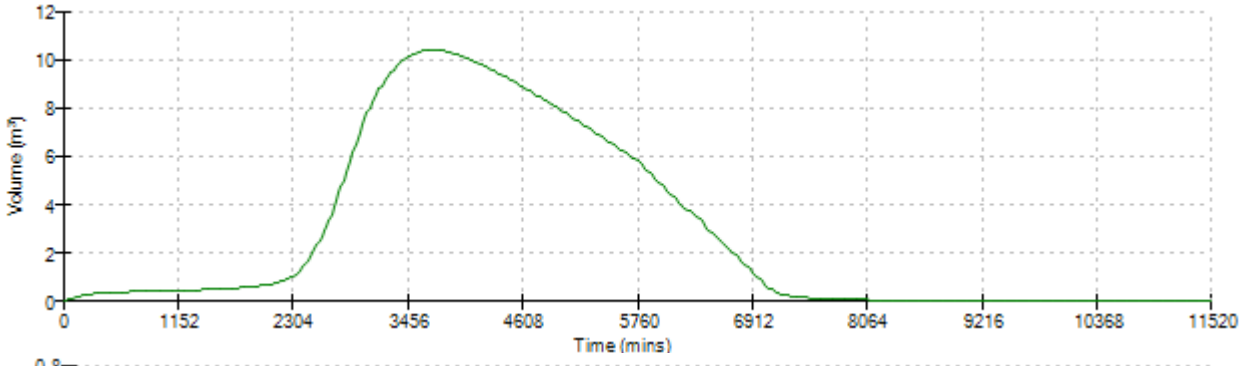


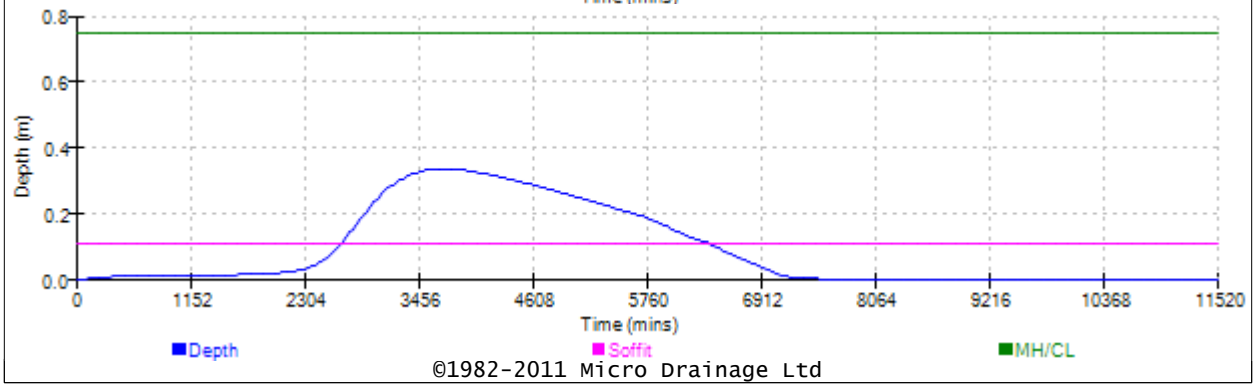
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Graphs for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Status: SURCHARGED



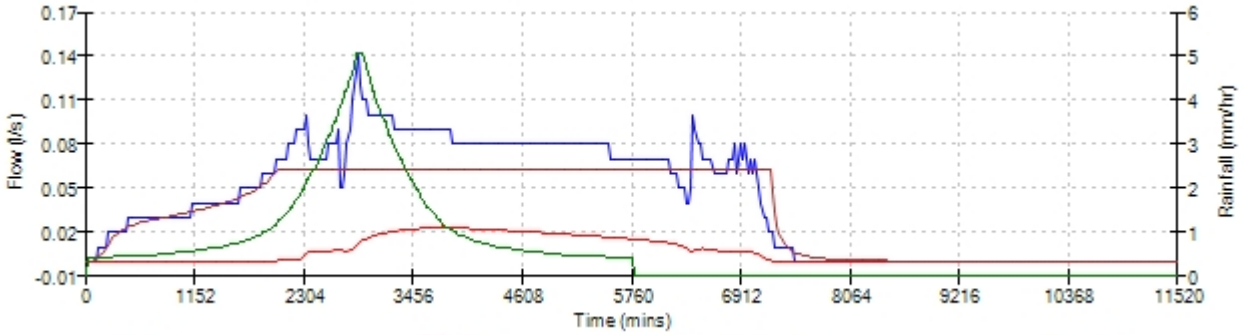


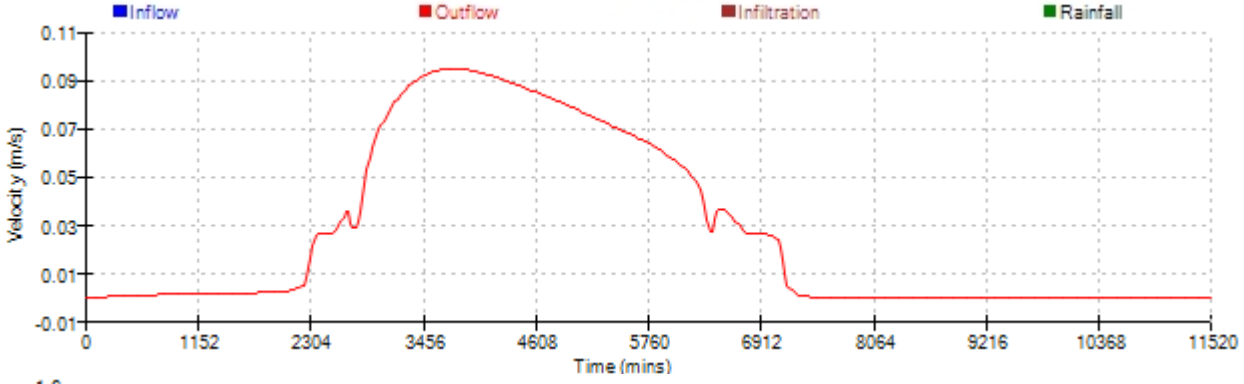


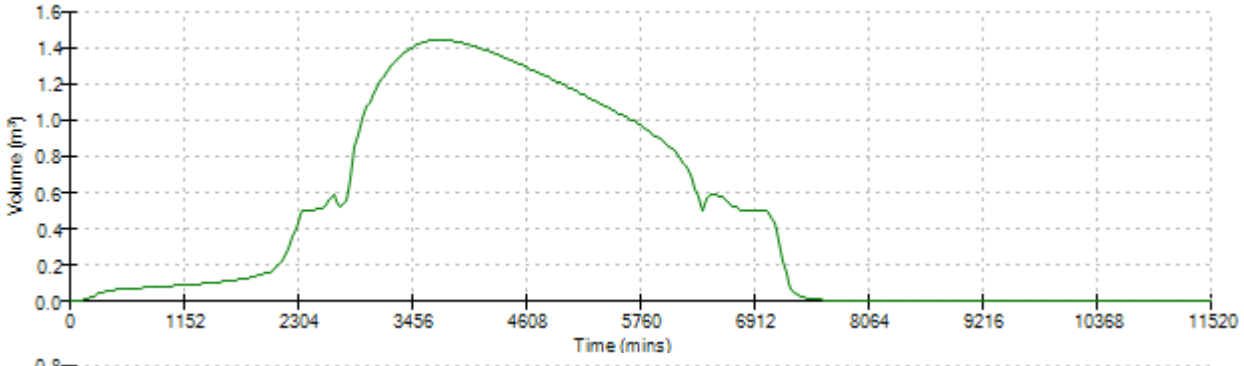


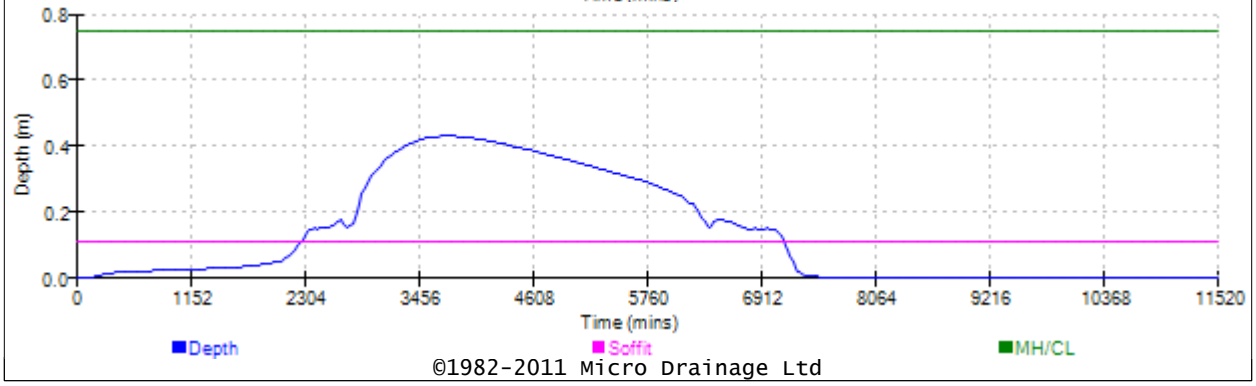
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.495	-0.110	0.0	0.0	0.0
264	65.400	63.495	-0.110	0.0	0.0	0.0
288	65.400	63.495	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.495	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.496	-0.110	0.0	0.0	0.0
1032	65.400	63.496	-0.110	0.0	0.0	0.0
1056	65.400	63.496	-0.110	0.0	0.0	0.0
1080	65.400	63.496	-0.110	0.0	0.0	0.0
1104	65.400	63.496	-0.110	0.0	0.0	0.0
1128	65.400	63.496	-0.110	0.0	0.0	0.0
1152	65.400	63.496	-0.110	0.0	0.0	0.0
1176	65.400	63.496	-0.110	0.0	0.0	0.0
1200	65.400	63.496	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.496	-0.110	0.0	0.0	0.0
1248	65.400	63.496	-0.110	0.0	0.0	0.0
1272	65.400	63.496	-0.110	0.0	0.0	0.0
1296	65.400	63.496	-0.110	0.0	0.0	0.0
1320	65.400	63.496	-0.110	0.0	0.0	0.0
1344	65.400	63.496	-0.110	0.0	0.0	0.0
1368	65.400	63.496	-0.110	0.0	0.0	0.0
1392	65.400	63.496	-0.110	0.0	0.0	0.0
1416	65.400	63.496	-0.110	0.0	0.0	0.0
1440	65.400	63.496	-0.110	0.0	0.0	0.0
1464	65.400	63.496	-0.110	0.0	0.0	0.0
1488	65.400	63.496	-0.110	0.0	0.0	0.0
1512	65.400	63.496	-0.110	0.0	0.0	0.0
1536	65.400	63.496	-0.110	0.0	0.0	0.0
1560	65.400	63.496	-0.110	0.0	0.0	0.0
1584	65.400	63.496	-0.110	0.0	0.0	0.0
1608	65.400	63.496	-0.110	0.0	0.0	0.0
1632	65.400	63.496	-0.110	0.0	0.1	0.0
1656	65.400	63.496	-0.110	0.0	0.1	0.0
1680	65.400	63.496	-0.110	0.0	0.1	0.0
1704	65.400	63.496	-0.110	0.0	0.1	0.0
1728	65.400	63.496	-0.110	0.0	0.1	0.0
1752	65.400	63.496	-0.110	0.0	0.1	0.0
1776	65.400	63.496	-0.110	0.0	0.1	0.0
1800	65.400	63.496	-0.110	0.0	0.1	0.0
1824	65.400	63.496	-0.110	0.0	0.1	0.0
1848	65.400	63.496	-0.110	0.0	0.1	0.0
1872	65.400	63.497	-0.110	0.0	0.1	0.0
1896	65.400	63.497	-0.110	0.0	0.1	0.0
1920	65.400	63.497	-0.110	0.0	0.1	0.0
1944	65.400	63.497	-0.110	0.0	0.1	0.0
1968	65.400	63.497	-0.110	0.0	0.1	0.0
1992	65.400	63.497	-0.110	0.0	0.1	0.0
2016	65.400	63.497	-0.110	0.0	0.1	0.0
2040	65.400	63.497	-0.110	0.0	0.1	0.0
2064	65.400	63.497	-0.110	0.0	0.1	0.0
2088	65.400	63.498	-0.110	0.0	0.1	0.0
2112	65.400	63.498	-0.110	0.0	0.1	0.0
2136	65.400	63.498	-0.110	0.0	0.1	0.0
2160	65.401	63.498	-0.109	0.0	0.1	0.0
2184	65.401	63.498	-0.109	0.0	0.1	0.0
2208	65.401	63.498	-0.109	0.0	0.1	0.0
2232	65.401	63.498	-0.109	0.0	0.1	0.0
2256	65.401	63.499	-0.109	0.0	0.1	0.0
2280	65.401	63.499	-0.109	0.0	0.1	0.0
2304	65.401	63.499	-0.109	0.0	0.1	0.0
2328	65.401	63.500	-0.109	0.0	0.1	0.0
2352	65.401	63.500	-0.109	0.0	0.1	0.0
2376	65.401	63.500	-0.109	0.0	0.2	0.0
2400	65.401	63.500	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	63.500	-0.109	0.0	0.2	0.0
2448	65.401	63.501	-0.109	0.0	0.2	0.0
2472	65.401	63.501	-0.109	0.0	0.2	0.0
2496	65.401	63.501	-0.109	0.0	0.2	0.0
2520	65.401	63.501	-0.109	0.0	0.2	0.0
2544	65.401	63.502	-0.109	0.0	0.2	0.0
2568	65.401	63.502	-0.109	0.0	0.2	0.1
2592	65.401	63.502	-0.109	0.0	0.2	0.1
2616	65.401	63.503	-0.109	0.0	0.2	0.1
2640	65.401	63.503	-0.109	0.0	0.2	0.1
2664	65.401	63.503	-0.109	0.0	0.2	0.1
2688	65.401	63.504	-0.109	0.0	0.3	0.1
2712	65.401	63.504	-0.109	0.0	0.3	0.1
2736	65.401	63.505	-0.109	0.0	0.3	0.1
2760	65.401	63.505	-0.109	0.0	0.3	0.1
2784	65.401	63.505	-0.109	0.0	0.3	0.1
2808	65.402	63.505	-0.108	0.0	0.3	0.1
2832	65.402	63.505	-0.108	0.0	0.3	0.1
2856	65.402	63.506	-0.108	0.0	0.3	0.1
2880	65.402	63.506	-0.108	0.0	0.3	0.1
2904	65.402	63.506	-0.108	0.0	0.3	0.1
2928	65.402	63.506	-0.108	0.0	0.3	0.1
2952	65.402	63.505	-0.108	0.0	0.3	0.1
2976	65.402	63.505	-0.108	0.0	0.3	0.1
3000	65.401	63.505	-0.109	0.0	0.3	0.1
3024	65.401	63.506	-0.109	0.0	0.3	0.1
3048	65.401	63.508	-0.109	0.0	0.3	0.1
3072	65.401	63.512	-0.109	0.0	0.3	0.1
3096	65.401	63.518	-0.109	0.0	0.3	0.1
3120	65.401	63.525	-0.109	0.0	0.2	0.1
3144	65.401	63.530	-0.109	0.0	0.2	0.1
3168	65.401	63.536	-0.109	0.0	0.2	0.1
3192	65.401	63.541	-0.109	0.0	0.2	0.1
3216	65.401	63.546	-0.109	0.0	0.2	0.1
3240	65.401	63.551	-0.109	0.0	0.2	0.0
3264	65.401	63.555	-0.109	0.0	0.2	0.0
3288	65.401	63.559	-0.109	0.0	0.2	0.0
3312	65.401	63.563	-0.109	0.0	0.2	0.0
3336	65.401	63.566	-0.109	0.0	0.2	0.0
3360	65.401	63.569	-0.109	0.0	0.2	0.0
3384	65.401	63.572	-0.109	0.0	0.2	0.0
3408	65.401	63.575	-0.109	0.0	0.2	0.0
3432	65.401	63.577	-0.109	0.0	0.1	0.0
3456	65.401	63.579	-0.109	0.0	0.1	0.0
3480	65.401	63.581	-0.109	0.0	0.1	0.0
3504	65.401	63.583	-0.109	0.0	0.1	0.0
3528	65.401	63.584	-0.109	0.0	0.1	0.0
3552	65.401	63.585	-0.109	0.0	0.1	0.0
3576	65.401	63.586	-0.109	0.0	0.1	0.0
3600	65.401	63.587	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.588	-0.109	0.0	0.1	0.0
3648	65.400	63.588	-0.110	0.0	0.1	0.0
3672	65.400	63.588	-0.110	0.0	0.1	0.0
3696	65.400	63.588	-0.110	0.0	0.1	0.0
3720	65.400	63.588	-0.110	0.0	0.1	0.0
3744	65.400	63.588	-0.110	0.0	0.1	0.0
3768	65.400	63.588	-0.110	0.0	0.1	0.0
3792	65.400	63.587	-0.110	0.0	0.1	0.0
3816	65.400	63.587	-0.110	0.0	0.1	0.0
3840	65.400	63.586	-0.110	0.0	0.1	0.0
3864	65.400	63.585	-0.110	0.0	0.1	0.0
3888	65.400	63.585	-0.110	0.0	0.1	0.0
3912	65.400	63.584	-0.110	0.0	0.1	0.0
3936	65.400	63.583	-0.110	0.0	0.1	0.0
3960	65.400	63.582	-0.110	0.0	0.1	0.0
3984	65.400	63.580	-0.110	0.0	0.1	0.0
4008	65.400	63.579	-0.110	0.0	0.1	0.0
4032	65.400	63.578	-0.110	0.0	0.1	0.0
4056	65.400	63.576	-0.110	0.0	0.1	0.0
4080	65.400	63.575	-0.110	0.0	0.1	0.0
4104	65.400	63.574	-0.110	0.0	0.1	0.0
4128	65.400	63.573	-0.110	0.0	0.1	0.0
4152	65.400	63.571	-0.110	0.0	0.1	0.0
4176	65.400	63.568	-0.110	0.0	0.0	0.0
4200	65.400	63.568	-0.110	0.0	0.0	0.0
4224	65.400	63.566	-0.110	0.0	0.0	0.0
4248	65.400	63.564	-0.110	0.0	0.0	0.0
4272	65.400	63.563	-0.110	0.0	0.0	0.0
4296	65.400	63.562	-0.110	0.0	0.0	0.0
4320	65.400	63.560	-0.110	0.0	0.0	0.0
4344	65.400	63.558	-0.110	0.0	0.0	0.0
4368	65.400	63.556	-0.110	0.0	0.0	0.0
4392	65.400	63.554	-0.110	0.0	0.0	0.0
4416	65.400	63.553	-0.110	0.0	0.0	0.0
4440	65.400	63.551	-0.110	0.0	0.0	0.0
4464	65.400	63.549	-0.110	0.0	0.0	0.0
4488	65.400	63.547	-0.110	0.0	0.0	0.0
4512	65.400	63.545	-0.110	0.0	0.0	0.0
4536	65.400	63.544	-0.110	0.0	0.0	0.0
4560	65.400	63.542	-0.110	0.0	0.0	0.0
4584	65.400	63.540	-0.110	0.0	0.0	0.0
4608	65.400	63.539	-0.110	0.0	0.0	0.0
4632	65.400	63.536	-0.110	0.0	0.0	0.0
4656	65.400	63.535	-0.110	0.0	0.0	0.0
4680	65.400	63.533	-0.110	0.0	0.0	0.0
4704	65.400	63.531	-0.110	0.0	0.0	0.0
4728	65.400	63.529	-0.110	0.0	0.0	0.0
4752	65.400	63.527	-0.110	0.0	0.0	0.0
4776	65.400	63.525	-0.110	0.0	0.0	0.0
4800	65.400	63.523	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.521	-0.110	0.0	0.0	0.0
4848	65.400	63.519	-0.110	0.0	0.0	0.0
4872	65.400	63.517	-0.110	0.0	0.0	0.0
4896	65.400	63.515	-0.110	0.0	0.0	0.0
4920	65.400	63.513	-0.110	0.0	0.0	0.0
4944	65.400	63.511	-0.110	0.0	0.0	0.0
4968	65.400	63.510	-0.110	0.0	0.0	0.0
4992	65.400	63.508	-0.110	0.0	0.0	0.0
5016	65.400	63.506	-0.110	0.0	0.0	0.0
5040	65.400	63.503	-0.110	0.0	0.0	0.0
5064	65.400	63.503	-0.110	0.0	0.0	0.0
5088	65.400	63.499	-0.110	0.0	0.0	0.0
5112	65.400	63.498	-0.110	0.0	0.0	0.0
5136	65.400	63.497	-0.110	0.0	0.0	0.0
5160	65.400	63.497	-0.110	0.0	0.0	0.0
5184	65.400	63.496	-0.110	0.0	0.0	0.0
5208	65.400	63.496	-0.110	0.0	0.0	0.0
5232	65.400	63.496	-0.110	0.0	0.0	0.0
5256	65.400	63.496	-0.110	0.0	0.0	0.0
5280	65.400	63.495	-0.110	0.0	0.0	0.0
5304	65.400	63.495	-0.110	0.0	0.0	0.0
5328	65.400	63.495	-0.110	0.0	0.0	0.0
5352	65.400	63.495	-0.110	0.0	0.0	0.0
5376	65.400	63.495	-0.110	0.0	0.0	0.0
5400	65.400	63.495	-0.110	0.0	0.0	0.0
5424	65.400	63.495	-0.110	0.0	0.0	0.0
5448	65.400	63.495	-0.110	0.0	0.0	0.0
5472	65.400	63.495	-0.110	0.0	0.0	0.0
5496	65.400	63.495	-0.110	0.0	0.0	0.0
5520	65.400	63.495	-0.110	0.0	0.0	0.0
5544	65.400	63.495	-0.110	0.0	0.0	0.0
5568	65.400	63.495	-0.110	0.0	0.0	0.0
5592	65.400	63.495	-0.110	0.0	0.0	0.0
5616	65.400	63.495	-0.110	0.0	0.0	0.0
5640	65.400	63.495	-0.110	0.0	0.0	0.0
5664	65.400	63.495	-0.110	0.0	0.0	0.0
5688	65.400	63.495	-0.110	0.0	0.0	0.0
5712	65.400	63.495	-0.110	0.0	0.0	0.0
5736	65.400	63.495	-0.110	0.0	0.0	0.0
5760	65.400	63.495	-0.110	0.0	0.0	0.0
5784	65.400	63.494	-0.110	0.0	0.0	0.0
5808	65.400	63.494	-0.110	0.0	0.0	0.0
5832	65.400	63.494	-0.110	0.0	0.0	0.0
5856	65.400	63.494	-0.110	0.0	0.0	0.0
5880	65.400	63.494	-0.110	0.0	0.0	0.0
5904	65.400	63.494	-0.110	0.0	0.0	0.0
5928	65.400	63.494	-0.110	0.0	0.0	0.0
5952	65.400	63.494	-0.110	0.0	0.0	0.0
5976	65.400	63.494	-0.110	0.0	0.0	0.0
6000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.494	-0.110	0.0	0.0	0.0
6048	65.400	63.494	-0.110	0.0	0.0	0.0
6072	65.400	63.494	-0.110	0.0	0.0	0.0
6096	65.400	63.494	-0.110	0.0	0.0	0.0
6120	65.400	63.494	-0.110	0.0	0.0	0.0
6144	65.400	63.494	-0.110	0.0	0.0	0.0
6168	65.400	63.494	-0.110	0.0	0.0	0.0
6192	65.400	63.494	-0.110	0.0	0.0	0.0
6216	65.400	63.494	-0.110	0.0	0.0	0.0
6240	65.400	63.494	-0.110	0.0	0.0	0.0
6264	65.400	63.494	-0.110	0.0	0.0	0.0
6288	65.400	63.494	-0.110	0.0	0.0	0.0
6312	65.400	63.494	-0.110	0.0	0.0	0.0
6336	65.400	63.494	-0.110	0.0	0.0	0.0
6360	65.400	63.494	-0.110	0.0	0.0	0.0
6384	65.400	63.494	-0.110	0.0	0.0	0.0
6408	65.400	63.494	-0.110	0.0	0.0	0.0
6432	65.400	63.494	-0.110	0.0	0.0	0.0
6456	65.400	63.494	-0.110	0.0	0.0	0.0
6480	65.400	63.494	-0.110	0.0	0.0	0.0
6504	65.400	63.494	-0.110	0.0	0.0	0.0
6528	65.400	63.494	-0.110	0.0	0.0	0.0
6552	65.400	63.494	-0.110	0.0	0.0	0.0
6576	65.400	63.494	-0.110	0.0	0.0	0.0
6600	65.400	63.494	-0.110	0.0	0.0	0.0
6624	65.400	63.494	-0.110	0.0	0.0	0.0
6648	65.400	63.494	-0.110	0.0	0.0	0.0
6672	65.400	63.494	-0.110	0.0	0.0	0.0
6696	65.400	63.494	-0.110	0.0	0.0	0.0
6720	65.400	63.494	-0.110	0.0	0.0	0.0
6744	65.400	63.494	-0.110	0.0	0.0	0.0
6768	65.400	63.494	-0.110	0.0	0.0	0.0
6792	65.400	63.494	-0.110	0.0	0.0	0.0
6816	65.400	63.494	-0.110	0.0	0.0	0.0
6840	65.400	63.494	-0.110	0.0	0.0	0.0
6864	65.400	63.494	-0.110	0.0	0.0	0.0
6888	65.400	63.494	-0.110	0.0	0.0	0.0
6912	65.400	63.494	-0.110	0.0	0.0	0.0
6936	65.400	63.494	-0.110	0.0	0.0	0.0
6960	65.400	63.494	-0.110	0.0	0.0	0.0
6984	65.400	63.494	-0.110	0.0	0.0	0.0
7008	65.400	63.494	-0.110	0.0	0.0	0.0
7032	65.400	63.494	-0.110	0.0	0.0	0.0
7056	65.400	63.494	-0.110	0.0	0.0	0.0
7080	65.400	63.494	-0.110	0.0	0.0	0.0
7104	65.400	63.494	-0.110	0.0	0.0	0.0
7128	65.400	63.494	-0.110	0.0	0.0	0.0
7152	65.400	63.494	-0.110	0.0	0.0	0.0
7176	65.400	63.494	-0.110	0.0	0.0	0.0
7200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.446	-0.109	0.0	0.1	0.0
48	63.495	63.446	-0.109	0.0	0.1	0.0
72	63.495	63.446	-0.109	0.0	0.1	0.0
96	63.495	63.446	-0.109	0.0	0.1	0.0
120	63.495	63.446	-0.109	0.0	0.1	0.0
144	63.495	63.446	-0.109	0.0	0.1	0.0
168	63.495	63.446	-0.109	0.0	0.1	0.0
192	63.495	63.446	-0.109	0.0	0.1	0.0
216	63.495	63.446	-0.109	0.0	0.1	0.0
240	63.495	63.446	-0.109	0.0	0.1	0.0
264	63.495	63.446	-0.109	0.0	0.1	0.0
288	63.495	63.446	-0.109	0.0	0.1	0.0
312	63.495	63.446	-0.109	0.0	0.1	0.0
336	63.495	63.446	-0.109	0.0	0.1	0.0
360	63.495	63.446	-0.109	0.0	0.1	0.0
384	63.495	63.446	-0.109	0.0	0.1	0.0
408	63.495	63.446	-0.109	0.0	0.1	0.0
432	63.495	63.446	-0.109	0.0	0.1	0.0
456	63.495	63.446	-0.109	0.0	0.1	0.0
480	63.495	63.446	-0.109	0.0	0.1	0.0
504	63.495	63.446	-0.109	0.0	0.1	0.0
528	63.495	63.446	-0.109	0.0	0.1	0.0
552	63.495	63.446	-0.109	0.0	0.1	0.0
576	63.495	63.446	-0.109	0.0	0.1	0.0
600	63.495	63.446	-0.109	0.0	0.1	0.0
624	63.495	63.446	-0.109	0.0	0.1	0.0
648	63.495	63.446	-0.109	0.0	0.1	0.0
672	63.495	63.446	-0.109	0.0	0.1	0.0
696	63.495	63.446	-0.109	0.0	0.1	0.0
720	63.495	63.446	-0.109	0.0	0.1	0.0
744	63.495	63.446	-0.109	0.0	0.1	0.0
768	63.495	63.446	-0.109	0.0	0.1	0.0
792	63.495	63.446	-0.109	0.0	0.1	0.0
816	63.495	63.446	-0.109	0.0	0.1	0.0
840	63.495	63.447	-0.109	0.0	0.1	0.0
864	63.495	63.447	-0.109	0.0	0.1	0.0
888	63.495	63.447	-0.109	0.0	0.1	0.0
912	63.495	63.447	-0.109	0.0	0.1	0.0
936	63.495	63.447	-0.109	0.0	0.1	0.0
960	63.495	63.447	-0.109	0.0	0.1	0.0
984	63.495	63.447	-0.109	0.0	0.1	0.0
1008	63.496	63.447	-0.109	0.0	0.1	0.0
1032	63.496	63.447	-0.109	0.0	0.1	0.0
1056	63.496	63.447	-0.109	0.0	0.1	0.0
1080	63.496	63.447	-0.109	0.0	0.1	0.0
1104	63.496	63.447	-0.109	0.0	0.1	0.0
1128	63.496	63.447	-0.109	0.0	0.1	0.0
1152	63.496	63.447	-0.109	0.0	0.1	0.0
1176	63.496	63.447	-0.109	0.0	0.1	0.0
1200	63.496	63.447	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.496	63.447	-0.108	0.0	0.1	0.0
1248	63.496	63.447	-0.108	0.0	0.1	0.0
1272	63.496	63.447	-0.108	0.0	0.1	0.0
1296	63.496	63.447	-0.108	0.0	0.1	0.0
1320	63.496	63.447	-0.108	0.0	0.1	0.0
1344	63.496	63.447	-0.108	0.0	0.1	0.0
1368	63.496	63.447	-0.108	0.0	0.1	0.0
1392	63.496	63.447	-0.108	0.0	0.1	0.0
1416	63.496	63.447	-0.108	0.0	0.1	0.0
1440	63.496	63.447	-0.108	0.0	0.1	0.0
1464	63.496	63.447	-0.108	0.0	0.1	0.0
1488	63.496	63.447	-0.108	0.0	0.1	0.0
1512	63.496	63.447	-0.108	0.0	0.1	0.0
1536	63.496	63.448	-0.108	0.0	0.1	0.0
1560	63.496	63.448	-0.108	0.0	0.1	0.0
1584	63.496	63.448	-0.108	0.0	0.1	0.0
1608	63.496	63.448	-0.108	0.0	0.1	0.0
1632	63.496	63.448	-0.108	0.0	0.1	0.0
1656	63.496	63.448	-0.108	0.0	0.1	0.0
1680	63.496	63.448	-0.108	0.0	0.1	0.0
1704	63.496	63.448	-0.108	0.0	0.1	0.0
1728	63.496	63.448	-0.108	0.0	0.1	0.0
1752	63.496	63.448	-0.108	0.0	0.1	0.0
1776	63.496	63.448	-0.108	0.0	0.1	0.0
1800	63.496	63.448	-0.108	0.0	0.1	0.0
1824	63.496	63.448	-0.108	0.0	0.1	0.0
1848	63.496	63.449	-0.108	0.0	0.1	0.0
1872	63.497	63.449	-0.107	0.0	0.1	0.0
1896	63.497	63.449	-0.107	0.0	0.1	0.0
1920	63.497	63.449	-0.107	0.0	0.1	0.0
1944	63.497	63.449	-0.107	0.0	0.1	0.0
1968	63.497	63.449	-0.107	0.0	0.1	0.0
1992	63.497	63.450	-0.107	0.0	0.2	0.0
2016	63.497	63.450	-0.107	0.0	0.2	0.0
2040	63.497	63.450	-0.107	0.0	0.2	0.0
2064	63.497	63.450	-0.107	0.0	0.2	0.0
2088	63.498	63.451	-0.107	0.0	0.2	0.0
2112	63.498	63.451	-0.106	0.0	0.2	0.0
2136	63.498	63.451	-0.106	0.0	0.2	0.0
2160	63.498	63.452	-0.106	0.0	0.2	0.1
2184	63.498	63.452	-0.106	0.0	0.2	0.1
2208	63.498	63.452	-0.106	0.0	0.2	0.1
2232	63.498	63.452	-0.106	0.0	0.2	0.1
2256	63.499	63.453	-0.105	0.0	0.2	0.1
2280	63.499	63.453	-0.105	0.0	0.3	0.1
2304	63.499	63.453	-0.105	0.0	0.3	0.1
2328	63.500	63.454	-0.105	0.0	0.3	0.1
2352	63.500	63.454	-0.105	0.0	0.3	0.1
2376	63.500	63.455	-0.104	0.0	0.3	0.1
2400	63.500	63.455	-0.104	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.500	63.455	-0.104	0.0	0.3	0.1
2448	63.501	63.456	-0.103	0.0	0.4	0.1
2472	63.501	63.456	-0.103	0.0	0.4	0.1
2496	63.501	63.456	-0.103	0.0	0.4	0.1
2520	63.501	63.456	-0.103	0.0	0.3	0.1
2544	63.502	63.456	-0.102	0.0	0.3	0.1
2568	63.502	63.456	-0.102	0.0	0.3	0.1
2592	63.502	63.456	-0.102	0.0	0.3	0.1
2616	63.503	63.457	-0.101	0.0	0.3	0.1
2640	63.503	63.457	-0.101	0.0	0.3	0.1
2664	63.503	63.457	-0.101	0.0	0.3	0.1
2688	63.504	63.457	-0.100	0.0	0.3	0.1
2712	63.504	63.457	-0.100	0.0	0.3	0.1
2736	63.505	63.458	-0.099	0.0	0.3	0.1
2760	63.505	63.458	-0.099	0.0	0.3	0.1
2784	63.505	63.458	-0.099	0.0	0.3	0.1
2808	63.505	63.458	-0.099	0.0	0.3	0.1
2832	63.505	63.459	-0.099	0.0	0.3	0.2
2856	63.506	63.459	-0.098	0.0	0.3	0.2
2880	63.506	63.459	-0.098	0.0	0.3	0.2
2904	63.506	63.460	-0.098	0.0	0.3	0.2
2928	63.506	63.464	-0.098	0.0	0.3	0.2
2952	63.505	63.471	-0.099	0.0	0.3	0.2
2976	63.505	63.479	-0.099	0.0	0.3	0.1
3000	63.505	63.488	-0.099	0.0	0.3	0.1
3024	63.506	63.496	-0.098	0.0	0.3	0.1
3048	63.508	63.504	-0.096	0.0	0.2	0.1
3072	63.512	63.511	-0.092	0.0	0.2	0.1
3096	63.518	63.518	-0.086	0.0	0.1	0.1
3120	63.525	63.524	-0.080	0.0	0.1	0.1
3144	63.530	63.530	-0.074	0.0	0.0	0.1
3168	63.536	63.536	-0.068	0.0	0.0	0.1
3192	63.541	63.541	-0.063	0.0	0.0	0.1
3216	63.546	63.546	-0.058	0.0	0.0	0.1
3240	63.551	63.550	-0.053	0.0	0.0	0.1
3264	63.555	63.554	-0.049	0.0	0.0	0.1
3288	63.559	63.559	-0.045	0.0	0.0	0.1
3312	63.563	63.562	-0.041	0.0	0.0	0.1
3336	63.566	63.566	-0.038	0.0	0.0	0.1
3360	63.569	63.569	-0.035	0.0	0.0	0.1
3384	63.572	63.572	-0.032	0.0	0.0	0.1
3408	63.575	63.575	-0.029	0.0	0.0	0.1
3432	63.577	63.577	-0.027	0.0	0.0	0.1
3456	63.579	63.579	-0.025	0.0	0.0	0.1
3480	63.581	63.581	-0.023	0.0	0.0	0.1
3504	63.583	63.582	-0.021	0.0	0.0	0.1
3528	63.584	63.584	-0.020	0.0	0.0	0.1
3552	63.585	63.585	-0.019	0.0	0.0	0.1
3576	63.586	63.586	-0.018	0.0	0.0	0.1
3600	63.587	63.587	-0.017	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.588	63.587	-0.016	0.0	0.0	0.1
3648	63.588	63.588	-0.016	0.0	0.0	0.0
3672	63.588	63.588	-0.016	0.0	0.0	0.0
3696	63.588	63.588	-0.016	0.0	0.0	0.0
3720	63.588	63.588	-0.016	0.0	0.0	0.0
3744	63.588	63.588	-0.016	0.0	0.0	0.0
3768	63.588	63.588	-0.016	0.0	0.0	0.0
3792	63.587	63.587	-0.017	0.0	0.0	0.0
3816	63.587	63.587	-0.017	0.0	0.0	0.0
3840	63.586	63.586	-0.018	0.0	0.0	0.0
3864	63.585	63.585	-0.019	0.0	0.0	0.0
3888	63.585	63.584	-0.020	0.0	0.0	0.0
3912	63.584	63.584	-0.020	0.0	0.0	0.0
3936	63.583	63.583	-0.021	0.0	0.0	0.0
3960	63.582	63.581	-0.023	0.0	0.0	0.0
3984	63.580	63.580	-0.024	0.0	0.0	0.0
4008	63.579	63.579	-0.025	0.0	0.0	0.0
4032	63.578	63.578	-0.026	0.0	0.0	0.0
4056	63.576	63.576	-0.028	0.0	0.0	0.0
4080	63.575	63.575	-0.029	0.0	0.0	0.0
4104	63.574	63.574	-0.030	0.0	0.0	0.0
4128	63.573	63.572	-0.032	0.0	0.0	0.0
4152	63.571	63.571	-0.033	0.0	0.0	0.0
4176	63.568	63.570	-0.036	0.0	0.0	0.0
4200	63.568	63.568	-0.036	0.0	0.0	0.0
4224	63.566	63.566	-0.038	0.0	0.0	0.0
4248	63.564	63.565	-0.040	0.0	0.0	0.0
4272	63.563	63.563	-0.041	0.0	0.0	0.0
4296	63.562	63.562	-0.042	0.0	0.0	0.0
4320	63.560	63.560	-0.044	0.0	0.0	0.0
4344	63.558	63.558	-0.046	0.0	0.0	0.0
4368	63.556	63.556	-0.048	0.0	0.0	0.0
4392	63.554	63.555	-0.050	0.0	0.0	0.0
4416	63.553	63.553	-0.051	0.0	0.0	0.0
4440	63.551	63.551	-0.053	0.0	0.0	0.0
4464	63.549	63.550	-0.055	0.0	0.0	0.0
4488	63.547	63.548	-0.057	0.0	0.0	0.0
4512	63.545	63.546	-0.059	0.0	0.0	0.0
4536	63.544	63.544	-0.060	0.0	0.0	0.0
4560	63.542	63.542	-0.062	0.0	0.0	0.0
4584	63.540	63.540	-0.064	0.0	0.0	0.0
4608	63.539	63.539	-0.065	0.0	0.0	0.0
4632	63.536	63.537	-0.068	0.0	0.0	0.0
4656	63.535	63.535	-0.069	0.0	0.0	0.0
4680	63.533	63.533	-0.072	0.0	0.0	0.0
4704	63.531	63.531	-0.073	0.0	0.0	0.0
4728	63.529	63.529	-0.075	0.0	0.0	0.0
4752	63.527	63.527	-0.077	0.0	0.0	0.0
4776	63.525	63.525	-0.079	0.0	0.0	0.0
4800	63.523	63.523	-0.081	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.521	63.521	-0.083	0.0	0.0	0.0
4848	63.519	63.519	-0.085	0.0	0.0	0.0
4872	63.517	63.517	-0.087	0.0	0.0	0.0
4896	63.515	63.515	-0.090	0.0	0.0	0.0
4920	63.513	63.513	-0.091	0.0	0.0	0.0
4944	63.511	63.511	-0.094	0.0	0.0	0.0
4968	63.510	63.509	-0.094	0.0	0.0	0.0
4992	63.508	63.507	-0.096	0.0	0.0	0.0
5016	63.506	63.505	-0.098	0.0	0.0	0.0
5040	63.503	63.503	-0.101	0.0	0.0	0.0
5064	63.503	63.501	-0.101	0.0	0.0	0.0
5088	63.499	63.499	-0.105	0.0	0.1	0.0
5112	63.498	63.497	-0.107	0.0	0.1	0.0
5136	63.497	63.495	-0.107	0.0	0.1	0.0
5160	63.497	63.493	-0.108	0.0	0.1	0.0
5184	63.496	63.491	-0.108	0.0	0.1	0.0
5208	63.496	63.489	-0.108	0.0	0.1	0.0
5232	63.496	63.486	-0.108	0.0	0.1	0.0
5256	63.496	63.484	-0.109	0.0	0.1	0.0
5280	63.495	63.482	-0.109	0.0	0.1	0.0
5304	63.495	63.480	-0.109	0.0	0.1	0.0
5328	63.495	63.478	-0.109	0.0	0.1	0.0
5352	63.495	63.476	-0.109	0.0	0.1	0.0
5376	63.495	63.474	-0.109	0.0	0.1	0.0
5400	63.495	63.472	-0.109	0.0	0.1	0.0
5424	63.495	63.470	-0.109	0.0	0.1	0.0
5448	63.495	63.467	-0.109	0.0	0.1	0.0
5472	63.495	63.465	-0.109	0.0	0.1	0.0
5496	63.495	63.463	-0.109	0.0	0.1	0.0
5520	63.495	63.461	-0.109	0.0	0.1	0.0
5544	63.495	63.459	-0.109	0.0	0.1	0.0
5568	63.495	63.458	-0.109	0.0	0.1	0.0
5592	63.495	63.454	-0.109	0.0	0.1	0.0
5616	63.495	63.453	-0.109	0.0	0.1	0.0
5640	63.495	63.451	-0.109	0.0	0.1	0.0
5664	63.495	63.450	-0.109	0.0	0.1	0.0
5688	63.495	63.448	-0.109	0.0	0.1	0.0
5712	63.495	63.448	-0.109	0.0	0.1	0.0
5736	63.495	63.447	-0.109	0.0	0.1	0.0
5760	63.495	63.447	-0.109	0.0	0.1	0.0
5784	63.494	63.444	-0.110	0.0	0.0	0.0
5808	63.494	63.444	-0.110	0.0	0.0	0.0
5832	63.494	63.444	-0.110	0.0	0.0	0.0
5856	63.494	63.444	-0.110	0.0	0.0	0.0
5880	63.494	63.444	-0.110	0.0	0.0	0.0
5904	63.494	63.444	-0.110	0.0	0.0	0.0
5928	63.494	63.444	-0.110	0.0	0.0	0.0
5952	63.494	63.444	-0.110	0.0	0.0	0.0
5976	63.494	63.444	-0.110	0.0	0.0	0.0
6000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.494	63.444	-0.110	0.0	0.0	0.0
6048	63.494	63.444	-0.110	0.0	0.0	0.0
6072	63.494	63.444	-0.110	0.0	0.0	0.0
6096	63.494	63.444	-0.110	0.0	0.0	0.0
6120	63.494	63.444	-0.110	0.0	0.0	0.0
6144	63.494	63.444	-0.110	0.0	0.0	0.0
6168	63.494	63.444	-0.110	0.0	0.0	0.0
6192	63.494	63.444	-0.110	0.0	0.0	0.0
6216	63.494	63.444	-0.110	0.0	0.0	0.0
6240	63.494	63.444	-0.110	0.0	0.0	0.0
6264	63.494	63.444	-0.110	0.0	0.0	0.0
6288	63.494	63.444	-0.110	0.0	0.0	0.0
6312	63.494	63.444	-0.110	0.0	0.0	0.0
6336	63.494	63.444	-0.110	0.0	0.0	0.0
6360	63.494	63.444	-0.110	0.0	0.0	0.0
6384	63.494	63.444	-0.110	0.0	0.0	0.0
6408	63.494	63.444	-0.110	0.0	0.0	0.0
6432	63.494	63.444	-0.110	0.0	0.0	0.0
6456	63.494	63.444	-0.110	0.0	0.0	0.0
6480	63.494	63.444	-0.110	0.0	0.0	0.0
6504	63.494	63.444	-0.110	0.0	0.0	0.0
6528	63.494	63.444	-0.110	0.0	0.0	0.0
6552	63.494	63.444	-0.110	0.0	0.0	0.0
6576	63.494	63.444	-0.110	0.0	0.0	0.0
6600	63.494	63.444	-0.110	0.0	0.0	0.0
6624	63.494	63.444	-0.110	0.0	0.0	0.0
6648	63.494	63.444	-0.110	0.0	0.0	0.0
6672	63.494	63.444	-0.110	0.0	0.0	0.0
6696	63.494	63.444	-0.110	0.0	0.0	0.0
6720	63.494	63.444	-0.110	0.0	0.0	0.0
6744	63.494	63.444	-0.110	0.0	0.0	0.0
6768	63.494	63.444	-0.110	0.0	0.0	0.0
6792	63.494	63.444	-0.110	0.0	0.0	0.0
6816	63.494	63.444	-0.110	0.0	0.0	0.0
6840	63.494	63.444	-0.110	0.0	0.0	0.0
6864	63.494	63.444	-0.110	0.0	0.0	0.0
6888	63.494	63.444	-0.110	0.0	0.0	0.0
6912	63.494	63.444	-0.110	0.0	0.0	0.0
6936	63.494	63.444	-0.110	0.0	0.0	0.0
6960	63.494	63.444	-0.110	0.0	0.0	0.0
6984	63.494	63.444	-0.110	0.0	0.0	0.0
7008	63.494	63.444	-0.110	0.0	0.0	0.0
7032	63.494	63.444	-0.110	0.0	0.0	0.0
7056	63.494	63.444	-0.110	0.0	0.0	0.0
7080	63.494	63.444	-0.110	0.0	0.0	0.0
7104	63.494	63.444	-0.110	0.0	0.0	0.0
7128	63.494	63.444	-0.110	0.0	0.0	0.0
7152	63.494	63.444	-0.110	0.0	0.0	0.0
7176	63.494	63.444	-0.110	0.0	0.0	0.0
7200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.1	0.0
1656	65.400	65.000	-0.110	0.0	0.1	0.0
1680	65.400	65.000	-0.110	0.0	0.1	0.0
1704	65.400	65.000	-0.110	0.0	0.1	0.0
1728	65.400	65.000	-0.110	0.0	0.1	0.0
1752	65.400	65.000	-0.110	0.0	0.1	0.0
1776	65.400	65.000	-0.110	0.0	0.1	0.0
1800	65.400	65.001	-0.110	0.0	0.1	0.0
1824	65.400	65.001	-0.110	0.0	0.1	0.0
1848	65.400	65.001	-0.110	0.0	0.1	0.0
1872	65.400	65.001	-0.110	0.0	0.1	0.0
1896	65.400	65.001	-0.110	0.0	0.1	0.0
1920	65.400	65.001	-0.110	0.0	0.1	0.0
1944	65.400	65.001	-0.110	0.0	0.1	0.0
1968	65.400	65.001	-0.110	0.0	0.1	0.0
1992	65.400	65.001	-0.110	0.0	0.1	0.0
2016	65.400	65.001	-0.110	0.0	0.1	0.0
2040	65.401	65.001	-0.109	0.0	0.1	0.0
2064	65.401	65.001	-0.109	0.0	0.1	0.0
2088	65.401	65.001	-0.109	0.0	0.1	0.0
2112	65.401	65.001	-0.109	0.0	0.1	0.0
2136	65.401	65.001	-0.109	0.0	0.1	0.0
2160	65.401	65.001	-0.109	0.0	0.1	0.0
2184	65.401	65.001	-0.109	0.0	0.1	0.0
2208	65.401	65.001	-0.109	0.0	0.1	0.0
2232	65.401	65.001	-0.109	0.0	0.1	0.0
2256	65.401	65.001	-0.109	0.0	0.1	0.0
2280	65.401	65.001	-0.109	0.0	0.1	0.0
2304	65.401	65.001	-0.109	0.0	0.1	0.0
2328	65.401	65.001	-0.109	0.0	0.1	0.0
2352	65.401	65.001	-0.109	0.0	0.1	0.0
2376	65.401	65.001	-0.109	0.0	0.2	0.0
2400	65.401	65.001	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	65.001	-0.109	0.0	0.2	0.0
2448	65.401	65.002	-0.109	0.0	0.2	0.0
2472	65.401	65.002	-0.109	0.0	0.2	0.0
2496	65.401	65.002	-0.109	0.0	0.2	0.0
2520	65.401	65.002	-0.109	0.0	0.2	0.0
2544	65.401	65.002	-0.109	0.0	0.2	0.0
2568	65.401	65.002	-0.109	0.0	0.2	0.1
2592	65.401	65.002	-0.109	0.0	0.2	0.1
2616	65.401	65.002	-0.109	0.0	0.2	0.1
2640	65.401	65.002	-0.109	0.0	0.2	0.1
2664	65.402	65.002	-0.108	0.0	0.2	0.1
2688	65.402	65.002	-0.108	0.0	0.3	0.1
2712	65.402	65.002	-0.108	0.0	0.3	0.1
2736	65.402	65.002	-0.108	0.0	0.3	0.1
2760	65.402	65.002	-0.108	0.0	0.3	0.1
2784	65.402	65.003	-0.108	0.0	0.3	0.1
2808	65.402	65.003	-0.108	0.0	0.3	0.1
2832	65.402	65.003	-0.108	0.0	0.3	0.1
2856	65.402	65.003	-0.108	0.0	0.3	0.1
2880	65.402	65.003	-0.108	0.0	0.3	0.1
2904	65.402	65.003	-0.108	0.0	0.3	0.1
2928	65.402	65.003	-0.108	0.0	0.3	0.1
2952	65.402	65.003	-0.108	0.0	0.3	0.1
2976	65.402	65.003	-0.108	0.0	0.3	0.1
3000	65.402	65.003	-0.108	0.0	0.3	0.1
3024	65.402	65.002	-0.108	0.0	0.3	0.1
3048	65.402	65.002	-0.108	0.0	0.3	0.1
3072	65.402	65.002	-0.108	0.0	0.3	0.1
3096	65.402	65.002	-0.108	0.0	0.3	0.1
3120	65.402	65.002	-0.108	0.0	0.2	0.1
3144	65.401	65.002	-0.109	0.0	0.2	0.1
3168	65.401	65.002	-0.109	0.0	0.2	0.1
3192	65.401	65.002	-0.109	0.0	0.2	0.1
3216	65.401	65.002	-0.109	0.0	0.2	0.1
3240	65.401	65.002	-0.109	0.0	0.2	0.0
3264	65.401	65.002	-0.109	0.0	0.2	0.0
3288	65.401	65.002	-0.109	0.0	0.2	0.0
3312	65.401	65.002	-0.109	0.0	0.2	0.0
3336	65.401	65.002	-0.109	0.0	0.2	0.0
3360	65.401	65.001	-0.109	0.0	0.2	0.0
3384	65.401	65.001	-0.109	0.0	0.2	0.0
3408	65.401	65.001	-0.109	0.0	0.2	0.0
3432	65.401	65.001	-0.109	0.0	0.1	0.0
3456	65.401	65.001	-0.109	0.0	0.1	0.0
3480	65.401	65.001	-0.109	0.0	0.1	0.0
3504	65.401	65.001	-0.109	0.0	0.1	0.0
3528	65.401	65.001	-0.109	0.0	0.1	0.0
3552	65.401	65.001	-0.109	0.0	0.1	0.0
3576	65.401	65.001	-0.109	0.0	0.1	0.0
3600	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	65.001	-0.109	0.0	0.1	0.0
3648	65.401	65.001	-0.109	0.0	0.1	0.0
3672	65.401	65.001	-0.109	0.0	0.1	0.0
3696	65.401	65.001	-0.109	0.0	0.1	0.0
3720	65.401	65.001	-0.109	0.0	0.1	0.0
3744	65.401	65.001	-0.109	0.0	0.1	0.0
3768	65.400	65.001	-0.110	0.0	0.1	0.0
3792	65.400	65.001	-0.110	0.0	0.1	0.0
3816	65.400	65.001	-0.110	0.0	0.1	0.0
3840	65.400	65.001	-0.110	0.0	0.1	0.0
3864	65.400	65.001	-0.110	0.0	0.1	0.0
3888	65.400	65.001	-0.110	0.0	0.1	0.0
3912	65.400	65.001	-0.110	0.0	0.1	0.0
3936	65.400	65.001	-0.110	0.0	0.1	0.0
3960	65.400	65.001	-0.110	0.0	0.1	0.0
3984	65.400	65.001	-0.110	0.0	0.1	0.0
4008	65.400	65.000	-0.110	0.0	0.1	0.0
4032	65.400	65.000	-0.110	0.0	0.1	0.0
4056	65.400	65.000	-0.110	0.0	0.1	0.0
4080	65.400	65.000	-0.110	0.0	0.1	0.0
4104	65.400	65.000	-0.110	0.0	0.1	0.0
4128	65.400	65.000	-0.110	0.0	0.1	0.0
4152	65.400	65.000	-0.110	0.0	0.1	0.0
4176	65.400	65.000	-0.110	0.0	0.0	0.0
4200	65.400	65.000	-0.110	0.0	0.0	0.0
4224	65.400	65.000	-0.110	0.0	0.0	0.0
4248	65.400	65.000	-0.110	0.0	0.0	0.0
4272	65.400	65.000	-0.110	0.0	0.0	0.0
4296	65.400	65.000	-0.110	0.0	0.0	0.0
4320	65.400	65.000	-0.110	0.0	0.0	0.0
4344	65.400	65.000	-0.110	0.0	0.0	0.0
4368	65.400	65.000	-0.110	0.0	0.0	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.446	-0.110	0.0	0.1	0.0
48	65.000	63.446	-0.110	0.0	0.1	0.0
72	65.000	63.446	-0.110	0.0	0.1	0.0
96	65.000	63.446	-0.110	0.0	0.1	0.0
120	65.000	63.446	-0.110	0.0	0.1	0.0
144	65.000	63.446	-0.110	0.0	0.1	0.0
168	65.000	63.446	-0.110	0.0	0.1	0.0
192	65.000	63.446	-0.110	0.0	0.1	0.0
216	65.000	63.446	-0.110	0.0	0.1	0.0
240	65.000	63.446	-0.110	0.0	0.1	0.0
264	65.000	63.446	-0.110	0.0	0.1	0.0
288	65.000	63.446	-0.110	0.0	0.1	0.0
312	65.000	63.446	-0.110	0.0	0.1	0.0
336	65.000	63.446	-0.110	0.0	0.1	0.0
360	65.000	63.446	-0.110	0.0	0.1	0.0
384	65.000	63.446	-0.110	0.0	0.1	0.0
408	65.000	63.446	-0.110	0.0	0.1	0.0
432	65.000	63.446	-0.110	0.0	0.1	0.0
456	65.000	63.446	-0.110	0.0	0.1	0.0
480	65.000	63.446	-0.110	0.0	0.1	0.0
504	65.000	63.446	-0.110	0.0	0.1	0.0
528	65.000	63.446	-0.110	0.0	0.1	0.0
552	65.000	63.446	-0.110	0.0	0.1	0.0
576	65.000	63.446	-0.110	0.0	0.1	0.0
600	65.000	63.446	-0.110	0.0	0.1	0.0
624	65.000	63.446	-0.110	0.0	0.1	0.0
648	65.000	63.446	-0.110	0.0	0.1	0.0
672	65.000	63.446	-0.110	0.0	0.1	0.0
696	65.000	63.446	-0.110	0.0	0.1	0.0
720	65.000	63.446	-0.110	0.0	0.1	0.0
744	65.000	63.446	-0.110	0.0	0.1	0.0
768	65.000	63.446	-0.110	0.0	0.1	0.0
792	65.000	63.446	-0.110	0.0	0.1	0.0
816	65.000	63.446	-0.110	0.0	0.1	0.0
840	65.000	63.447	-0.110	0.0	0.1	0.0
864	65.000	63.447	-0.110	0.0	0.1	0.0
888	65.000	63.447	-0.110	0.0	0.1	0.0
912	65.000	63.447	-0.110	0.0	0.1	0.0
936	65.000	63.447	-0.110	0.0	0.1	0.0
960	65.000	63.447	-0.110	0.0	0.1	0.0
984	65.000	63.447	-0.110	0.0	0.1	0.0
1008	65.000	63.447	-0.110	0.0	0.1	0.0
1032	65.000	63.447	-0.110	0.0	0.1	0.0
1056	65.000	63.447	-0.110	0.0	0.1	0.0
1080	65.000	63.447	-0.110	0.0	0.1	0.0
1104	65.000	63.447	-0.110	0.0	0.1	0.0
1128	65.000	63.447	-0.110	0.0	0.1	0.0
1152	65.000	63.447	-0.110	0.0	0.1	0.0
1176	65.000	63.447	-0.110	0.0	0.1	0.0
1200	65.000	63.447	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.447	-0.110	0.0	0.1	0.0
1248	65.000	63.447	-0.110	0.0	0.1	0.0
1272	65.000	63.447	-0.110	0.0	0.1	0.0
1296	65.000	63.447	-0.110	0.0	0.1	0.0
1320	65.000	63.447	-0.110	0.0	0.1	0.0
1344	65.000	63.447	-0.110	0.0	0.1	0.0
1368	65.000	63.447	-0.110	0.0	0.1	0.0
1392	65.000	63.447	-0.110	0.0	0.1	0.0
1416	65.000	63.447	-0.110	0.0	0.1	0.0
1440	65.000	63.447	-0.110	0.0	0.1	0.0
1464	65.000	63.447	-0.110	0.0	0.1	0.0
1488	65.000	63.447	-0.110	0.0	0.1	0.0
1512	65.000	63.447	-0.110	0.0	0.1	0.0
1536	65.000	63.448	-0.110	0.0	0.1	0.0
1560	65.000	63.448	-0.110	0.0	0.1	0.0
1584	65.000	63.448	-0.110	0.0	0.1	0.0
1608	65.000	63.448	-0.110	0.0	0.1	0.0
1632	65.000	63.448	-0.110	0.0	0.1	0.0
1656	65.000	63.448	-0.110	0.0	0.1	0.0
1680	65.000	63.448	-0.110	0.0	0.1	0.0
1704	65.000	63.448	-0.110	0.0	0.1	0.0
1728	65.000	63.448	-0.110	0.0	0.1	0.0
1752	65.000	63.448	-0.110	0.0	0.1	0.0
1776	65.000	63.448	-0.110	0.0	0.1	0.0
1800	65.001	63.448	-0.109	0.0	0.1	0.0
1824	65.001	63.448	-0.109	0.0	0.1	0.0
1848	65.001	63.449	-0.109	0.0	0.1	0.0
1872	65.001	63.449	-0.109	0.0	0.1	0.0
1896	65.001	63.449	-0.109	0.0	0.1	0.0
1920	65.001	63.449	-0.109	0.0	0.1	0.0
1944	65.001	63.449	-0.109	0.0	0.1	0.0
1968	65.001	63.449	-0.109	0.0	0.1	0.0
1992	65.001	63.450	-0.109	0.0	0.2	0.0
2016	65.001	63.450	-0.109	0.0	0.2	0.0
2040	65.001	63.450	-0.109	0.0	0.2	0.0
2064	65.001	63.450	-0.109	0.0	0.2	0.0
2088	65.001	63.451	-0.109	0.0	0.2	0.0
2112	65.001	63.451	-0.109	0.0	0.2	0.0
2136	65.001	63.451	-0.109	0.0	0.2	0.0
2160	65.001	63.452	-0.109	0.0	0.2	0.1
2184	65.001	63.452	-0.109	0.0	0.2	0.1
2208	65.001	63.452	-0.109	0.0	0.2	0.1
2232	65.001	63.452	-0.109	0.0	0.2	0.1
2256	65.001	63.453	-0.109	0.0	0.2	0.1
2280	65.001	63.453	-0.109	0.0	0.3	0.1
2304	65.001	63.453	-0.109	0.0	0.3	0.1
2328	65.001	63.454	-0.109	0.0	0.3	0.1
2352	65.001	63.454	-0.109	0.0	0.3	0.1
2376	65.001	63.455	-0.109	0.0	0.3	0.1
2400	65.001	63.455	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.455	-0.109	0.0	0.3	0.1
2448	65.002	63.456	-0.108	0.0	0.4	0.1
2472	65.002	63.456	-0.108	0.0	0.4	0.1
2496	65.002	63.456	-0.108	0.0	0.4	0.1
2520	65.002	63.456	-0.108	0.0	0.4	0.1
2544	65.002	63.456	-0.108	0.0	0.4	0.1
2568	65.002	63.456	-0.108	0.0	0.4	0.1
2592	65.002	63.456	-0.108	0.0	0.4	0.1
2616	65.002	63.457	-0.108	0.0	0.5	0.1
2640	65.002	63.457	-0.108	0.0	0.5	0.1
2664	65.002	63.457	-0.108	0.0	0.5	0.1
2688	65.002	63.457	-0.108	0.0	0.5	0.1
2712	65.002	63.457	-0.108	0.0	0.5	0.1
2736	65.002	63.458	-0.108	0.0	0.6	0.1
2760	65.002	63.458	-0.108	0.0	0.6	0.1
2784	65.003	63.458	-0.107	0.0	0.6	0.1
2808	65.003	63.458	-0.107	0.0	0.6	0.1
2832	65.003	63.459	-0.107	0.0	0.6	0.2
2856	65.003	63.459	-0.107	0.0	0.7	0.2
2880	65.003	63.459	-0.107	0.0	0.7	0.2
2904	65.003	63.460	-0.107	0.0	0.7	0.2
2928	65.003	63.464	-0.107	0.0	0.7	0.2
2952	65.003	63.471	-0.107	0.0	0.6	0.2
2976	65.003	63.479	-0.107	0.0	0.6	0.1
3000	65.003	63.488	-0.107	0.0	0.6	0.1
3024	65.002	63.496	-0.108	0.0	0.6	0.1
3048	65.002	63.504	-0.108	0.0	0.6	0.1
3072	65.002	63.511	-0.108	0.0	0.5	0.1
3096	65.002	63.518	-0.108	0.0	0.5	0.1
3120	65.002	63.524	-0.108	0.0	0.5	0.1
3144	65.002	63.530	-0.108	0.0	0.5	0.1
3168	65.002	63.536	-0.108	0.0	0.5	0.1
3192	65.002	63.541	-0.108	0.0	0.4	0.1
3216	65.002	63.546	-0.108	0.0	0.4	0.1
3240	65.002	63.550	-0.108	0.0	0.4	0.1
3264	65.002	63.554	-0.108	0.0	0.4	0.1
3288	65.002	63.559	-0.108	0.0	0.4	0.1
3312	65.002	63.562	-0.108	0.0	0.4	0.1
3336	65.002	63.566	-0.108	0.0	0.4	0.1
3360	65.001	63.569	-0.109	0.0	0.3	0.1
3384	65.001	63.572	-0.109	0.0	0.3	0.1
3408	65.001	63.575	-0.109	0.0	0.3	0.1
3432	65.001	63.577	-0.109	0.0	0.3	0.1
3456	65.001	63.579	-0.109	0.0	0.3	0.1
3480	65.001	63.581	-0.109	0.0	0.3	0.1
3504	65.001	63.582	-0.109	0.0	0.3	0.1
3528	65.001	63.584	-0.109	0.0	0.2	0.1
3552	65.001	63.585	-0.109	0.0	0.2	0.1
3576	65.001	63.586	-0.109	0.0	0.2	0.1
3600	65.001	63.587	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.001	63.587	-0.109	0.0	0.2	0.1
3648	65.001	63.588	-0.109	0.0	0.2	0.0
3672	65.001	63.588	-0.109	0.0	0.2	0.0
3696	65.001	63.588	-0.109	0.0	0.2	0.0
3720	65.001	63.588	-0.109	0.0	0.2	0.0
3744	65.001	63.588	-0.109	0.0	0.2	0.0
3768	65.001	63.588	-0.109	0.0	0.2	0.0
3792	65.001	63.587	-0.109	0.0	0.2	0.0
3816	65.001	63.587	-0.109	0.0	0.1	0.0
3840	65.001	63.586	-0.109	0.0	0.1	0.0
3864	65.001	63.585	-0.109	0.0	0.1	0.0
3888	65.001	63.584	-0.109	0.0	0.1	0.0
3912	65.001	63.584	-0.109	0.0	0.1	0.0
3936	65.001	63.583	-0.109	0.0	0.1	0.0
3960	65.001	63.581	-0.109	0.0	0.1	0.0
3984	65.001	63.580	-0.109	0.0	0.1	0.0
4008	65.000	63.579	-0.110	0.0	0.1	0.0
4032	65.000	63.578	-0.110	0.0	0.1	0.0
4056	65.000	63.576	-0.110	0.0	0.1	0.0
4080	65.000	63.575	-0.110	0.0	0.1	0.0
4104	65.000	63.574	-0.110	0.0	0.1	0.0
4128	65.000	63.572	-0.110	0.0	0.1	0.0
4152	65.000	63.571	-0.110	0.0	0.1	0.0
4176	65.000	63.570	-0.110	0.0	0.1	0.0
4200	65.000	63.568	-0.110	0.0	0.1	0.0
4224	65.000	63.566	-0.110	0.0	0.1	0.0
4248	65.000	63.565	-0.110	0.0	0.1	0.0
4272	65.000	63.563	-0.110	0.0	0.1	0.0
4296	65.000	63.562	-0.110	0.0	0.1	0.0
4320	65.000	63.560	-0.110	0.0	0.1	0.0
4344	65.000	63.558	-0.110	0.0	0.1	0.0
4368	65.000	63.556	-0.110	0.0	0.1	0.0
4392	65.000	63.555	-0.110	0.0	0.1	0.0
4416	65.000	63.553	-0.110	0.0	0.1	0.0
4440	65.000	63.551	-0.110	0.0	0.1	0.0
4464	65.000	63.550	-0.110	0.0	0.1	0.0
4488	65.000	63.548	-0.110	0.0	0.1	0.0
4512	65.000	63.546	-0.110	0.0	0.1	0.0
4536	65.000	63.544	-0.110	0.0	0.1	0.0
4560	65.000	63.542	-0.110	0.0	0.1	0.0
4584	65.000	63.540	-0.110	0.0	0.1	0.0
4608	65.000	63.539	-0.110	0.0	0.1	0.0
4632	65.000	63.537	-0.110	0.0	0.1	0.0
4656	65.000	63.535	-0.110	0.0	0.1	0.0
4680	65.000	63.533	-0.110	0.0	0.1	0.0
4704	65.000	63.531	-0.110	0.0	0.1	0.0
4728	65.000	63.529	-0.110	0.0	0.1	0.0
4752	65.000	63.527	-0.110	0.0	0.1	0.0
4776	65.000	63.525	-0.110	0.0	0.1	0.0
4800	65.000	63.523	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.521	-0.110	0.0	0.1	0.0
4848	65.000	63.519	-0.110	0.0	0.1	0.0
4872	65.000	63.517	-0.110	0.0	0.1	0.0
4896	65.000	63.515	-0.110	0.0	0.1	0.0
4920	65.000	63.513	-0.110	0.0	0.1	0.0
4944	65.000	63.511	-0.110	0.0	0.1	0.0
4968	65.000	63.509	-0.110	0.0	0.1	0.0
4992	65.000	63.507	-0.110	0.0	0.1	0.0
5016	65.000	63.505	-0.110	0.0	0.1	0.0
5040	65.000	63.503	-0.110	0.0	0.1	0.0
5064	65.000	63.501	-0.110	0.0	0.1	0.0
5088	65.000	63.499	-0.110	0.0	0.1	0.0
5112	65.000	63.497	-0.110	0.0	0.1	0.0
5136	65.000	63.495	-0.110	0.0	0.1	0.0
5160	65.000	63.493	-0.110	0.0	0.1	0.0
5184	65.000	63.491	-0.110	0.0	0.1	0.0
5208	65.000	63.489	-0.110	0.0	0.1	0.0
5232	65.000	63.486	-0.110	0.0	0.1	0.0
5256	65.000	63.484	-0.110	0.0	0.1	0.0
5280	65.000	63.482	-0.110	0.0	0.1	0.0
5304	65.000	63.480	-0.110	0.0	0.1	0.0
5328	65.000	63.478	-0.110	0.0	0.1	0.0
5352	65.000	63.476	-0.110	0.0	0.1	0.0
5376	65.000	63.474	-0.110	0.0	0.1	0.0
5400	65.000	63.472	-0.110	0.0	0.1	0.0
5424	65.000	63.470	-0.110	0.0	0.1	0.0
5448	65.000	63.467	-0.110	0.0	0.1	0.0
5472	65.000	63.465	-0.110	0.0	0.1	0.0
5496	65.000	63.463	-0.110	0.0	0.1	0.0
5520	65.000	63.461	-0.110	0.0	0.1	0.0
5544	65.000	63.459	-0.110	0.0	0.1	0.0
5568	65.000	63.458	-0.110	0.0	0.1	0.0
5592	65.000	63.454	-0.110	0.0	0.1	0.0
5616	65.000	63.453	-0.110	0.0	0.1	0.0
5640	65.000	63.451	-0.110	0.0	0.1	0.0
5664	65.000	63.450	-0.110	0.0	0.1	0.0
5688	65.000	63.448	-0.110	0.0	0.1	0.0
5712	65.000	63.448	-0.110	0.0	0.1	0.0
5736	65.000	63.447	-0.110	0.0	0.1	0.0
5760	65.000	63.447	-0.110	0.0	0.1	0.0
5784	65.000	63.444	-0.110	0.0	0.0	0.0
5808	65.000	63.444	-0.110	0.0	0.0	0.0
5832	65.000	63.444	-0.110	0.0	0.0	0.0
5856	65.000	63.444	-0.110	0.0	0.0	0.0
5880	65.000	63.444	-0.110	0.0	0.0	0.0
5904	65.000	63.444	-0.110	0.0	0.0	0.0
5928	65.000	63.444	-0.110	0.0	0.0	0.0
5952	65.000	63.444	-0.110	0.0	0.0	0.0
5976	65.000	63.444	-0.110	0.0	0.0	0.0
6000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.444	-0.110	0.0	0.0	0.0
6048	65.000	63.444	-0.110	0.0	0.0	0.0
6072	65.000	63.444	-0.110	0.0	0.0	0.0
6096	65.000	63.444	-0.110	0.0	0.0	0.0
6120	65.000	63.444	-0.110	0.0	0.0	0.0
6144	65.000	63.444	-0.110	0.0	0.0	0.0
6168	65.000	63.444	-0.110	0.0	0.0	0.0
6192	65.000	63.444	-0.110	0.0	0.0	0.0
6216	65.000	63.444	-0.110	0.0	0.0	0.0
6240	65.000	63.444	-0.110	0.0	0.0	0.0
6264	65.000	63.444	-0.110	0.0	0.0	0.0
6288	65.000	63.444	-0.110	0.0	0.0	0.0
6312	65.000	63.444	-0.110	0.0	0.0	0.0
6336	65.000	63.444	-0.110	0.0	0.0	0.0
6360	65.000	63.444	-0.110	0.0	0.0	0.0
6384	65.000	63.444	-0.110	0.0	0.0	0.0
6408	65.000	63.444	-0.110	0.0	0.0	0.0
6432	65.000	63.444	-0.110	0.0	0.0	0.0
6456	65.000	63.444	-0.110	0.0	0.0	0.0
6480	65.000	63.444	-0.110	0.0	0.0	0.0
6504	65.000	63.444	-0.110	0.0	0.0	0.0
6528	65.000	63.444	-0.110	0.0	0.0	0.0
6552	65.000	63.444	-0.110	0.0	0.0	0.0
6576	65.000	63.444	-0.110	0.0	0.0	0.0
6600	65.000	63.444	-0.110	0.0	0.0	0.0
6624	65.000	63.444	-0.110	0.0	0.0	0.0
6648	65.000	63.444	-0.110	0.0	0.0	0.0
6672	65.000	63.444	-0.110	0.0	0.0	0.0
6696	65.000	63.444	-0.110	0.0	0.0	0.0
6720	65.000	63.444	-0.110	0.0	0.0	0.0
6744	65.000	63.444	-0.110	0.0	0.0	0.0
6768	65.000	63.444	-0.110	0.0	0.0	0.0
6792	65.000	63.444	-0.110	0.0	0.0	0.0
6816	65.000	63.444	-0.110	0.0	0.0	0.0
6840	65.000	63.444	-0.110	0.0	0.0	0.0
6864	65.000	63.444	-0.110	0.0	0.0	0.0
6888	65.000	63.444	-0.110	0.0	0.0	0.0
6912	65.000	63.444	-0.110	0.0	0.0	0.0
6936	65.000	63.444	-0.110	0.0	0.0	0.0
6960	65.000	63.444	-0.110	0.0	0.0	0.0
6984	65.000	63.444	-0.110	0.0	0.0	0.0
7008	65.000	63.444	-0.110	0.0	0.0	0.0
7032	65.000	63.444	-0.110	0.0	0.0	0.0
7056	65.000	63.444	-0.110	0.0	0.0	0.0
7080	65.000	63.444	-0.110	0.0	0.0	0.0
7104	65.000	63.444	-0.110	0.0	0.0	0.0
7128	65.000	63.444	-0.110	0.0	0.0	0.0
7152	65.000	63.444	-0.110	0.0	0.0	0.0
7176	65.000	63.444	-0.110	0.0	0.0	0.0
7200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.446	63.251	-0.108	0.0	0.1	0.0
48	63.446	63.252	-0.108	0.0	0.1	0.0
72	63.446	63.253	-0.108	0.0	0.1	0.0
96	63.446	63.254	-0.108	0.0	0.1	0.0
120	63.446	63.255	-0.108	0.0	0.1	0.0
144	63.446	63.256	-0.108	0.0	0.1	0.0
168	63.446	63.257	-0.108	0.0	0.1	0.0
192	63.446	63.258	-0.108	0.0	0.1	0.0
216	63.446	63.259	-0.108	0.0	0.1	0.0
240	63.446	63.259	-0.108	0.0	0.1	0.0
264	63.446	63.260	-0.108	0.0	0.1	0.0
288	63.446	63.260	-0.108	0.0	0.1	0.0
312	63.446	63.261	-0.108	0.0	0.1	0.0
336	63.446	63.261	-0.108	0.0	0.1	0.0
360	63.446	63.261	-0.108	0.0	0.1	0.0
384	63.446	63.261	-0.108	0.0	0.1	0.0
408	63.446	63.262	-0.108	0.0	0.1	0.0
432	63.446	63.262	-0.108	0.0	0.1	0.0
456	63.446	63.262	-0.108	0.0	0.1	0.0
480	63.446	63.262	-0.108	0.0	0.1	0.0
504	63.446	63.262	-0.108	0.0	0.1	0.0
528	63.446	63.263	-0.108	0.0	0.1	0.0
552	63.446	63.263	-0.108	0.0	0.1	0.0
576	63.446	63.263	-0.108	0.0	0.1	0.0
600	63.446	63.263	-0.108	0.0	0.1	0.0
624	63.446	63.263	-0.108	0.0	0.1	0.0
648	63.446	63.263	-0.108	0.0	0.1	0.0
672	63.446	63.263	-0.108	0.0	0.1	0.0
696	63.446	63.263	-0.108	0.0	0.1	0.0
720	63.446	63.263	-0.108	0.0	0.1	0.0
744	63.446	63.263	-0.108	0.0	0.1	0.0
768	63.446	63.264	-0.108	0.0	0.1	0.0
792	63.446	63.264	-0.108	0.0	0.1	0.0
816	63.446	63.264	-0.108	0.0	0.1	0.0
840	63.447	63.264	-0.108	0.0	0.1	0.0
864	63.447	63.264	-0.108	0.0	0.1	0.0
888	63.447	63.264	-0.108	0.0	0.1	0.0
912	63.447	63.264	-0.108	0.0	0.1	0.0
936	63.447	63.264	-0.107	0.0	0.1	0.0
960	63.447	63.264	-0.107	0.0	0.1	0.0
984	63.447	63.264	-0.107	0.0	0.1	0.0
1008	63.447	63.264	-0.107	0.0	0.1	0.0
1032	63.447	63.264	-0.107	0.0	0.1	0.0
1056	63.447	63.265	-0.107	0.0	0.1	0.0
1080	63.447	63.265	-0.107	0.0	0.2	0.0
1104	63.447	63.265	-0.107	0.0	0.2	0.0
1128	63.447	63.265	-0.107	0.0	0.2	0.0
1152	63.447	63.265	-0.107	0.0	0.2	0.0
1176	63.447	63.265	-0.107	0.0	0.2	0.0
1200	63.447	63.265	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.447	63.265	-0.107	0.0	0.2	0.0
1248	63.447	63.265	-0.107	0.0	0.2	0.0
1272	63.447	63.265	-0.107	0.0	0.2	0.0
1296	63.447	63.265	-0.107	0.0	0.2	0.0
1320	63.447	63.266	-0.107	0.0	0.2	0.0
1344	63.447	63.266	-0.107	0.0	0.2	0.0
1368	63.447	63.266	-0.107	0.0	0.2	0.0
1392	63.447	63.266	-0.107	0.0	0.2	0.0
1416	63.447	63.266	-0.107	0.0	0.2	0.0
1440	63.447	63.266	-0.107	0.0	0.2	0.0
1464	63.447	63.266	-0.107	0.0	0.2	0.0
1488	63.447	63.266	-0.107	0.0	0.2	0.0
1512	63.447	63.267	-0.107	0.0	0.2	0.0
1536	63.448	63.267	-0.107	0.0	0.2	0.0
1560	63.448	63.267	-0.107	0.0	0.2	0.0
1584	63.448	63.267	-0.106	0.0	0.2	0.0
1608	63.448	63.267	-0.106	0.0	0.2	0.0
1632	63.448	63.267	-0.106	0.0	0.2	0.0
1656	63.448	63.267	-0.106	0.0	0.2	0.1
1680	63.448	63.268	-0.106	0.0	0.2	0.1
1704	63.448	63.268	-0.106	0.0	0.2	0.1
1728	63.448	63.268	-0.106	0.0	0.2	0.1
1752	63.448	63.268	-0.106	0.0	0.2	0.1
1776	63.448	63.269	-0.106	0.0	0.2	0.1
1800	63.448	63.269	-0.106	0.0	0.2	0.1
1824	63.448	63.269	-0.106	0.0	0.2	0.1
1848	63.449	63.269	-0.106	0.0	0.2	0.1
1872	63.449	63.270	-0.105	0.0	0.3	0.1
1896	63.449	63.270	-0.105	0.0	0.3	0.1
1920	63.449	63.270	-0.105	0.0	0.3	0.1
1944	63.449	63.271	-0.105	0.0	0.3	0.1
1968	63.449	63.271	-0.105	0.0	0.3	0.1
1992	63.450	63.272	-0.105	0.0	0.3	0.1
2016	63.450	63.272	-0.105	0.0	0.3	0.1
2040	63.450	63.273	-0.104	0.0	0.3	0.1
2064	63.450	63.273	-0.104	0.0	0.3	0.1
2088	63.451	63.274	-0.104	0.0	0.4	0.1
2112	63.451	63.274	-0.103	0.0	0.4	0.1
2136	63.451	63.275	-0.103	0.0	0.4	0.1
2160	63.452	63.276	-0.103	0.0	0.4	0.1
2184	63.452	63.277	-0.103	0.0	0.4	0.1
2208	63.452	63.278	-0.102	0.0	0.4	0.1
2232	63.452	63.279	-0.102	0.0	0.4	0.1
2256	63.453	63.281	-0.101	0.0	0.3	0.1
2280	63.453	63.282	-0.101	0.0	0.3	0.1
2304	63.453	63.284	-0.101	0.0	0.3	0.1
2328	63.454	63.286	-0.100	0.0	0.3	0.1
2352	63.454	63.289	-0.100	0.0	0.3	0.1
2376	63.455	63.292	-0.099	0.0	0.3	0.1
2400	63.455	63.296	-0.099	0.0	0.3	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.455	63.300	-0.099	0.0	0.3	0.2
2448	63.456	63.305	-0.099	0.0	0.3	0.2
2472	63.456	63.310	-0.099	0.0	0.3	0.2
2496	63.456	63.315	-0.098	0.0	0.3	0.2
2520	63.456	63.320	-0.098	0.0	0.3	0.2
2544	63.456	63.326	-0.098	0.0	0.3	0.2
2568	63.456	63.332	-0.098	0.0	0.4	0.2
2592	63.456	63.338	-0.098	0.0	0.4	0.2
2616	63.457	63.345	-0.097	0.0	0.4	0.2
2640	63.457	63.351	-0.097	0.0	0.4	0.2
2664	63.457	63.358	-0.097	0.0	0.4	0.2
2688	63.457	63.368	-0.097	0.0	0.4	0.2
2712	63.457	63.377	-0.097	0.0	0.4	0.3
2736	63.458	63.387	-0.096	0.0	0.4	0.3
2760	63.458	63.396	-0.096	0.0	0.4	0.3
2784	63.458	63.405	-0.096	0.0	0.4	0.3
2808	63.458	63.414	-0.096	0.0	0.4	0.3
2832	63.459	63.422	-0.095	0.0	0.4	0.3
2856	63.459	63.432	-0.095	0.0	0.4	0.3
2880	63.459	63.441	-0.095	0.0	0.4	0.3
2904	63.460	63.450	-0.094	0.0	0.4	0.3
2928	63.464	63.460	-0.090	0.0	0.3	0.3
2952	63.471	63.470	-0.083	0.0	0.2	0.3
2976	63.479	63.478	-0.075	0.0	0.1	0.3
3000	63.488	63.487	-0.066	0.0	0.1	0.3
3024	63.496	63.495	-0.058	0.0	0.1	0.3
3048	63.504	63.503	-0.050	0.0	0.1	0.3
3072	63.511	63.510	-0.043	0.0	0.0	0.3
3096	63.518	63.517	-0.037	0.0	0.0	0.2
3120	63.524	63.523	-0.030	0.0	0.0	0.2
3144	63.530	63.529	-0.024	0.0	0.0	0.2
3168	63.536	63.535	-0.018	0.0	0.0	0.2
3192	63.541	63.540	-0.013	0.0	0.0	0.2
3216	63.546	63.545	-0.008	0.0	0.0	0.2
3240	63.550	63.550	-0.004	0.0	0.0	0.2
3264	63.554	63.554	0.000	0.0	0.0	0.2
3288	63.559	63.558	0.004	0.0	0.0	0.2
3312	63.562	63.562	0.008	0.0	0.0	0.2
3336	63.566	63.565	0.012	0.0	0.0	0.2
3360	63.569	63.569	0.015	0.0	0.0	0.2
3384	63.572	63.571	0.018	0.0	0.0	0.2
3408	63.575	63.574	0.021	0.0	0.0	0.1
3432	63.577	63.576	0.023	0.0	0.0	0.1
3456	63.579	63.578	0.025	0.0	0.0	0.1
3480	63.581	63.580	0.027	0.0	0.0	0.1
3504	63.582	63.582	0.028	0.0	0.0	0.1
3528	63.584	63.583	0.030	0.0	0.0	0.1
3552	63.585	63.585	0.031	0.0	0.0	0.1
3576	63.586	63.586	0.032	0.0	0.0	0.1
3600	63.587	63.586	0.033	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.587	63.587	0.033	0.0	0.0	0.1
3648	63.588	63.588	0.034	0.0	0.0	0.1
3672	63.588	63.588	0.034	0.0	0.0	0.1
3696	63.588	63.588	0.034	0.0	0.0	0.1
3720	63.588	63.588	0.034	0.0	0.0	0.1
3744	63.588	63.588	0.034	0.0	0.0	0.1
3768	63.588	63.587	0.033	0.0	0.0	0.1
3792	63.587	63.587	0.033	0.0	0.0	0.1
3816	63.587	63.586	0.032	0.0	0.0	0.1
3840	63.586	63.586	0.032	0.0	0.0	0.1
3864	63.585	63.585	0.031	0.0	0.0	0.1
3888	63.584	63.584	0.030	0.0	0.0	0.1
3912	63.584	63.583	0.029	0.0	0.0	0.1
3936	63.583	63.582	0.028	0.0	0.0	0.1
3960	63.581	63.581	0.027	0.0	0.0	0.1
3984	63.580	63.580	0.026	0.0	0.0	0.1
4008	63.579	63.579	0.025	0.0	0.0	0.1
4032	63.578	63.578	0.024	0.0	0.0	0.1
4056	63.576	63.576	0.021	0.0	0.0	0.1
4080	63.575	63.575	0.021	0.0	0.0	0.1
4104	63.574	63.574	0.020	0.0	0.0	0.1
4128	63.572	63.572	0.018	0.0	0.0	0.1
4152	63.571	63.571	0.017	0.0	0.0	0.1
4176	63.570	63.569	0.015	0.0	0.0	0.0
4200	63.568	63.568	0.014	0.0	0.0	0.0
4224	63.566	63.566	0.012	0.0	0.0	0.0
4248	63.565	63.565	0.011	0.0	0.0	0.0
4272	63.563	63.563	0.009	0.0	0.0	0.0
4296	63.562	63.561	0.007	0.0	0.0	0.0
4320	63.560	63.560	0.006	0.0	0.0	0.0
4344	63.558	63.558	0.004	0.0	0.0	0.0
4368	63.556	63.556	0.002	0.0	0.0	0.0
4392	63.555	63.555	0.001	0.0	0.0	0.0
4416	63.553	63.553	-0.001	0.0	0.0	0.0
4440	63.551	63.551	-0.003	0.0	0.0	0.0
4464	63.550	63.549	-0.005	0.0	0.0	0.0
4488	63.548	63.548	-0.006	0.0	0.0	0.0
4512	63.546	63.546	-0.008	0.0	0.0	0.0
4536	63.544	63.544	-0.010	0.0	0.0	0.0
4560	63.542	63.542	-0.012	0.0	0.0	0.0
4584	63.540	63.540	-0.014	0.0	0.0	0.0
4608	63.539	63.538	-0.016	0.0	0.0	0.0
4632	63.537	63.537	-0.017	0.0	0.0	0.0
4656	63.535	63.535	-0.019	0.0	0.0	0.0
4680	63.533	63.533	-0.021	0.0	0.0	0.0
4704	63.531	63.531	-0.023	0.0	0.0	0.0
4728	63.529	63.529	-0.025	0.0	0.0	0.0
4752	63.527	63.527	-0.027	0.0	0.0	0.0
4776	63.525	63.525	-0.029	0.0	0.0	0.0
4800	63.523	63.523	-0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.521	63.521	-0.033	0.0	0.0	0.0
4848	63.519	63.519	-0.035	0.0	0.0	0.0
4872	63.517	63.517	-0.037	0.0	0.0	0.0
4896	63.515	63.515	-0.039	0.0	0.0	0.0
4920	63.513	63.513	-0.041	0.0	0.0	0.0
4944	63.511	63.511	-0.043	0.0	0.0	0.0
4968	63.509	63.509	-0.045	0.0	0.0	0.0
4992	63.507	63.507	-0.047	0.0	0.0	0.0
5016	63.505	63.505	-0.049	0.0	0.0	0.0
5040	63.503	63.503	-0.051	0.0	0.0	0.0
5064	63.501	63.501	-0.053	0.0	0.0	0.0
5088	63.499	63.499	-0.055	0.0	0.0	0.0
5112	63.497	63.497	-0.057	0.0	0.0	0.0
5136	63.495	63.495	-0.059	0.0	0.0	0.0
5160	63.493	63.493	-0.061	0.0	0.0	0.0
5184	63.491	63.491	-0.063	0.0	0.0	0.0
5208	63.489	63.488	-0.066	0.0	0.0	0.0
5232	63.486	63.486	-0.068	0.0	0.0	0.0
5256	63.484	63.484	-0.070	0.0	0.0	0.0
5280	63.482	63.482	-0.072	0.0	0.0	0.0
5304	63.480	63.480	-0.074	0.0	0.0	0.0
5328	63.478	63.478	-0.076	0.0	0.0	0.0
5352	63.476	63.476	-0.078	0.0	0.0	0.0
5376	63.474	63.474	-0.080	0.0	0.0	0.0
5400	63.472	63.472	-0.082	0.0	0.0	0.0
5424	63.470	63.469	-0.085	0.0	0.0	0.0
5448	63.467	63.467	-0.087	0.0	0.0	0.0
5472	63.465	63.465	-0.089	0.0	0.0	0.0
5496	63.463	63.463	-0.091	0.0	0.0	0.0
5520	63.461	63.461	-0.093	0.0	0.0	0.0
5544	63.459	63.459	-0.095	0.0	0.0	0.0
5568	63.458	63.457	-0.097	0.0	0.0	0.0
5592	63.454	63.455	-0.100	0.0	0.1	0.0
5616	63.453	63.452	-0.101	0.0	0.1	0.0
5640	63.451	63.450	-0.103	0.0	0.1	0.0
5664	63.450	63.448	-0.104	0.0	0.1	0.0
5688	63.448	63.446	-0.106	0.0	0.1	0.0
5712	63.448	63.444	-0.107	0.0	0.1	0.0
5736	63.447	63.441	-0.107	0.0	0.1	0.0
5760	63.447	63.439	-0.108	0.0	0.1	0.0
5784	63.444	63.436	-0.110	0.0	0.0	0.0
5808	63.444	63.433	-0.110	0.0	0.0	0.0
5832	63.444	63.430	-0.110	0.0	0.0	0.0
5856	63.444	63.426	-0.110	0.0	0.0	0.0
5880	63.444	63.423	-0.110	0.0	0.0	0.0
5904	63.444	63.420	-0.110	0.0	0.0	0.0
5928	63.444	63.417	-0.110	0.0	0.0	0.0
5952	63.444	63.413	-0.110	0.0	0.0	0.0
5976	63.444	63.410	-0.110	0.0	0.0	0.0
6000	63.444	63.407	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.444	63.403	-0.110	0.0	0.0	0.0
6048	63.444	63.400	-0.110	0.0	0.0	0.0
6072	63.444	63.397	-0.110	0.0	0.0	0.0
6096	63.444	63.394	-0.110	0.0	0.0	0.0
6120	63.444	63.391	-0.110	0.0	0.0	0.0
6144	63.444	63.388	-0.110	0.0	0.0	0.0
6168	63.444	63.385	-0.110	0.0	0.0	0.0
6192	63.444	63.382	-0.110	0.0	0.0	0.0
6216	63.444	63.379	-0.110	0.0	0.0	0.0
6240	63.444	63.376	-0.110	0.0	0.0	0.0
6264	63.444	63.373	-0.110	0.0	0.0	0.0
6288	63.444	63.371	-0.110	0.0	0.0	0.0
6312	63.444	63.369	-0.110	0.0	0.0	0.0
6336	63.444	63.367	-0.110	0.0	0.0	0.0
6360	63.444	63.365	-0.110	0.0	0.0	0.0
6384	63.444	63.362	-0.110	0.0	0.0	0.0
6408	63.444	63.358	-0.110	0.0	0.0	0.0
6432	63.444	63.353	-0.110	0.0	0.0	0.0
6456	63.444	63.349	-0.110	0.0	0.0	0.0
6480	63.444	63.347	-0.110	0.0	0.0	0.0
6504	63.444	63.343	-0.110	0.0	0.0	0.0
6528	63.444	63.340	-0.110	0.0	0.0	0.0
6552	63.444	63.337	-0.110	0.0	0.0	0.0
6576	63.444	63.334	-0.110	0.0	0.0	0.0
6600	63.444	63.331	-0.110	0.0	0.0	0.0
6624	63.444	63.328	-0.110	0.0	0.0	0.0
6648	63.444	63.325	-0.110	0.0	0.0	0.0
6672	63.444	63.322	-0.110	0.0	0.0	0.0
6696	63.444	63.319	-0.110	0.0	0.0	0.0
6720	63.444	63.316	-0.110	0.0	0.0	0.0
6744	63.444	63.313	-0.110	0.0	0.0	0.0
6768	63.444	63.309	-0.110	0.0	0.0	0.0
6792	63.444	63.306	-0.110	0.0	0.0	0.0
6816	63.444	63.303	-0.110	0.0	0.0	0.0
6840	63.444	63.299	-0.110	0.0	0.0	0.0
6864	63.444	63.297	-0.110	0.0	0.0	0.0
6888	63.444	63.293	-0.110	0.0	0.0	0.0
6912	63.444	63.289	-0.110	0.0	0.0	0.0
6936	63.444	63.285	-0.110	0.0	0.0	0.0
6960	63.444	63.283	-0.110	0.0	0.0	0.0
6984	63.444	63.280	-0.110	0.0	0.0	0.0
7008	63.444	63.277	-0.110	0.0	0.0	0.0
7032	63.444	63.274	-0.110	0.0	0.0	0.0
7056	63.444	63.271	-0.110	0.0	0.0	0.0
7080	63.444	63.268	-0.110	0.0	0.0	0.0
7104	63.444	63.266	-0.110	0.0	0.0	0.0
7128	63.444	63.264	-0.110	0.0	0.0	0.0
7152	63.444	63.263	-0.110	0.0	0.0	0.0
7176	63.444	63.261	-0.110	0.0	0.0	0.0
7200	63.444	63.260	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.259	-0.110	0.0	0.0	0.0
7248	63.444	63.259	-0.110	0.0	0.0	0.0
7272	63.444	63.258	-0.110	0.0	0.0	0.0
7296	63.444	63.258	-0.110	0.0	0.0	0.0
7320	63.444	63.257	-0.110	0.0	0.0	0.0
7344	63.444	63.257	-0.110	0.0	0.0	0.0
7368	63.444	63.256	-0.110	0.0	0.0	0.0
7392	63.444	63.256	-0.110	0.0	0.0	0.0
7416	63.444	63.256	-0.110	0.0	0.0	0.0
7440	63.444	63.255	-0.110	0.0	0.0	0.0
7464	63.444	63.255	-0.110	0.0	0.0	0.0
7488	63.444	63.255	-0.110	0.0	0.0	0.0
7512	63.444	63.255	-0.110	0.0	0.0	0.0
7536	63.444	63.254	-0.110	0.0	0.0	0.0
7560	63.444	63.254	-0.110	0.0	0.0	0.0
7584	63.444	63.254	-0.110	0.0	0.0	0.0
7608	63.444	63.254	-0.110	0.0	0.0	0.0
7632	63.444	63.254	-0.110	0.0	0.0	0.0
7656	63.444	63.254	-0.110	0.0	0.0	0.0
7680	63.444	63.254	-0.110	0.0	0.0	0.0
7704	63.444	63.253	-0.110	0.0	0.0	0.0
7728	63.444	63.253	-0.110	0.0	0.0	0.0
7752	63.444	63.253	-0.110	0.0	0.0	0.0
7776	63.444	63.253	-0.110	0.0	0.0	0.0
7800	63.444	63.253	-0.110	0.0	0.0	0.0
7824	63.444	63.253	-0.110	0.0	0.0	0.0
7848	63.444	63.253	-0.110	0.0	0.0	0.0
7872	63.444	63.253	-0.110	0.0	0.0	0.0
7896	63.444	63.253	-0.110	0.0	0.0	0.0
7920	63.444	63.253	-0.110	0.0	0.0	0.0
7944	63.444	63.253	-0.110	0.0	0.0	0.0
7968	63.444	63.253	-0.110	0.0	0.0	0.0
7992	63.444	63.252	-0.110	0.0	0.0	0.0
8016	63.444	63.252	-0.110	0.0	0.0	0.0
8040	63.444	63.252	-0.110	0.0	0.0	0.0
8064	63.444	63.252	-0.110	0.0	0.0	0.0
8088	63.444	63.252	-0.110	0.0	0.0	0.0
8112	63.444	63.252	-0.110	0.0	0.0	0.0
8136	63.444	63.252	-0.110	0.0	0.0	0.0
8160	63.444	63.252	-0.110	0.0	0.0	0.0
8184	63.444	63.252	-0.110	0.0	0.0	0.0
8208	63.444	63.252	-0.110	0.0	0.0	0.0
8232	63.444	63.252	-0.110	0.0	0.0	0.0
8256	63.444	63.252	-0.110	0.0	0.0	0.0
8280	63.444	63.252	-0.110	0.0	0.0	0.0
8304	63.444	63.252	-0.110	0.0	0.0	0.0
8328	63.444	63.252	-0.110	0.0	0.0	0.0
8352	63.444	63.252	-0.110	0.0	0.0	0.0
8376	63.444	63.252	-0.110	0.0	0.0	0.0
8400	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.252	-0.110	0.0	0.0	0.0
8448	63.444	63.252	-0.110	0.0	0.0	0.0
8472	63.444	63.252	-0.110	0.0	0.0	0.0
8496	63.444	63.252	-0.110	0.0	0.0	0.0
8520	63.444	63.252	-0.110	0.0	0.0	0.0
8544	63.444	63.252	-0.110	0.0	0.0	0.0
8568	63.444	63.252	-0.110	0.0	0.0	0.0
8592	63.444	63.251	-0.110	0.0	0.0	0.0
8616	63.444	63.251	-0.110	0.0	0.0	0.0
8640	63.444	63.251	-0.110	0.0	0.0	0.0
8664	63.444	63.251	-0.110	0.0	0.0	0.0
8688	63.444	63.251	-0.110	0.0	0.0	0.0
8712	63.444	63.251	-0.110	0.0	0.0	0.0
8736	63.444	63.251	-0.110	0.0	0.0	0.0
8760	63.444	63.251	-0.110	0.0	0.0	0.0
8784	63.444	63.251	-0.110	0.0	0.0	0.0
8808	63.444	63.251	-0.110	0.0	0.0	0.0
8832	63.444	63.251	-0.110	0.0	0.0	0.0
8856	63.444	63.251	-0.110	0.0	0.0	0.0
8880	63.444	63.251	-0.110	0.0	0.0	0.0
8904	63.444	63.251	-0.110	0.0	0.0	0.0
8928	63.444	63.251	-0.110	0.0	0.0	0.0
8952	63.444	63.251	-0.110	0.0	0.0	0.0
8976	63.444	63.251	-0.110	0.0	0.0	0.0
9000	63.444	63.251	-0.110	0.0	0.0	0.0
9024	63.444	63.251	-0.110	0.0	0.0	0.0
9048	63.444	63.251	-0.110	0.0	0.0	0.0
9072	63.444	63.251	-0.110	0.0	0.0	0.0
9096	63.444	63.251	-0.110	0.0	0.0	0.0
9120	63.444	63.251	-0.110	0.0	0.0	0.0
9144	63.444	63.251	-0.110	0.0	0.0	0.0
9168	63.444	63.251	-0.110	0.0	0.0	0.0
9192	63.444	63.251	-0.110	0.0	0.0	0.0
9216	63.444	63.251	-0.110	0.0	0.0	0.0
9240	63.444	63.251	-0.110	0.0	0.0	0.0
9264	63.444	63.251	-0.110	0.0	0.0	0.0
9288	63.444	63.251	-0.110	0.0	0.0	0.0
9312	63.444	63.251	-0.110	0.0	0.0	0.0
9336	63.444	63.251	-0.110	0.0	0.0	0.0
9360	63.444	63.251	-0.110	0.0	0.0	0.0
9384	63.444	63.251	-0.110	0.0	0.0	0.0
9408	63.444	63.251	-0.110	0.0	0.0	0.0
9432	63.444	63.251	-0.110	0.0	0.0	0.0
9456	63.444	63.251	-0.110	0.0	0.0	0.0
9480	63.444	63.251	-0.110	0.0	0.0	0.0
9504	63.444	63.251	-0.110	0.0	0.0	0.0
9528	63.444	63.251	-0.110	0.0	0.0	0.0
9552	63.444	63.251	-0.110	0.0	0.0	0.0
9576	63.444	63.251	-0.110	0.0	0.0	0.0
9600	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.251	-0.110	0.0	0.0	0.0
9648	63.444	63.251	-0.110	0.0	0.0	0.0
9672	63.444	63.251	-0.110	0.0	0.0	0.0
9696	63.444	63.251	-0.110	0.0	0.0	0.0
9720	63.444	63.251	-0.110	0.0	0.0	0.0
9744	63.444	63.251	-0.110	0.0	0.0	0.0
9768	63.444	63.251	-0.110	0.0	0.0	0.0
9792	63.444	63.251	-0.110	0.0	0.0	0.0
9816	63.444	63.251	-0.110	0.0	0.0	0.0
9840	63.444	63.251	-0.110	0.0	0.0	0.0
9864	63.444	63.251	-0.110	0.0	0.0	0.0
9888	63.444	63.251	-0.110	0.0	0.0	0.0
9912	63.444	63.251	-0.110	0.0	0.0	0.0
9936	63.444	63.251	-0.110	0.0	0.0	0.0
9960	63.444	63.251	-0.110	0.0	0.0	0.0
9984	63.444	63.251	-0.110	0.0	0.0	0.0
10008	63.444	63.251	-0.110	0.0	0.0	0.0
10032	63.444	63.251	-0.110	0.0	0.0	0.0
10056	63.444	63.251	-0.110	0.0	0.0	0.0
10080	63.444	63.251	-0.110	0.0	0.0	0.0
10104	63.444	63.251	-0.110	0.0	0.0	0.0
10128	63.444	63.251	-0.110	0.0	0.0	0.0
10152	63.444	63.251	-0.110	0.0	0.0	0.0
10176	63.444	63.251	-0.110	0.0	0.0	0.0
10200	63.444	63.251	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.252	63.100	-0.108	0.0	0.0	0.0
72	63.253	63.101	-0.107	0.0	0.0	0.0
96	63.254	63.101	-0.106	0.0	0.0	0.0
120	63.255	63.102	-0.105	0.0	0.0	0.0
144	63.256	63.104	-0.104	0.0	0.0	0.0
168	63.257	63.105	-0.103	0.0	0.0	0.0
192	63.258	63.106	-0.102	0.0	0.0	0.0
216	63.259	63.108	-0.101	0.0	0.1	0.0
240	63.259	63.110	-0.101	0.0	0.1	0.0
264	63.260	63.112	-0.100	0.0	0.1	0.0
288	63.260	63.113	-0.100	0.0	0.1	0.0
312	63.261	63.114	-0.099	0.0	0.1	0.0
336	63.261	63.116	-0.099	0.0	0.1	0.0
360	63.261	63.116	-0.099	0.0	0.1	0.0
384	63.261	63.117	-0.099	0.0	0.1	0.0
408	63.262	63.118	-0.098	0.0	0.1	0.0
432	63.262	63.119	-0.098	0.0	0.1	0.0
456	63.262	63.119	-0.098	0.0	0.1	0.0
480	63.262	63.120	-0.098	0.0	0.1	0.0
504	63.262	63.120	-0.098	0.0	0.1	0.0
528	63.263	63.121	-0.097	0.0	0.1	0.0
552	63.263	63.121	-0.097	0.0	0.1	0.0
576	63.263	63.121	-0.097	0.0	0.1	0.0
600	63.263	63.122	-0.097	0.0	0.1	0.0
624	63.263	63.122	-0.097	0.0	0.1	0.0
648	63.263	63.122	-0.097	0.0	0.1	0.0
672	63.263	63.122	-0.097	0.0	0.1	0.0
696	63.263	63.123	-0.097	0.0	0.1	0.0
720	63.263	63.123	-0.097	0.0	0.1	0.0
744	63.263	63.123	-0.097	0.0	0.1	0.0
768	63.264	63.123	-0.096	0.0	0.1	0.0
792	63.264	63.124	-0.096	0.0	0.1	0.0
816	63.264	63.124	-0.096	0.0	0.1	0.0
840	63.264	63.124	-0.096	0.0	0.1	0.0
864	63.264	63.124	-0.096	0.0	0.1	0.0
888	63.264	63.124	-0.096	0.0	0.1	0.0
912	63.264	63.125	-0.096	0.0	0.1	0.0
936	63.264	63.125	-0.096	0.0	0.1	0.0
960	63.264	63.125	-0.096	0.0	0.1	0.0
984	63.264	63.126	-0.096	0.0	0.1	0.0
1008	63.264	63.126	-0.096	0.0	0.1	0.0
1032	63.264	63.126	-0.096	0.0	0.1	0.0
1056	63.265	63.126	-0.095	0.0	0.1	0.0
1080	63.265	63.127	-0.095	0.0	0.1	0.0
1104	63.265	63.127	-0.095	0.0	0.1	0.0
1128	63.265	63.127	-0.095	0.0	0.1	0.0
1152	63.265	63.127	-0.095	0.0	0.1	0.0
1176	63.265	63.128	-0.095	0.0	0.1	0.0
1200	63.265	63.128	-0.095	0.0	0.2	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.265	63.128	-0.095	0.0	0.2	0.0
1248	63.265	63.129	-0.095	0.0	0.2	0.0
1272	63.265	63.129	-0.095	0.0	0.2	0.0
1296	63.265	63.129	-0.095	0.0	0.2	0.0
1320	63.266	63.130	-0.094	0.0	0.2	0.0
1344	63.266	63.130	-0.094	0.0	0.2	0.0
1368	63.266	63.130	-0.094	0.0	0.2	0.0
1392	63.266	63.131	-0.094	0.0	0.2	0.0
1416	63.266	63.131	-0.094	0.0	0.2	0.0
1440	63.266	63.131	-0.094	0.0	0.2	0.0
1464	63.266	63.132	-0.094	0.0	0.2	0.0
1488	63.266	63.132	-0.094	0.0	0.2	0.0
1512	63.267	63.133	-0.093	0.0	0.2	0.0
1536	63.267	63.133	-0.093	0.0	0.2	0.0
1560	63.267	63.133	-0.093	0.0	0.2	0.0
1584	63.267	63.134	-0.093	0.0	0.2	0.0
1608	63.267	63.134	-0.093	0.0	0.2	0.0
1632	63.267	63.135	-0.093	0.0	0.2	0.0
1656	63.267	63.135	-0.093	0.0	0.2	0.0
1680	63.268	63.136	-0.092	0.0	0.2	0.0
1704	63.268	63.137	-0.092	0.0	0.2	0.0
1728	63.268	63.137	-0.092	0.0	0.2	0.0
1752	63.268	63.138	-0.092	0.0	0.2	0.0
1776	63.269	63.139	-0.091	0.0	0.2	0.1
1800	63.269	63.139	-0.091	0.0	0.2	0.1
1824	63.269	63.140	-0.091	0.0	0.2	0.1
1848	63.269	63.141	-0.091	0.0	0.2	0.1
1872	63.270	63.142	-0.090	0.0	0.2	0.1
1896	63.270	63.143	-0.090	0.0	0.2	0.1
1920	63.270	63.144	-0.090	0.0	0.2	0.1
1944	63.271	63.145	-0.089	0.0	0.2	0.1
1968	63.271	63.147	-0.089	0.0	0.2	0.1
1992	63.272	63.148	-0.088	0.0	0.2	0.1
2016	63.272	63.149	-0.088	0.0	0.2	0.1
2040	63.273	63.151	-0.087	0.0	0.2	0.1
2064	63.273	63.154	-0.087	0.0	0.2	0.1
2088	63.274	63.157	-0.086	0.0	0.2	0.1
2112	63.274	63.162	-0.086	0.0	0.3	0.1
2136	63.275	63.167	-0.085	0.0	0.3	0.1
2160	63.276	63.173	-0.084	0.0	0.3	0.1
2184	63.277	63.181	-0.083	0.0	0.3	0.1
2208	63.278	63.189	-0.082	0.0	0.3	0.1
2232	63.279	63.198	-0.081	0.0	0.3	0.1
2256	63.281	63.207	-0.079	0.0	0.3	0.1
2280	63.282	63.220	-0.078	0.0	0.3	0.1
2304	63.284	63.231	-0.076	0.0	0.3	0.1
2328	63.286	63.244	-0.074	0.0	0.3	0.1
2352	63.289	63.250	-0.071	0.0	0.2	0.1
2376	63.292	63.249	-0.068	0.0	0.2	0.1
2400	63.296	63.251	-0.064	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.300	63.250	-0.060	0.0	0.2	0.1
2448	63.305	63.251	-0.055	0.0	0.2	0.1
2472	63.310	63.252	-0.050	0.0	0.2	0.1
2496	63.315	63.252	-0.045	0.0	0.2	0.1
2520	63.320	63.252	-0.040	0.0	0.2	0.1
2544	63.326	63.254	-0.034	0.0	0.3	0.1
2568	63.332	63.257	-0.028	0.0	0.3	0.1
2592	63.338	63.261	-0.022	0.0	0.3	0.1
2616	63.345	63.266	-0.015	0.0	0.3	0.1
2640	63.351	63.271	-0.009	0.0	0.3	0.1
2664	63.358	63.277	-0.002	0.0	0.3	0.1
2688	63.368	63.268	0.008	0.0	0.2	0.0
2712	63.377	63.259	0.017	0.0	0.2	0.1
2736	63.387	63.256	0.027	0.0	0.2	0.1
2760	63.396	63.259	0.036	0.0	0.3	0.1
2784	63.405	63.268	0.045	0.0	0.3	0.1
2808	63.414	63.282	0.054	0.0	0.3	0.1
2832	63.422	63.301	0.062	0.0	0.3	0.1
2856	63.432	63.328	0.072	0.0	0.3	0.1
2880	63.441	63.354	0.081	0.0	0.3	0.1
2904	63.450	63.374	0.090	0.0	0.3	0.1
2928	63.460	63.388	0.100	0.0	0.3	0.1
2952	63.470	63.400	0.110	0.0	0.3	0.1
2976	63.478	63.410	0.118	0.0	0.1	0.1
3000	63.487	63.420	0.127	0.0	0.1	0.1
3024	63.495	63.429	0.135	0.0	0.0	0.1
3048	63.503	63.437	0.143	0.0	0.0	0.1
3072	63.510	63.445	0.150	0.0	0.0	0.1
3096	63.517	63.452	0.157	0.0	0.0	0.1
3120	63.523	63.459	0.163	0.0	0.0	0.1
3144	63.529	63.465	0.169	0.0	0.0	0.1
3168	63.535	63.471	0.175	0.0	0.0	0.1
3192	63.540	63.477	0.180	0.0	0.0	0.1
3216	63.545	63.482	0.185	0.0	0.0	0.1
3240	63.550	63.487	0.190	0.0	0.0	0.1
3264	63.554	63.491	0.194	0.0	0.0	0.1
3288	63.558	63.496	0.198	0.0	0.0	0.1
3312	63.562	63.500	0.202	0.0	0.0	0.1
3336	63.565	63.504	0.205	0.0	0.0	0.1
3360	63.569	63.507	0.209	0.0	0.0	0.1
3384	63.571	63.510	0.211	0.0	0.0	0.1
3408	63.574	63.513	0.214	0.0	0.0	0.1
3432	63.576	63.516	0.216	0.0	0.0	0.1
3456	63.578	63.518	0.218	0.0	0.0	0.1
3480	63.580	63.520	0.220	0.0	0.0	0.1
3504	63.582	63.522	0.222	0.0	0.0	0.1
3528	63.583	63.524	0.223	0.0	0.0	0.1
3552	63.585	63.526	0.225	0.0	0.0	0.1
3576	63.586	63.527	0.226	0.0	0.0	0.1
3600	63.586	63.528	0.226	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.587	63.529	0.227	0.0	0.0	0.1
3648	63.588	63.530	0.228	0.0	0.0	0.1
3672	63.588	63.530	0.228	0.0	0.0	0.1
3696	63.588	63.530	0.228	0.0	0.0	0.1
3720	63.588	63.531	0.228	0.0	0.0	0.1
3744	63.588	63.531	0.228	0.0	0.0	0.1
3768	63.587	63.531	0.227	0.0	0.0	0.1
3792	63.587	63.530	0.227	0.0	0.0	0.1
3816	63.586	63.530	0.226	0.0	0.0	0.1
3840	63.586	63.529	0.226	0.0	0.0	0.1
3864	63.585	63.529	0.225	0.0	0.0	0.1
3888	63.584	63.528	0.224	0.0	0.0	0.1
3912	63.583	63.528	0.223	0.0	0.0	0.1
3936	63.582	63.527	0.222	0.0	0.0	0.1
3960	63.581	63.526	0.221	0.0	0.0	0.1
3984	63.580	63.525	0.220	0.0	0.0	0.1
4008	63.579	63.524	0.219	0.0	0.0	0.1
4032	63.578	63.523	0.218	0.0	0.0	0.1
4056	63.576	63.522	0.216	0.0	0.0	0.1
4080	63.575	63.520	0.215	0.0	0.0	0.1
4104	63.574	63.519	0.214	0.0	0.0	0.1
4128	63.572	63.518	0.212	0.0	0.0	0.1
4152	63.571	63.516	0.211	0.0	0.0	0.1
4176	63.569	63.515	0.209	0.0	0.0	0.1
4200	63.568	63.514	0.208	0.0	0.0	0.1
4224	63.566	63.512	0.206	0.0	0.0	0.1
4248	63.565	63.511	0.205	0.0	0.0	0.1
4272	63.563	63.509	0.203	0.0	0.0	0.1
4296	63.561	63.508	0.201	0.0	0.0	0.1
4320	63.560	63.506	0.200	0.0	0.0	0.1
4344	63.558	63.504	0.198	0.0	0.0	0.1
4368	63.556	63.503	0.196	0.0	0.0	0.1
4392	63.555	63.501	0.195	0.0	0.0	0.1
4416	63.553	63.499	0.193	0.0	0.0	0.1
4440	63.551	63.498	0.191	0.0	0.0	0.1
4464	63.549	63.496	0.189	0.0	0.0	0.1
4488	63.548	63.494	0.188	0.0	0.0	0.1
4512	63.546	63.493	0.186	0.0	0.0	0.1
4536	63.544	63.491	0.184	0.0	0.0	0.1
4560	63.542	63.489	0.182	0.0	0.0	0.1
4584	63.540	63.487	0.180	0.0	0.0	0.1
4608	63.538	63.486	0.178	0.0	0.0	0.1
4632	63.537	63.484	0.177	0.0	0.0	0.1
4656	63.535	63.482	0.175	0.0	0.0	0.1
4680	63.533	63.480	0.173	0.0	0.0	0.1
4704	63.531	63.478	0.171	0.0	0.0	0.1
4728	63.529	63.477	0.169	0.0	0.0	0.1
4752	63.527	63.475	0.167	0.0	0.0	0.1
4776	63.525	63.473	0.165	0.0	0.0	0.1
4800	63.523	63.471	0.163	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.521	63.469	0.161	0.0	0.0	0.1
4848	63.519	63.467	0.159	0.0	0.0	0.1
4872	63.517	63.465	0.157	0.0	0.0	0.1
4896	63.515	63.463	0.155	0.0	0.0	0.1
4920	63.513	63.462	0.153	0.0	0.0	0.1
4944	63.511	63.460	0.151	0.0	0.0	0.1
4968	63.509	63.458	0.149	0.0	0.0	0.1
4992	63.507	63.456	0.147	0.0	0.0	0.1
5016	63.505	63.454	0.145	0.0	0.0	0.1
5040	63.503	63.452	0.143	0.0	0.0	0.1
5064	63.501	63.450	0.141	0.0	0.0	0.1
5088	63.499	63.448	0.139	0.0	0.0	0.1
5112	63.497	63.446	0.137	0.0	0.0	0.1
5136	63.495	63.444	0.135	0.0	0.0	0.1
5160	63.493	63.442	0.133	0.0	0.0	0.1
5184	63.491	63.440	0.131	0.0	0.0	0.1
5208	63.488	63.438	0.128	0.0	0.0	0.1
5232	63.486	63.436	0.126	0.0	0.0	0.1
5256	63.484	63.434	0.124	0.0	0.0	0.1
5280	63.482	63.432	0.122	0.0	0.0	0.1
5304	63.480	63.430	0.120	0.0	0.0	0.1
5328	63.478	63.428	0.118	0.0	0.0	0.1
5352	63.476	63.426	0.116	0.0	0.0	0.1
5376	63.474	63.424	0.114	0.0	0.0	0.1
5400	63.472	63.422	0.112	0.0	0.0	0.1
5424	63.469	63.419	0.109	0.0	0.0	0.1
5448	63.467	63.417	0.107	0.0	0.0	0.1
5472	63.465	63.415	0.105	0.0	0.0	0.1
5496	63.463	63.413	0.103	0.0	0.0	0.1
5520	63.461	63.411	0.101	0.0	0.1	0.1
5544	63.459	63.409	0.099	0.0	0.1	0.1
5568	63.457	63.407	0.097	0.0	0.1	0.1
5592	63.455	63.405	0.095	0.0	0.1	0.1
5616	63.452	63.403	0.092	0.0	0.1	0.1
5640	63.450	63.401	0.090	0.0	0.1	0.1
5664	63.448	63.399	0.088	0.0	0.2	0.1
5688	63.446	63.397	0.086	0.0	0.2	0.1
5712	63.444	63.395	0.084	0.0	0.3	0.1
5736	63.441	63.393	0.081	0.0	0.2	0.1
5760	63.439	63.390	0.079	0.0	0.2	0.1
5784	63.436	63.388	0.076	0.0	0.2	0.1
5808	63.433	63.386	0.073	0.0	0.2	0.1
5832	63.430	63.383	0.070	0.0	0.2	0.1
5856	63.426	63.380	0.066	0.0	0.2	0.1
5880	63.423	63.376	0.063	0.0	0.2	0.1
5904	63.420	63.373	0.060	0.0	0.2	0.1
5928	63.417	63.370	0.057	0.0	0.2	0.1
5952	63.413	63.367	0.053	0.0	0.2	0.1
5976	63.410	63.364	0.050	0.0	0.2	0.1
6000	63.407	63.361	0.047	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.403	63.357	0.043	0.0	0.2	0.1
6048	63.400	63.354	0.040	0.0	0.2	0.1
6072	63.397	63.351	0.037	0.0	0.2	0.1
6096	63.394	63.348	0.034	0.0	0.2	0.1
6120	63.391	63.344	0.031	0.0	0.2	0.1
6144	63.388	63.339	0.028	0.0	0.2	0.1
6168	63.385	63.334	0.025	0.0	0.2	0.1
6192	63.382	63.329	0.022	0.0	0.2	0.1
6216	63.379	63.324	0.019	0.0	0.2	0.1
6240	63.376	63.317	0.016	0.0	0.2	0.1
6264	63.373	63.308	0.013	0.0	0.2	0.1
6288	63.371	63.298	0.011	0.0	0.2	0.0
6312	63.369	63.285	0.009	0.0	0.2	0.0
6336	63.367	63.273	0.007	0.0	0.2	0.0
6360	63.365	63.259	0.005	0.0	0.2	0.0
6384	63.362	63.251	0.002	0.0	0.2	0.1
6408	63.358	63.261	-0.002	0.0	0.2	0.1
6432	63.353	63.271	-0.007	0.0	0.3	0.1
6456	63.349	63.276	-0.011	0.0	0.3	0.1
6480	63.347	63.277	-0.013	0.0	0.3	0.1
6504	63.343	63.277	-0.017	0.0	0.2	0.1
6528	63.340	63.276	-0.020	0.0	0.2	0.1
6552	63.337	63.274	-0.023	0.0	0.2	0.1
6576	63.334	63.271	-0.026	0.0	0.2	0.1
6600	63.331	63.269	-0.029	0.0	0.2	0.1
6624	63.328	63.266	-0.032	0.0	0.2	0.1
6648	63.325	63.264	-0.035	0.0	0.2	0.1
6672	63.322	63.261	-0.038	0.0	0.2	0.1
6696	63.319	63.258	-0.041	0.0	0.2	0.1
6720	63.316	63.255	-0.044	0.0	0.2	0.1
6744	63.313	63.253	-0.047	0.0	0.2	0.1
6768	63.309	63.250	-0.051	0.0	0.2	0.1
6792	63.306	63.251	-0.054	0.0	0.2	0.1
6816	63.303	63.250	-0.057	0.0	0.2	0.1
6840	63.299	63.251	-0.061	0.0	0.2	0.1
6864	63.297	63.250	-0.063	0.0	0.2	0.1
6888	63.293	63.250	-0.067	0.0	0.2	0.1
6912	63.289	63.249	-0.071	0.0	0.2	0.1
6936	63.285	63.250	-0.075	0.0	0.2	0.1
6960	63.283	63.251	-0.077	0.0	0.2	0.1
6984	63.280	63.250	-0.080	0.0	0.2	0.1
7008	63.277	63.250	-0.083	0.0	0.2	0.1
7032	63.274	63.249	-0.086	0.0	0.2	0.1
7056	63.271	63.247	-0.089	0.0	0.2	0.1
7080	63.268	63.241	-0.092	0.0	0.2	0.1
7104	63.266	63.232	-0.094	0.0	0.2	0.0
7128	63.264	63.217	-0.096	0.0	0.1	0.0
7152	63.263	63.202	-0.097	0.0	0.1	0.0
7176	63.261	63.185	-0.099	0.0	0.1	0.0
7200	63.260	63.167	-0.100	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.259	63.148	-0.101	0.0	0.1	0.0
7248	63.259	63.132	-0.101	0.0	0.1	0.0
7272	63.258	63.123	-0.102	0.0	0.1	0.0
7296	63.258	63.117	-0.102	0.0	0.0	0.0
7320	63.257	63.113	-0.103	0.0	0.0	0.0
7344	63.257	63.111	-0.103	0.0	0.0	0.0
7368	63.256	63.109	-0.104	0.0	0.0	0.0
7392	63.256	63.108	-0.104	0.0	0.0	0.0
7416	63.256	63.107	-0.104	0.0	0.0	0.0
7440	63.255	63.106	-0.105	0.0	0.0	0.0
7464	63.255	63.105	-0.105	0.0	0.0	0.0
7488	63.255	63.105	-0.105	0.0	0.0	0.0
7512	63.255	63.104	-0.105	0.0	0.0	0.0
7536	63.254	63.104	-0.106	0.0	0.0	0.0
7560	63.254	63.103	-0.106	0.0	0.0	0.0
7584	63.254	63.103	-0.106	0.0	0.0	0.0
7608	63.254	63.103	-0.106	0.0	0.0	0.0
7632	63.254	63.103	-0.106	0.0	0.0	0.0
7656	63.254	63.102	-0.106	0.0	0.0	0.0
7680	63.254	63.102	-0.106	0.0	0.0	0.0
7704	63.253	63.102	-0.107	0.0	0.0	0.0
7728	63.253	63.102	-0.107	0.0	0.0	0.0
7752	63.253	63.102	-0.107	0.0	0.0	0.0
7776	63.253	63.102	-0.107	0.0	0.0	0.0
7800	63.253	63.102	-0.107	0.0	0.0	0.0
7824	63.253	63.102	-0.107	0.0	0.0	0.0
7848	63.253	63.101	-0.107	0.0	0.0	0.0
7872	63.253	63.101	-0.107	0.0	0.0	0.0
7896	63.253	63.101	-0.107	0.0	0.0	0.0
7920	63.253	63.101	-0.107	0.0	0.0	0.0
7944	63.253	63.101	-0.107	0.0	0.0	0.0
7968	63.253	63.101	-0.107	0.0	0.0	0.0
7992	63.252	63.101	-0.108	0.0	0.0	0.0
8016	63.252	63.101	-0.108	0.0	0.0	0.0
8040	63.252	63.101	-0.108	0.0	0.0	0.0
8064	63.252	63.101	-0.108	0.0	0.0	0.0
8088	63.252	63.101	-0.108	0.0	0.0	0.0
8112	63.252	63.101	-0.108	0.0	0.0	0.0
8136	63.252	63.101	-0.108	0.0	0.0	0.0
8160	63.252	63.101	-0.108	0.0	0.0	0.0
8184	63.252	63.101	-0.108	0.0	0.0	0.0
8208	63.252	63.101	-0.108	0.0	0.0	0.0
8232	63.252	63.101	-0.108	0.0	0.0	0.0
8256	63.252	63.101	-0.108	0.0	0.0	0.0
8280	63.252	63.101	-0.108	0.0	0.0	0.0
8304	63.252	63.101	-0.108	0.0	0.0	0.0
8328	63.252	63.101	-0.108	0.0	0.0	0.0
8352	63.252	63.101	-0.108	0.0	0.0	0.0
8376	63.252	63.101	-0.108	0.0	0.0	0.0
8400	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.252	63.101	-0.108	0.0	0.0	0.0
8448	63.252	63.101	-0.108	0.0	0.0	0.0
8472	63.252	63.101	-0.108	0.0	0.0	0.0
8496	63.252	63.101	-0.108	0.0	0.0	0.0
8520	63.252	63.101	-0.108	0.0	0.0	0.0
8544	63.252	63.100	-0.108	0.0	0.0	0.0
8568	63.252	63.100	-0.108	0.0	0.0	0.0
8592	63.251	63.100	-0.109	0.0	0.0	0.0
8616	63.251	63.100	-0.109	0.0	0.0	0.0
8640	63.251	63.100	-0.109	0.0	0.0	0.0
8664	63.251	63.100	-0.109	0.0	0.0	0.0
8688	63.251	63.100	-0.109	0.0	0.0	0.0
8712	63.251	63.100	-0.109	0.0	0.0	0.0
8736	63.251	63.100	-0.109	0.0	0.0	0.0
8760	63.251	63.100	-0.109	0.0	0.0	0.0
8784	63.251	63.100	-0.109	0.0	0.0	0.0
8808	63.251	63.100	-0.109	0.0	0.0	0.0
8832	63.251	63.100	-0.109	0.0	0.0	0.0
8856	63.251	63.100	-0.109	0.0	0.0	0.0
8880	63.251	63.100	-0.109	0.0	0.0	0.0
8904	63.251	63.100	-0.109	0.0	0.0	0.0
8928	63.251	63.100	-0.109	0.0	0.0	0.0
8952	63.251	63.100	-0.109	0.0	0.0	0.0
8976	63.251	63.100	-0.109	0.0	0.0	0.0
9000	63.251	63.100	-0.109	0.0	0.0	0.0
9024	63.251	63.100	-0.109	0.0	0.0	0.0
9048	63.251	63.100	-0.109	0.0	0.0	0.0
9072	63.251	63.100	-0.109	0.0	0.0	0.0
9096	63.251	63.100	-0.109	0.0	0.0	0.0
9120	63.251	63.100	-0.109	0.0	0.0	0.0
9144	63.251	63.100	-0.109	0.0	0.0	0.0
9168	63.251	63.100	-0.109	0.0	0.0	0.0
9192	63.251	63.100	-0.109	0.0	0.0	0.0
9216	63.251	63.100	-0.109	0.0	0.0	0.0
9240	63.251	63.100	-0.109	0.0	0.0	0.0
9264	63.251	63.100	-0.109	0.0	0.0	0.0
9288	63.251	63.100	-0.109	0.0	0.0	0.0
9312	63.251	63.100	-0.109	0.0	0.0	0.0
9336	63.251	63.100	-0.109	0.0	0.0	0.0
9360	63.251	63.100	-0.109	0.0	0.0	0.0
9384	63.251	63.100	-0.109	0.0	0.0	0.0
9408	63.251	63.100	-0.109	0.0	0.0	0.0
9432	63.251	63.100	-0.109	0.0	0.0	0.0
9456	63.251	63.100	-0.109	0.0	0.0	0.0
9480	63.251	63.100	-0.109	0.0	0.0	0.0
9504	63.251	63.100	-0.109	0.0	0.0	0.0
9528	63.251	63.100	-0.109	0.0	0.0	0.0
9552	63.251	63.100	-0.109	0.0	0.0	0.0
9576	63.251	63.100	-0.109	0.0	0.0	0.0
9600	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.251	63.100	-0.109	0.0	0.0	0.0
9648	63.251	63.100	-0.109	0.0	0.0	0.0
9672	63.251	63.100	-0.109	0.0	0.0	0.0
9696	63.251	63.100	-0.109	0.0	0.0	0.0
9720	63.251	63.100	-0.109	0.0	0.0	0.0
9744	63.251	63.100	-0.109	0.0	0.0	0.0
9768	63.251	63.100	-0.109	0.0	0.0	0.0
9792	63.251	63.100	-0.109	0.0	0.0	0.0
9816	63.251	63.100	-0.109	0.0	0.0	0.0
9840	63.251	63.100	-0.109	0.0	0.0	0.0
9864	63.251	63.100	-0.109	0.0	0.0	0.0
9888	63.251	63.100	-0.109	0.0	0.0	0.0
9912	63.251	63.100	-0.109	0.0	0.0	0.0
9936	63.251	63.100	-0.109	0.0	0.0	0.0
9960	63.251	63.100	-0.109	0.0	0.0	0.0
9984	63.251	63.100	-0.109	0.0	0.0	0.0
10008	63.251	63.100	-0.109	0.0	0.0	0.0
10032	63.251	63.100	-0.109	0.0	0.0	0.0
10056	63.251	63.100	-0.109	0.0	0.0	0.0
10080	63.251	63.100	-0.109	0.0	0.0	0.0
10104	63.251	63.100	-0.109	0.0	0.0	0.0
10128	63.251	63.100	-0.109	0.0	0.0	0.0
10152	63.251	63.100	-0.109	0.0	0.0	0.0
10176	63.251	63.100	-0.109	0.0	0.0	0.0
10200	63.251	63.100	-0.109	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.101	63.096	-0.109	0.0	0.0	0.0
96	63.101	63.096	-0.109	0.0	0.0	0.0
120	63.102	63.096	-0.108	0.0	0.0	0.0
144	63.104	63.096	-0.106	0.0	0.0	0.0
168	63.105	63.096	-0.105	0.0	0.0	0.0
192	63.106	63.096	-0.104	0.0	0.0	0.0
216	63.108	63.096	-0.102	0.0	0.0	0.0
240	63.110	63.096	-0.100	0.0	0.0	0.0
264	63.112	63.096	-0.098	0.0	0.0	0.0
288	63.113	63.096	-0.097	0.0	0.0	0.0
312	63.114	63.096	-0.096	0.0	0.0	0.0
336	63.116	63.096	-0.094	0.0	0.0	0.0
360	63.116	63.096	-0.094	0.0	0.0	0.0
384	63.117	63.096	-0.093	0.0	0.0	0.0
408	63.118	63.096	-0.092	0.0	0.0	0.0
432	63.119	63.096	-0.091	0.0	0.0	0.0
456	63.119	63.096	-0.091	0.0	0.0	0.0
480	63.120	63.096	-0.090	0.0	0.0	0.0
504	63.120	63.096	-0.090	0.0	0.0	0.0
528	63.121	63.096	-0.089	0.0	0.0	0.0
552	63.121	63.096	-0.089	0.0	0.0	0.0
576	63.121	63.096	-0.089	0.0	0.0	0.0
600	63.122	63.096	-0.088	0.0	0.0	0.0
624	63.122	63.096	-0.088	0.0	0.0	0.0
648	63.122	63.096	-0.088	0.0	0.0	0.0
672	63.122	63.096	-0.088	0.0	0.0	0.0
696	63.123	63.096	-0.087	0.0	0.0	0.0
720	63.123	63.096	-0.087	0.0	0.0	0.0
744	63.123	63.096	-0.087	0.0	0.0	0.0
768	63.123	63.096	-0.087	0.0	0.0	0.0
792	63.124	63.096	-0.086	0.0	0.0	0.0
816	63.124	63.096	-0.086	0.0	0.0	0.0
840	63.124	63.096	-0.086	0.0	0.0	0.0
864	63.124	63.096	-0.086	0.0	0.0	0.0
888	63.124	63.096	-0.086	0.0	0.0	0.0
912	63.125	63.096	-0.085	0.0	0.0	0.0
936	63.125	63.096	-0.085	0.0	0.0	0.0
960	63.125	63.096	-0.085	0.0	0.0	0.0
984	63.126	63.096	-0.084	0.0	0.0	0.0
1008	63.126	63.096	-0.084	0.0	0.0	0.0
1032	63.126	63.096	-0.084	0.0	0.0	0.0
1056	63.126	63.096	-0.084	0.0	0.0	0.0
1080	63.127	63.096	-0.083	0.0	0.0	0.0
1104	63.127	63.096	-0.083	0.0	0.0	0.0
1128	63.127	63.096	-0.083	0.0	0.0	0.0
1152	63.127	63.096	-0.083	0.0	0.0	0.0
1176	63.128	63.096	-0.082	0.0	0.0	0.0
1200	63.128	63.096	-0.082	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.128	63.096	-0.082	0.0	0.0	0.0
1248	63.129	63.096	-0.081	0.0	0.0	0.0
1272	63.129	63.096	-0.081	0.0	0.0	0.0
1296	63.129	63.096	-0.081	0.0	0.0	0.0
1320	63.130	63.096	-0.080	0.0	0.0	0.0
1344	63.130	63.096	-0.080	0.0	0.0	0.0
1368	63.130	63.096	-0.080	0.0	0.0	0.0
1392	63.131	63.096	-0.079	0.0	0.0	0.0
1416	63.131	63.096	-0.079	0.0	0.0	0.0
1440	63.131	63.096	-0.079	0.0	0.0	0.0
1464	63.132	63.096	-0.078	0.0	0.0	0.0
1488	63.132	63.096	-0.078	0.0	0.0	0.0
1512	63.133	63.096	-0.077	0.0	0.0	0.0
1536	63.133	63.096	-0.077	0.0	0.0	0.0
1560	63.133	63.096	-0.077	0.0	0.0	0.0
1584	63.134	63.096	-0.076	0.0	0.0	0.0
1608	63.134	63.096	-0.076	0.0	0.0	0.0
1632	63.135	63.096	-0.075	0.0	0.0	0.0
1656	63.135	63.096	-0.075	0.0	0.0	0.0
1680	63.136	63.096	-0.074	0.0	0.0	0.0
1704	63.137	63.096	-0.073	0.0	0.0	0.0
1728	63.137	63.096	-0.073	0.0	0.0	0.0
1752	63.138	63.096	-0.072	0.0	0.0	0.0
1776	63.139	63.096	-0.071	0.0	0.0	0.0
1800	63.139	63.096	-0.071	0.0	0.0	0.0
1824	63.140	63.096	-0.070	0.0	0.0	0.0
1848	63.141	63.096	-0.069	0.0	0.0	0.0
1872	63.142	63.096	-0.068	0.0	0.0	0.0
1896	63.143	63.096	-0.067	0.0	0.0	0.0
1920	63.144	63.096	-0.066	0.0	0.0	0.0
1944	63.145	63.096	-0.065	0.0	0.0	0.0
1968	63.147	63.096	-0.063	0.0	0.0	0.0
1992	63.148	63.096	-0.062	0.0	0.0	0.0
2016	63.149	63.096	-0.061	0.0	0.0	0.0
2040	63.151	63.096	-0.059	0.0	0.0	0.0
2064	63.154	63.096	-0.056	0.0	0.0	0.0
2088	63.157	63.096	-0.053	0.0	0.0	0.0
2112	63.162	63.096	-0.048	0.0	0.0	0.0
2136	63.167	63.096	-0.043	0.0	0.0	0.0
2160	63.173	63.096	-0.037	0.0	0.0	0.0
2184	63.181	63.096	-0.029	0.0	0.0	0.0
2208	63.189	63.096	-0.021	0.0	0.0	0.0
2232	63.198	63.096	-0.012	0.0	0.0	0.0
2256	63.207	63.096	-0.003	0.0	0.0	0.0
2280	63.220	63.096	0.010	0.0	0.0	0.0
2304	63.231	63.096	0.021	0.0	0.0	0.0
2328	63.244	63.096	0.034	0.0	0.0	0.0
2352	63.250	63.096	0.040	0.0	0.0	0.0
2376	63.249	63.096	0.039	0.0	0.0	0.0
2400	63.251	63.096	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.250	63.096	0.040	0.0	0.0	0.0
2448	63.251	63.096	0.041	0.0	0.0	0.0
2472	63.252	63.096	0.042	0.0	0.0	0.0
2496	63.252	63.096	0.042	0.0	0.0	0.0
2520	63.252	63.096	0.042	0.0	0.0	0.0
2544	63.254	63.096	0.044	0.0	0.0	0.0
2568	63.257	63.096	0.047	0.0	0.0	0.0
2592	63.261	63.096	0.051	0.0	0.0	0.0
2616	63.266	63.096	0.056	0.0	0.0	0.0
2640	63.271	63.096	0.061	0.0	0.0	0.0
2664	63.277	63.096	0.067	0.0	0.0	0.0
2688	63.268	63.096	0.058	0.0	0.0	0.0
2712	63.259	63.096	0.049	0.0	0.0	0.0
2736	63.256	63.096	0.046	0.0	0.0	0.0
2760	63.259	63.096	0.049	0.0	0.0	0.0
2784	63.268	63.096	0.058	0.0	0.0	0.0
2808	63.282	63.096	0.072	0.0	0.0	0.0
2832	63.301	63.096	0.091	0.0	0.0	0.0
2856	63.328	63.096	0.118	0.0	0.0	0.0
2880	63.354	63.096	0.144	0.0	0.1	0.0
2904	63.374	63.096	0.164	0.0	0.1	0.0
2928	63.388	63.096	0.178	0.0	0.1	0.0
2952	63.400	63.096	0.190	0.0	0.1	0.0
2976	63.410	63.096	0.200	0.0	0.1	0.0
3000	63.420	63.096	0.210	0.0	0.1	0.0
3024	63.429	63.096	0.219	0.0	0.1	0.0
3048	63.437	63.096	0.227	0.0	0.1	0.0
3072	63.445	63.096	0.235	0.0	0.1	0.0
3096	63.452	63.096	0.242	0.0	0.1	0.0
3120	63.459	63.096	0.249	0.0	0.1	0.0
3144	63.465	63.096	0.255	0.0	0.1	0.0
3168	63.471	63.096	0.261	0.0	0.1	0.0
3192	63.477	63.096	0.267	0.0	0.1	0.0
3216	63.482	63.096	0.272	0.0	0.1	0.0
3240	63.487	63.096	0.277	0.0	0.1	0.0
3264	63.491	63.096	0.281	0.0	0.1	0.0
3288	63.496	63.096	0.286	0.0	0.1	0.0
3312	63.500	63.096	0.290	0.0	0.1	0.0
3336	63.504	63.096	0.294	0.0	0.1	0.0
3360	63.507	63.096	0.297	0.0	0.1	0.0
3384	63.510	63.096	0.300	0.0	0.1	0.0
3408	63.513	63.096	0.303	0.0	0.1	0.0
3432	63.516	63.096	0.306	0.0	0.1	0.0
3456	63.518	63.096	0.308	0.0	0.1	0.0
3480	63.520	63.096	0.310	0.0	0.1	0.0
3504	63.522	63.096	0.312	0.0	0.1	0.0
3528	63.524	63.096	0.314	0.0	0.1	0.0
3552	63.526	63.096	0.316	0.0	0.1	0.0
3576	63.527	63.096	0.317	0.0	0.1	0.0
3600	63.528	63.096	0.318	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.529	63.096	0.319	0.0	0.1	0.0
3648	63.530	63.096	0.320	0.0	0.1	0.0
3672	63.530	63.096	0.320	0.0	0.1	0.0
3696	63.530	63.096	0.320	0.0	0.1	0.0
3720	63.531	63.096	0.321	0.0	0.1	0.0
3744	63.531	63.096	0.321	0.0	0.1	0.0
3768	63.531	63.096	0.321	0.0	0.1	0.0
3792	63.530	63.096	0.320	0.0	0.1	0.0
3816	63.530	63.096	0.320	0.0	0.1	0.0
3840	63.529	63.096	0.319	0.0	0.1	0.0
3864	63.529	63.096	0.319	0.0	0.1	0.0
3888	63.528	63.096	0.318	0.0	0.1	0.0
3912	63.528	63.096	0.318	0.0	0.1	0.0
3936	63.527	63.096	0.317	0.0	0.1	0.0
3960	63.526	63.096	0.316	0.0	0.1	0.0
3984	63.525	63.096	0.315	0.0	0.1	0.0
4008	63.524	63.096	0.314	0.0	0.1	0.0
4032	63.523	63.096	0.313	0.0	0.1	0.0
4056	63.522	63.096	0.312	0.0	0.1	0.0
4080	63.520	63.096	0.310	0.0	0.1	0.0
4104	63.519	63.096	0.309	0.0	0.1	0.0
4128	63.518	63.096	0.308	0.0	0.1	0.0
4152	63.516	63.096	0.306	0.0	0.1	0.0
4176	63.515	63.096	0.305	0.0	0.1	0.0
4200	63.514	63.096	0.304	0.0	0.1	0.0
4224	63.512	63.096	0.302	0.0	0.1	0.0
4248	63.511	63.096	0.301	0.0	0.1	0.0
4272	63.509	63.096	0.299	0.0	0.1	0.0
4296	63.508	63.096	0.298	0.0	0.1	0.0
4320	63.506	63.096	0.296	0.0	0.1	0.0
4344	63.504	63.096	0.294	0.0	0.1	0.0
4368	63.503	63.096	0.293	0.0	0.1	0.0
4392	63.501	63.096	0.291	0.0	0.1	0.0
4416	63.499	63.096	0.289	0.0	0.1	0.0
4440	63.498	63.096	0.288	0.0	0.1	0.0
4464	63.496	63.096	0.286	0.0	0.1	0.0
4488	63.494	63.096	0.284	0.0	0.1	0.0
4512	63.493	63.096	0.283	0.0	0.1	0.0
4536	63.491	63.096	0.281	0.0	0.1	0.0
4560	63.489	63.096	0.279	0.0	0.1	0.0
4584	63.487	63.096	0.277	0.0	0.1	0.0
4608	63.486	63.096	0.276	0.0	0.1	0.0
4632	63.484	63.096	0.274	0.0	0.1	0.0
4656	63.482	63.096	0.272	0.0	0.1	0.0
4680	63.480	63.096	0.270	0.0	0.1	0.0
4704	63.478	63.096	0.268	0.0	0.1	0.0
4728	63.477	63.096	0.267	0.0	0.1	0.0
4752	63.475	63.096	0.265	0.0	0.1	0.0
4776	63.473	63.096	0.263	0.0	0.1	0.0
4800	63.471	63.096	0.261	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.469	63.096	0.259	0.0	0.1	0.0
4848	63.467	63.096	0.257	0.0	0.1	0.0
4872	63.465	63.096	0.255	0.0	0.1	0.0
4896	63.463	63.096	0.253	0.0	0.1	0.0
4920	63.462	63.096	0.252	0.0	0.1	0.0
4944	63.460	63.096	0.250	0.0	0.1	0.0
4968	63.458	63.096	0.248	0.0	0.1	0.0
4992	63.456	63.096	0.246	0.0	0.1	0.0
5016	63.454	63.096	0.244	0.0	0.1	0.0
5040	63.452	63.096	0.242	0.0	0.1	0.0
5064	63.450	63.096	0.240	0.0	0.1	0.0
5088	63.448	63.096	0.238	0.0	0.1	0.0
5112	63.446	63.096	0.236	0.0	0.1	0.0
5136	63.444	63.096	0.234	0.0	0.1	0.0
5160	63.442	63.096	0.232	0.0	0.1	0.0
5184	63.440	63.096	0.230	0.0	0.1	0.0
5208	63.438	63.096	0.228	0.0	0.1	0.0
5232	63.436	63.096	0.226	0.0	0.1	0.0
5256	63.434	63.096	0.224	0.0	0.1	0.0
5280	63.432	63.096	0.222	0.0	0.1	0.0
5304	63.430	63.096	0.220	0.0	0.1	0.0
5328	63.428	63.096	0.218	0.0	0.1	0.0
5352	63.426	63.096	0.216	0.0	0.1	0.0
5376	63.424	63.096	0.214	0.0	0.1	0.0
5400	63.422	63.096	0.212	0.0	0.1	0.0
5424	63.419	63.096	0.209	0.0	0.1	0.0
5448	63.417	63.096	0.207	0.0	0.1	0.0
5472	63.415	63.096	0.205	0.0	0.1	0.0
5496	63.413	63.096	0.203	0.0	0.1	0.0
5520	63.411	63.096	0.201	0.0	0.1	0.0
5544	63.409	63.096	0.199	0.0	0.1	0.0
5568	63.407	63.096	0.197	0.0	0.1	0.0
5592	63.405	63.096	0.195	0.0	0.1	0.0
5616	63.403	63.096	0.193	0.0	0.1	0.0
5640	63.401	63.096	0.191	0.0	0.1	0.0
5664	63.399	63.096	0.189	0.0	0.1	0.0
5688	63.397	63.096	0.187	0.0	0.1	0.0
5712	63.395	63.096	0.185	0.0	0.1	0.0
5736	63.393	63.096	0.183	0.0	0.1	0.0
5760	63.390	63.096	0.180	0.0	0.1	0.0
5784	63.388	63.096	0.178	0.0	0.1	0.0
5808	63.386	63.096	0.176	0.0	0.1	0.0
5832	63.383	63.096	0.173	0.0	0.1	0.0
5856	63.380	63.096	0.170	0.0	0.1	0.0
5880	63.376	63.096	0.166	0.0	0.1	0.0
5904	63.373	63.096	0.163	0.0	0.1	0.0
5928	63.370	63.096	0.160	0.0	0.1	0.0
5952	63.367	63.096	0.157	0.0	0.1	0.0
5976	63.364	63.096	0.154	0.0	0.1	0.0
6000	63.361	63.096	0.151	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.357	63.096	0.147	0.0	0.1	0.0
6048	63.354	63.096	0.144	0.0	0.1	0.0
6072	63.351	63.096	0.141	0.0	0.1	0.0
6096	63.348	63.096	0.138	0.0	0.1	0.0
6120	63.344	63.096	0.134	0.0	0.1	0.0
6144	63.339	63.096	0.129	0.0	0.1	0.0
6168	63.334	63.096	0.124	0.0	0.1	0.0
6192	63.329	63.096	0.119	0.0	0.1	0.0
6216	63.324	63.096	0.114	0.0	0.0	0.0
6240	63.317	63.096	0.107	0.0	0.0	0.0
6264	63.308	63.096	0.098	0.0	0.0	0.0
6288	63.298	63.096	0.088	0.0	0.0	0.0
6312	63.285	63.096	0.075	0.0	0.0	0.0
6336	63.273	63.096	0.063	0.0	0.0	0.0
6360	63.259	63.096	0.049	0.0	0.0	0.0
6384	63.251	63.096	0.041	0.0	0.0	0.0
6408	63.261	63.096	0.051	0.0	0.0	0.0
6432	63.271	63.096	0.061	0.0	0.0	0.0
6456	63.276	63.096	0.066	0.0	0.0	0.0
6480	63.277	63.096	0.067	0.0	0.0	0.0
6504	63.277	63.096	0.067	0.0	0.0	0.0
6528	63.276	63.096	0.066	0.0	0.0	0.0
6552	63.274	63.096	0.064	0.0	0.0	0.0
6576	63.271	63.096	0.061	0.0	0.0	0.0
6600	63.269	63.096	0.059	0.0	0.0	0.0
6624	63.266	63.096	0.056	0.0	0.0	0.0
6648	63.264	63.096	0.054	0.0	0.0	0.0
6672	63.261	63.096	0.051	0.0	0.0	0.0
6696	63.258	63.096	0.048	0.0	0.0	0.0
6720	63.255	63.096	0.045	0.0	0.0	0.0
6744	63.253	63.096	0.043	0.0	0.0	0.0
6768	63.250	63.096	0.040	0.0	0.0	0.0
6792	63.251	63.096	0.041	0.0	0.0	0.0
6816	63.250	63.096	0.040	0.0	0.0	0.0
6840	63.251	63.096	0.041	0.0	0.0	0.0
6864	63.250	63.096	0.040	0.0	0.0	0.0
6888	63.250	63.096	0.040	0.0	0.0	0.0
6912	63.249	63.096	0.039	0.0	0.0	0.0
6936	63.250	63.096	0.040	0.0	0.0	0.0
6960	63.251	63.096	0.041	0.0	0.0	0.0
6984	63.250	63.096	0.040	0.0	0.0	0.0
7008	63.250	63.096	0.040	0.0	0.0	0.0
7032	63.249	63.096	0.039	0.0	0.0	0.0
7056	63.247	63.096	0.037	0.0	0.0	0.0
7080	63.241	63.096	0.031	0.0	0.0	0.0
7104	63.232	63.096	0.022	0.0	0.0	0.0
7128	63.217	63.096	0.007	0.0	0.0	0.0
7152	63.202	63.096	-0.008	0.0	0.0	0.0
7176	63.185	63.096	-0.025	0.0	0.0	0.0
7200	63.167	63.096	-0.043	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.148	63.096	-0.062	0.0	0.0	0.0
7248	63.132	63.096	-0.078	0.0	0.0	0.0
7272	63.123	63.096	-0.087	0.0	0.0	0.0
7296	63.117	63.096	-0.093	0.0	0.0	0.0
7320	63.113	63.096	-0.097	0.0	0.0	0.0
7344	63.111	63.096	-0.099	0.0	0.0	0.0
7368	63.109	63.096	-0.101	0.0	0.0	0.0
7392	63.108	63.096	-0.102	0.0	0.0	0.0
7416	63.107	63.096	-0.103	0.0	0.0	0.0
7440	63.106	63.096	-0.104	0.0	0.0	0.0
7464	63.105	63.096	-0.105	0.0	0.0	0.0
7488	63.105	63.096	-0.105	0.0	0.0	0.0
7512	63.104	63.096	-0.106	0.0	0.0	0.0
7536	63.104	63.096	-0.106	0.0	0.0	0.0
7560	63.103	63.096	-0.107	0.0	0.0	0.0
7584	63.103	63.096	-0.107	0.0	0.0	0.0
7608	63.103	63.096	-0.107	0.0	0.0	0.0
7632	63.103	63.096	-0.107	0.0	0.0	0.0
7656	63.102	63.096	-0.108	0.0	0.0	0.0
7680	63.102	63.096	-0.108	0.0	0.0	0.0
7704	63.102	63.096	-0.108	0.0	0.0	0.0
7728	63.102	63.096	-0.108	0.0	0.0	0.0
7752	63.102	63.096	-0.108	0.0	0.0	0.0
7776	63.102	63.096	-0.108	0.0	0.0	0.0
7800	63.102	63.096	-0.108	0.0	0.0	0.0
7824	63.102	63.096	-0.108	0.0	0.0	0.0
7848	63.101	63.096	-0.109	0.0	0.0	0.0
7872	63.101	63.096	-0.109	0.0	0.0	0.0
7896	63.101	63.096	-0.109	0.0	0.0	0.0
7920	63.101	63.096	-0.109	0.0	0.0	0.0
7944	63.101	63.096	-0.109	0.0	0.0	0.0
7968	63.101	63.096	-0.109	0.0	0.0	0.0
7992	63.101	63.096	-0.109	0.0	0.0	0.0
8016	63.101	63.096	-0.109	0.0	0.0	0.0
8040	63.101	63.096	-0.109	0.0	0.0	0.0
8064	63.101	63.096	-0.109	0.0	0.0	0.0
8088	63.101	63.096	-0.109	0.0	0.0	0.0
8112	63.101	63.096	-0.109	0.0	0.0	0.0
8136	63.101	63.096	-0.109	0.0	0.0	0.0
8160	63.101	63.096	-0.109	0.0	0.0	0.0
8184	63.101	63.096	-0.109	0.0	0.0	0.0
8208	63.101	63.096	-0.109	0.0	0.0	0.0
8232	63.101	63.096	-0.109	0.0	0.0	0.0
8256	63.101	63.096	-0.109	0.0	0.0	0.0
8280	63.101	63.096	-0.109	0.0	0.0	0.0
8304	63.101	63.096	-0.109	0.0	0.0	0.0
8328	63.101	63.096	-0.109	0.0	0.0	0.0
8352	63.101	63.096	-0.109	0.0	0.0	0.0
8376	63.101	63.096	-0.109	0.0	0.0	0.0
8400	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.101	63.096	-0.109	0.0	0.0	0.0
8448	63.101	63.096	-0.109	0.0	0.0	0.0
8472	63.101	63.096	-0.109	0.0	0.0	0.0
8496	63.101	63.096	-0.109	0.0	0.0	0.0
8520	63.101	63.096	-0.109	0.0	0.0	0.0
8544	63.100	63.096	-0.110	0.0	0.0	0.0
8568	63.100	63.096	-0.110	0.0	0.0	0.0
8592	63.100	63.096	-0.110	0.0	0.0	0.0
8616	63.100	63.096	-0.110	0.0	0.0	0.0
8640	63.100	63.096	-0.110	0.0	0.0	0.0
8664	63.100	63.096	-0.110	0.0	0.0	0.0
8688	63.100	63.096	-0.110	0.0	0.0	0.0
8712	63.100	63.096	-0.110	0.0	0.0	0.0
8736	63.100	63.096	-0.110	0.0	0.0	0.0
8760	63.100	63.096	-0.110	0.0	0.0	0.0
8784	63.100	63.096	-0.110	0.0	0.0	0.0
8808	63.100	63.096	-0.110	0.0	0.0	0.0
8832	63.100	63.096	-0.110	0.0	0.0	0.0
8856	63.100	63.096	-0.110	0.0	0.0	0.0
8880	63.100	63.096	-0.110	0.0	0.0	0.0
8904	63.100	63.096	-0.110	0.0	0.0	0.0
8928	63.100	63.096	-0.110	0.0	0.0	0.0
8952	63.100	63.096	-0.110	0.0	0.0	0.0
8976	63.100	63.096	-0.110	0.0	0.0	0.0
9000	63.100	63.096	-0.110	0.0	0.0	0.0
9024	63.100	63.096	-0.110	0.0	0.0	0.0
9048	63.100	63.096	-0.110	0.0	0.0	0.0
9072	63.100	63.096	-0.110	0.0	0.0	0.0
9096	63.100	63.096	-0.110	0.0	0.0	0.0
9120	63.100	63.096	-0.110	0.0	0.0	0.0
9144	63.100	63.096	-0.110	0.0	0.0	0.0
9168	63.100	63.096	-0.110	0.0	0.0	0.0
9192	63.100	63.096	-0.110	0.0	0.0	0.0
9216	63.100	63.096	-0.110	0.0	0.0	0.0
9240	63.100	63.096	-0.110	0.0	0.0	0.0
9264	63.100	63.096	-0.110	0.0	0.0	0.0
9288	63.100	63.096	-0.110	0.0	0.0	0.0
9312	63.100	63.096	-0.110	0.0	0.0	0.0
9336	63.100	63.096	-0.110	0.0	0.0	0.0
9360	63.100	63.096	-0.110	0.0	0.0	0.0
9384	63.100	63.096	-0.110	0.0	0.0	0.0
9408	63.100	63.096	-0.110	0.0	0.0	0.0
9432	63.100	63.096	-0.110	0.0	0.0	0.0
9456	63.100	63.096	-0.110	0.0	0.0	0.0
9480	63.100	63.096	-0.110	0.0	0.0	0.0
9504	63.100	63.096	-0.110	0.0	0.0	0.0
9528	63.100	63.096	-0.110	0.0	0.0	0.0
9552	63.100	63.096	-0.110	0.0	0.0	0.0
9576	63.100	63.096	-0.110	0.0	0.0	0.0
9600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.100	63.096	-0.110	0.0	0.0	0.0
9648	63.100	63.096	-0.110	0.0	0.0	0.0
9672	63.100	63.096	-0.110	0.0	0.0	0.0
9696	63.100	63.096	-0.110	0.0	0.0	0.0
9720	63.100	63.096	-0.110	0.0	0.0	0.0
9744	63.100	63.096	-0.110	0.0	0.0	0.0
9768	63.100	63.096	-0.110	0.0	0.0	0.0
9792	63.100	63.096	-0.110	0.0	0.0	0.0
9816	63.100	63.096	-0.110	0.0	0.0	0.0
9840	63.100	63.096	-0.110	0.0	0.0	0.0
9864	63.100	63.096	-0.110	0.0	0.0	0.0
9888	63.100	63.096	-0.110	0.0	0.0	0.0
9912	63.100	63.096	-0.110	0.0	0.0	0.0
9936	63.100	63.096	-0.110	0.0	0.0	0.0
9960	63.100	63.096	-0.110	0.0	0.0	0.0
9984	63.100	63.096	-0.110	0.0	0.0	0.0
10008	63.100	63.096	-0.110	0.0	0.0	0.0
10032	63.100	63.096	-0.110	0.0	0.0	0.0
10056	63.100	63.096	-0.110	0.0	0.0	0.0
10080	63.100	63.096	-0.110	0.0	0.0	0.0
10104	63.100	63.096	-0.110	0.0	0.0	0.0
10128	63.100	63.096	-0.110	0.0	0.0	0.0
10152	63.100	63.096	-0.110	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Summer
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	11520
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	5760
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 5760 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.1	OK
1.001	S1	63.561	-0.043	0.000	0.02	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.1	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.561	0.007	0.000	0.03	0.0	0.2	SURCHARGED
1.003	S4	63.561	0.201	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.505	0.295	0.000	0.00	0.0	0.0	SURCHARGED

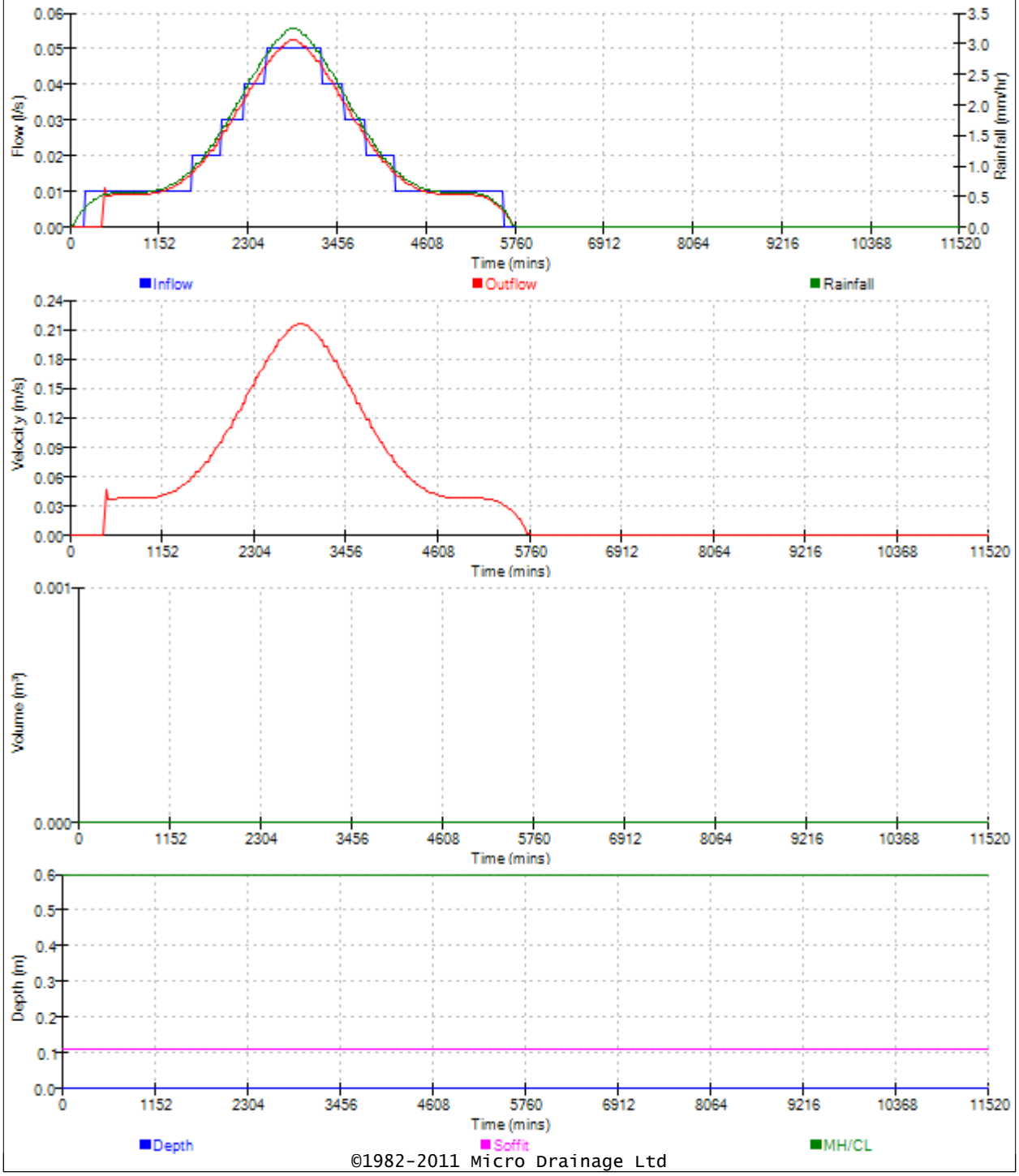
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Rainfall Hyetograph for 5760 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.042	1176	0.628	2328	2.418	3480	2.291	4632	0.607
48	0.042	1200	0.628	2352	2.418	3504	2.291	4656	0.607
72	0.116	1224	0.645	2376	2.492	3528	2.214	4680	0.598
96	0.165	1248	0.655	2400	2.542	3552	2.163	4704	0.592
120	0.186	1272	0.662	2424	2.566	3576	2.137	4728	0.590
144	0.267	1296	0.689	2448	2.663	3600	2.035	4752	0.582
168	0.267	1320	0.689	2472	2.663	3624	2.035	4776	0.582
192	0.333	1344	0.722	2496	2.755	3648	1.933	4800	0.577
216	0.350	1368	0.730	2520	2.778	3672	1.908	4824	0.575
240	0.376	1392	0.750	2544	2.821	3696	1.858	4848	0.574
264	0.415	1416	0.779	2568	2.886	3720	1.784	4872	0.573
288	0.415	1440	0.779	2592	2.886	3744	1.784	4896	0.573
312	0.467	1464	0.835	2616	2.985	3768	1.663	4920	0.572
336	0.467	1488	0.835	2640	2.985	3792	1.663	4944	0.572
360	0.490	1512	0.873	2664	3.038	3816	1.592	4968	0.573
384	0.505	1536	0.898	2688	3.074	3840	1.546	4992	0.573
408	0.511	1560	0.912	2712	3.089	3864	1.523	5016	0.573
432	0.533	1584	0.969	2736	3.150	3888	1.434	5040	0.574
456	0.533	1608	0.969	2760	3.150	3912	1.434	5064	0.574
480	0.549	1632	1.032	2784	3.199	3936	1.349	5088	0.574
504	0.552	1656	1.048	2808	3.211	3960	1.328	5112	0.574
528	0.557	1680	1.083	2832	3.229	3984	1.288	5136	0.573
552	0.564	1704	1.134	2856	3.255	4008	1.228	5160	0.571
576	0.564	1728	1.134	2880	3.255	4032	1.228	5184	0.571
600	0.571	1752	1.228	2904	3.255	4056	1.134	5208	0.564
624	0.571	1776	1.228	2928	3.255	4080	1.134	5232	0.564
648	0.573	1800	1.288	2952	3.229	4104	1.083	5256	0.557
672	0.574	1824	1.328	2976	3.211	4128	1.048	5280	0.552
696	0.574	1848	1.349	3000	3.199	4152	1.032	5304	0.549
720	0.574	1872	1.434	3024	3.150	4176	0.969	5328	0.533
744	0.574	1896	1.434	3048	3.150	4200	0.969	5352	0.533
768	0.573	1920	1.523	3072	3.089	4224	0.912	5376	0.511
792	0.573	1944	1.546	3096	3.074	4248	0.898	5400	0.505
816	0.573	1968	1.592	3120	3.038	4272	0.873	5424	0.490
840	0.572	1992	1.663	3144	2.985	4296	0.835	5448	0.467
864	0.572	2016	1.663	3168	2.985	4320	0.835	5472	0.467
888	0.573	2040	1.784	3192	2.886	4344	0.779	5496	0.415
912	0.573	2064	1.784	3216	2.886	4368	0.779	5520	0.415
936	0.574	2088	1.858	3240	2.821	4392	0.750	5544	0.376
960	0.575	2112	1.908	3264	2.778	4416	0.730	5568	0.350
984	0.577	2136	1.933	3288	2.755	4440	0.722	5592	0.333
1008	0.582	2160	2.035	3312	2.663	4464	0.689	5616	0.267
1032	0.582	2184	2.035	3336	2.663	4488	0.689	5640	0.267
1056	0.590	2208	2.137	3360	2.566	4512	0.662	5664	0.186
1080	0.592	2232	2.163	3384	2.542	4536	0.655	5688	0.165
1104	0.598	2256	2.214	3408	2.492	4560	0.645	5712	0.116
1128	0.607	2280	2.291	3432	2.418	4584	0.628	5736	0.042
1152	0.607	2304	2.291	3456	2.418	4608	0.628	5760	0.042

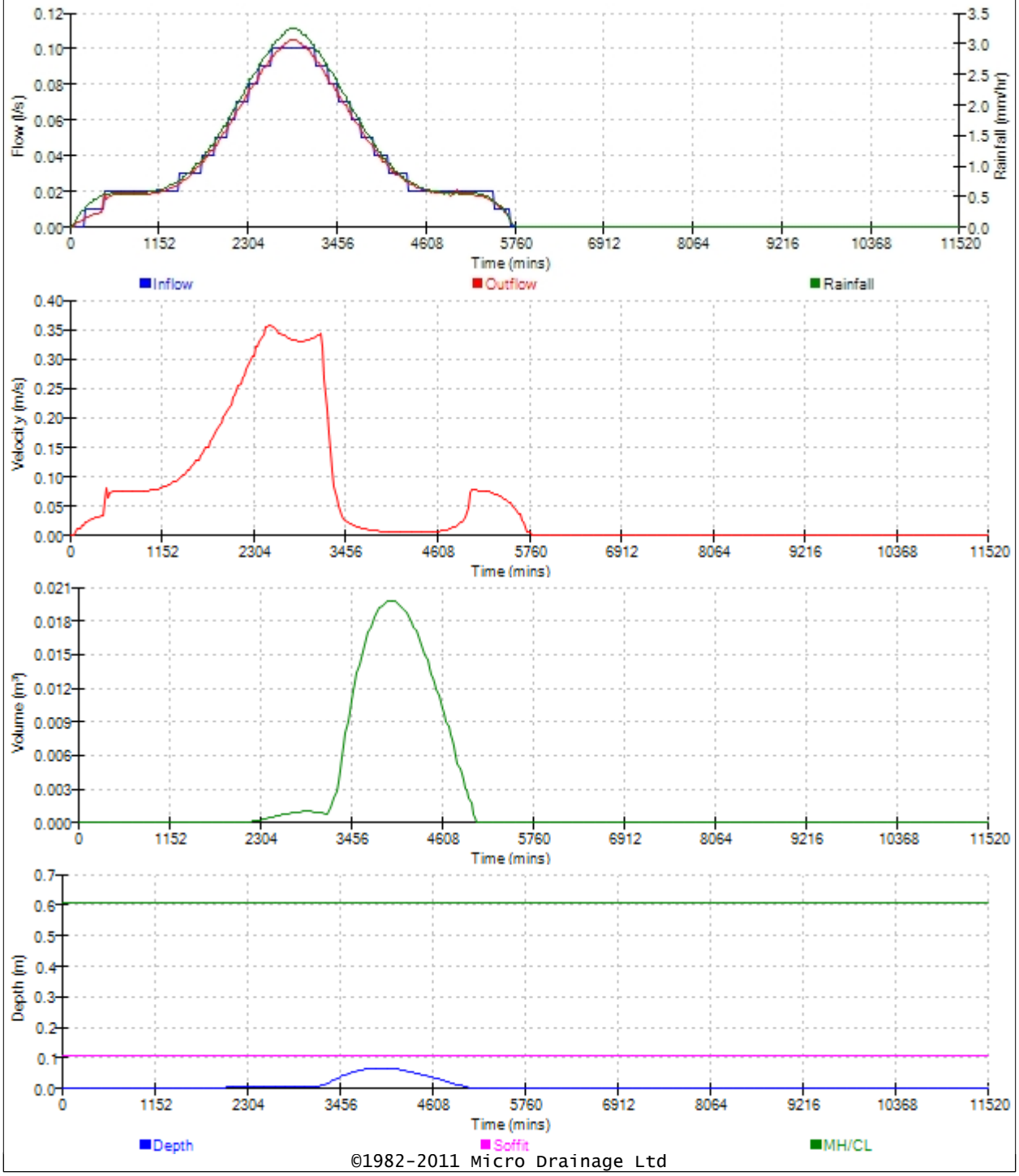
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Status: OK



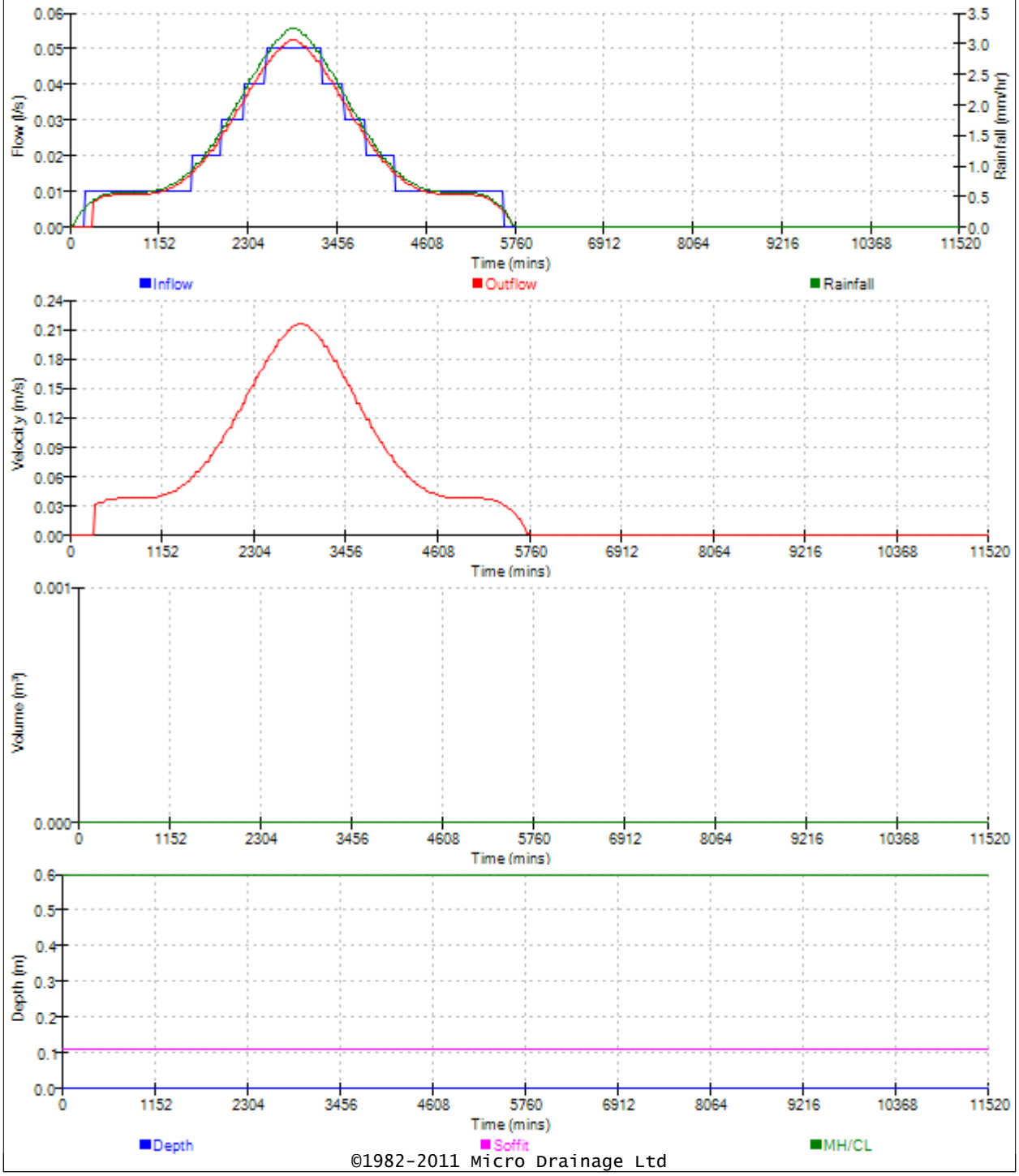
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Graphs for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Status: OK



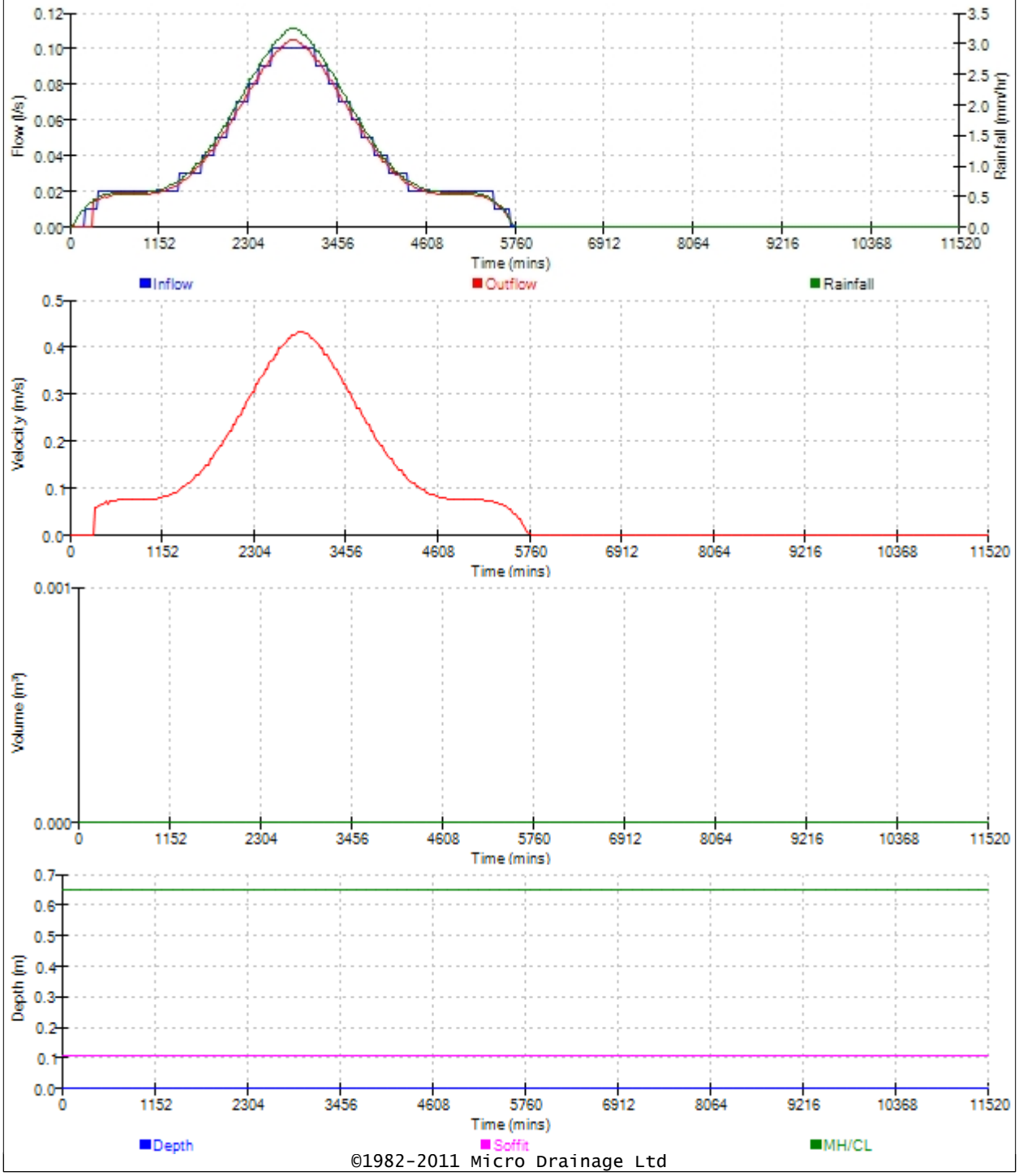
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Status: OK



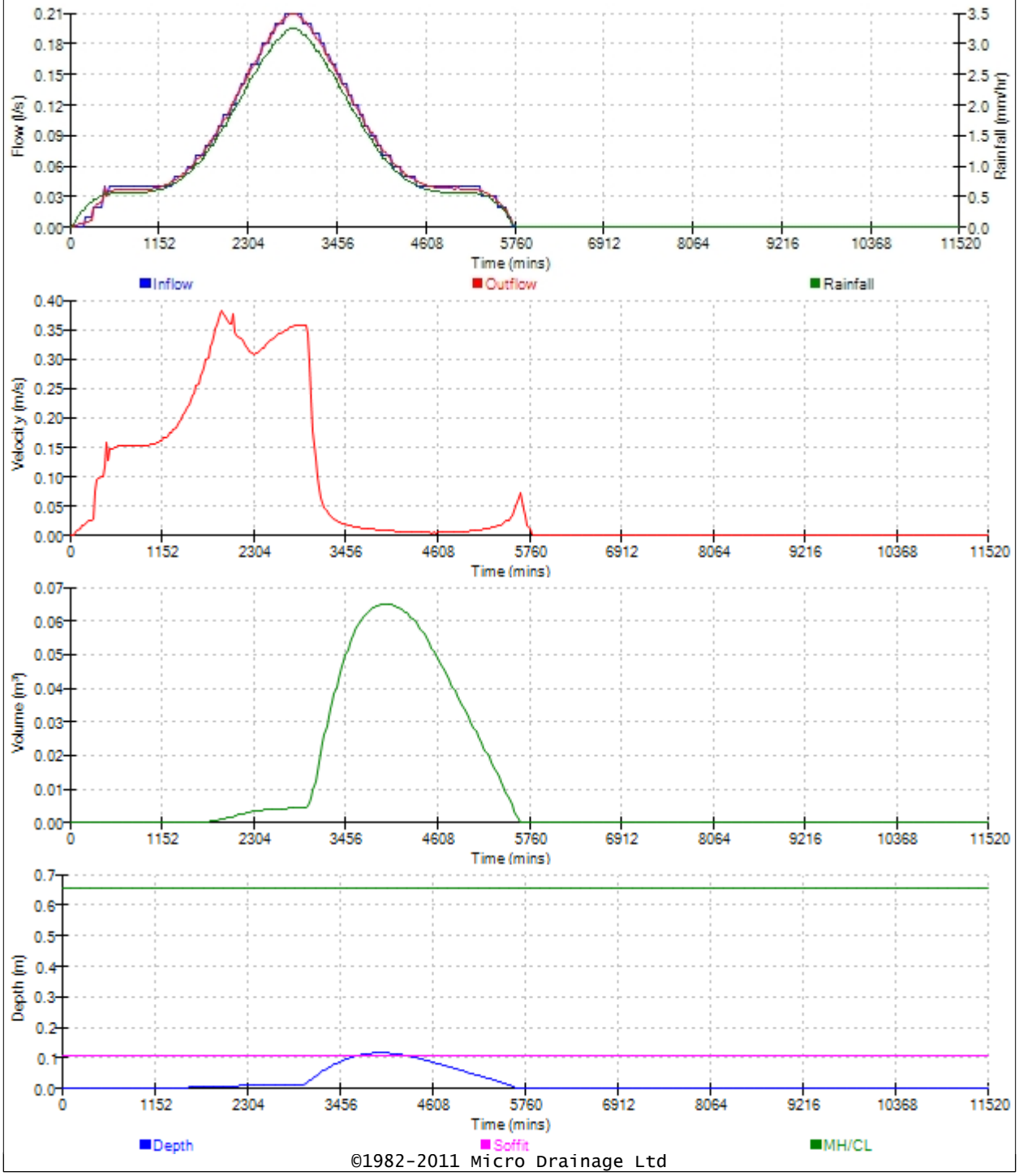
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Graphs for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Status: OK



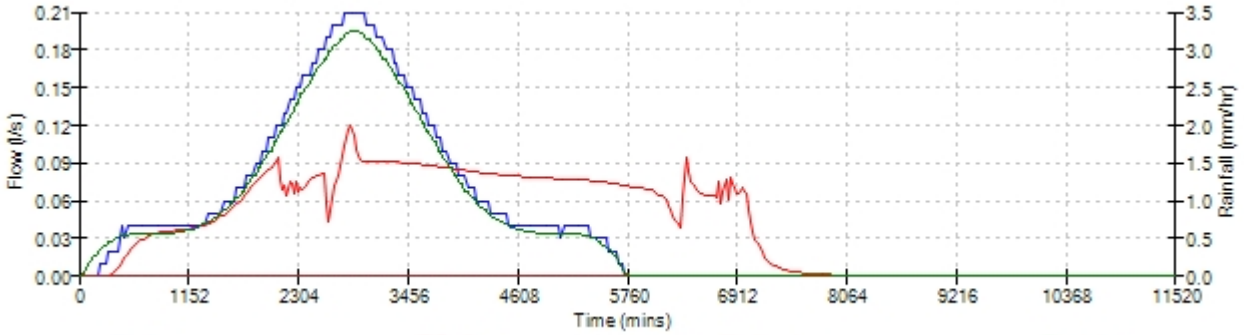
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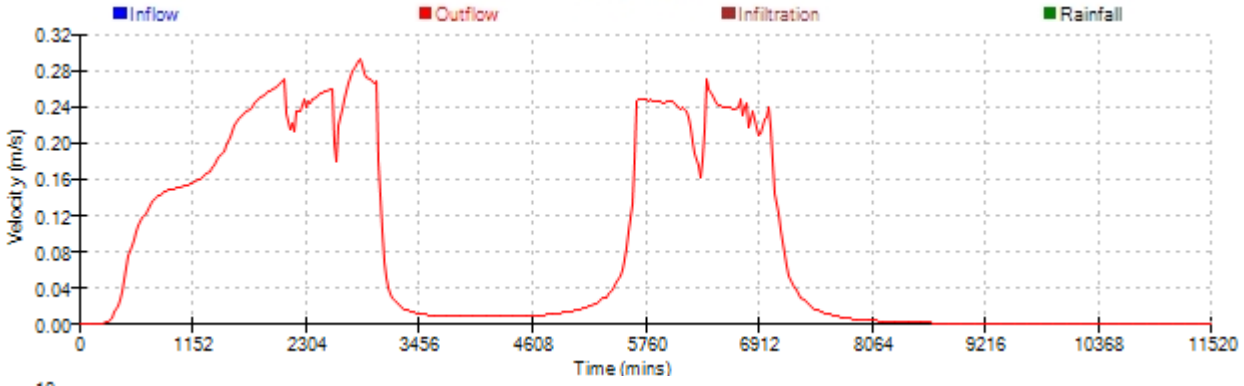
Graphs for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Status: SURCHARGED

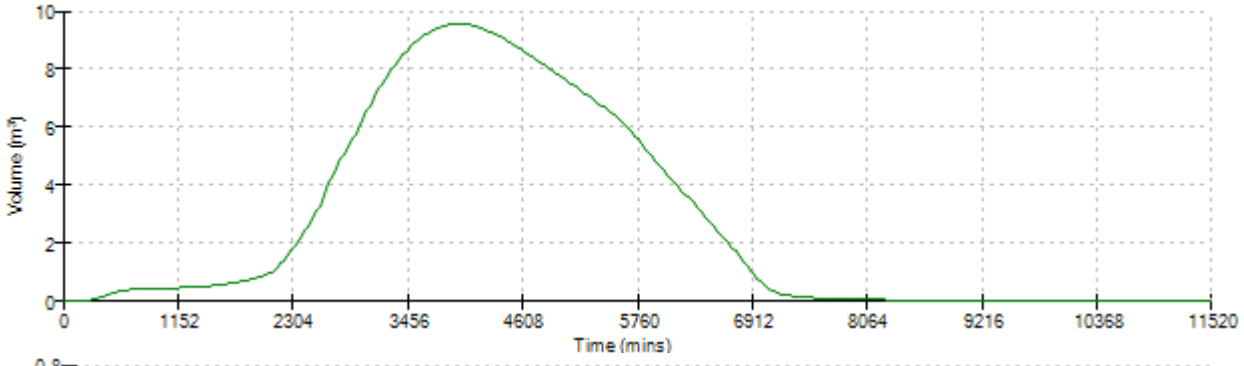


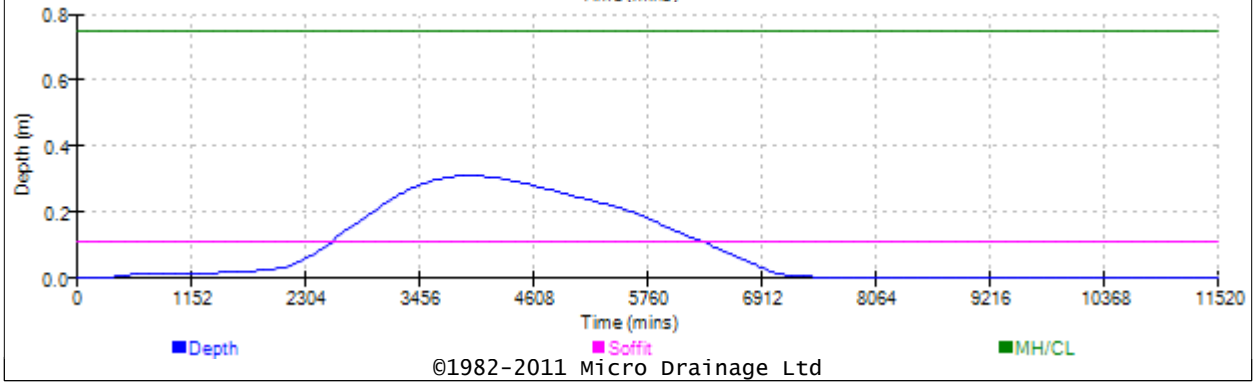
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Graphs for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Status: SURCHARGED



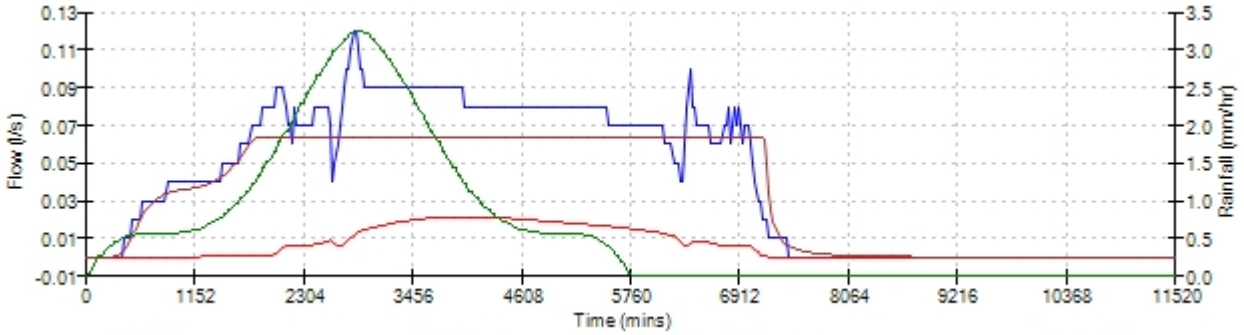


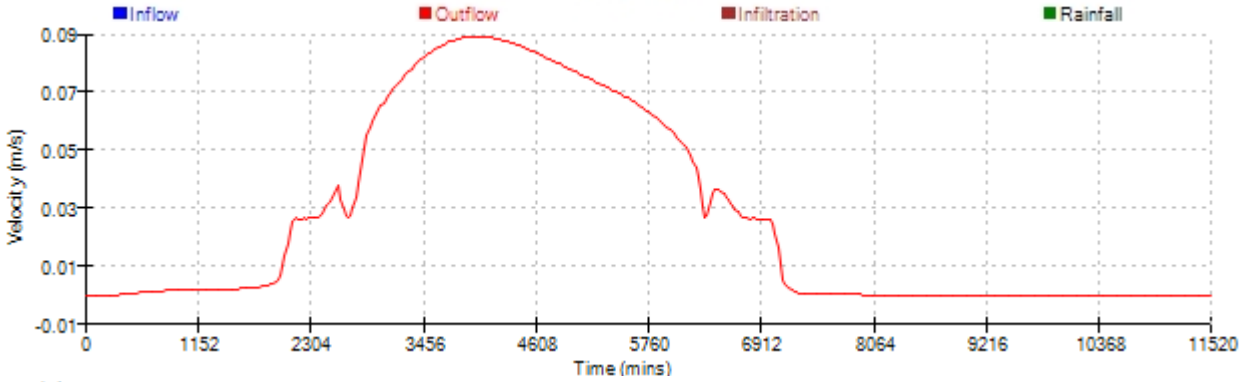


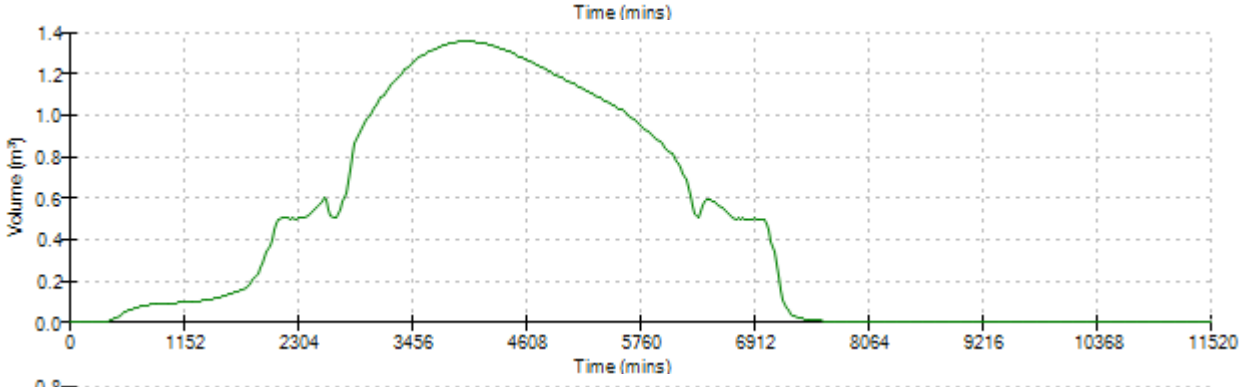


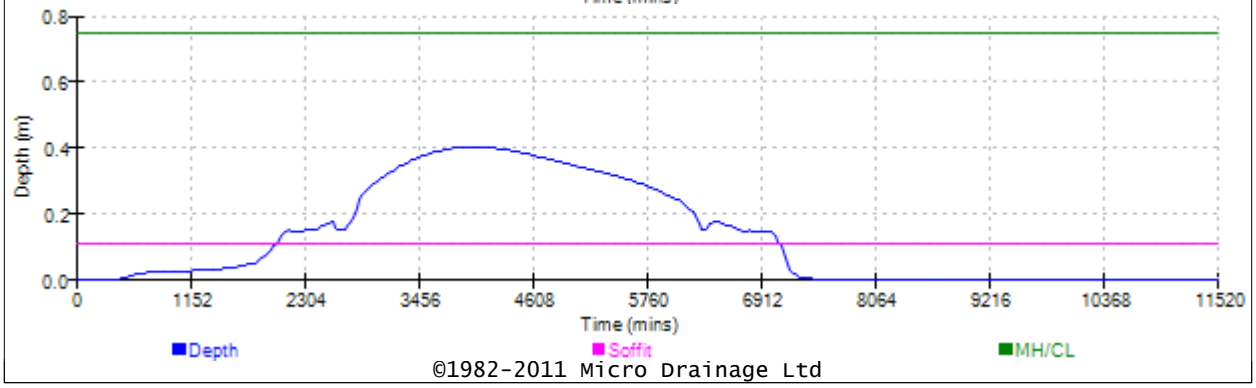
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.494	-0.110	0.0	0.0	0.0
96	65.400	63.494	-0.110	0.0	0.0	0.0
120	65.400	63.494	-0.110	0.0	0.0	0.0
144	65.400	63.494	-0.110	0.0	0.0	0.0
168	65.400	63.494	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.495	-0.110	0.0	0.0	0.0
264	65.400	63.495	-0.110	0.0	0.0	0.0
288	65.400	63.495	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.496	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.496	-0.110	0.0	0.0	0.0
528	65.400	63.496	-0.110	0.0	0.0	0.0
552	65.400	63.496	-0.110	0.0	0.0	0.0
576	65.400	63.496	-0.110	0.0	0.0	0.0
600	65.400	63.496	-0.110	0.0	0.0	0.0
624	65.400	63.496	-0.110	0.0	0.0	0.0
648	65.400	63.496	-0.110	0.0	0.0	0.0
672	65.400	63.496	-0.110	0.0	0.0	0.0
696	65.400	63.496	-0.110	0.0	0.0	0.0
720	65.400	63.496	-0.110	0.0	0.0	0.0
744	65.400	63.496	-0.110	0.0	0.0	0.0
768	65.400	63.496	-0.110	0.0	0.0	0.0
792	65.400	63.496	-0.110	0.0	0.0	0.0
816	65.400	63.496	-0.110	0.0	0.0	0.0
840	65.400	63.496	-0.110	0.0	0.0	0.0
864	65.400	63.496	-0.110	0.0	0.0	0.0
888	65.400	63.496	-0.110	0.0	0.0	0.0
912	65.400	63.496	-0.110	0.0	0.0	0.0
936	65.400	63.496	-0.110	0.0	0.0	0.0
960	65.400	63.496	-0.110	0.0	0.0	0.0
984	65.400	63.496	-0.110	0.0	0.0	0.0
1008	65.400	63.496	-0.110	0.0	0.0	0.0
1032	65.400	63.496	-0.110	0.0	0.0	0.0
1056	65.400	63.496	-0.110	0.0	0.0	0.0
1080	65.400	63.496	-0.110	0.0	0.0	0.0
1104	65.400	63.496	-0.110	0.0	0.0	0.0
1128	65.400	63.496	-0.110	0.0	0.0	0.0
1152	65.400	63.496	-0.110	0.0	0.0	0.0
1176	65.400	63.496	-0.110	0.0	0.0	0.0
1200	65.400	63.496	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.496	-0.110	0.0	0.0	0.0
1248	65.400	63.496	-0.110	0.0	0.0	0.0
1272	65.400	63.496	-0.110	0.0	0.0	0.0
1296	65.400	63.496	-0.110	0.0	0.0	0.0
1320	65.400	63.496	-0.110	0.0	0.0	0.0
1344	65.400	63.496	-0.110	0.0	0.0	0.0
1368	65.400	63.496	-0.110	0.0	0.0	0.0
1392	65.400	63.496	-0.110	0.0	0.0	0.0
1416	65.400	63.496	-0.110	0.0	0.1	0.0
1440	65.400	63.496	-0.110	0.0	0.1	0.0
1464	65.400	63.496	-0.110	0.0	0.1	0.0
1488	65.400	63.496	-0.110	0.0	0.1	0.0
1512	65.400	63.496	-0.110	0.0	0.1	0.0
1536	65.400	63.496	-0.110	0.0	0.1	0.0
1560	65.400	63.496	-0.110	0.0	0.1	0.0
1584	65.400	63.497	-0.110	0.0	0.1	0.0
1608	65.400	63.497	-0.110	0.0	0.1	0.0
1632	65.400	63.497	-0.110	0.0	0.1	0.0
1656	65.400	63.497	-0.110	0.0	0.1	0.0
1680	65.400	63.497	-0.110	0.0	0.1	0.0
1704	65.400	63.497	-0.110	0.0	0.1	0.0
1728	65.400	63.497	-0.110	0.0	0.1	0.0
1752	65.400	63.497	-0.110	0.0	0.1	0.0
1776	65.400	63.497	-0.110	0.0	0.1	0.0
1800	65.400	63.497	-0.110	0.0	0.1	0.0
1824	65.400	63.497	-0.110	0.0	0.1	0.0
1848	65.400	63.497	-0.110	0.0	0.1	0.0
1872	65.400	63.498	-0.110	0.0	0.1	0.0
1896	65.400	63.498	-0.110	0.0	0.1	0.0
1920	65.400	63.498	-0.110	0.0	0.1	0.0
1944	65.401	63.498	-0.109	0.0	0.1	0.0
1968	65.401	63.498	-0.109	0.0	0.1	0.0
1992	65.401	63.498	-0.109	0.0	0.1	0.0
2016	65.401	63.498	-0.109	0.0	0.1	0.0
2040	65.401	63.499	-0.109	0.0	0.1	0.0
2064	65.401	63.499	-0.109	0.0	0.1	0.0
2088	65.401	63.499	-0.109	0.0	0.1	0.0
2112	65.401	63.499	-0.109	0.0	0.1	0.0
2136	65.401	63.499	-0.109	0.0	0.1	0.0
2160	65.401	63.499	-0.109	0.0	0.1	0.0
2184	65.401	63.499	-0.109	0.0	0.1	0.0
2208	65.401	63.499	-0.109	0.0	0.1	0.0
2232	65.401	63.500	-0.109	0.0	0.1	0.0
2256	65.401	63.500	-0.109	0.0	0.1	0.0
2280	65.401	63.500	-0.109	0.0	0.2	0.0
2304	65.401	63.500	-0.109	0.0	0.2	0.0
2328	65.401	63.500	-0.109	0.0	0.2	0.0
2352	65.401	63.500	-0.109	0.0	0.2	0.0
2376	65.401	63.500	-0.109	0.0	0.2	0.0
2400	65.401	63.500	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	63.501	-0.109	0.0	0.2	0.0
2448	65.401	63.501	-0.109	0.0	0.2	0.0
2472	65.401	63.501	-0.109	0.0	0.2	0.0
2496	65.401	63.501	-0.109	0.0	0.2	0.0
2520	65.401	63.501	-0.109	0.0	0.2	0.0
2544	65.401	63.501	-0.109	0.0	0.2	0.0
2568	65.401	63.501	-0.109	0.0	0.2	0.0
2592	65.401	63.501	-0.109	0.0	0.2	0.0
2616	65.401	63.502	-0.109	0.0	0.2	0.0
2640	65.401	63.502	-0.109	0.0	0.2	0.0
2664	65.401	63.502	-0.109	0.0	0.2	0.0
2688	65.401	63.502	-0.109	0.0	0.2	0.0
2712	65.401	63.502	-0.109	0.0	0.2	0.0
2736	65.401	63.502	-0.109	0.0	0.2	0.1
2760	65.401	63.502	-0.109	0.0	0.2	0.1
2784	65.401	63.502	-0.109	0.0	0.2	0.1
2808	65.401	63.502	-0.109	0.0	0.2	0.1
2832	65.401	63.502	-0.109	0.0	0.2	0.1
2856	65.401	63.502	-0.109	0.0	0.2	0.1
2880	65.401	63.502	-0.109	0.0	0.2	0.1
2904	65.401	63.502	-0.109	0.0	0.2	0.1
2928	65.401	63.502	-0.109	0.0	0.2	0.1
2952	65.401	63.502	-0.109	0.0	0.2	0.1
2976	65.401	63.502	-0.109	0.0	0.2	0.1
3000	65.401	63.502	-0.109	0.0	0.2	0.1
3024	65.401	63.502	-0.109	0.0	0.2	0.1
3048	65.401	63.502	-0.109	0.0	0.2	0.1
3072	65.401	63.502	-0.109	0.0	0.2	0.0
3096	65.401	63.502	-0.109	0.0	0.2	0.0
3120	65.401	63.502	-0.109	0.0	0.2	0.0
3144	65.401	63.502	-0.109	0.0	0.2	0.0
3168	65.401	63.502	-0.109	0.0	0.2	0.0
3192	65.401	63.503	-0.109	0.0	0.2	0.0
3216	65.401	63.505	-0.109	0.0	0.2	0.0
3240	65.401	63.506	-0.109	0.0	0.2	0.0
3264	65.401	63.508	-0.109	0.0	0.2	0.0
3288	65.401	63.511	-0.109	0.0	0.2	0.0
3312	65.401	63.514	-0.109	0.0	0.2	0.0
3336	65.401	63.517	-0.109	0.0	0.2	0.0
3360	65.401	63.521	-0.109	0.0	0.2	0.0
3384	65.401	63.524	-0.109	0.0	0.2	0.0
3408	65.401	63.527	-0.109	0.0	0.2	0.0
3432	65.401	63.530	-0.109	0.0	0.2	0.0
3456	65.401	63.533	-0.109	0.0	0.2	0.0
3480	65.401	63.536	-0.109	0.0	0.2	0.0
3504	65.401	63.539	-0.109	0.0	0.2	0.0
3528	65.401	63.541	-0.109	0.0	0.1	0.0
3552	65.401	63.543	-0.109	0.0	0.1	0.0
3576	65.401	63.545	-0.109	0.0	0.1	0.0
3600	65.401	63.547	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.549	-0.109	0.0	0.1	0.0
3648	65.401	63.551	-0.109	0.0	0.1	0.0
3672	65.401	63.552	-0.109	0.0	0.1	0.0
3696	65.401	63.554	-0.109	0.0	0.1	0.0
3720	65.401	63.555	-0.109	0.0	0.1	0.0
3744	65.401	63.556	-0.109	0.0	0.1	0.0
3768	65.401	63.557	-0.109	0.0	0.1	0.0
3792	65.401	63.558	-0.109	0.0	0.1	0.0
3816	65.401	63.559	-0.109	0.0	0.1	0.0
3840	65.401	63.560	-0.109	0.0	0.1	0.0
3864	65.400	63.560	-0.110	0.0	0.1	0.0
3888	65.400	63.561	-0.110	0.0	0.1	0.0
3912	65.400	63.561	-0.110	0.0	0.1	0.0
3936	65.400	63.561	-0.110	0.0	0.1	0.0
3960	65.400	63.561	-0.110	0.0	0.1	0.0
3984	65.400	63.561	-0.110	0.0	0.1	0.0
4008	65.400	63.561	-0.110	0.0	0.1	0.0
4032	65.400	63.561	-0.110	0.0	0.1	0.0
4056	65.400	63.560	-0.110	0.0	0.1	0.0
4080	65.400	63.560	-0.110	0.0	0.1	0.0
4104	65.400	63.559	-0.110	0.0	0.1	0.0
4128	65.400	63.559	-0.110	0.0	0.1	0.0
4152	65.400	63.558	-0.110	0.0	0.1	0.0
4176	65.400	63.557	-0.110	0.0	0.1	0.0
4200	65.400	63.556	-0.110	0.0	0.1	0.0
4224	65.400	63.555	-0.110	0.0	0.1	0.0
4248	65.400	63.554	-0.110	0.0	0.1	0.0
4272	65.400	63.553	-0.110	0.0	0.1	0.0
4296	65.400	63.552	-0.110	0.0	0.1	0.0
4320	65.400	63.550	-0.110	0.0	0.1	0.0
4344	65.400	63.549	-0.110	0.0	0.1	0.0
4368	65.400	63.548	-0.110	0.0	0.1	0.0
4392	65.400	63.546	-0.110	0.0	0.0	0.0
4416	65.400	63.545	-0.110	0.0	0.0	0.0
4440	65.400	63.542	-0.110	0.0	0.0	0.0
4464	65.400	63.541	-0.110	0.0	0.0	0.0
4488	65.400	63.540	-0.110	0.0	0.0	0.0
4512	65.400	63.538	-0.110	0.0	0.0	0.0
4536	65.400	63.537	-0.110	0.0	0.0	0.0
4560	65.400	63.535	-0.110	0.0	0.0	0.0
4584	65.400	63.533	-0.110	0.0	0.0	0.0
4608	65.400	63.531	-0.110	0.0	0.0	0.0
4632	65.400	63.530	-0.110	0.0	0.0	0.0
4656	65.400	63.527	-0.110	0.0	0.0	0.0
4680	65.400	63.526	-0.110	0.0	0.0	0.0
4704	65.400	63.524	-0.110	0.0	0.0	0.0
4728	65.400	63.522	-0.110	0.0	0.0	0.0
4752	65.400	63.520	-0.110	0.0	0.0	0.0
4776	65.400	63.518	-0.110	0.0	0.0	0.0
4800	65.400	63.516	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.514	-0.110	0.0	0.0	0.0
4848	65.400	63.513	-0.110	0.0	0.0	0.0
4872	65.400	63.511	-0.110	0.0	0.0	0.0
4896	65.400	63.509	-0.110	0.0	0.0	0.0
4920	65.400	63.509	-0.110	0.0	0.0	0.0
4944	65.400	63.506	-0.110	0.0	0.0	0.0
4968	65.400	63.505	-0.110	0.0	0.0	0.0
4992	65.400	63.502	-0.110	0.0	0.0	0.0
5016	65.400	63.501	-0.110	0.0	0.0	0.0
5040	65.400	63.499	-0.110	0.0	0.0	0.0
5064	65.400	63.498	-0.110	0.0	0.0	0.0
5088	65.400	63.497	-0.110	0.0	0.0	0.0
5112	65.400	63.497	-0.110	0.0	0.0	0.0
5136	65.400	63.497	-0.110	0.0	0.0	0.0
5160	65.400	63.496	-0.110	0.0	0.0	0.0
5184	65.400	63.496	-0.110	0.0	0.0	0.0
5208	65.400	63.496	-0.110	0.0	0.0	0.0
5232	65.400	63.496	-0.110	0.0	0.0	0.0
5256	65.400	63.496	-0.110	0.0	0.0	0.0
5280	65.400	63.496	-0.110	0.0	0.0	0.0
5304	65.400	63.495	-0.110	0.0	0.0	0.0
5328	65.400	63.495	-0.110	0.0	0.0	0.0
5352	65.400	63.495	-0.110	0.0	0.0	0.0
5376	65.400	63.495	-0.110	0.0	0.0	0.0
5400	65.400	63.495	-0.110	0.0	0.0	0.0
5424	65.400	63.495	-0.110	0.0	0.0	0.0
5448	65.400	63.495	-0.110	0.0	0.0	0.0
5472	65.400	63.495	-0.110	0.0	0.0	0.0
5496	65.400	63.495	-0.110	0.0	0.0	0.0
5520	65.400	63.495	-0.110	0.0	0.0	0.0
5544	65.400	63.495	-0.110	0.0	0.0	0.0
5568	65.400	63.495	-0.110	0.0	0.0	0.0
5592	65.400	63.495	-0.110	0.0	0.0	0.0
5616	65.400	63.495	-0.110	0.0	0.0	0.0
5640	65.400	63.495	-0.110	0.0	0.0	0.0
5664	65.400	63.495	-0.110	0.0	0.0	0.0
5688	65.400	63.495	-0.110	0.0	0.0	0.0
5712	65.400	63.494	-0.110	0.0	0.0	0.0
5736	65.400	63.494	-0.110	0.0	0.0	0.0
5760	65.400	63.494	-0.110	0.0	0.0	0.0
5784	65.400	63.494	-0.110	0.0	0.0	0.0
5808	65.400	63.494	-0.110	0.0	0.0	0.0
5832	65.400	63.494	-0.110	0.0	0.0	0.0
5856	65.400	63.494	-0.110	0.0	0.0	0.0
5880	65.400	63.494	-0.110	0.0	0.0	0.0
5904	65.400	63.494	-0.110	0.0	0.0	0.0
5928	65.400	63.494	-0.110	0.0	0.0	0.0
5952	65.400	63.494	-0.110	0.0	0.0	0.0
5976	65.400	63.494	-0.110	0.0	0.0	0.0
6000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.494	-0.110	0.0	0.0	0.0
6048	65.400	63.494	-0.110	0.0	0.0	0.0
6072	65.400	63.494	-0.110	0.0	0.0	0.0
6096	65.400	63.494	-0.110	0.0	0.0	0.0
6120	65.400	63.494	-0.110	0.0	0.0	0.0
6144	65.400	63.494	-0.110	0.0	0.0	0.0
6168	65.400	63.494	-0.110	0.0	0.0	0.0
6192	65.400	63.494	-0.110	0.0	0.0	0.0
6216	65.400	63.494	-0.110	0.0	0.0	0.0
6240	65.400	63.494	-0.110	0.0	0.0	0.0
6264	65.400	63.494	-0.110	0.0	0.0	0.0
6288	65.400	63.494	-0.110	0.0	0.0	0.0
6312	65.400	63.494	-0.110	0.0	0.0	0.0
6336	65.400	63.494	-0.110	0.0	0.0	0.0
6360	65.400	63.494	-0.110	0.0	0.0	0.0
6384	65.400	63.494	-0.110	0.0	0.0	0.0
6408	65.400	63.494	-0.110	0.0	0.0	0.0
6432	65.400	63.494	-0.110	0.0	0.0	0.0
6456	65.400	63.494	-0.110	0.0	0.0	0.0
6480	65.400	63.494	-0.110	0.0	0.0	0.0
6504	65.400	63.494	-0.110	0.0	0.0	0.0
6528	65.400	63.494	-0.110	0.0	0.0	0.0
6552	65.400	63.494	-0.110	0.0	0.0	0.0
6576	65.400	63.494	-0.110	0.0	0.0	0.0
6600	65.400	63.494	-0.110	0.0	0.0	0.0
6624	65.400	63.494	-0.110	0.0	0.0	0.0
6648	65.400	63.494	-0.110	0.0	0.0	0.0
6672	65.400	63.494	-0.110	0.0	0.0	0.0
6696	65.400	63.494	-0.110	0.0	0.0	0.0
6720	65.400	63.494	-0.110	0.0	0.0	0.0
6744	65.400	63.494	-0.110	0.0	0.0	0.0
6768	65.400	63.494	-0.110	0.0	0.0	0.0
6792	65.400	63.494	-0.110	0.0	0.0	0.0
6816	65.400	63.494	-0.110	0.0	0.0	0.0
6840	65.400	63.494	-0.110	0.0	0.0	0.0
6864	65.400	63.494	-0.110	0.0	0.0	0.0
6888	65.400	63.494	-0.110	0.0	0.0	0.0
6912	65.400	63.494	-0.110	0.0	0.0	0.0
6936	65.400	63.494	-0.110	0.0	0.0	0.0
6960	65.400	63.494	-0.110	0.0	0.0	0.0
6984	65.400	63.494	-0.110	0.0	0.0	0.0
7008	65.400	63.494	-0.110	0.0	0.0	0.0
7032	65.400	63.494	-0.110	0.0	0.0	0.0
7056	65.400	63.494	-0.110	0.0	0.0	0.0
7080	65.400	63.494	-0.110	0.0	0.0	0.0
7104	65.400	63.494	-0.110	0.0	0.0	0.0
7128	65.400	63.494	-0.110	0.0	0.0	0.0
7152	65.400	63.494	-0.110	0.0	0.0	0.0
7176	65.400	63.494	-0.110	0.0	0.0	0.0
7200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
72	63.494	63.444	-0.110	0.0	0.0	0.0
96	63.494	63.444	-0.110	0.0	0.0	0.0
120	63.494	63.444	-0.110	0.0	0.0	0.0
144	63.494	63.444	-0.110	0.0	0.0	0.0
168	63.494	63.444	-0.110	0.0	0.0	0.0
192	63.495	63.445	-0.110	0.0	0.0	0.0
216	63.495	63.445	-0.110	0.0	0.0	0.0
240	63.495	63.445	-0.110	0.0	0.0	0.0
264	63.495	63.445	-0.109	0.0	0.0	0.0
288	63.495	63.445	-0.109	0.0	0.0	0.0
312	63.495	63.446	-0.109	0.0	0.0	0.0
336	63.495	63.446	-0.109	0.0	0.0	0.0
360	63.495	63.446	-0.109	0.0	0.0	0.0
384	63.495	63.446	-0.109	0.0	0.0	0.0
408	63.495	63.446	-0.109	0.0	0.0	0.0
432	63.496	63.446	-0.108	0.0	0.1	0.0
456	63.495	63.447	-0.109	0.0	0.1	0.0
480	63.495	63.447	-0.109	0.0	0.1	0.0
504	63.496	63.447	-0.109	0.0	0.1	0.0
528	63.496	63.447	-0.109	0.0	0.1	0.0
552	63.496	63.447	-0.109	0.0	0.1	0.0
576	63.496	63.447	-0.109	0.0	0.1	0.0
600	63.496	63.447	-0.109	0.0	0.1	0.0
624	63.496	63.447	-0.109	0.0	0.1	0.0
648	63.496	63.447	-0.109	0.0	0.1	0.0
672	63.496	63.447	-0.109	0.0	0.1	0.0
696	63.496	63.447	-0.109	0.0	0.1	0.0
720	63.496	63.447	-0.109	0.0	0.1	0.0
744	63.496	63.447	-0.109	0.0	0.1	0.0
768	63.496	63.447	-0.109	0.0	0.1	0.0
792	63.496	63.447	-0.109	0.0	0.1	0.0
816	63.496	63.447	-0.109	0.0	0.1	0.0
840	63.496	63.447	-0.109	0.0	0.1	0.0
864	63.496	63.447	-0.109	0.0	0.1	0.0
888	63.496	63.447	-0.109	0.0	0.1	0.0
912	63.496	63.447	-0.109	0.0	0.1	0.0
936	63.496	63.447	-0.109	0.0	0.1	0.0
960	63.496	63.447	-0.109	0.0	0.1	0.0
984	63.496	63.447	-0.109	0.0	0.1	0.0
1008	63.496	63.447	-0.109	0.0	0.1	0.0
1032	63.496	63.447	-0.109	0.0	0.1	0.0
1056	63.496	63.447	-0.109	0.0	0.1	0.0
1080	63.496	63.447	-0.109	0.0	0.1	0.0
1104	63.496	63.447	-0.109	0.0	0.1	0.0
1128	63.496	63.447	-0.108	0.0	0.1	0.0
1152	63.496	63.447	-0.108	0.0	0.1	0.0
1176	63.496	63.447	-0.108	0.0	0.1	0.0
1200	63.496	63.447	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.496	63.447	-0.108	0.0	0.1	0.0
1248	63.496	63.447	-0.108	0.0	0.1	0.0
1272	63.496	63.447	-0.108	0.0	0.1	0.0
1296	63.496	63.447	-0.108	0.0	0.1	0.0
1320	63.496	63.447	-0.108	0.0	0.1	0.0
1344	63.496	63.448	-0.108	0.0	0.1	0.0
1368	63.496	63.448	-0.108	0.0	0.1	0.0
1392	63.496	63.448	-0.108	0.0	0.1	0.0
1416	63.496	63.448	-0.108	0.0	0.1	0.0
1440	63.496	63.448	-0.108	0.0	0.1	0.0
1464	63.496	63.448	-0.108	0.0	0.1	0.0
1488	63.496	63.448	-0.108	0.0	0.1	0.0
1512	63.496	63.448	-0.108	0.0	0.1	0.0
1536	63.496	63.448	-0.108	0.0	0.1	0.0
1560	63.496	63.448	-0.108	0.0	0.1	0.0
1584	63.497	63.449	-0.108	0.0	0.1	0.0
1608	63.497	63.449	-0.108	0.0	0.1	0.0
1632	63.497	63.449	-0.107	0.0	0.1	0.0
1656	63.497	63.449	-0.107	0.0	0.1	0.0
1680	63.497	63.449	-0.107	0.0	0.1	0.0
1704	63.497	63.449	-0.107	0.0	0.2	0.0
1728	63.497	63.449	-0.107	0.0	0.2	0.0
1752	63.497	63.450	-0.107	0.0	0.2	0.0
1776	63.497	63.450	-0.107	0.0	0.2	0.0
1800	63.497	63.450	-0.107	0.0	0.2	0.0
1824	63.497	63.450	-0.107	0.0	0.2	0.0
1848	63.497	63.450	-0.107	0.0	0.2	0.0
1872	63.498	63.451	-0.106	0.0	0.2	0.0
1896	63.498	63.451	-0.106	0.0	0.2	0.0
1920	63.498	63.451	-0.106	0.0	0.2	0.0
1944	63.498	63.451	-0.106	0.0	0.2	0.0
1968	63.498	63.452	-0.106	0.0	0.2	0.1
1992	63.498	63.452	-0.106	0.0	0.2	0.1
2016	63.498	63.452	-0.106	0.0	0.2	0.1
2040	63.499	63.452	-0.106	0.0	0.2	0.1
2064	63.499	63.452	-0.106	0.0	0.2	0.1
2088	63.499	63.453	-0.105	0.0	0.2	0.1
2112	63.499	63.453	-0.105	0.0	0.3	0.1
2136	63.499	63.453	-0.105	0.0	0.3	0.1
2160	63.499	63.454	-0.105	0.0	0.3	0.1
2184	63.499	63.454	-0.105	0.0	0.3	0.1
2208	63.499	63.454	-0.105	0.0	0.3	0.1
2232	63.500	63.454	-0.105	0.0	0.3	0.1
2256	63.500	63.455	-0.104	0.0	0.3	0.1
2280	63.500	63.455	-0.104	0.0	0.3	0.1
2304	63.500	63.455	-0.104	0.0	0.3	0.1
2328	63.500	63.455	-0.104	0.0	0.3	0.1
2352	63.500	63.455	-0.104	0.0	0.3	0.1
2376	63.500	63.455	-0.104	0.0	0.3	0.1
2400	63.500	63.455	-0.104	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.501	63.455	-0.104	0.0	0.3	0.1
2448	63.501	63.456	-0.103	0.0	0.4	0.1
2472	63.501	63.456	-0.103	0.0	0.4	0.1
2496	63.501	63.456	-0.103	0.0	0.4	0.1
2520	63.501	63.456	-0.103	0.0	0.4	0.1
2544	63.501	63.456	-0.103	0.0	0.4	0.1
2568	63.501	63.456	-0.103	0.0	0.4	0.1
2592	63.501	63.456	-0.103	0.0	0.3	0.1
2616	63.502	63.456	-0.103	0.0	0.3	0.1
2640	63.502	63.456	-0.103	0.0	0.3	0.1
2664	63.502	63.456	-0.102	0.0	0.3	0.1
2688	63.502	63.456	-0.102	0.0	0.3	0.1
2712	63.502	63.456	-0.102	0.0	0.3	0.1
2736	63.502	63.456	-0.102	0.0	0.3	0.1
2760	63.502	63.456	-0.102	0.0	0.3	0.1
2784	63.502	63.456	-0.102	0.0	0.3	0.1
2808	63.502	63.456	-0.102	0.0	0.3	0.1
2832	63.502	63.456	-0.102	0.0	0.3	0.1
2856	63.502	63.456	-0.102	0.0	0.3	0.1
2880	63.502	63.456	-0.102	0.0	0.3	0.1
2904	63.502	63.456	-0.102	0.0	0.3	0.1
2928	63.502	63.456	-0.102	0.0	0.3	0.1
2952	63.502	63.456	-0.102	0.0	0.3	0.1
2976	63.502	63.457	-0.102	0.0	0.3	0.1
3000	63.502	63.459	-0.102	0.0	0.3	0.1
3024	63.502	63.462	-0.102	0.0	0.3	0.1
3048	63.502	63.466	-0.102	0.0	0.3	0.1
3072	63.502	63.470	-0.102	0.0	0.3	0.1
3096	63.502	63.475	-0.102	0.0	0.3	0.1
3120	63.502	63.480	-0.102	0.0	0.3	0.1
3144	63.502	63.484	-0.103	0.0	0.3	0.1
3168	63.502	63.489	-0.102	0.0	0.3	0.1
3192	63.503	63.493	-0.101	0.0	0.3	0.1
3216	63.505	63.498	-0.099	0.0	0.2	0.1
3240	63.506	63.502	-0.098	0.0	0.2	0.1
3264	63.508	63.506	-0.096	0.0	0.1	0.1
3288	63.511	63.510	-0.093	0.0	0.1	0.1
3312	63.514	63.513	-0.090	0.0	0.1	0.1
3336	63.517	63.517	-0.087	0.0	0.1	0.1
3360	63.521	63.520	-0.083	0.0	0.1	0.1
3384	63.524	63.524	-0.080	0.0	0.0	0.1
3408	63.527	63.527	-0.077	0.0	0.0	0.1
3432	63.530	63.530	-0.074	0.0	0.0	0.1
3456	63.533	63.533	-0.071	0.0	0.0	0.1
3480	63.536	63.536	-0.068	0.0	0.0	0.1
3504	63.539	63.538	-0.066	0.0	0.0	0.1
3528	63.541	63.541	-0.063	0.0	0.0	0.1
3552	63.543	63.543	-0.061	0.0	0.0	0.1
3576	63.545	63.545	-0.059	0.0	0.0	0.1
3600	63.547	63.547	-0.057	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.549	63.549	-0.055	0.0	0.0	0.1
3648	63.551	63.550	-0.053	0.0	0.0	0.1
3672	63.552	63.552	-0.052	0.0	0.0	0.1
3696	63.554	63.554	-0.050	0.0	0.0	0.1
3720	63.555	63.555	-0.049	0.0	0.0	0.1
3744	63.556	63.556	-0.048	0.0	0.0	0.1
3768	63.557	63.557	-0.047	0.0	0.0	0.1
3792	63.558	63.558	-0.046	0.0	0.0	0.1
3816	63.559	63.559	-0.045	0.0	0.0	0.1
3840	63.560	63.560	-0.044	0.0	0.0	0.0
3864	63.560	63.560	-0.044	0.0	0.0	0.0
3888	63.561	63.561	-0.043	0.0	0.0	0.0
3912	63.561	63.561	-0.043	0.0	0.0	0.0
3936	63.561	63.561	-0.043	0.0	0.0	0.0
3960	63.561	63.561	-0.043	0.0	0.0	0.0
3984	63.561	63.561	-0.043	0.0	0.0	0.0
4008	63.561	63.561	-0.043	0.0	0.0	0.0
4032	63.561	63.561	-0.043	0.0	0.0	0.0
4056	63.560	63.560	-0.044	0.0	0.0	0.0
4080	63.560	63.560	-0.044	0.0	0.0	0.0
4104	63.559	63.559	-0.045	0.0	0.0	0.0
4128	63.559	63.558	-0.046	0.0	0.0	0.0
4152	63.558	63.558	-0.046	0.0	0.0	0.0
4176	63.557	63.557	-0.047	0.0	0.0	0.0
4200	63.556	63.556	-0.048	0.0	0.0	0.0
4224	63.555	63.555	-0.049	0.0	0.0	0.0
4248	63.554	63.554	-0.050	0.0	0.0	0.0
4272	63.553	63.553	-0.051	0.0	0.0	0.0
4296	63.552	63.551	-0.053	0.0	0.0	0.0
4320	63.550	63.550	-0.054	0.0	0.0	0.0
4344	63.549	63.549	-0.055	0.0	0.0	0.0
4368	63.548	63.547	-0.057	0.0	0.0	0.0
4392	63.546	63.546	-0.058	0.0	0.0	0.0
4416	63.545	63.545	-0.059	0.0	0.0	0.0
4440	63.542	63.543	-0.062	0.0	0.0	0.0
4464	63.541	63.541	-0.064	0.0	0.0	0.0
4488	63.540	63.540	-0.064	0.0	0.0	0.0
4512	63.538	63.538	-0.066	0.0	0.0	0.0
4536	63.537	63.536	-0.068	0.0	0.0	0.0
4560	63.535	63.535	-0.069	0.0	0.0	0.0
4584	63.533	63.533	-0.071	0.0	0.0	0.0
4608	63.531	63.531	-0.073	0.0	0.0	0.0
4632	63.530	63.529	-0.075	0.0	0.0	0.0
4656	63.527	63.528	-0.077	0.0	0.0	0.0
4680	63.526	63.526	-0.078	0.0	0.0	0.0
4704	63.524	63.524	-0.080	0.0	0.0	0.0
4728	63.522	63.522	-0.082	0.0	0.0	0.0
4752	63.520	63.520	-0.084	0.0	0.0	0.0
4776	63.518	63.518	-0.086	0.0	0.0	0.0
4800	63.516	63.517	-0.088	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.514	63.515	-0.090	0.0	0.0	0.0
4848	63.513	63.513	-0.091	0.0	0.0	0.0
4872	63.511	63.511	-0.093	0.0	0.0	0.0
4896	63.509	63.509	-0.095	0.0	0.0	0.0
4920	63.509	63.507	-0.096	0.0	0.0	0.0
4944	63.506	63.506	-0.098	0.0	0.0	0.0
4968	63.505	63.504	-0.099	0.0	0.0	0.0
4992	63.502	63.502	-0.102	0.0	0.0	0.0
5016	63.501	63.499	-0.104	0.0	0.1	0.0
5040	63.499	63.498	-0.105	0.0	0.1	0.0
5064	63.498	63.496	-0.106	0.0	0.1	0.0
5088	63.497	63.494	-0.107	0.0	0.1	0.0
5112	63.497	63.493	-0.107	0.0	0.1	0.0
5136	63.497	63.491	-0.108	0.0	0.1	0.0
5160	63.496	63.489	-0.108	0.0	0.1	0.0
5184	63.496	63.487	-0.108	0.0	0.1	0.0
5208	63.496	63.485	-0.108	0.0	0.1	0.0
5232	63.496	63.483	-0.108	0.0	0.1	0.0
5256	63.496	63.481	-0.108	0.0	0.1	0.0
5280	63.496	63.480	-0.109	0.0	0.1	0.0
5304	63.495	63.478	-0.109	0.0	0.1	0.0
5328	63.495	63.476	-0.109	0.0	0.1	0.0
5352	63.495	63.474	-0.109	0.0	0.1	0.0
5376	63.495	63.472	-0.109	0.0	0.1	0.0
5400	63.495	63.470	-0.109	0.0	0.1	0.0
5424	63.495	63.468	-0.109	0.0	0.1	0.0
5448	63.495	63.466	-0.109	0.0	0.1	0.0
5472	63.495	63.464	-0.109	0.0	0.1	0.0
5496	63.495	63.462	-0.109	0.0	0.1	0.0
5520	63.495	63.460	-0.109	0.0	0.1	0.0
5544	63.495	63.458	-0.109	0.0	0.1	0.0
5568	63.495	63.455	-0.109	0.0	0.0	0.0
5592	63.495	63.453	-0.109	0.0	0.0	0.0
5616	63.495	63.451	-0.109	0.0	0.0	0.0
5640	63.495	63.447	-0.109	0.0	0.0	0.0
5664	63.495	63.446	-0.110	0.0	0.0	0.0
5688	63.495	63.445	-0.110	0.0	0.0	0.0
5712	63.494	63.445	-0.110	0.0	0.0	0.0
5736	63.494	63.444	-0.110	0.0	0.0	0.0
5760	63.494	63.444	-0.110	0.0	0.0	0.0
5784	63.494	63.444	-0.110	0.0	0.0	0.0
5808	63.494	63.444	-0.110	0.0	0.0	0.0
5832	63.494	63.444	-0.110	0.0	0.0	0.0
5856	63.494	63.444	-0.110	0.0	0.0	0.0
5880	63.494	63.444	-0.110	0.0	0.0	0.0
5904	63.494	63.444	-0.110	0.0	0.0	0.0
5928	63.494	63.444	-0.110	0.0	0.0	0.0
5952	63.494	63.444	-0.110	0.0	0.0	0.0
5976	63.494	63.444	-0.110	0.0	0.0	0.0
6000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.494	63.444	-0.110	0.0	0.0	0.0
6048	63.494	63.444	-0.110	0.0	0.0	0.0
6072	63.494	63.444	-0.110	0.0	0.0	0.0
6096	63.494	63.444	-0.110	0.0	0.0	0.0
6120	63.494	63.444	-0.110	0.0	0.0	0.0
6144	63.494	63.444	-0.110	0.0	0.0	0.0
6168	63.494	63.444	-0.110	0.0	0.0	0.0
6192	63.494	63.444	-0.110	0.0	0.0	0.0
6216	63.494	63.444	-0.110	0.0	0.0	0.0
6240	63.494	63.444	-0.110	0.0	0.0	0.0
6264	63.494	63.444	-0.110	0.0	0.0	0.0
6288	63.494	63.444	-0.110	0.0	0.0	0.0
6312	63.494	63.444	-0.110	0.0	0.0	0.0
6336	63.494	63.444	-0.110	0.0	0.0	0.0
6360	63.494	63.444	-0.110	0.0	0.0	0.0
6384	63.494	63.444	-0.110	0.0	0.0	0.0
6408	63.494	63.444	-0.110	0.0	0.0	0.0
6432	63.494	63.444	-0.110	0.0	0.0	0.0
6456	63.494	63.444	-0.110	0.0	0.0	0.0
6480	63.494	63.444	-0.110	0.0	0.0	0.0
6504	63.494	63.444	-0.110	0.0	0.0	0.0
6528	63.494	63.444	-0.110	0.0	0.0	0.0
6552	63.494	63.444	-0.110	0.0	0.0	0.0
6576	63.494	63.444	-0.110	0.0	0.0	0.0
6600	63.494	63.444	-0.110	0.0	0.0	0.0
6624	63.494	63.444	-0.110	0.0	0.0	0.0
6648	63.494	63.444	-0.110	0.0	0.0	0.0
6672	63.494	63.444	-0.110	0.0	0.0	0.0
6696	63.494	63.444	-0.110	0.0	0.0	0.0
6720	63.494	63.444	-0.110	0.0	0.0	0.0
6744	63.494	63.444	-0.110	0.0	0.0	0.0
6768	63.494	63.444	-0.110	0.0	0.0	0.0
6792	63.494	63.444	-0.110	0.0	0.0	0.0
6816	63.494	63.444	-0.110	0.0	0.0	0.0
6840	63.494	63.444	-0.110	0.0	0.0	0.0
6864	63.494	63.444	-0.110	0.0	0.0	0.0
6888	63.494	63.444	-0.110	0.0	0.0	0.0
6912	63.494	63.444	-0.110	0.0	0.0	0.0
6936	63.494	63.444	-0.110	0.0	0.0	0.0
6960	63.494	63.444	-0.110	0.0	0.0	0.0
6984	63.494	63.444	-0.110	0.0	0.0	0.0
7008	63.494	63.444	-0.110	0.0	0.0	0.0
7032	63.494	63.444	-0.110	0.0	0.0	0.0
7056	63.494	63.444	-0.110	0.0	0.0	0.0
7080	63.494	63.444	-0.110	0.0	0.0	0.0
7104	63.494	63.444	-0.110	0.0	0.0	0.0
7128	63.494	63.444	-0.110	0.0	0.0	0.0
7152	63.494	63.444	-0.110	0.0	0.0	0.0
7176	63.494	63.444	-0.110	0.0	0.0	0.0
7200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.1	0.0
1440	65.400	65.000	-0.110	0.0	0.1	0.0
1464	65.400	65.000	-0.110	0.0	0.1	0.0
1488	65.400	65.000	-0.110	0.0	0.1	0.0
1512	65.400	65.000	-0.110	0.0	0.1	0.0
1536	65.400	65.001	-0.110	0.0	0.1	0.0
1560	65.400	65.001	-0.110	0.0	0.1	0.0
1584	65.400	65.001	-0.110	0.0	0.1	0.0
1608	65.400	65.001	-0.110	0.0	0.1	0.0
1632	65.400	65.001	-0.110	0.0	0.1	0.0
1656	65.400	65.001	-0.110	0.0	0.1	0.0
1680	65.400	65.001	-0.110	0.0	0.1	0.0
1704	65.400	65.001	-0.110	0.0	0.1	0.0
1728	65.400	65.001	-0.110	0.0	0.1	0.0
1752	65.400	65.001	-0.110	0.0	0.1	0.0
1776	65.400	65.001	-0.110	0.0	0.1	0.0
1800	65.401	65.001	-0.109	0.0	0.1	0.0
1824	65.401	65.001	-0.109	0.0	0.1	0.0
1848	65.401	65.001	-0.109	0.0	0.1	0.0
1872	65.401	65.001	-0.109	0.0	0.1	0.0
1896	65.401	65.001	-0.109	0.0	0.1	0.0
1920	65.401	65.001	-0.109	0.0	0.1	0.0
1944	65.401	65.001	-0.109	0.0	0.1	0.0
1968	65.401	65.001	-0.109	0.0	0.1	0.0
1992	65.401	65.001	-0.109	0.0	0.1	0.0
2016	65.401	65.001	-0.109	0.0	0.1	0.0
2040	65.401	65.001	-0.109	0.0	0.1	0.0
2064	65.401	65.001	-0.109	0.0	0.1	0.0
2088	65.401	65.001	-0.109	0.0	0.1	0.0
2112	65.401	65.001	-0.109	0.0	0.1	0.0
2136	65.401	65.001	-0.109	0.0	0.1	0.0
2160	65.401	65.001	-0.109	0.0	0.1	0.0
2184	65.401	65.001	-0.109	0.0	0.1	0.0
2208	65.401	65.001	-0.109	0.0	0.1	0.0
2232	65.401	65.001	-0.109	0.0	0.1	0.0
2256	65.401	65.001	-0.109	0.0	0.1	0.0
2280	65.401	65.001	-0.109	0.0	0.2	0.0
2304	65.401	65.001	-0.109	0.0	0.2	0.0
2328	65.401	65.001	-0.109	0.0	0.2	0.0
2352	65.401	65.001	-0.109	0.0	0.2	0.0
2376	65.401	65.001	-0.109	0.0	0.2	0.0
2400	65.401	65.001	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	65.001	-0.109	0.0	0.2	0.0
2448	65.401	65.002	-0.109	0.0	0.2	0.0
2472	65.401	65.002	-0.109	0.0	0.2	0.0
2496	65.401	65.002	-0.109	0.0	0.2	0.0
2520	65.401	65.002	-0.109	0.0	0.2	0.0
2544	65.401	65.002	-0.109	0.0	0.2	0.0
2568	65.401	65.002	-0.109	0.0	0.2	0.0
2592	65.401	65.002	-0.109	0.0	0.2	0.0
2616	65.401	65.002	-0.109	0.0	0.2	0.0
2640	65.401	65.002	-0.109	0.0	0.2	0.0
2664	65.401	65.002	-0.109	0.0	0.2	0.0
2688	65.401	65.002	-0.109	0.0	0.2	0.0
2712	65.401	65.002	-0.109	0.0	0.2	0.0
2736	65.401	65.002	-0.109	0.0	0.2	0.1
2760	65.401	65.002	-0.109	0.0	0.2	0.1
2784	65.401	65.002	-0.109	0.0	0.2	0.1
2808	65.401	65.002	-0.109	0.0	0.2	0.1
2832	65.401	65.002	-0.109	0.0	0.2	0.1
2856	65.401	65.002	-0.109	0.0	0.2	0.1
2880	65.401	65.002	-0.109	0.0	0.2	0.1
2904	65.401	65.002	-0.109	0.0	0.2	0.1
2928	65.401	65.002	-0.109	0.0	0.2	0.1
2952	65.401	65.002	-0.109	0.0	0.2	0.1
2976	65.401	65.002	-0.109	0.0	0.2	0.1
3000	65.401	65.002	-0.109	0.0	0.2	0.1
3024	65.401	65.002	-0.109	0.0	0.2	0.1
3048	65.401	65.002	-0.109	0.0	0.2	0.1
3072	65.401	65.002	-0.109	0.0	0.2	0.0
3096	65.401	65.002	-0.109	0.0	0.2	0.0
3120	65.401	65.002	-0.109	0.0	0.2	0.0
3144	65.401	65.002	-0.109	0.0	0.2	0.0
3168	65.401	65.002	-0.109	0.0	0.2	0.0
3192	65.401	65.002	-0.109	0.0	0.2	0.0
3216	65.401	65.002	-0.109	0.0	0.2	0.0
3240	65.401	65.002	-0.109	0.0	0.2	0.0
3264	65.401	65.002	-0.109	0.0	0.2	0.0
3288	65.401	65.002	-0.109	0.0	0.2	0.0
3312	65.401	65.002	-0.109	0.0	0.2	0.0
3336	65.401	65.002	-0.109	0.0	0.2	0.0
3360	65.401	65.001	-0.109	0.0	0.2	0.0
3384	65.401	65.001	-0.109	0.0	0.2	0.0
3408	65.401	65.001	-0.109	0.0	0.2	0.0
3432	65.401	65.001	-0.109	0.0	0.2	0.0
3456	65.401	65.001	-0.109	0.0	0.2	0.0
3480	65.401	65.001	-0.109	0.0	0.2	0.0
3504	65.401	65.001	-0.109	0.0	0.2	0.0
3528	65.401	65.001	-0.109	0.0	0.1	0.0
3552	65.401	65.001	-0.109	0.0	0.1	0.0
3576	65.401	65.001	-0.109	0.0	0.1	0.0
3600	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	65.001	-0.109	0.0	0.1	0.0
3648	65.401	65.001	-0.109	0.0	0.1	0.0
3672	65.401	65.001	-0.109	0.0	0.1	0.0
3696	65.401	65.001	-0.109	0.0	0.1	0.0
3720	65.401	65.001	-0.109	0.0	0.1	0.0
3744	65.401	65.001	-0.109	0.0	0.1	0.0
3768	65.401	65.001	-0.109	0.0	0.1	0.0
3792	65.401	65.001	-0.109	0.0	0.1	0.0
3816	65.401	65.001	-0.109	0.0	0.1	0.0
3840	65.401	65.001	-0.109	0.0	0.1	0.0
3864	65.401	65.001	-0.109	0.0	0.1	0.0
3888	65.401	65.001	-0.109	0.0	0.1	0.0
3912	65.401	65.001	-0.109	0.0	0.1	0.0
3936	65.401	65.001	-0.109	0.0	0.1	0.0
3960	65.401	65.001	-0.109	0.0	0.1	0.0
3984	65.401	65.001	-0.109	0.0	0.1	0.0
4008	65.400	65.001	-0.110	0.0	0.1	0.0
4032	65.400	65.001	-0.110	0.0	0.1	0.0
4056	65.400	65.001	-0.110	0.0	0.1	0.0
4080	65.400	65.001	-0.110	0.0	0.1	0.0
4104	65.400	65.001	-0.110	0.0	0.1	0.0
4128	65.400	65.001	-0.110	0.0	0.1	0.0
4152	65.400	65.001	-0.110	0.0	0.1	0.0
4176	65.400	65.001	-0.110	0.0	0.1	0.0
4200	65.400	65.001	-0.110	0.0	0.1	0.0
4224	65.400	65.001	-0.110	0.0	0.1	0.0
4248	65.400	65.001	-0.110	0.0	0.1	0.0
4272	65.400	65.000	-0.110	0.0	0.1	0.0
4296	65.400	65.000	-0.110	0.0	0.1	0.0
4320	65.400	65.000	-0.110	0.0	0.1	0.0
4344	65.400	65.000	-0.110	0.0	0.1	0.0
4368	65.400	65.000	-0.110	0.0	0.1	0.0
4392	65.400	65.000	-0.110	0.0	0.0	0.0
4416	65.400	65.000	-0.110	0.0	0.0	0.0
4440	65.400	65.000	-0.110	0.0	0.0	0.0
4464	65.400	65.000	-0.110	0.0	0.0	0.0
4488	65.400	65.000	-0.110	0.0	0.0	0.0
4512	65.400	65.000	-0.110	0.0	0.0	0.0
4536	65.400	65.000	-0.110	0.0	0.0	0.0
4560	65.400	65.000	-0.110	0.0	0.0	0.0
4584	65.400	65.000	-0.110	0.0	0.0	0.0
4608	65.400	65.000	-0.110	0.0	0.0	0.0
4632	65.400	65.000	-0.110	0.0	0.0	0.0
4656	65.400	65.000	-0.110	0.0	0.0	0.0
4680	65.400	65.000	-0.110	0.0	0.0	0.0
4704	65.400	65.000	-0.110	0.0	0.0	0.0
4728	65.400	65.000	-0.110	0.0	0.0	0.0
4752	65.400	65.000	-0.110	0.0	0.0	0.0
4776	65.400	65.000	-0.110	0.0	0.0	0.0
4800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.000	-0.110	0.0	0.0	0.0
4848	65.400	65.000	-0.110	0.0	0.0	0.0
4872	65.400	65.000	-0.110	0.0	0.0	0.0
4896	65.400	65.000	-0.110	0.0	0.0	0.0
4920	65.400	65.000	-0.110	0.0	0.0	0.0
4944	65.400	65.000	-0.110	0.0	0.0	0.0
4968	65.400	65.000	-0.110	0.0	0.0	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
72	65.000	63.444	-0.110	0.0	0.0	0.0
96	65.000	63.444	-0.110	0.0	0.0	0.0
120	65.000	63.444	-0.110	0.0	0.0	0.0
144	65.000	63.444	-0.110	0.0	0.0	0.0
168	65.000	63.444	-0.110	0.0	0.0	0.0
192	65.000	63.445	-0.110	0.0	0.0	0.0
216	65.000	63.445	-0.110	0.0	0.0	0.0
240	65.000	63.445	-0.110	0.0	0.0	0.0
264	65.000	63.445	-0.110	0.0	0.0	0.0
288	65.000	63.445	-0.110	0.0	0.0	0.0
312	65.000	63.446	-0.110	0.0	0.1	0.0
336	65.000	63.446	-0.110	0.0	0.1	0.0
360	65.000	63.446	-0.110	0.0	0.1	0.0
384	65.000	63.446	-0.110	0.0	0.1	0.0
408	65.000	63.446	-0.110	0.0	0.1	0.0
432	65.000	63.446	-0.110	0.0	0.1	0.0
456	65.000	63.447	-0.110	0.0	0.1	0.0
480	65.000	63.447	-0.110	0.0	0.1	0.0
504	65.000	63.447	-0.110	0.0	0.1	0.0
528	65.000	63.447	-0.110	0.0	0.1	0.0
552	65.000	63.447	-0.110	0.0	0.1	0.0
576	65.000	63.447	-0.110	0.0	0.1	0.0
600	65.000	63.447	-0.110	0.0	0.1	0.0
624	65.000	63.447	-0.110	0.0	0.1	0.0
648	65.000	63.447	-0.110	0.0	0.1	0.0
672	65.000	63.447	-0.110	0.0	0.1	0.0
696	65.000	63.447	-0.110	0.0	0.1	0.0
720	65.000	63.447	-0.110	0.0	0.1	0.0
744	65.000	63.447	-0.110	0.0	0.1	0.0
768	65.000	63.447	-0.110	0.0	0.1	0.0
792	65.000	63.447	-0.110	0.0	0.1	0.0
816	65.000	63.447	-0.110	0.0	0.1	0.0
840	65.000	63.447	-0.110	0.0	0.1	0.0
864	65.000	63.447	-0.110	0.0	0.1	0.0
888	65.000	63.447	-0.110	0.0	0.1	0.0
912	65.000	63.447	-0.110	0.0	0.1	0.0
936	65.000	63.447	-0.110	0.0	0.1	0.0
960	65.000	63.447	-0.110	0.0	0.1	0.0
984	65.000	63.447	-0.110	0.0	0.1	0.0
1008	65.000	63.447	-0.110	0.0	0.1	0.0
1032	65.000	63.447	-0.110	0.0	0.1	0.0
1056	65.000	63.447	-0.110	0.0	0.1	0.0
1080	65.000	63.447	-0.110	0.0	0.1	0.0
1104	65.000	63.447	-0.110	0.0	0.1	0.0
1128	65.000	63.447	-0.110	0.0	0.1	0.0
1152	65.000	63.447	-0.110	0.0	0.1	0.0
1176	65.000	63.447	-0.110	0.0	0.1	0.0
1200	65.000	63.447	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.447	-0.110	0.0	0.1	0.0
1248	65.000	63.447	-0.110	0.0	0.1	0.0
1272	65.000	63.447	-0.110	0.0	0.1	0.0
1296	65.000	63.447	-0.110	0.0	0.1	0.0
1320	65.000	63.447	-0.110	0.0	0.1	0.0
1344	65.000	63.448	-0.110	0.0	0.1	0.0
1368	65.000	63.448	-0.110	0.0	0.1	0.0
1392	65.000	63.448	-0.110	0.0	0.1	0.0
1416	65.000	63.448	-0.110	0.0	0.1	0.0
1440	65.000	63.448	-0.110	0.0	0.1	0.0
1464	65.000	63.448	-0.110	0.0	0.1	0.0
1488	65.000	63.448	-0.110	0.0	0.1	0.0
1512	65.000	63.448	-0.110	0.0	0.1	0.0
1536	65.001	63.448	-0.109	0.0	0.1	0.0
1560	65.001	63.448	-0.109	0.0	0.1	0.0
1584	65.001	63.449	-0.109	0.0	0.1	0.0
1608	65.001	63.449	-0.109	0.0	0.1	0.0
1632	65.001	63.449	-0.109	0.0	0.1	0.0
1656	65.001	63.449	-0.109	0.0	0.1	0.0
1680	65.001	63.449	-0.109	0.0	0.1	0.0
1704	65.001	63.449	-0.109	0.0	0.2	0.0
1728	65.001	63.449	-0.109	0.0	0.2	0.0
1752	65.001	63.450	-0.109	0.0	0.2	0.0
1776	65.001	63.450	-0.109	0.0	0.2	0.0
1800	65.001	63.450	-0.109	0.0	0.2	0.0
1824	65.001	63.450	-0.109	0.0	0.2	0.0
1848	65.001	63.450	-0.109	0.0	0.2	0.0
1872	65.001	63.451	-0.109	0.0	0.2	0.0
1896	65.001	63.451	-0.109	0.0	0.2	0.0
1920	65.001	63.451	-0.109	0.0	0.2	0.0
1944	65.001	63.451	-0.109	0.0	0.2	0.0
1968	65.001	63.452	-0.109	0.0	0.2	0.1
1992	65.001	63.452	-0.109	0.0	0.2	0.1
2016	65.001	63.452	-0.109	0.0	0.2	0.1
2040	65.001	63.452	-0.109	0.0	0.2	0.1
2064	65.001	63.452	-0.109	0.0	0.2	0.1
2088	65.001	63.453	-0.109	0.0	0.2	0.1
2112	65.001	63.453	-0.109	0.0	0.3	0.1
2136	65.001	63.453	-0.109	0.0	0.3	0.1
2160	65.001	63.454	-0.109	0.0	0.3	0.1
2184	65.001	63.454	-0.109	0.0	0.3	0.1
2208	65.001	63.454	-0.109	0.0	0.3	0.1
2232	65.001	63.454	-0.109	0.0	0.3	0.1
2256	65.001	63.455	-0.109	0.0	0.3	0.1
2280	65.001	63.455	-0.109	0.0	0.3	0.1
2304	65.001	63.455	-0.109	0.0	0.3	0.1
2328	65.001	63.455	-0.109	0.0	0.3	0.1
2352	65.001	63.455	-0.109	0.0	0.3	0.1
2376	65.001	63.455	-0.109	0.0	0.3	0.1
2400	65.001	63.455	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.455	-0.109	0.0	0.3	0.1
2448	65.002	63.456	-0.108	0.0	0.4	0.1
2472	65.002	63.456	-0.108	0.0	0.4	0.1
2496	65.002	63.456	-0.108	0.0	0.4	0.1
2520	65.002	63.456	-0.108	0.0	0.4	0.1
2544	65.002	63.456	-0.108	0.0	0.4	0.1
2568	65.002	63.456	-0.108	0.0	0.4	0.1
2592	65.002	63.456	-0.108	0.0	0.4	0.1
2616	65.002	63.456	-0.108	0.0	0.4	0.1
2640	65.002	63.456	-0.108	0.0	0.4	0.1
2664	65.002	63.456	-0.108	0.0	0.4	0.1
2688	65.002	63.456	-0.108	0.0	0.4	0.1
2712	65.002	63.456	-0.108	0.0	0.4	0.1
2736	65.002	63.456	-0.108	0.0	0.4	0.1
2760	65.002	63.456	-0.108	0.0	0.4	0.1
2784	65.002	63.456	-0.108	0.0	0.4	0.1
2808	65.002	63.456	-0.108	0.0	0.4	0.1
2832	65.002	63.456	-0.108	0.0	0.4	0.1
2856	65.002	63.456	-0.108	0.0	0.4	0.1
2880	65.002	63.456	-0.108	0.0	0.4	0.1
2904	65.002	63.456	-0.108	0.0	0.4	0.1
2928	65.002	63.456	-0.108	0.0	0.4	0.1
2952	65.002	63.456	-0.108	0.0	0.4	0.1
2976	65.002	63.457	-0.108	0.0	0.4	0.1
3000	65.002	63.459	-0.108	0.0	0.4	0.1
3024	65.002	63.462	-0.108	0.0	0.4	0.1
3048	65.002	63.466	-0.108	0.0	0.4	0.1
3072	65.002	63.470	-0.108	0.0	0.4	0.1
3096	65.002	63.475	-0.108	0.0	0.4	0.1
3120	65.002	63.480	-0.108	0.0	0.4	0.1
3144	65.002	63.484	-0.108	0.0	0.4	0.1
3168	65.002	63.489	-0.108	0.0	0.4	0.1
3192	65.002	63.493	-0.108	0.0	0.4	0.1
3216	65.002	63.498	-0.108	0.0	0.4	0.1
3240	65.002	63.502	-0.108	0.0	0.4	0.1
3264	65.002	63.506	-0.108	0.0	0.4	0.1
3288	65.002	63.510	-0.108	0.0	0.4	0.1
3312	65.002	63.513	-0.108	0.0	0.4	0.1
3336	65.002	63.517	-0.108	0.0	0.4	0.1
3360	65.001	63.520	-0.109	0.0	0.3	0.1
3384	65.001	63.524	-0.109	0.0	0.3	0.1
3408	65.001	63.527	-0.109	0.0	0.3	0.1
3432	65.001	63.530	-0.109	0.0	0.3	0.1
3456	65.001	63.533	-0.109	0.0	0.3	0.1
3480	65.001	63.536	-0.109	0.0	0.3	0.1
3504	65.001	63.538	-0.109	0.0	0.3	0.1
3528	65.001	63.541	-0.109	0.0	0.3	0.1
3552	65.001	63.543	-0.109	0.0	0.3	0.1
3576	65.001	63.545	-0.109	0.0	0.3	0.1
3600	65.001	63.547	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.001	63.549	-0.109	0.0	0.3	0.1
3648	65.001	63.550	-0.109	0.0	0.3	0.1
3672	65.001	63.552	-0.109	0.0	0.3	0.1
3696	65.001	63.554	-0.109	0.0	0.2	0.1
3720	65.001	63.555	-0.109	0.0	0.2	0.1
3744	65.001	63.556	-0.109	0.0	0.2	0.1
3768	65.001	63.557	-0.109	0.0	0.2	0.1
3792	65.001	63.558	-0.109	0.0	0.2	0.1
3816	65.001	63.559	-0.109	0.0	0.2	0.1
3840	65.001	63.560	-0.109	0.0	0.2	0.0
3864	65.001	63.560	-0.109	0.0	0.2	0.0
3888	65.001	63.561	-0.109	0.0	0.2	0.0
3912	65.001	63.561	-0.109	0.0	0.2	0.0
3936	65.001	63.561	-0.109	0.0	0.2	0.0
3960	65.001	63.561	-0.109	0.0	0.2	0.0
3984	65.001	63.561	-0.109	0.0	0.2	0.0
4008	65.001	63.561	-0.109	0.0	0.2	0.0
4032	65.001	63.561	-0.109	0.0	0.2	0.0
4056	65.001	63.560	-0.109	0.0	0.2	0.0
4080	65.001	63.560	-0.109	0.0	0.2	0.0
4104	65.001	63.559	-0.109	0.0	0.1	0.0
4128	65.001	63.558	-0.109	0.0	0.1	0.0
4152	65.001	63.558	-0.109	0.0	0.1	0.0
4176	65.001	63.557	-0.109	0.0	0.1	0.0
4200	65.001	63.556	-0.109	0.0	0.1	0.0
4224	65.001	63.555	-0.109	0.0	0.1	0.0
4248	65.001	63.554	-0.109	0.0	0.1	0.0
4272	65.000	63.553	-0.110	0.0	0.1	0.0
4296	65.000	63.551	-0.110	0.0	0.1	0.0
4320	65.000	63.550	-0.110	0.0	0.1	0.0
4344	65.000	63.549	-0.110	0.0	0.1	0.0
4368	65.000	63.547	-0.110	0.0	0.1	0.0
4392	65.000	63.546	-0.110	0.0	0.1	0.0
4416	65.000	63.545	-0.110	0.0	0.1	0.0
4440	65.000	63.543	-0.110	0.0	0.1	0.0
4464	65.000	63.541	-0.110	0.0	0.1	0.0
4488	65.000	63.540	-0.110	0.0	0.1	0.0
4512	65.000	63.538	-0.110	0.0	0.1	0.0
4536	65.000	63.536	-0.110	0.0	0.1	0.0
4560	65.000	63.535	-0.110	0.0	0.1	0.0
4584	65.000	63.533	-0.110	0.0	0.1	0.0
4608	65.000	63.531	-0.110	0.0	0.1	0.0
4632	65.000	63.529	-0.110	0.0	0.1	0.0
4656	65.000	63.528	-0.110	0.0	0.1	0.0
4680	65.000	63.526	-0.110	0.0	0.1	0.0
4704	65.000	63.524	-0.110	0.0	0.1	0.0
4728	65.000	63.522	-0.110	0.0	0.1	0.0
4752	65.000	63.520	-0.110	0.0	0.1	0.0
4776	65.000	63.518	-0.110	0.0	0.1	0.0
4800	65.000	63.517	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.000	63.515	-0.110	0.0	0.1	0.0
4848	65.000	63.513	-0.110	0.0	0.1	0.0
4872	65.000	63.511	-0.110	0.0	0.1	0.0
4896	65.000	63.509	-0.110	0.0	0.1	0.0
4920	65.000	63.507	-0.110	0.0	0.1	0.0
4944	65.000	63.506	-0.110	0.0	0.1	0.0
4968	65.000	63.504	-0.110	0.0	0.1	0.0
4992	65.000	63.502	-0.110	0.0	0.1	0.0
5016	65.000	63.499	-0.110	0.0	0.1	0.0
5040	65.000	63.498	-0.110	0.0	0.1	0.0
5064	65.000	63.496	-0.110	0.0	0.1	0.0
5088	65.000	63.494	-0.110	0.0	0.1	0.0
5112	65.000	63.493	-0.110	0.0	0.1	0.0
5136	65.000	63.491	-0.110	0.0	0.1	0.0
5160	65.000	63.489	-0.110	0.0	0.1	0.0
5184	65.000	63.487	-0.110	0.0	0.1	0.0
5208	65.000	63.485	-0.110	0.0	0.1	0.0
5232	65.000	63.483	-0.110	0.0	0.1	0.0
5256	65.000	63.481	-0.110	0.0	0.1	0.0
5280	65.000	63.480	-0.110	0.0	0.1	0.0
5304	65.000	63.478	-0.110	0.0	0.1	0.0
5328	65.000	63.476	-0.110	0.0	0.1	0.0
5352	65.000	63.474	-0.110	0.0	0.1	0.0
5376	65.000	63.472	-0.110	0.0	0.1	0.0
5400	65.000	63.470	-0.110	0.0	0.1	0.0
5424	65.000	63.468	-0.110	0.0	0.1	0.0
5448	65.000	63.466	-0.110	0.0	0.1	0.0
5472	65.000	63.464	-0.110	0.0	0.1	0.0
5496	65.000	63.462	-0.110	0.0	0.1	0.0
5520	65.000	63.460	-0.110	0.0	0.1	0.0
5544	65.000	63.458	-0.110	0.0	0.1	0.0
5568	65.000	63.455	-0.110	0.0	0.0	0.0
5592	65.000	63.453	-0.110	0.0	0.0	0.0
5616	65.000	63.451	-0.110	0.0	0.0	0.0
5640	65.000	63.447	-0.110	0.0	0.0	0.0
5664	65.000	63.446	-0.110	0.0	0.0	0.0
5688	65.000	63.445	-0.110	0.0	0.0	0.0
5712	65.000	63.445	-0.110	0.0	0.0	0.0
5736	65.000	63.444	-0.110	0.0	0.0	0.0
5760	65.000	63.444	-0.110	0.0	0.0	0.0
5784	65.000	63.444	-0.110	0.0	0.0	0.0
5808	65.000	63.444	-0.110	0.0	0.0	0.0
5832	65.000	63.444	-0.110	0.0	0.0	0.0
5856	65.000	63.444	-0.110	0.0	0.0	0.0
5880	65.000	63.444	-0.110	0.0	0.0	0.0
5904	65.000	63.444	-0.110	0.0	0.0	0.0
5928	65.000	63.444	-0.110	0.0	0.0	0.0
5952	65.000	63.444	-0.110	0.0	0.0	0.0
5976	65.000	63.444	-0.110	0.0	0.0	0.0
6000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.444	-0.110	0.0	0.0	0.0
6048	65.000	63.444	-0.110	0.0	0.0	0.0
6072	65.000	63.444	-0.110	0.0	0.0	0.0
6096	65.000	63.444	-0.110	0.0	0.0	0.0
6120	65.000	63.444	-0.110	0.0	0.0	0.0
6144	65.000	63.444	-0.110	0.0	0.0	0.0
6168	65.000	63.444	-0.110	0.0	0.0	0.0
6192	65.000	63.444	-0.110	0.0	0.0	0.0
6216	65.000	63.444	-0.110	0.0	0.0	0.0
6240	65.000	63.444	-0.110	0.0	0.0	0.0
6264	65.000	63.444	-0.110	0.0	0.0	0.0
6288	65.000	63.444	-0.110	0.0	0.0	0.0
6312	65.000	63.444	-0.110	0.0	0.0	0.0
6336	65.000	63.444	-0.110	0.0	0.0	0.0
6360	65.000	63.444	-0.110	0.0	0.0	0.0
6384	65.000	63.444	-0.110	0.0	0.0	0.0
6408	65.000	63.444	-0.110	0.0	0.0	0.0
6432	65.000	63.444	-0.110	0.0	0.0	0.0
6456	65.000	63.444	-0.110	0.0	0.0	0.0
6480	65.000	63.444	-0.110	0.0	0.0	0.0
6504	65.000	63.444	-0.110	0.0	0.0	0.0
6528	65.000	63.444	-0.110	0.0	0.0	0.0
6552	65.000	63.444	-0.110	0.0	0.0	0.0
6576	65.000	63.444	-0.110	0.0	0.0	0.0
6600	65.000	63.444	-0.110	0.0	0.0	0.0
6624	65.000	63.444	-0.110	0.0	0.0	0.0
6648	65.000	63.444	-0.110	0.0	0.0	0.0
6672	65.000	63.444	-0.110	0.0	0.0	0.0
6696	65.000	63.444	-0.110	0.0	0.0	0.0
6720	65.000	63.444	-0.110	0.0	0.0	0.0
6744	65.000	63.444	-0.110	0.0	0.0	0.0
6768	65.000	63.444	-0.110	0.0	0.0	0.0
6792	65.000	63.444	-0.110	0.0	0.0	0.0
6816	65.000	63.444	-0.110	0.0	0.0	0.0
6840	65.000	63.444	-0.110	0.0	0.0	0.0
6864	65.000	63.444	-0.110	0.0	0.0	0.0
6888	65.000	63.444	-0.110	0.0	0.0	0.0
6912	65.000	63.444	-0.110	0.0	0.0	0.0
6936	65.000	63.444	-0.110	0.0	0.0	0.0
6960	65.000	63.444	-0.110	0.0	0.0	0.0
6984	65.000	63.444	-0.110	0.0	0.0	0.0
7008	65.000	63.444	-0.110	0.0	0.0	0.0
7032	65.000	63.444	-0.110	0.0	0.0	0.0
7056	65.000	63.444	-0.110	0.0	0.0	0.0
7080	65.000	63.444	-0.110	0.0	0.0	0.0
7104	65.000	63.444	-0.110	0.0	0.0	0.0
7128	65.000	63.444	-0.110	0.0	0.0	0.0
7152	65.000	63.444	-0.110	0.0	0.0	0.0
7176	65.000	63.444	-0.110	0.0	0.0	0.0
7200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.444	63.250	-0.110	0.0	0.0	0.0
72	63.444	63.250	-0.110	0.0	0.0	0.0
96	63.444	63.250	-0.110	0.0	0.0	0.0
120	63.444	63.250	-0.110	0.0	0.0	0.0
144	63.444	63.250	-0.110	0.0	0.0	0.0
168	63.444	63.251	-0.110	0.0	0.0	0.0
192	63.445	63.251	-0.110	0.0	0.0	0.0
216	63.445	63.251	-0.110	0.0	0.0	0.0
240	63.445	63.251	-0.110	0.0	0.0	0.0
264	63.445	63.252	-0.110	0.0	0.0	0.0
288	63.445	63.252	-0.110	0.0	0.0	0.0
312	63.446	63.253	-0.108	0.0	0.1	0.0
336	63.446	63.254	-0.108	0.0	0.1	0.0
360	63.446	63.255	-0.108	0.0	0.1	0.0
384	63.446	63.255	-0.108	0.0	0.1	0.0
408	63.446	63.256	-0.108	0.0	0.1	0.0
432	63.446	63.257	-0.108	0.0	0.1	0.0
456	63.447	63.259	-0.108	0.0	0.2	0.0
480	63.447	63.259	-0.107	0.0	0.1	0.0
504	63.447	63.260	-0.107	0.0	0.1	0.0
528	63.447	63.261	-0.107	0.0	0.1	0.0
552	63.447	63.261	-0.107	0.0	0.1	0.0
576	63.447	63.262	-0.107	0.0	0.2	0.0
600	63.447	63.262	-0.107	0.0	0.2	0.0
624	63.447	63.263	-0.107	0.0	0.2	0.0
648	63.447	63.263	-0.107	0.0	0.2	0.0
672	63.447	63.263	-0.107	0.0	0.2	0.0
696	63.447	63.264	-0.107	0.0	0.2	0.0
720	63.447	63.264	-0.107	0.0	0.2	0.0
744	63.447	63.264	-0.107	0.0	0.2	0.0
768	63.447	63.264	-0.107	0.0	0.2	0.0
792	63.447	63.265	-0.107	0.0	0.2	0.0
816	63.447	63.265	-0.107	0.0	0.2	0.0
840	63.447	63.265	-0.107	0.0	0.2	0.0
864	63.447	63.265	-0.107	0.0	0.2	0.0
888	63.447	63.265	-0.107	0.0	0.2	0.0
912	63.447	63.265	-0.107	0.0	0.2	0.0
936	63.447	63.265	-0.107	0.0	0.2	0.0
960	63.447	63.265	-0.107	0.0	0.2	0.0
984	63.447	63.265	-0.107	0.0	0.2	0.0
1008	63.447	63.265	-0.107	0.0	0.2	0.0
1032	63.447	63.265	-0.107	0.0	0.2	0.0
1056	63.447	63.265	-0.107	0.0	0.2	0.0
1080	63.447	63.265	-0.107	0.0	0.2	0.0
1104	63.447	63.265	-0.107	0.0	0.2	0.0
1128	63.447	63.265	-0.107	0.0	0.2	0.0
1152	63.447	63.265	-0.107	0.0	0.2	0.0
1176	63.447	63.265	-0.107	0.0	0.2	0.0
1200	63.447	63.266	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.447	63.266	-0.107	0.0	0.2	0.0
1248	63.447	63.266	-0.107	0.0	0.2	0.0
1272	63.447	63.266	-0.107	0.0	0.2	0.0
1296	63.447	63.266	-0.107	0.0	0.2	0.0
1320	63.447	63.266	-0.107	0.0	0.2	0.0
1344	63.448	63.266	-0.107	0.0	0.2	0.0
1368	63.448	63.267	-0.107	0.0	0.2	0.0
1392	63.448	63.267	-0.106	0.0	0.2	0.0
1416	63.448	63.267	-0.106	0.0	0.2	0.0
1440	63.448	63.267	-0.106	0.0	0.2	0.1
1464	63.448	63.268	-0.106	0.0	0.2	0.1
1488	63.448	63.268	-0.106	0.0	0.2	0.1
1512	63.448	63.268	-0.106	0.0	0.2	0.1
1536	63.448	63.268	-0.106	0.0	0.2	0.1
1560	63.448	63.269	-0.106	0.0	0.2	0.1
1584	63.449	63.269	-0.105	0.0	0.3	0.1
1608	63.449	63.269	-0.105	0.0	0.3	0.1
1632	63.449	63.270	-0.105	0.0	0.3	0.1
1656	63.449	63.270	-0.105	0.0	0.3	0.1
1680	63.449	63.271	-0.105	0.0	0.3	0.1
1704	63.449	63.271	-0.105	0.0	0.3	0.1
1728	63.449	63.272	-0.105	0.0	0.3	0.1
1752	63.450	63.272	-0.104	0.0	0.3	0.1
1776	63.450	63.273	-0.104	0.0	0.3	0.1
1800	63.450	63.273	-0.104	0.0	0.3	0.1
1824	63.450	63.274	-0.104	0.0	0.4	0.1
1848	63.450	63.274	-0.104	0.0	0.4	0.1
1872	63.451	63.275	-0.103	0.0	0.4	0.1
1896	63.451	63.276	-0.103	0.0	0.4	0.1
1920	63.451	63.276	-0.103	0.0	0.4	0.1
1944	63.451	63.277	-0.103	0.0	0.4	0.1
1968	63.452	63.278	-0.103	0.0	0.4	0.1
1992	63.452	63.279	-0.102	0.0	0.4	0.1
2016	63.452	63.280	-0.102	0.0	0.4	0.1
2040	63.452	63.281	-0.102	0.0	0.4	0.1
2064	63.452	63.282	-0.102	0.0	0.3	0.1
2088	63.453	63.283	-0.101	0.0	0.3	0.1
2112	63.453	63.285	-0.101	0.0	0.3	0.1
2136	63.453	63.287	-0.101	0.0	0.3	0.1
2160	63.454	63.290	-0.100	0.0	0.3	0.1
2184	63.454	63.293	-0.100	0.0	0.3	0.1
2208	63.454	63.297	-0.100	0.0	0.3	0.1
2232	63.454	63.300	-0.100	0.0	0.3	0.1
2256	63.455	63.303	-0.100	0.0	0.3	0.1
2280	63.455	63.307	-0.099	0.0	0.3	0.1
2304	63.455	63.310	-0.099	0.0	0.3	0.1
2328	63.455	63.314	-0.099	0.0	0.3	0.2
2352	63.455	63.318	-0.099	0.0	0.3	0.2
2376	63.455	63.322	-0.099	0.0	0.3	0.2
2400	63.455	63.326	-0.099	0.0	0.3	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.455	63.330	-0.099	0.0	0.3	0.2
2448	63.456	63.334	-0.099	0.0	0.3	0.2
2472	63.456	63.338	-0.099	0.0	0.3	0.2
2496	63.456	63.343	-0.098	0.0	0.3	0.2
2520	63.456	63.348	-0.098	0.0	0.3	0.2
2544	63.456	63.352	-0.098	0.0	0.3	0.2
2568	63.456	63.357	-0.098	0.0	0.3	0.2
2592	63.456	63.363	-0.098	0.0	0.3	0.2
2616	63.456	63.371	-0.098	0.0	0.3	0.2
2640	63.456	63.377	-0.098	0.0	0.3	0.2
2664	63.456	63.384	-0.098	0.0	0.3	0.2
2688	63.456	63.389	-0.098	0.0	0.3	0.2
2712	63.456	63.395	-0.098	0.0	0.3	0.2
2736	63.456	63.400	-0.098	0.0	0.4	0.2
2760	63.456	63.405	-0.098	0.0	0.4	0.2
2784	63.456	63.410	-0.098	0.0	0.4	0.2
2808	63.456	63.415	-0.098	0.0	0.4	0.2
2832	63.456	63.419	-0.098	0.0	0.4	0.2
2856	63.456	63.423	-0.098	0.0	0.4	0.2
2880	63.456	63.428	-0.098	0.0	0.4	0.2
2904	63.456	63.433	-0.098	0.0	0.4	0.2
2928	63.456	63.438	-0.098	0.0	0.4	0.2
2952	63.456	63.443	-0.098	0.0	0.4	0.2
2976	63.457	63.449	-0.097	0.0	0.3	0.2
3000	63.459	63.454	-0.095	0.0	0.3	0.2
3024	63.462	63.459	-0.092	0.0	0.2	0.2
3048	63.466	63.464	-0.089	0.0	0.2	0.2
3072	63.470	63.469	-0.084	0.0	0.1	0.2
3096	63.475	63.474	-0.079	0.0	0.1	0.2
3120	63.480	63.479	-0.075	0.0	0.1	0.2
3144	63.484	63.484	-0.070	0.0	0.1	0.2
3168	63.489	63.488	-0.065	0.0	0.1	0.2
3192	63.493	63.493	-0.061	0.0	0.0	0.2
3216	63.498	63.497	-0.057	0.0	0.0	0.2
3240	63.502	63.501	-0.052	0.0	0.0	0.2
3264	63.506	63.505	-0.048	0.0	0.0	0.2
3288	63.510	63.509	-0.044	0.0	0.0	0.2
3312	63.513	63.513	-0.041	0.0	0.0	0.2
3336	63.517	63.516	-0.037	0.0	0.0	0.2
3360	63.520	63.520	-0.034	0.0	0.0	0.2
3384	63.524	63.523	-0.030	0.0	0.0	0.2
3408	63.527	63.526	-0.027	0.0	0.0	0.2
3432	63.530	63.529	-0.024	0.0	0.0	0.2
3456	63.533	63.532	-0.021	0.0	0.0	0.2
3480	63.536	63.535	-0.019	0.0	0.0	0.1
3504	63.538	63.538	-0.016	0.0	0.0	0.1
3528	63.541	63.540	-0.013	0.0	0.0	0.1
3552	63.543	63.542	-0.011	0.0	0.0	0.1
3576	63.545	63.544	-0.009	0.0	0.0	0.1
3600	63.547	63.546	-0.007	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.549	63.548	-0.005	0.0	0.0	0.1
3648	63.550	63.550	-0.004	0.0	0.0	0.1
3672	63.552	63.552	-0.002	0.0	0.0	0.1
3696	63.554	63.553	-0.001	0.0	0.0	0.1
3720	63.555	63.555	0.001	0.0	0.0	0.1
3744	63.556	63.556	0.002	0.0	0.0	0.1
3768	63.557	63.557	0.003	0.0	0.0	0.1
3792	63.558	63.558	0.004	0.0	0.0	0.1
3816	63.559	63.559	0.005	0.0	0.0	0.1
3840	63.560	63.559	0.005	0.0	0.0	0.1
3864	63.560	63.560	0.006	0.0	0.0	0.1
3888	63.561	63.560	0.006	0.0	0.0	0.1
3912	63.561	63.561	0.007	0.0	0.0	0.1
3936	63.561	63.561	0.007	0.0	0.0	0.1
3960	63.561	63.561	0.007	0.0	0.0	0.1
3984	63.561	63.561	0.007	0.0	0.0	0.1
4008	63.561	63.561	0.007	0.0	0.0	0.1
4032	63.561	63.560	0.006	0.0	0.0	0.1
4056	63.560	63.560	0.006	0.0	0.0	0.1
4080	63.560	63.559	0.006	0.0	0.0	0.1
4104	63.559	63.559	0.005	0.0	0.0	0.1
4128	63.558	63.558	0.004	0.0	0.0	0.1
4152	63.558	63.557	0.004	0.0	0.0	0.1
4176	63.557	63.557	0.003	0.0	0.0	0.1
4200	63.556	63.556	0.002	0.0	0.0	0.1
4224	63.555	63.555	0.001	0.0	0.0	0.1
4248	63.554	63.554	0.000	0.0	0.0	0.1
4272	63.553	63.553	-0.001	0.0	0.0	0.1
4296	63.551	63.551	-0.003	0.0	0.0	0.1
4320	63.550	63.550	-0.004	0.0	0.0	0.1
4344	63.549	63.549	-0.005	0.0	0.0	0.1
4368	63.547	63.547	-0.007	0.0	0.0	0.1
4392	63.546	63.546	-0.008	0.0	0.0	0.0
4416	63.545	63.544	-0.010	0.0	0.0	0.0
4440	63.543	63.543	-0.011	0.0	0.0	0.0
4464	63.541	63.541	-0.013	0.0	0.0	0.0
4488	63.540	63.540	-0.014	0.0	0.0	0.0
4512	63.538	63.538	-0.016	0.0	0.0	0.0
4536	63.536	63.536	-0.018	0.0	0.0	0.0
4560	63.535	63.535	-0.019	0.0	0.0	0.0
4584	63.533	63.533	-0.021	0.0	0.0	0.0
4608	63.531	63.531	-0.023	0.0	0.0	0.0
4632	63.529	63.529	-0.025	0.0	0.0	0.0
4656	63.528	63.528	-0.026	0.0	0.0	0.0
4680	63.526	63.526	-0.028	0.0	0.0	0.0
4704	63.524	63.524	-0.030	0.0	0.0	0.0
4728	63.522	63.522	-0.032	0.0	0.0	0.0
4752	63.520	63.520	-0.034	0.0	0.0	0.0
4776	63.518	63.518	-0.036	0.0	0.0	0.0
4800	63.517	63.516	-0.038	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.515	63.515	-0.039	0.0	0.0	0.0
4848	63.513	63.513	-0.041	0.0	0.0	0.0
4872	63.511	63.511	-0.043	0.0	0.0	0.0
4896	63.509	63.509	-0.045	0.0	0.0	0.0
4920	63.507	63.507	-0.047	0.0	0.0	0.0
4944	63.506	63.505	-0.049	0.0	0.0	0.0
4968	63.504	63.504	-0.050	0.0	0.0	0.0
4992	63.502	63.502	-0.052	0.0	0.0	0.0
5016	63.499	63.500	-0.055	0.0	0.0	0.0
5040	63.498	63.498	-0.056	0.0	0.0	0.0
5064	63.496	63.496	-0.058	0.0	0.0	0.0
5088	63.494	63.494	-0.060	0.0	0.0	0.0
5112	63.493	63.492	-0.062	0.0	0.0	0.0
5136	63.491	63.491	-0.063	0.0	0.0	0.0
5160	63.489	63.489	-0.065	0.0	0.0	0.0
5184	63.487	63.487	-0.067	0.0	0.0	0.0
5208	63.485	63.485	-0.069	0.0	0.0	0.0
5232	63.483	63.483	-0.071	0.0	0.0	0.0
5256	63.481	63.481	-0.073	0.0	0.0	0.0
5280	63.480	63.479	-0.075	0.0	0.0	0.0
5304	63.478	63.478	-0.076	0.0	0.0	0.0
5328	63.476	63.476	-0.078	0.0	0.0	0.0
5352	63.474	63.474	-0.080	0.0	0.0	0.0
5376	63.472	63.472	-0.082	0.0	0.0	0.0
5400	63.470	63.470	-0.084	0.0	0.0	0.0
5424	63.468	63.468	-0.086	0.0	0.0	0.0
5448	63.466	63.466	-0.088	0.0	0.0	0.0
5472	63.464	63.464	-0.090	0.0	0.0	0.0
5496	63.462	63.462	-0.092	0.0	0.0	0.0
5520	63.460	63.459	-0.094	0.0	0.0	0.0
5544	63.458	63.457	-0.096	0.0	0.0	0.0
5568	63.455	63.455	-0.099	0.0	0.0	0.0
5592	63.453	63.452	-0.101	0.0	0.1	0.0
5616	63.451	63.450	-0.103	0.0	0.1	0.0
5640	63.447	63.447	-0.107	0.0	0.1	0.0
5664	63.446	63.445	-0.108	0.0	0.1	0.0
5688	63.445	63.442	-0.109	0.0	0.0	0.0
5712	63.445	63.439	-0.109	0.0	0.0	0.0
5736	63.444	63.436	-0.110	0.0	0.0	0.0
5760	63.444	63.432	-0.110	0.0	0.0	0.0
5784	63.444	63.429	-0.110	0.0	0.0	0.0
5808	63.444	63.426	-0.110	0.0	0.0	0.0
5832	63.444	63.422	-0.110	0.0	0.0	0.0
5856	63.444	63.419	-0.110	0.0	0.0	0.0
5880	63.444	63.416	-0.110	0.0	0.0	0.0
5904	63.444	63.413	-0.110	0.0	0.0	0.0
5928	63.444	63.409	-0.110	0.0	0.0	0.0
5952	63.444	63.406	-0.110	0.0	0.0	0.0
5976	63.444	63.403	-0.110	0.0	0.0	0.0
6000	63.444	63.400	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.444	63.396	-0.110	0.0	0.0	0.0
6048	63.444	63.393	-0.110	0.0	0.0	0.0
6072	63.444	63.390	-0.110	0.0	0.0	0.0
6096	63.444	63.387	-0.110	0.0	0.0	0.0
6120	63.444	63.384	-0.110	0.0	0.0	0.0
6144	63.444	63.381	-0.110	0.0	0.0	0.0
6168	63.444	63.378	-0.110	0.0	0.0	0.0
6192	63.444	63.375	-0.110	0.0	0.0	0.0
6216	63.444	63.373	-0.110	0.0	0.0	0.0
6240	63.444	63.370	-0.110	0.0	0.0	0.0
6264	63.444	63.368	-0.110	0.0	0.0	0.0
6288	63.444	63.366	-0.110	0.0	0.0	0.0
6312	63.444	63.364	-0.110	0.0	0.0	0.0
6336	63.444	63.361	-0.110	0.0	0.0	0.0
6360	63.444	63.358	-0.110	0.0	0.0	0.0
6384	63.444	63.353	-0.110	0.0	0.0	0.0
6408	63.444	63.350	-0.110	0.0	0.0	0.0
6432	63.444	63.346	-0.110	0.0	0.0	0.0
6456	63.444	63.343	-0.110	0.0	0.0	0.0
6480	63.444	63.340	-0.110	0.0	0.0	0.0
6504	63.444	63.337	-0.110	0.0	0.0	0.0
6528	63.444	63.334	-0.110	0.0	0.0	0.0
6552	63.444	63.331	-0.110	0.0	0.0	0.0
6576	63.444	63.328	-0.110	0.0	0.0	0.0
6600	63.444	63.324	-0.110	0.0	0.0	0.0
6624	63.444	63.321	-0.110	0.0	0.0	0.0
6648	63.444	63.318	-0.110	0.0	0.0	0.0
6672	63.444	63.315	-0.110	0.0	0.0	0.0
6696	63.444	63.312	-0.110	0.0	0.0	0.0
6720	63.444	63.309	-0.110	0.0	0.0	0.0
6744	63.444	63.306	-0.110	0.0	0.0	0.0
6768	63.444	63.303	-0.110	0.0	0.0	0.0
6792	63.444	63.299	-0.110	0.0	0.0	0.0
6816	63.444	63.297	-0.110	0.0	0.0	0.0
6840	63.444	63.293	-0.110	0.0	0.0	0.0
6864	63.444	63.289	-0.110	0.0	0.0	0.0
6888	63.444	63.285	-0.110	0.0	0.0	0.0
6912	63.444	63.283	-0.110	0.0	0.0	0.0
6936	63.444	63.280	-0.110	0.0	0.0	0.0
6960	63.444	63.276	-0.110	0.0	0.0	0.0
6984	63.444	63.273	-0.110	0.0	0.0	0.0
7008	63.444	63.271	-0.110	0.0	0.0	0.0
7032	63.444	63.268	-0.110	0.0	0.0	0.0
7056	63.444	63.266	-0.110	0.0	0.0	0.0
7080	63.444	63.264	-0.110	0.0	0.0	0.0
7104	63.444	63.263	-0.110	0.0	0.0	0.0
7128	63.444	63.261	-0.110	0.0	0.0	0.0
7152	63.444	63.260	-0.110	0.0	0.0	0.0
7176	63.444	63.259	-0.110	0.0	0.0	0.0
7200	63.444	63.259	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.258	-0.110	0.0	0.0	0.0
7248	63.444	63.258	-0.110	0.0	0.0	0.0
7272	63.444	63.257	-0.110	0.0	0.0	0.0
7296	63.444	63.257	-0.110	0.0	0.0	0.0
7320	63.444	63.256	-0.110	0.0	0.0	0.0
7344	63.444	63.256	-0.110	0.0	0.0	0.0
7368	63.444	63.256	-0.110	0.0	0.0	0.0
7392	63.444	63.255	-0.110	0.0	0.0	0.0
7416	63.444	63.255	-0.110	0.0	0.0	0.0
7440	63.444	63.255	-0.110	0.0	0.0	0.0
7464	63.444	63.255	-0.110	0.0	0.0	0.0
7488	63.444	63.254	-0.110	0.0	0.0	0.0
7512	63.444	63.254	-0.110	0.0	0.0	0.0
7536	63.444	63.254	-0.110	0.0	0.0	0.0
7560	63.444	63.254	-0.110	0.0	0.0	0.0
7584	63.444	63.254	-0.110	0.0	0.0	0.0
7608	63.444	63.254	-0.110	0.0	0.0	0.0
7632	63.444	63.254	-0.110	0.0	0.0	0.0
7656	63.444	63.253	-0.110	0.0	0.0	0.0
7680	63.444	63.253	-0.110	0.0	0.0	0.0
7704	63.444	63.253	-0.110	0.0	0.0	0.0
7728	63.444	63.253	-0.110	0.0	0.0	0.0
7752	63.444	63.253	-0.110	0.0	0.0	0.0
7776	63.444	63.253	-0.110	0.0	0.0	0.0
7800	63.444	63.253	-0.110	0.0	0.0	0.0
7824	63.444	63.253	-0.110	0.0	0.0	0.0
7848	63.444	63.253	-0.110	0.0	0.0	0.0
7872	63.444	63.253	-0.110	0.0	0.0	0.0
7896	63.444	63.253	-0.110	0.0	0.0	0.0
7920	63.444	63.253	-0.110	0.0	0.0	0.0
7944	63.444	63.252	-0.110	0.0	0.0	0.0
7968	63.444	63.252	-0.110	0.0	0.0	0.0
7992	63.444	63.252	-0.110	0.0	0.0	0.0
8016	63.444	63.252	-0.110	0.0	0.0	0.0
8040	63.444	63.252	-0.110	0.0	0.0	0.0
8064	63.444	63.252	-0.110	0.0	0.0	0.0
8088	63.444	63.252	-0.110	0.0	0.0	0.0
8112	63.444	63.252	-0.110	0.0	0.0	0.0
8136	63.444	63.252	-0.110	0.0	0.0	0.0
8160	63.444	63.252	-0.110	0.0	0.0	0.0
8184	63.444	63.252	-0.110	0.0	0.0	0.0
8208	63.444	63.252	-0.110	0.0	0.0	0.0
8232	63.444	63.252	-0.110	0.0	0.0	0.0
8256	63.444	63.252	-0.110	0.0	0.0	0.0
8280	63.444	63.252	-0.110	0.0	0.0	0.0
8304	63.444	63.252	-0.110	0.0	0.0	0.0
8328	63.444	63.252	-0.110	0.0	0.0	0.0
8352	63.444	63.252	-0.110	0.0	0.0	0.0
8376	63.444	63.252	-0.110	0.0	0.0	0.0
8400	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.252	-0.110	0.0	0.0	0.0
8448	63.444	63.252	-0.110	0.0	0.0	0.0
8472	63.444	63.252	-0.110	0.0	0.0	0.0
8496	63.444	63.252	-0.110	0.0	0.0	0.0
8520	63.444	63.252	-0.110	0.0	0.0	0.0
8544	63.444	63.251	-0.110	0.0	0.0	0.0
8568	63.444	63.251	-0.110	0.0	0.0	0.0
8592	63.444	63.251	-0.110	0.0	0.0	0.0
8616	63.444	63.251	-0.110	0.0	0.0	0.0
8640	63.444	63.251	-0.110	0.0	0.0	0.0
8664	63.444	63.251	-0.110	0.0	0.0	0.0
8688	63.444	63.251	-0.110	0.0	0.0	0.0
8712	63.444	63.251	-0.110	0.0	0.0	0.0
8736	63.444	63.251	-0.110	0.0	0.0	0.0
8760	63.444	63.251	-0.110	0.0	0.0	0.0
8784	63.444	63.251	-0.110	0.0	0.0	0.0
8808	63.444	63.251	-0.110	0.0	0.0	0.0
8832	63.444	63.251	-0.110	0.0	0.0	0.0
8856	63.444	63.251	-0.110	0.0	0.0	0.0
8880	63.444	63.251	-0.110	0.0	0.0	0.0
8904	63.444	63.251	-0.110	0.0	0.0	0.0
8928	63.444	63.251	-0.110	0.0	0.0	0.0
8952	63.444	63.251	-0.110	0.0	0.0	0.0
8976	63.444	63.251	-0.110	0.0	0.0	0.0
9000	63.444	63.251	-0.110	0.0	0.0	0.0
9024	63.444	63.251	-0.110	0.0	0.0	0.0
9048	63.444	63.251	-0.110	0.0	0.0	0.0
9072	63.444	63.251	-0.110	0.0	0.0	0.0
9096	63.444	63.251	-0.110	0.0	0.0	0.0
9120	63.444	63.251	-0.110	0.0	0.0	0.0
9144	63.444	63.251	-0.110	0.0	0.0	0.0
9168	63.444	63.251	-0.110	0.0	0.0	0.0
9192	63.444	63.251	-0.110	0.0	0.0	0.0
9216	63.444	63.251	-0.110	0.0	0.0	0.0
9240	63.444	63.251	-0.110	0.0	0.0	0.0
9264	63.444	63.251	-0.110	0.0	0.0	0.0
9288	63.444	63.251	-0.110	0.0	0.0	0.0
9312	63.444	63.251	-0.110	0.0	0.0	0.0
9336	63.444	63.251	-0.110	0.0	0.0	0.0
9360	63.444	63.251	-0.110	0.0	0.0	0.0
9384	63.444	63.251	-0.110	0.0	0.0	0.0
9408	63.444	63.251	-0.110	0.0	0.0	0.0
9432	63.444	63.251	-0.110	0.0	0.0	0.0
9456	63.444	63.251	-0.110	0.0	0.0	0.0
9480	63.444	63.251	-0.110	0.0	0.0	0.0
9504	63.444	63.251	-0.110	0.0	0.0	0.0
9528	63.444	63.251	-0.110	0.0	0.0	0.0
9552	63.444	63.251	-0.110	0.0	0.0	0.0
9576	63.444	63.251	-0.110	0.0	0.0	0.0
9600	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.251	-0.110	0.0	0.0	0.0
9648	63.444	63.251	-0.110	0.0	0.0	0.0
9672	63.444	63.251	-0.110	0.0	0.0	0.0
9696	63.444	63.251	-0.110	0.0	0.0	0.0
9720	63.444	63.251	-0.110	0.0	0.0	0.0
9744	63.444	63.251	-0.110	0.0	0.0	0.0
9768	63.444	63.251	-0.110	0.0	0.0	0.0
9792	63.444	63.251	-0.110	0.0	0.0	0.0
9816	63.444	63.251	-0.110	0.0	0.0	0.0
9840	63.444	63.251	-0.110	0.0	0.0	0.0
9864	63.444	63.251	-0.110	0.0	0.0	0.0
9888	63.444	63.251	-0.110	0.0	0.0	0.0
9912	63.444	63.251	-0.110	0.0	0.0	0.0
9936	63.444	63.251	-0.110	0.0	0.0	0.0
9960	63.444	63.251	-0.110	0.0	0.0	0.0
9984	63.444	63.251	-0.110	0.0	0.0	0.0
10008	63.444	63.251	-0.110	0.0	0.0	0.0
10032	63.444	63.251	-0.110	0.0	0.0	0.0
10056	63.444	63.251	-0.110	0.0	0.0	0.0
10080	63.444	63.251	-0.110	0.0	0.0	0.0
10104	63.444	63.251	-0.110	0.0	0.0	0.0
10128	63.444	63.251	-0.110	0.0	0.0	0.0
10152	63.444	63.251	-0.110	0.0	0.0	0.0
10176	63.444	63.251	-0.110	0.0	0.0	0.0
10200	63.444	63.251	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.250	63.100	-0.110	0.0	0.0	0.0
96	63.250	63.100	-0.110	0.0	0.0	0.0
120	63.250	63.100	-0.110	0.0	0.0	0.0
144	63.250	63.100	-0.110	0.0	0.0	0.0
168	63.251	63.100	-0.109	0.0	0.0	0.0
192	63.251	63.100	-0.109	0.0	0.0	0.0
216	63.251	63.100	-0.109	0.0	0.0	0.0
240	63.251	63.100	-0.109	0.0	0.0	0.0
264	63.252	63.100	-0.108	0.0	0.0	0.0
288	63.252	63.100	-0.108	0.0	0.0	0.0
312	63.253	63.101	-0.107	0.0	0.0	0.0
336	63.254	63.101	-0.106	0.0	0.0	0.0
360	63.255	63.102	-0.105	0.0	0.0	0.0
384	63.255	63.102	-0.105	0.0	0.0	0.0
408	63.256	63.104	-0.104	0.0	0.0	0.0
432	63.257	63.105	-0.103	0.0	0.0	0.0
456	63.259	63.107	-0.101	0.0	0.0	0.0
480	63.259	63.109	-0.101	0.0	0.1	0.0
504	63.260	63.111	-0.100	0.0	0.1	0.0
528	63.261	63.113	-0.099	0.0	0.1	0.0
552	63.261	63.115	-0.099	0.0	0.1	0.0
576	63.262	63.117	-0.098	0.0	0.1	0.0
600	63.262	63.118	-0.098	0.0	0.1	0.0
624	63.263	63.119	-0.097	0.0	0.1	0.0
648	63.263	63.121	-0.097	0.0	0.1	0.0
672	63.263	63.122	-0.097	0.0	0.1	0.0
696	63.264	63.123	-0.096	0.0	0.1	0.0
720	63.264	63.124	-0.096	0.0	0.1	0.0
744	63.264	63.124	-0.096	0.0	0.1	0.0
768	63.264	63.125	-0.096	0.0	0.1	0.0
792	63.265	63.126	-0.095	0.0	0.1	0.0
816	63.265	63.126	-0.095	0.0	0.1	0.0
840	63.265	63.127	-0.095	0.0	0.1	0.0
864	63.265	63.127	-0.095	0.0	0.1	0.0
888	63.265	63.127	-0.095	0.0	0.1	0.0
912	63.265	63.128	-0.095	0.0	0.1	0.0
936	63.265	63.128	-0.095	0.0	0.1	0.0
960	63.265	63.128	-0.095	0.0	0.1	0.0
984	63.265	63.128	-0.095	0.0	0.2	0.0
1008	63.265	63.128	-0.095	0.0	0.2	0.0
1032	63.265	63.128	-0.095	0.0	0.2	0.0
1056	63.265	63.129	-0.095	0.0	0.2	0.0
1080	63.265	63.129	-0.095	0.0	0.2	0.0
1104	63.265	63.129	-0.095	0.0	0.2	0.0
1128	63.265	63.129	-0.095	0.0	0.2	0.0
1152	63.265	63.129	-0.095	0.0	0.2	0.0
1176	63.265	63.129	-0.095	0.0	0.2	0.0
1200	63.266	63.130	-0.094	0.0	0.2	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.266	63.130	-0.094	0.0	0.2	0.0
1248	63.266	63.130	-0.094	0.0	0.2	0.0
1272	63.266	63.131	-0.094	0.0	0.2	0.0
1296	63.266	63.131	-0.094	0.0	0.2	0.0
1320	63.266	63.131	-0.094	0.0	0.2	0.0
1344	63.266	63.132	-0.094	0.0	0.2	0.0
1368	63.267	63.132	-0.093	0.0	0.2	0.0
1392	63.267	63.133	-0.093	0.0	0.2	0.0
1416	63.267	63.134	-0.093	0.0	0.2	0.0
1440	63.267	63.134	-0.093	0.0	0.2	0.0
1464	63.268	63.135	-0.092	0.0	0.2	0.0
1488	63.268	63.136	-0.092	0.0	0.2	0.0
1512	63.268	63.137	-0.092	0.0	0.2	0.0
1536	63.268	63.138	-0.092	0.0	0.2	0.1
1560	63.269	63.139	-0.091	0.0	0.2	0.1
1584	63.269	63.140	-0.091	0.0	0.2	0.1
1608	63.269	63.141	-0.091	0.0	0.2	0.1
1632	63.270	63.142	-0.090	0.0	0.2	0.1
1656	63.270	63.143	-0.090	0.0	0.2	0.1
1680	63.271	63.145	-0.089	0.0	0.2	0.1
1704	63.271	63.146	-0.089	0.0	0.2	0.1
1728	63.272	63.148	-0.088	0.0	0.2	0.1
1752	63.272	63.149	-0.088	0.0	0.2	0.1
1776	63.273	63.151	-0.087	0.0	0.2	0.1
1800	63.273	63.153	-0.087	0.0	0.2	0.1
1824	63.274	63.157	-0.086	0.0	0.2	0.1
1848	63.274	63.161	-0.086	0.0	0.3	0.1
1872	63.275	63.166	-0.085	0.0	0.3	0.1
1896	63.276	63.172	-0.084	0.0	0.3	0.1
1920	63.276	63.179	-0.084	0.0	0.3	0.1
1944	63.277	63.186	-0.083	0.0	0.3	0.1
1968	63.278	63.194	-0.082	0.0	0.3	0.1
1992	63.279	63.202	-0.081	0.0	0.3	0.1
2016	63.280	63.212	-0.080	0.0	0.3	0.1
2040	63.281	63.221	-0.079	0.0	0.3	0.1
2064	63.282	63.233	-0.078	0.0	0.3	0.1
2088	63.283	63.244	-0.077	0.0	0.3	0.1
2112	63.285	63.250	-0.075	0.0	0.2	0.1
2136	63.287	63.252	-0.073	0.0	0.2	0.1
2160	63.290	63.250	-0.070	0.0	0.2	0.1
2184	63.293	63.250	-0.067	0.0	0.2	0.1
2208	63.297	63.251	-0.063	0.0	0.2	0.1
2232	63.300	63.249	-0.060	0.0	0.2	0.1
2256	63.303	63.250	-0.057	0.0	0.2	0.1
2280	63.307	63.250	-0.053	0.0	0.2	0.1
2304	63.310	63.251	-0.050	0.0	0.2	0.1
2328	63.314	63.252	-0.046	0.0	0.2	0.1
2352	63.318	63.251	-0.042	0.0	0.2	0.1
2376	63.322	63.252	-0.038	0.0	0.2	0.1
2400	63.326	63.254	-0.034	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.330	63.257	-0.030	0.0	0.3	0.1
2448	63.334	63.260	-0.026	0.0	0.3	0.1
2472	63.338	63.263	-0.022	0.0	0.3	0.1
2496	63.343	63.267	-0.017	0.0	0.3	0.1
2520	63.348	63.271	-0.012	0.0	0.3	0.1
2544	63.352	63.275	-0.008	0.0	0.3	0.1
2568	63.357	63.279	-0.003	0.0	0.3	0.1
2592	63.363	63.278	0.003	0.0	0.2	0.1
2616	63.371	63.263	0.011	0.0	0.2	0.0
2640	63.377	63.255	0.017	0.0	0.2	0.1
2664	63.384	63.251	0.024	0.0	0.2	0.1
2688	63.389	63.252	0.029	0.0	0.2	0.1
2712	63.395	63.256	0.035	0.0	0.3	0.1
2736	63.400	63.264	0.040	0.0	0.3	0.1
2760	63.405	63.274	0.045	0.0	0.3	0.1
2784	63.410	63.287	0.050	0.0	0.3	0.1
2808	63.415	63.303	0.055	0.0	0.3	0.1
2832	63.419	63.321	0.059	0.0	0.3	0.1
2856	63.423	63.342	0.063	0.0	0.3	0.1
2880	63.428	63.357	0.068	0.0	0.3	0.1
2904	63.433	63.368	0.073	0.0	0.3	0.1
2928	63.438	63.376	0.078	0.0	0.3	0.1
2952	63.443	63.382	0.083	0.0	0.3	0.1
2976	63.449	63.388	0.089	0.0	0.3	0.1
3000	63.454	63.393	0.094	0.0	0.3	0.1
3024	63.459	63.399	0.099	0.0	0.3	0.1
3048	63.464	63.404	0.104	0.0	0.2	0.1
3072	63.469	63.409	0.109	0.0	0.1	0.1
3096	63.474	63.414	0.114	0.0	0.1	0.1
3120	63.479	63.419	0.119	0.0	0.1	0.1
3144	63.484	63.423	0.124	0.0	0.0	0.1
3168	63.488	63.428	0.128	0.0	0.0	0.1
3192	63.493	63.432	0.133	0.0	0.0	0.1
3216	63.497	63.437	0.137	0.0	0.0	0.1
3240	63.501	63.441	0.141	0.0	0.0	0.1
3264	63.505	63.445	0.145	0.0	0.0	0.1
3288	63.509	63.449	0.149	0.0	0.0	0.1
3312	63.513	63.453	0.153	0.0	0.0	0.1
3336	63.516	63.456	0.156	0.0	0.0	0.1
3360	63.520	63.460	0.160	0.0	0.0	0.1
3384	63.523	63.463	0.163	0.0	0.0	0.1
3408	63.526	63.467	0.166	0.0	0.0	0.1
3432	63.529	63.470	0.169	0.0	0.0	0.1
3456	63.532	63.473	0.172	0.0	0.0	0.1
3480	63.535	63.476	0.175	0.0	0.0	0.1
3504	63.538	63.478	0.178	0.0	0.0	0.1
3528	63.540	63.481	0.180	0.0	0.0	0.1
3552	63.542	63.483	0.182	0.0	0.0	0.1
3576	63.544	63.485	0.184	0.0	0.0	0.1
3600	63.546	63.488	0.186	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.548	63.490	0.188	0.0	0.0	0.1
3648	63.550	63.492	0.190	0.0	0.0	0.1
3672	63.552	63.493	0.192	0.0	0.0	0.1
3696	63.553	63.495	0.193	0.0	0.0	0.1
3720	63.555	63.496	0.195	0.0	0.0	0.1
3744	63.556	63.498	0.196	0.0	0.0	0.1
3768	63.557	63.499	0.197	0.0	0.0	0.1
3792	63.558	63.500	0.198	0.0	0.0	0.1
3816	63.559	63.501	0.199	0.0	0.0	0.1
3840	63.559	63.502	0.199	0.0	0.0	0.1
3864	63.560	63.503	0.200	0.0	0.0	0.1
3888	63.560	63.503	0.200	0.0	0.0	0.1
3912	63.561	63.504	0.201	0.0	0.0	0.1
3936	63.561	63.504	0.201	0.0	0.0	0.1
3960	63.561	63.504	0.201	0.0	0.0	0.1
3984	63.561	63.504	0.201	0.0	0.0	0.1
4008	63.561	63.505	0.201	0.0	0.0	0.1
4032	63.560	63.504	0.200	0.0	0.0	0.1
4056	63.560	63.504	0.200	0.0	0.0	0.1
4080	63.559	63.504	0.199	0.0	0.0	0.1
4104	63.559	63.503	0.199	0.0	0.0	0.1
4128	63.558	63.503	0.198	0.0	0.0	0.1
4152	63.557	63.502	0.197	0.0	0.0	0.1
4176	63.557	63.502	0.197	0.0	0.0	0.1
4200	63.556	63.501	0.196	0.0	0.0	0.1
4224	63.555	63.500	0.195	0.0	0.0	0.1
4248	63.554	63.499	0.194	0.0	0.0	0.1
4272	63.553	63.498	0.193	0.0	0.0	0.1
4296	63.551	63.497	0.191	0.0	0.0	0.1
4320	63.550	63.496	0.190	0.0	0.0	0.1
4344	63.549	63.495	0.189	0.0	0.0	0.1
4368	63.547	63.494	0.187	0.0	0.0	0.1
4392	63.546	63.492	0.186	0.0	0.0	0.1
4416	63.544	63.491	0.184	0.0	0.0	0.1
4440	63.543	63.489	0.183	0.0	0.0	0.1
4464	63.541	63.488	0.181	0.0	0.0	0.1
4488	63.540	63.486	0.180	0.0	0.0	0.1
4512	63.538	63.485	0.178	0.0	0.0	0.1
4536	63.536	63.483	0.176	0.0	0.0	0.1
4560	63.535	63.482	0.175	0.0	0.0	0.1
4584	63.533	63.480	0.173	0.0	0.0	0.1
4608	63.531	63.478	0.171	0.0	0.0	0.1
4632	63.529	63.477	0.169	0.0	0.0	0.1
4656	63.528	63.475	0.168	0.0	0.0	0.1
4680	63.526	63.473	0.166	0.0	0.0	0.1
4704	63.524	63.472	0.164	0.0	0.0	0.1
4728	63.522	63.470	0.162	0.0	0.0	0.1
4752	63.520	63.468	0.160	0.0	0.0	0.1
4776	63.518	63.466	0.158	0.0	0.0	0.1
4800	63.516	63.464	0.156	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.515	63.463	0.155	0.0	0.0	0.1
4848	63.513	63.461	0.153	0.0	0.0	0.1
4872	63.511	63.459	0.151	0.0	0.0	0.1
4896	63.509	63.457	0.149	0.0	0.0	0.1
4920	63.507	63.456	0.147	0.0	0.0	0.1
4944	63.505	63.454	0.145	0.0	0.0	0.1
4968	63.504	63.452	0.144	0.0	0.0	0.1
4992	63.502	63.450	0.142	0.0	0.0	0.1
5016	63.500	63.448	0.140	0.0	0.0	0.1
5040	63.498	63.446	0.138	0.0	0.0	0.1
5064	63.496	63.445	0.136	0.0	0.0	0.1
5088	63.494	63.443	0.134	0.0	0.0	0.1
5112	63.492	63.441	0.132	0.0	0.0	0.1
5136	63.491	63.439	0.131	0.0	0.0	0.1
5160	63.489	63.438	0.129	0.0	0.0	0.1
5184	63.487	63.436	0.127	0.0	0.0	0.1
5208	63.485	63.434	0.125	0.0	0.0	0.1
5232	63.483	63.432	0.123	0.0	0.0	0.1
5256	63.481	63.431	0.121	0.0	0.0	0.1
5280	63.479	63.429	0.119	0.0	0.0	0.1
5304	63.478	63.427	0.118	0.0	0.0	0.1
5328	63.476	63.425	0.116	0.0	0.0	0.1
5352	63.474	63.423	0.114	0.0	0.0	0.1
5376	63.472	63.421	0.112	0.0	0.0	0.1
5400	63.470	63.420	0.110	0.0	0.0	0.1
5424	63.468	63.418	0.108	0.0	0.0	0.1
5448	63.466	63.416	0.106	0.0	0.0	0.1
5472	63.464	63.414	0.104	0.0	0.0	0.1
5496	63.462	63.412	0.102	0.0	0.1	0.1
5520	63.459	63.410	0.099	0.0	0.1	0.1
5544	63.457	63.408	0.097	0.0	0.1	0.1
5568	63.455	63.406	0.095	0.0	0.1	0.1
5592	63.452	63.403	0.092	0.0	0.1	0.1
5616	63.450	63.401	0.090	0.0	0.1	0.1
5640	63.447	63.399	0.087	0.0	0.2	0.1
5664	63.445	63.396	0.085	0.0	0.2	0.1
5688	63.442	63.394	0.082	0.0	0.2	0.1
5712	63.439	63.391	0.079	0.0	0.2	0.1
5736	63.436	63.388	0.076	0.0	0.2	0.1
5760	63.432	63.385	0.072	0.0	0.2	0.1
5784	63.429	63.382	0.069	0.0	0.2	0.1
5808	63.426	63.379	0.066	0.0	0.2	0.1
5832	63.422	63.376	0.062	0.0	0.2	0.1
5856	63.419	63.373	0.059	0.0	0.2	0.1
5880	63.416	63.369	0.056	0.0	0.2	0.1
5904	63.413	63.366	0.053	0.0	0.2	0.1
5928	63.409	63.363	0.049	0.0	0.2	0.1
5952	63.406	63.360	0.046	0.0	0.2	0.1
5976	63.403	63.357	0.043	0.0	0.2	0.1
6000	63.400	63.354	0.040	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.396	63.350	0.036	0.0	0.2	0.1
6048	63.393	63.347	0.033	0.0	0.2	0.1
6072	63.390	63.343	0.030	0.0	0.2	0.1
6096	63.387	63.338	0.027	0.0	0.2	0.1
6120	63.384	63.333	0.024	0.0	0.2	0.1
6144	63.381	63.328	0.021	0.0	0.2	0.1
6168	63.378	63.323	0.018	0.0	0.2	0.1
6192	63.375	63.315	0.015	0.0	0.2	0.1
6216	63.373	63.306	0.013	0.0	0.2	0.1
6240	63.370	63.294	0.010	0.0	0.2	0.0
6264	63.368	63.282	0.008	0.0	0.2	0.0
6288	63.366	63.270	0.006	0.0	0.2	0.0
6312	63.364	63.257	0.004	0.0	0.2	0.0
6336	63.361	63.251	0.001	0.0	0.2	0.1
6360	63.358	63.259	-0.002	0.0	0.2	0.1
6384	63.353	63.270	-0.007	0.0	0.3	0.1
6408	63.350	63.275	-0.010	0.0	0.3	0.1
6432	63.346	63.276	-0.014	0.0	0.3	0.1
6456	63.343	63.277	-0.017	0.0	0.2	0.1
6480	63.340	63.275	-0.020	0.0	0.2	0.1
6504	63.337	63.274	-0.023	0.0	0.2	0.1
6528	63.334	63.271	-0.026	0.0	0.2	0.1
6552	63.331	63.269	-0.029	0.0	0.2	0.1
6576	63.328	63.266	-0.032	0.0	0.2	0.1
6600	63.324	63.263	-0.036	0.0	0.2	0.1
6624	63.321	63.261	-0.039	0.0	0.2	0.1
6648	63.318	63.258	-0.042	0.0	0.2	0.1
6672	63.315	63.255	-0.045	0.0	0.2	0.1
6696	63.312	63.253	-0.048	0.0	0.2	0.1
6720	63.309	63.250	-0.051	0.0	0.2	0.1
6744	63.306	63.251	-0.054	0.0	0.2	0.1
6768	63.303	63.250	-0.057	0.0	0.2	0.1
6792	63.299	63.251	-0.061	0.0	0.2	0.1
6816	63.297	63.250	-0.063	0.0	0.2	0.1
6840	63.293	63.250	-0.067	0.0	0.2	0.1
6864	63.289	63.249	-0.071	0.0	0.2	0.1
6888	63.285	63.250	-0.075	0.0	0.2	0.1
6912	63.283	63.251	-0.077	0.0	0.2	0.1
6936	63.280	63.249	-0.080	0.0	0.2	0.1
6960	63.276	63.250	-0.084	0.0	0.2	0.1
6984	63.273	63.249	-0.087	0.0	0.2	0.1
7008	63.271	63.248	-0.089	0.0	0.2	0.1
7032	63.268	63.243	-0.092	0.0	0.2	0.1
7056	63.266	63.233	-0.094	0.0	0.2	0.0
7080	63.264	63.218	-0.096	0.0	0.1	0.0
7104	63.263	63.202	-0.097	0.0	0.1	0.0
7128	63.261	63.186	-0.099	0.0	0.1	0.0
7152	63.260	63.168	-0.100	0.0	0.1	0.0
7176	63.259	63.149	-0.101	0.0	0.1	0.0
7200	63.259	63.132	-0.101	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.258	63.123	-0.102	0.0	0.1	0.0
7248	63.258	63.117	-0.102	0.0	0.0	0.0
7272	63.257	63.113	-0.103	0.0	0.0	0.0
7296	63.257	63.111	-0.103	0.0	0.0	0.0
7320	63.256	63.109	-0.104	0.0	0.0	0.0
7344	63.256	63.108	-0.104	0.0	0.0	0.0
7368	63.256	63.107	-0.104	0.0	0.0	0.0
7392	63.255	63.106	-0.105	0.0	0.0	0.0
7416	63.255	63.105	-0.105	0.0	0.0	0.0
7440	63.255	63.105	-0.105	0.0	0.0	0.0
7464	63.255	63.104	-0.105	0.0	0.0	0.0
7488	63.254	63.104	-0.106	0.0	0.0	0.0
7512	63.254	63.103	-0.106	0.0	0.0	0.0
7536	63.254	63.103	-0.106	0.0	0.0	0.0
7560	63.254	63.103	-0.106	0.0	0.0	0.0
7584	63.254	63.103	-0.106	0.0	0.0	0.0
7608	63.254	63.102	-0.106	0.0	0.0	0.0
7632	63.254	63.102	-0.106	0.0	0.0	0.0
7656	63.253	63.102	-0.107	0.0	0.0	0.0
7680	63.253	63.102	-0.107	0.0	0.0	0.0
7704	63.253	63.102	-0.107	0.0	0.0	0.0
7728	63.253	63.102	-0.107	0.0	0.0	0.0
7752	63.253	63.102	-0.107	0.0	0.0	0.0
7776	63.253	63.102	-0.107	0.0	0.0	0.0
7800	63.253	63.101	-0.107	0.0	0.0	0.0
7824	63.253	63.101	-0.107	0.0	0.0	0.0
7848	63.253	63.101	-0.107	0.0	0.0	0.0
7872	63.253	63.101	-0.107	0.0	0.0	0.0
7896	63.253	63.101	-0.107	0.0	0.0	0.0
7920	63.253	63.101	-0.107	0.0	0.0	0.0
7944	63.252	63.101	-0.108	0.0	0.0	0.0
7968	63.252	63.101	-0.108	0.0	0.0	0.0
7992	63.252	63.101	-0.108	0.0	0.0	0.0
8016	63.252	63.101	-0.108	0.0	0.0	0.0
8040	63.252	63.101	-0.108	0.0	0.0	0.0
8064	63.252	63.101	-0.108	0.0	0.0	0.0
8088	63.252	63.101	-0.108	0.0	0.0	0.0
8112	63.252	63.101	-0.108	0.0	0.0	0.0
8136	63.252	63.101	-0.108	0.0	0.0	0.0
8160	63.252	63.101	-0.108	0.0	0.0	0.0
8184	63.252	63.101	-0.108	0.0	0.0	0.0
8208	63.252	63.101	-0.108	0.0	0.0	0.0
8232	63.252	63.101	-0.108	0.0	0.0	0.0
8256	63.252	63.101	-0.108	0.0	0.0	0.0
8280	63.252	63.101	-0.108	0.0	0.0	0.0
8304	63.252	63.101	-0.108	0.0	0.0	0.0
8328	63.252	63.101	-0.108	0.0	0.0	0.0
8352	63.252	63.101	-0.108	0.0	0.0	0.0
8376	63.252	63.101	-0.108	0.0	0.0	0.0
8400	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.252	63.101	-0.108	0.0	0.0	0.0
8448	63.252	63.101	-0.108	0.0	0.0	0.0
8472	63.252	63.101	-0.108	0.0	0.0	0.0
8496	63.252	63.100	-0.108	0.0	0.0	0.0
8520	63.252	63.100	-0.108	0.0	0.0	0.0
8544	63.251	63.100	-0.109	0.0	0.0	0.0
8568	63.251	63.100	-0.109	0.0	0.0	0.0
8592	63.251	63.100	-0.109	0.0	0.0	0.0
8616	63.251	63.100	-0.109	0.0	0.0	0.0
8640	63.251	63.100	-0.109	0.0	0.0	0.0
8664	63.251	63.100	-0.109	0.0	0.0	0.0
8688	63.251	63.100	-0.109	0.0	0.0	0.0
8712	63.251	63.100	-0.109	0.0	0.0	0.0
8736	63.251	63.100	-0.109	0.0	0.0	0.0
8760	63.251	63.100	-0.109	0.0	0.0	0.0
8784	63.251	63.100	-0.109	0.0	0.0	0.0
8808	63.251	63.100	-0.109	0.0	0.0	0.0
8832	63.251	63.100	-0.109	0.0	0.0	0.0
8856	63.251	63.100	-0.109	0.0	0.0	0.0
8880	63.251	63.100	-0.109	0.0	0.0	0.0
8904	63.251	63.100	-0.109	0.0	0.0	0.0
8928	63.251	63.100	-0.109	0.0	0.0	0.0
8952	63.251	63.100	-0.109	0.0	0.0	0.0
8976	63.251	63.100	-0.109	0.0	0.0	0.0
9000	63.251	63.100	-0.109	0.0	0.0	0.0
9024	63.251	63.100	-0.109	0.0	0.0	0.0
9048	63.251	63.100	-0.109	0.0	0.0	0.0
9072	63.251	63.100	-0.109	0.0	0.0	0.0
9096	63.251	63.100	-0.109	0.0	0.0	0.0
9120	63.251	63.100	-0.109	0.0	0.0	0.0
9144	63.251	63.100	-0.109	0.0	0.0	0.0
9168	63.251	63.100	-0.109	0.0	0.0	0.0
9192	63.251	63.100	-0.109	0.0	0.0	0.0
9216	63.251	63.100	-0.109	0.0	0.0	0.0
9240	63.251	63.100	-0.109	0.0	0.0	0.0
9264	63.251	63.100	-0.109	0.0	0.0	0.0
9288	63.251	63.100	-0.109	0.0	0.0	0.0
9312	63.251	63.100	-0.109	0.0	0.0	0.0
9336	63.251	63.100	-0.109	0.0	0.0	0.0
9360	63.251	63.100	-0.109	0.0	0.0	0.0
9384	63.251	63.100	-0.109	0.0	0.0	0.0
9408	63.251	63.100	-0.109	0.0	0.0	0.0
9432	63.251	63.100	-0.109	0.0	0.0	0.0
9456	63.251	63.100	-0.109	0.0	0.0	0.0
9480	63.251	63.100	-0.109	0.0	0.0	0.0
9504	63.251	63.100	-0.109	0.0	0.0	0.0
9528	63.251	63.100	-0.109	0.0	0.0	0.0
9552	63.251	63.100	-0.109	0.0	0.0	0.0
9576	63.251	63.100	-0.109	0.0	0.0	0.0
9600	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.251	63.100	-0.109	0.0	0.0	0.0
9648	63.251	63.100	-0.109	0.0	0.0	0.0
9672	63.251	63.100	-0.109	0.0	0.0	0.0
9696	63.251	63.100	-0.109	0.0	0.0	0.0
9720	63.251	63.100	-0.109	0.0	0.0	0.0
9744	63.251	63.100	-0.109	0.0	0.0	0.0
9768	63.251	63.100	-0.109	0.0	0.0	0.0
9792	63.251	63.100	-0.109	0.0	0.0	0.0
9816	63.251	63.100	-0.109	0.0	0.0	0.0
9840	63.251	63.100	-0.109	0.0	0.0	0.0
9864	63.251	63.100	-0.109	0.0	0.0	0.0
9888	63.251	63.100	-0.109	0.0	0.0	0.0
9912	63.251	63.100	-0.109	0.0	0.0	0.0
9936	63.251	63.100	-0.109	0.0	0.0	0.0
9960	63.251	63.100	-0.109	0.0	0.0	0.0
9984	63.251	63.100	-0.109	0.0	0.0	0.0
10008	63.251	63.100	-0.109	0.0	0.0	0.0
10032	63.251	63.100	-0.109	0.0	0.0	0.0
10056	63.251	63.100	-0.109	0.0	0.0	0.0
10080	63.251	63.100	-0.109	0.0	0.0	0.0
10104	63.251	63.100	-0.109	0.0	0.0	0.0
10128	63.251	63.100	-0.109	0.0	0.0	0.0
10152	63.251	63.100	-0.109	0.0	0.0	0.0
10176	63.251	63.100	-0.109	0.0	0.0	0.0
10200	63.251	63.100	-0.109	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.100	63.096	-0.110	0.0	0.0	0.0
144	63.100	63.096	-0.110	0.0	0.0	0.0
168	63.100	63.096	-0.110	0.0	0.0	0.0
192	63.100	63.096	-0.110	0.0	0.0	0.0
216	63.100	63.096	-0.110	0.0	0.0	0.0
240	63.100	63.096	-0.110	0.0	0.0	0.0
264	63.100	63.096	-0.110	0.0	0.0	0.0
288	63.100	63.096	-0.110	0.0	0.0	0.0
312	63.101	63.096	-0.109	0.0	0.0	0.0
336	63.101	63.096	-0.109	0.0	0.0	0.0
360	63.102	63.096	-0.108	0.0	0.0	0.0
384	63.102	63.096	-0.108	0.0	0.0	0.0
408	63.104	63.096	-0.106	0.0	0.0	0.0
432	63.105	63.096	-0.105	0.0	0.0	0.0
456	63.107	63.096	-0.103	0.0	0.0	0.0
480	63.109	63.096	-0.101	0.0	0.0	0.0
504	63.111	63.096	-0.099	0.0	0.0	0.0
528	63.113	63.096	-0.097	0.0	0.0	0.0
552	63.115	63.096	-0.095	0.0	0.0	0.0
576	63.117	63.096	-0.093	0.0	0.0	0.0
600	63.118	63.096	-0.092	0.0	0.0	0.0
624	63.119	63.096	-0.091	0.0	0.0	0.0
648	63.121	63.096	-0.089	0.0	0.0	0.0
672	63.122	63.096	-0.088	0.0	0.0	0.0
696	63.123	63.096	-0.087	0.0	0.0	0.0
720	63.124	63.096	-0.086	0.0	0.0	0.0
744	63.124	63.096	-0.086	0.0	0.0	0.0
768	63.125	63.096	-0.085	0.0	0.0	0.0
792	63.126	63.096	-0.084	0.0	0.0	0.0
816	63.126	63.096	-0.084	0.0	0.0	0.0
840	63.127	63.096	-0.083	0.0	0.0	0.0
864	63.127	63.096	-0.083	0.0	0.0	0.0
888	63.127	63.096	-0.083	0.0	0.0	0.0
912	63.128	63.096	-0.082	0.0	0.0	0.0
936	63.128	63.096	-0.082	0.0	0.0	0.0
960	63.128	63.096	-0.082	0.0	0.0	0.0
984	63.128	63.096	-0.082	0.0	0.0	0.0
1008	63.128	63.096	-0.082	0.0	0.0	0.0
1032	63.128	63.096	-0.082	0.0	0.0	0.0
1056	63.129	63.096	-0.081	0.0	0.0	0.0
1080	63.129	63.096	-0.081	0.0	0.0	0.0
1104	63.129	63.096	-0.081	0.0	0.0	0.0
1128	63.129	63.096	-0.081	0.0	0.0	0.0
1152	63.129	63.096	-0.081	0.0	0.0	0.0
1176	63.129	63.096	-0.081	0.0	0.0	0.0
1200	63.130	63.096	-0.080	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.130	63.096	-0.080	0.0	0.0	0.0
1248	63.130	63.096	-0.080	0.0	0.0	0.0
1272	63.131	63.096	-0.079	0.0	0.0	0.0
1296	63.131	63.096	-0.079	0.0	0.0	0.0
1320	63.131	63.096	-0.079	0.0	0.0	0.0
1344	63.132	63.096	-0.078	0.0	0.0	0.0
1368	63.132	63.096	-0.078	0.0	0.0	0.0
1392	63.133	63.096	-0.077	0.0	0.0	0.0
1416	63.134	63.096	-0.076	0.0	0.0	0.0
1440	63.134	63.096	-0.076	0.0	0.0	0.0
1464	63.135	63.096	-0.075	0.0	0.0	0.0
1488	63.136	63.096	-0.074	0.0	0.0	0.0
1512	63.137	63.096	-0.073	0.0	0.0	0.0
1536	63.138	63.096	-0.072	0.0	0.0	0.0
1560	63.139	63.096	-0.071	0.0	0.0	0.0
1584	63.140	63.096	-0.070	0.0	0.0	0.0
1608	63.141	63.096	-0.069	0.0	0.0	0.0
1632	63.142	63.096	-0.068	0.0	0.0	0.0
1656	63.143	63.096	-0.067	0.0	0.0	0.0
1680	63.145	63.096	-0.065	0.0	0.0	0.0
1704	63.146	63.096	-0.064	0.0	0.0	0.0
1728	63.148	63.096	-0.062	0.0	0.0	0.0
1752	63.149	63.096	-0.061	0.0	0.0	0.0
1776	63.151	63.096	-0.059	0.0	0.0	0.0
1800	63.153	63.096	-0.057	0.0	0.0	0.0
1824	63.157	63.096	-0.053	0.0	0.0	0.0
1848	63.161	63.096	-0.049	0.0	0.0	0.0
1872	63.166	63.096	-0.044	0.0	0.0	0.0
1896	63.172	63.096	-0.038	0.0	0.0	0.0
1920	63.179	63.096	-0.031	0.0	0.0	0.0
1944	63.186	63.096	-0.024	0.0	0.0	0.0
1968	63.194	63.096	-0.016	0.0	0.0	0.0
1992	63.202	63.096	-0.008	0.0	0.0	0.0
2016	63.212	63.096	0.002	0.0	0.0	0.0
2040	63.221	63.096	0.011	0.0	0.0	0.0
2064	63.233	63.096	0.023	0.0	0.0	0.0
2088	63.244	63.096	0.034	0.0	0.0	0.0
2112	63.250	63.096	0.040	0.0	0.0	0.0
2136	63.252	63.096	0.042	0.0	0.0	0.0
2160	63.250	63.096	0.040	0.0	0.0	0.0
2184	63.250	63.096	0.040	0.0	0.0	0.0
2208	63.251	63.096	0.041	0.0	0.0	0.0
2232	63.249	63.096	0.039	0.0	0.0	0.0
2256	63.250	63.096	0.040	0.0	0.0	0.0
2280	63.250	63.096	0.040	0.0	0.0	0.0
2304	63.251	63.096	0.041	0.0	0.0	0.0
2328	63.252	63.096	0.042	0.0	0.0	0.0
2352	63.251	63.096	0.041	0.0	0.0	0.0
2376	63.252	63.096	0.042	0.0	0.0	0.0
2400	63.254	63.096	0.044	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.257	63.096	0.047	0.0	0.0	0.0
2448	63.260	63.096	0.050	0.0	0.0	0.0
2472	63.263	63.096	0.053	0.0	0.0	0.0
2496	63.267	63.096	0.057	0.0	0.0	0.0
2520	63.271	63.096	0.061	0.0	0.0	0.0
2544	63.275	63.096	0.065	0.0	0.0	0.0
2568	63.279	63.096	0.069	0.0	0.0	0.0
2592	63.278	63.096	0.068	0.0	0.0	0.0
2616	63.263	63.096	0.053	0.0	0.0	0.0
2640	63.255	63.096	0.045	0.0	0.0	0.0
2664	63.251	63.096	0.041	0.0	0.0	0.0
2688	63.252	63.096	0.042	0.0	0.0	0.0
2712	63.256	63.096	0.046	0.0	0.0	0.0
2736	63.264	63.096	0.054	0.0	0.0	0.0
2760	63.274	63.096	0.064	0.0	0.0	0.0
2784	63.287	63.096	0.077	0.0	0.0	0.0
2808	63.303	63.096	0.093	0.0	0.0	0.0
2832	63.321	63.096	0.111	0.0	0.0	0.0
2856	63.342	63.096	0.132	0.0	0.1	0.0
2880	63.357	63.096	0.147	0.0	0.1	0.0
2904	63.368	63.096	0.158	0.0	0.1	0.0
2928	63.376	63.096	0.166	0.0	0.1	0.0
2952	63.382	63.096	0.172	0.0	0.1	0.0
2976	63.388	63.096	0.178	0.0	0.1	0.0
3000	63.393	63.096	0.183	0.0	0.1	0.0
3024	63.399	63.096	0.189	0.0	0.1	0.0
3048	63.404	63.096	0.194	0.0	0.1	0.0
3072	63.409	63.096	0.199	0.0	0.1	0.0
3096	63.414	63.096	0.204	0.0	0.1	0.0
3120	63.419	63.096	0.209	0.0	0.1	0.0
3144	63.423	63.096	0.213	0.0	0.1	0.0
3168	63.428	63.096	0.218	0.0	0.1	0.0
3192	63.432	63.096	0.222	0.0	0.1	0.0
3216	63.437	63.096	0.227	0.0	0.1	0.0
3240	63.441	63.096	0.231	0.0	0.1	0.0
3264	63.445	63.096	0.235	0.0	0.1	0.0
3288	63.449	63.096	0.239	0.0	0.1	0.0
3312	63.453	63.096	0.243	0.0	0.1	0.0
3336	63.456	63.096	0.246	0.0	0.1	0.0
3360	63.460	63.096	0.250	0.0	0.1	0.0
3384	63.463	63.096	0.253	0.0	0.1	0.0
3408	63.467	63.096	0.257	0.0	0.1	0.0
3432	63.470	63.096	0.260	0.0	0.1	0.0
3456	63.473	63.096	0.263	0.0	0.1	0.0
3480	63.476	63.096	0.266	0.0	0.1	0.0
3504	63.478	63.096	0.268	0.0	0.1	0.0
3528	63.481	63.096	0.271	0.0	0.1	0.0
3552	63.483	63.096	0.273	0.0	0.1	0.0
3576	63.485	63.096	0.275	0.0	0.1	0.0
3600	63.488	63.096	0.278	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.490	63.096	0.280	0.0	0.1	0.0
3648	63.492	63.096	0.282	0.0	0.1	0.0
3672	63.493	63.096	0.283	0.0	0.1	0.0
3696	63.495	63.096	0.285	0.0	0.1	0.0
3720	63.496	63.096	0.286	0.0	0.1	0.0
3744	63.498	63.096	0.288	0.0	0.1	0.0
3768	63.499	63.096	0.289	0.0	0.1	0.0
3792	63.500	63.096	0.290	0.0	0.1	0.0
3816	63.501	63.096	0.291	0.0	0.1	0.0
3840	63.502	63.096	0.292	0.0	0.1	0.0
3864	63.503	63.096	0.293	0.0	0.1	0.0
3888	63.503	63.096	0.293	0.0	0.1	0.0
3912	63.504	63.096	0.294	0.0	0.1	0.0
3936	63.504	63.096	0.294	0.0	0.1	0.0
3960	63.504	63.096	0.294	0.0	0.1	0.0
3984	63.504	63.096	0.294	0.0	0.1	0.0
4008	63.505	63.096	0.295	0.0	0.1	0.0
4032	63.504	63.096	0.294	0.0	0.1	0.0
4056	63.504	63.096	0.294	0.0	0.1	0.0
4080	63.504	63.096	0.294	0.0	0.1	0.0
4104	63.503	63.096	0.293	0.0	0.1	0.0
4128	63.503	63.096	0.293	0.0	0.1	0.0
4152	63.502	63.096	0.292	0.0	0.1	0.0
4176	63.502	63.096	0.292	0.0	0.1	0.0
4200	63.501	63.096	0.291	0.0	0.1	0.0
4224	63.500	63.096	0.290	0.0	0.1	0.0
4248	63.499	63.096	0.289	0.0	0.1	0.0
4272	63.498	63.096	0.288	0.0	0.1	0.0
4296	63.497	63.096	0.287	0.0	0.1	0.0
4320	63.496	63.096	0.286	0.0	0.1	0.0
4344	63.495	63.096	0.285	0.0	0.1	0.0
4368	63.494	63.096	0.284	0.0	0.1	0.0
4392	63.492	63.096	0.282	0.0	0.1	0.0
4416	63.491	63.096	0.281	0.0	0.1	0.0
4440	63.489	63.096	0.279	0.0	0.1	0.0
4464	63.488	63.096	0.278	0.0	0.1	0.0
4488	63.486	63.096	0.276	0.0	0.1	0.0
4512	63.485	63.096	0.275	0.0	0.1	0.0
4536	63.483	63.096	0.273	0.0	0.1	0.0
4560	63.482	63.096	0.272	0.0	0.1	0.0
4584	63.480	63.096	0.270	0.0	0.1	0.0
4608	63.478	63.096	0.268	0.0	0.1	0.0
4632	63.477	63.096	0.267	0.0	0.1	0.0
4656	63.475	63.096	0.265	0.0	0.1	0.0
4680	63.473	63.096	0.263	0.0	0.1	0.0
4704	63.472	63.096	0.262	0.0	0.1	0.0
4728	63.470	63.096	0.260	0.0	0.1	0.0
4752	63.468	63.096	0.258	0.0	0.1	0.0
4776	63.466	63.096	0.256	0.0	0.1	0.0
4800	63.464	63.096	0.254	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.463	63.096	0.253	0.0	0.1	0.0
4848	63.461	63.096	0.251	0.0	0.1	0.0
4872	63.459	63.096	0.249	0.0	0.1	0.0
4896	63.457	63.096	0.247	0.0	0.1	0.0
4920	63.456	63.096	0.246	0.0	0.1	0.0
4944	63.454	63.096	0.244	0.0	0.1	0.0
4968	63.452	63.096	0.242	0.0	0.1	0.0
4992	63.450	63.096	0.240	0.0	0.1	0.0
5016	63.448	63.096	0.238	0.0	0.1	0.0
5040	63.446	63.096	0.236	0.0	0.1	0.0
5064	63.445	63.096	0.235	0.0	0.1	0.0
5088	63.443	63.096	0.233	0.0	0.1	0.0
5112	63.441	63.096	0.231	0.0	0.1	0.0
5136	63.439	63.096	0.229	0.0	0.1	0.0
5160	63.438	63.096	0.228	0.0	0.1	0.0
5184	63.436	63.096	0.226	0.0	0.1	0.0
5208	63.434	63.096	0.224	0.0	0.1	0.0
5232	63.432	63.096	0.222	0.0	0.1	0.0
5256	63.431	63.096	0.221	0.0	0.1	0.0
5280	63.429	63.096	0.219	0.0	0.1	0.0
5304	63.427	63.096	0.217	0.0	0.1	0.0
5328	63.425	63.096	0.215	0.0	0.1	0.0
5352	63.423	63.096	0.213	0.0	0.1	0.0
5376	63.421	63.096	0.211	0.0	0.1	0.0
5400	63.420	63.096	0.210	0.0	0.1	0.0
5424	63.418	63.096	0.208	0.0	0.1	0.0
5448	63.416	63.096	0.206	0.0	0.1	0.0
5472	63.414	63.096	0.204	0.0	0.1	0.0
5496	63.412	63.096	0.202	0.0	0.1	0.0
5520	63.410	63.096	0.200	0.0	0.1	0.0
5544	63.408	63.096	0.198	0.0	0.1	0.0
5568	63.406	63.096	0.196	0.0	0.1	0.0
5592	63.403	63.096	0.193	0.0	0.1	0.0
5616	63.401	63.096	0.191	0.0	0.1	0.0
5640	63.399	63.096	0.189	0.0	0.1	0.0
5664	63.396	63.096	0.186	0.0	0.1	0.0
5688	63.394	63.096	0.184	0.0	0.1	0.0
5712	63.391	63.096	0.181	0.0	0.1	0.0
5736	63.388	63.096	0.178	0.0	0.1	0.0
5760	63.385	63.096	0.175	0.0	0.1	0.0
5784	63.382	63.096	0.172	0.0	0.1	0.0
5808	63.379	63.096	0.169	0.0	0.1	0.0
5832	63.376	63.096	0.166	0.0	0.1	0.0
5856	63.373	63.096	0.163	0.0	0.1	0.0
5880	63.369	63.096	0.159	0.0	0.1	0.0
5904	63.366	63.096	0.156	0.0	0.1	0.0
5928	63.363	63.096	0.153	0.0	0.1	0.0
5952	63.360	63.096	0.150	0.0	0.1	0.0
5976	63.357	63.096	0.147	0.0	0.1	0.0
6000	63.354	63.096	0.144	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.350	63.096	0.140	0.0	0.1	0.0
6048	63.347	63.096	0.137	0.0	0.1	0.0
6072	63.343	63.096	0.133	0.0	0.1	0.0
6096	63.338	63.096	0.128	0.0	0.1	0.0
6120	63.333	63.096	0.123	0.0	0.1	0.0
6144	63.328	63.096	0.118	0.0	0.1	0.0
6168	63.323	63.096	0.113	0.0	0.0	0.0
6192	63.315	63.096	0.105	0.0	0.0	0.0
6216	63.306	63.096	0.096	0.0	0.0	0.0
6240	63.294	63.096	0.084	0.0	0.0	0.0
6264	63.282	63.096	0.072	0.0	0.0	0.0
6288	63.270	63.096	0.060	0.0	0.0	0.0
6312	63.257	63.096	0.047	0.0	0.0	0.0
6336	63.251	63.096	0.041	0.0	0.0	0.0
6360	63.259	63.096	0.049	0.0	0.0	0.0
6384	63.270	63.096	0.060	0.0	0.0	0.0
6408	63.275	63.096	0.065	0.0	0.0	0.0
6432	63.276	63.096	0.066	0.0	0.0	0.0
6456	63.277	63.096	0.067	0.0	0.0	0.0
6480	63.275	63.096	0.065	0.0	0.0	0.0
6504	63.274	63.096	0.064	0.0	0.0	0.0
6528	63.271	63.096	0.061	0.0	0.0	0.0
6552	63.269	63.096	0.059	0.0	0.0	0.0
6576	63.266	63.096	0.056	0.0	0.0	0.0
6600	63.263	63.096	0.053	0.0	0.0	0.0
6624	63.261	63.096	0.051	0.0	0.0	0.0
6648	63.258	63.096	0.048	0.0	0.0	0.0
6672	63.255	63.096	0.045	0.0	0.0	0.0
6696	63.253	63.096	0.043	0.0	0.0	0.0
6720	63.250	63.096	0.040	0.0	0.0	0.0
6744	63.251	63.096	0.041	0.0	0.0	0.0
6768	63.250	63.096	0.040	0.0	0.0	0.0
6792	63.251	63.096	0.041	0.0	0.0	0.0
6816	63.250	63.096	0.040	0.0	0.0	0.0
6840	63.250	63.096	0.040	0.0	0.0	0.0
6864	63.249	63.096	0.039	0.0	0.0	0.0
6888	63.250	63.096	0.040	0.0	0.0	0.0
6912	63.251	63.096	0.041	0.0	0.0	0.0
6936	63.249	63.096	0.039	0.0	0.0	0.0
6960	63.250	63.096	0.040	0.0	0.0	0.0
6984	63.249	63.096	0.039	0.0	0.0	0.0
7008	63.248	63.096	0.038	0.0	0.0	0.0
7032	63.243	63.096	0.033	0.0	0.0	0.0
7056	63.233	63.096	0.023	0.0	0.0	0.0
7080	63.218	63.096	0.008	0.0	0.0	0.0
7104	63.202	63.096	-0.008	0.0	0.0	0.0
7128	63.186	63.096	-0.024	0.0	0.0	0.0
7152	63.168	63.096	-0.042	0.0	0.0	0.0
7176	63.149	63.096	-0.061	0.0	0.0	0.0
7200	63.132	63.096	-0.078	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.123	63.096	-0.087	0.0	0.0	0.0
7248	63.117	63.096	-0.093	0.0	0.0	0.0
7272	63.113	63.096	-0.097	0.0	0.0	0.0
7296	63.111	63.096	-0.099	0.0	0.0	0.0
7320	63.109	63.096	-0.101	0.0	0.0	0.0
7344	63.108	63.096	-0.102	0.0	0.0	0.0
7368	63.107	63.096	-0.103	0.0	0.0	0.0
7392	63.106	63.096	-0.104	0.0	0.0	0.0
7416	63.105	63.096	-0.105	0.0	0.0	0.0
7440	63.105	63.096	-0.105	0.0	0.0	0.0
7464	63.104	63.096	-0.106	0.0	0.0	0.0
7488	63.104	63.096	-0.106	0.0	0.0	0.0
7512	63.103	63.096	-0.107	0.0	0.0	0.0
7536	63.103	63.096	-0.107	0.0	0.0	0.0
7560	63.103	63.096	-0.107	0.0	0.0	0.0
7584	63.103	63.096	-0.107	0.0	0.0	0.0
7608	63.102	63.096	-0.108	0.0	0.0	0.0
7632	63.102	63.096	-0.108	0.0	0.0	0.0
7656	63.102	63.096	-0.108	0.0	0.0	0.0
7680	63.102	63.096	-0.108	0.0	0.0	0.0
7704	63.102	63.096	-0.108	0.0	0.0	0.0
7728	63.102	63.096	-0.108	0.0	0.0	0.0
7752	63.102	63.096	-0.108	0.0	0.0	0.0
7776	63.102	63.096	-0.108	0.0	0.0	0.0
7800	63.101	63.096	-0.109	0.0	0.0	0.0
7824	63.101	63.096	-0.109	0.0	0.0	0.0
7848	63.101	63.096	-0.109	0.0	0.0	0.0
7872	63.101	63.096	-0.109	0.0	0.0	0.0
7896	63.101	63.096	-0.109	0.0	0.0	0.0
7920	63.101	63.096	-0.109	0.0	0.0	0.0
7944	63.101	63.096	-0.109	0.0	0.0	0.0
7968	63.101	63.096	-0.109	0.0	0.0	0.0
7992	63.101	63.096	-0.109	0.0	0.0	0.0
8016	63.101	63.096	-0.109	0.0	0.0	0.0
8040	63.101	63.096	-0.109	0.0	0.0	0.0
8064	63.101	63.096	-0.109	0.0	0.0	0.0
8088	63.101	63.096	-0.109	0.0	0.0	0.0
8112	63.101	63.096	-0.109	0.0	0.0	0.0
8136	63.101	63.096	-0.109	0.0	0.0	0.0
8160	63.101	63.096	-0.109	0.0	0.0	0.0
8184	63.101	63.096	-0.109	0.0	0.0	0.0
8208	63.101	63.096	-0.109	0.0	0.0	0.0
8232	63.101	63.096	-0.109	0.0	0.0	0.0
8256	63.101	63.096	-0.109	0.0	0.0	0.0
8280	63.101	63.096	-0.109	0.0	0.0	0.0
8304	63.101	63.096	-0.109	0.0	0.0	0.0
8328	63.101	63.096	-0.109	0.0	0.0	0.0
8352	63.101	63.096	-0.109	0.0	0.0	0.0
8376	63.101	63.096	-0.109	0.0	0.0	0.0
8400	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.101	63.096	-0.109	0.0	0.0	0.0
8448	63.101	63.096	-0.109	0.0	0.0	0.0
8472	63.101	63.096	-0.109	0.0	0.0	0.0
8496	63.100	63.096	-0.110	0.0	0.0	0.0
8520	63.100	63.096	-0.110	0.0	0.0	0.0
8544	63.100	63.096	-0.110	0.0	0.0	0.0
8568	63.100	63.096	-0.110	0.0	0.0	0.0
8592	63.100	63.096	-0.110	0.0	0.0	0.0
8616	63.100	63.096	-0.110	0.0	0.0	0.0
8640	63.100	63.096	-0.110	0.0	0.0	0.0
8664	63.100	63.096	-0.110	0.0	0.0	0.0
8688	63.100	63.096	-0.110	0.0	0.0	0.0
8712	63.100	63.096	-0.110	0.0	0.0	0.0
8736	63.100	63.096	-0.110	0.0	0.0	0.0
8760	63.100	63.096	-0.110	0.0	0.0	0.0
8784	63.100	63.096	-0.110	0.0	0.0	0.0
8808	63.100	63.096	-0.110	0.0	0.0	0.0
8832	63.100	63.096	-0.110	0.0	0.0	0.0
8856	63.100	63.096	-0.110	0.0	0.0	0.0
8880	63.100	63.096	-0.110	0.0	0.0	0.0
8904	63.100	63.096	-0.110	0.0	0.0	0.0
8928	63.100	63.096	-0.110	0.0	0.0	0.0
8952	63.100	63.096	-0.110	0.0	0.0	0.0
8976	63.100	63.096	-0.110	0.0	0.0	0.0
9000	63.100	63.096	-0.110	0.0	0.0	0.0
9024	63.100	63.096	-0.110	0.0	0.0	0.0
9048	63.100	63.096	-0.110	0.0	0.0	0.0
9072	63.100	63.096	-0.110	0.0	0.0	0.0
9096	63.100	63.096	-0.110	0.0	0.0	0.0
9120	63.100	63.096	-0.110	0.0	0.0	0.0
9144	63.100	63.096	-0.110	0.0	0.0	0.0
9168	63.100	63.096	-0.110	0.0	0.0	0.0
9192	63.100	63.096	-0.110	0.0	0.0	0.0
9216	63.100	63.096	-0.110	0.0	0.0	0.0
9240	63.100	63.096	-0.110	0.0	0.0	0.0
9264	63.100	63.096	-0.110	0.0	0.0	0.0
9288	63.100	63.096	-0.110	0.0	0.0	0.0
9312	63.100	63.096	-0.110	0.0	0.0	0.0
9336	63.100	63.096	-0.110	0.0	0.0	0.0
9360	63.100	63.096	-0.110	0.0	0.0	0.0
9384	63.100	63.096	-0.110	0.0	0.0	0.0
9408	63.100	63.096	-0.110	0.0	0.0	0.0
9432	63.100	63.096	-0.110	0.0	0.0	0.0
9456	63.100	63.096	-0.110	0.0	0.0	0.0
9480	63.100	63.096	-0.110	0.0	0.0	0.0
9504	63.100	63.096	-0.110	0.0	0.0	0.0
9528	63.100	63.096	-0.110	0.0	0.0	0.0
9552	63.100	63.096	-0.110	0.0	0.0	0.0
9576	63.100	63.096	-0.110	0.0	0.0	0.0
9600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.100	63.096	-0.110	0.0	0.0	0.0
9648	63.100	63.096	-0.110	0.0	0.0	0.0
9672	63.100	63.096	-0.110	0.0	0.0	0.0
9696	63.100	63.096	-0.110	0.0	0.0	0.0
9720	63.100	63.096	-0.110	0.0	0.0	0.0
9744	63.100	63.096	-0.110	0.0	0.0	0.0
9768	63.100	63.096	-0.110	0.0	0.0	0.0
9792	63.100	63.096	-0.110	0.0	0.0	0.0
9816	63.100	63.096	-0.110	0.0	0.0	0.0
9840	63.100	63.096	-0.110	0.0	0.0	0.0
9864	63.100	63.096	-0.110	0.0	0.0	0.0
9888	63.100	63.096	-0.110	0.0	0.0	0.0
9912	63.100	63.096	-0.110	0.0	0.0	0.0
9936	63.100	63.096	-0.110	0.0	0.0	0.0
9960	63.100	63.096	-0.110	0.0	0.0	0.0
9984	63.100	63.096	-0.110	0.0	0.0	0.0
10008	63.100	63.096	-0.110	0.0	0.0	0.0
10032	63.100	63.096	-0.110	0.0	0.0	0.0
10056	63.100	63.096	-0.110	0.0	0.0	0.0
10080	63.100	63.096	-0.110	0.0	0.0	0.0
10104	63.100	63.096	-0.110	0.0	0.0	0.0
10128	63.100	63.096	-0.110	0.0	0.0	0.0
10152	63.100	63.096	-0.110	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
5760 minute 100 year Winter
Average Rainfall Intensity 1.287 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	14400
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	7200
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 7200 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.1	OK
1.001	S1	63.562	-0.042	0.000	0.02	0.0	0.1	OK
2.000	RE2	65.402	-0.108	0.000	0.00	0.0	0.1	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.562	0.008	0.000	0.04	0.0	0.3	SURCHARGED
1.003	S4	63.562	0.202	0.000	0.03	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.505	0.295	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 7200 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.346	1296	0.464	2568	1.069	3840	3.240	5112	0.691
48	0.346	1320	0.475	2592	1.069	3864	3.240	5136	0.659
72	0.346	1344	0.475	2616	1.188	3888	3.240	5160	0.659
96	0.356	1368	0.475	2640	1.188	3912	2.959	5184	0.659
120	0.356	1392	0.486	2664	1.188	3936	2.959	5208	0.626
144	0.356	1416	0.486	2688	1.328	3960	2.959	5232	0.626
168	0.356	1440	0.486	2712	1.328	3984	2.700	5256	0.626
192	0.356	1464	0.497	2736	1.328	4008	2.700	5280	0.605
216	0.356	1488	0.497	2760	1.469	4032	2.700	5304	0.605
240	0.367	1512	0.497	2784	1.469	4056	2.462	5328	0.605
264	0.367	1536	0.518	2808	1.469	4080	2.462	5352	0.583
288	0.367	1560	0.518	2832	1.642	4104	2.462	5376	0.583
312	0.367	1584	0.518	2856	1.642	4128	2.246	5400	0.583
336	0.367	1608	0.529	2880	1.642	4152	2.246	5424	0.562
360	0.367	1632	0.529	2904	1.836	4176	2.246	5448	0.562
384	0.378	1656	0.529	2928	1.836	4200	2.030	5472	0.562
408	0.378	1680	0.551	2952	1.836	4224	2.030	5496	0.551
432	0.378	1704	0.551	2976	2.030	4248	2.030	5520	0.551
456	0.378	1728	0.551	3000	2.030	4272	1.836	5544	0.551
480	0.378	1752	0.562	3024	2.030	4296	1.836	5568	0.529
504	0.378	1776	0.562	3048	2.246	4320	1.836	5592	0.529
528	0.389	1800	0.562	3072	2.246	4344	1.642	5616	0.529
552	0.389	1824	0.583	3096	2.246	4368	1.642	5640	0.518
576	0.389	1848	0.583	3120	2.462	4392	1.642	5664	0.518
600	0.389	1872	0.583	3144	2.462	4416	1.469	5688	0.518
624	0.389	1896	0.605	3168	2.462	4440	1.469	5712	0.497
648	0.389	1920	0.605	3192	2.700	4464	1.469	5736	0.497
672	0.400	1944	0.605	3216	2.700	4488	1.328	5760	0.497
696	0.400	1968	0.626	3240	2.700	4512	1.328	5784	0.486
720	0.400	1992	0.626	3264	2.959	4536	1.328	5808	0.486
744	0.400	2016	0.626	3288	2.959	4560	1.188	5832	0.486
768	0.400	2040	0.659	3312	2.959	4584	1.188	5856	0.475
792	0.400	2064	0.659	3336	3.240	4608	1.188	5880	0.475
816	0.410	2088	0.659	3360	3.240	4632	1.069	5904	0.475
840	0.410	2112	0.691	3384	3.240	4656	1.069	5928	0.464
864	0.410	2136	0.691	3408	3.542	4680	1.069	5952	0.464
888	0.410	2160	0.691	3432	3.542	4704	0.983	5976	0.464
912	0.410	2184	0.734	3456	3.542	4728	0.983	6000	0.454
936	0.410	2208	0.734	3480	3.866	4752	0.983	6024	0.454
960	0.421	2232	0.734	3504	3.866	4776	0.907	6048	0.454
984	0.421	2256	0.778	3528	3.866	4800	0.907	6072	0.443
1008	0.421	2280	0.778	3552	4.234	4824	0.907	6096	0.443
1032	0.432	2304	0.778	3576	4.234	4848	0.842	6120	0.443
1056	0.432	2328	0.842	3600	4.234	4872	0.842	6144	0.432
1080	0.432	2352	0.842	3624	4.234	4896	0.842	6168	0.432
1104	0.443	2376	0.842	3648	4.234	4920	0.778	6192	0.432
1128	0.443	2400	0.907	3672	4.234	4944	0.778	6216	0.421
1152	0.443	2424	0.907	3696	3.866	4968	0.778	6240	0.421
1176	0.454	2448	0.907	3720	3.866	4992	0.734	6264	0.421
1200	0.454	2472	0.983	3744	3.866	5016	0.734	6288	0.410
1224	0.454	2496	0.983	3768	3.542	5040	0.734	6312	0.410
1248	0.464	2520	0.983	3792	3.542	5064	0.691	6336	0.410
1272	0.464	2544	1.069	3816	3.542	5088	0.691	6360	0.410

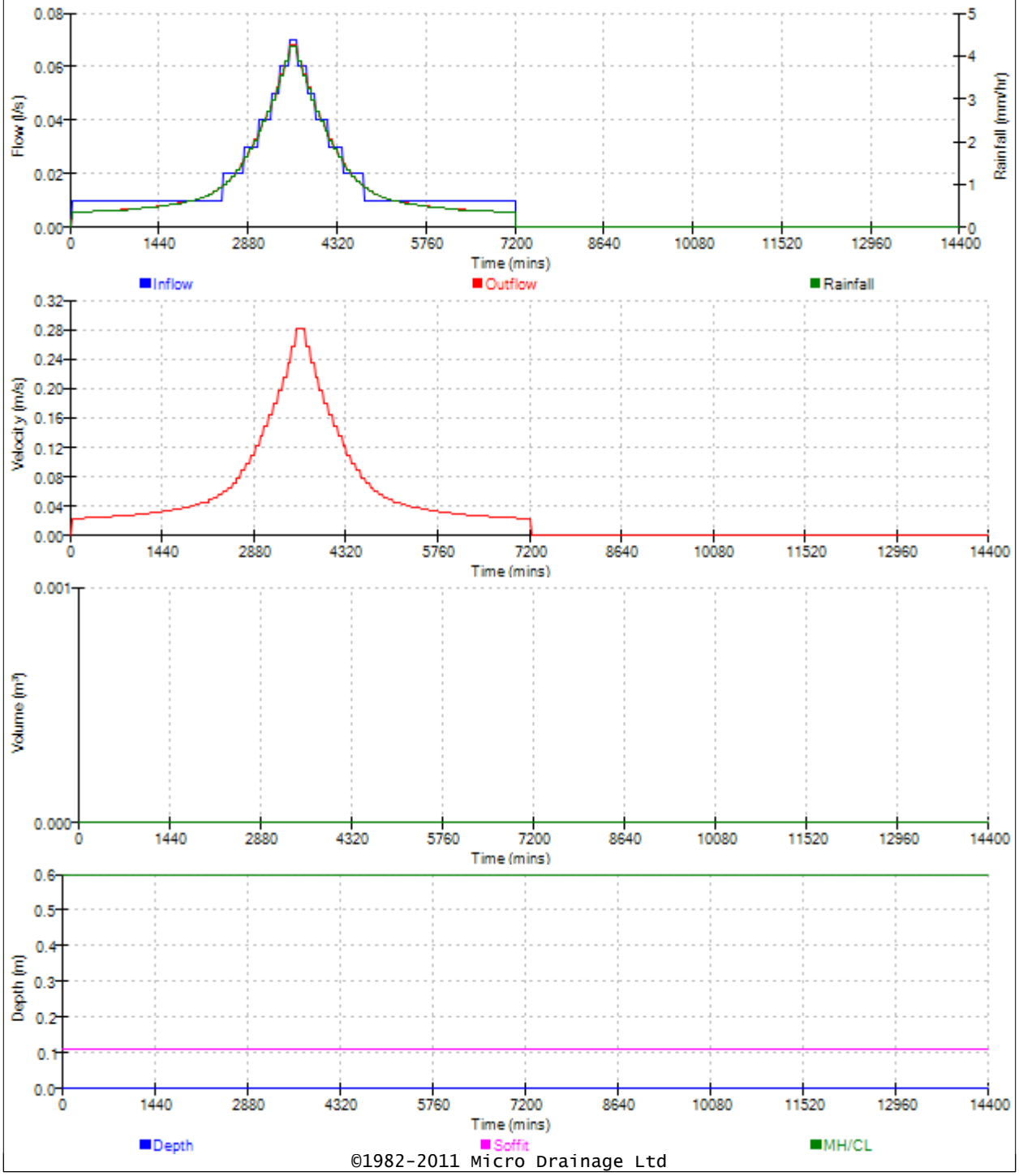
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Rainfall Hyetograph for 7200 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	0.410	6552	0.400	6720	0.378	6888	0.367	7056	0.356
6408	0.410	6576	0.389	6744	0.378	6912	0.367	7080	0.356
6432	0.400	6600	0.389	6768	0.378	6936	0.367	7104	0.356
6456	0.400	6624	0.389	6792	0.378	6960	0.367	7128	0.356
6480	0.400	6648	0.389	6816	0.378	6984	0.367	7152	0.346
6504	0.400	6672	0.389	6840	0.378	7008	0.356	7176	0.346
6528	0.400	6696	0.389	6864	0.367	7032	0.356	7200	0.346

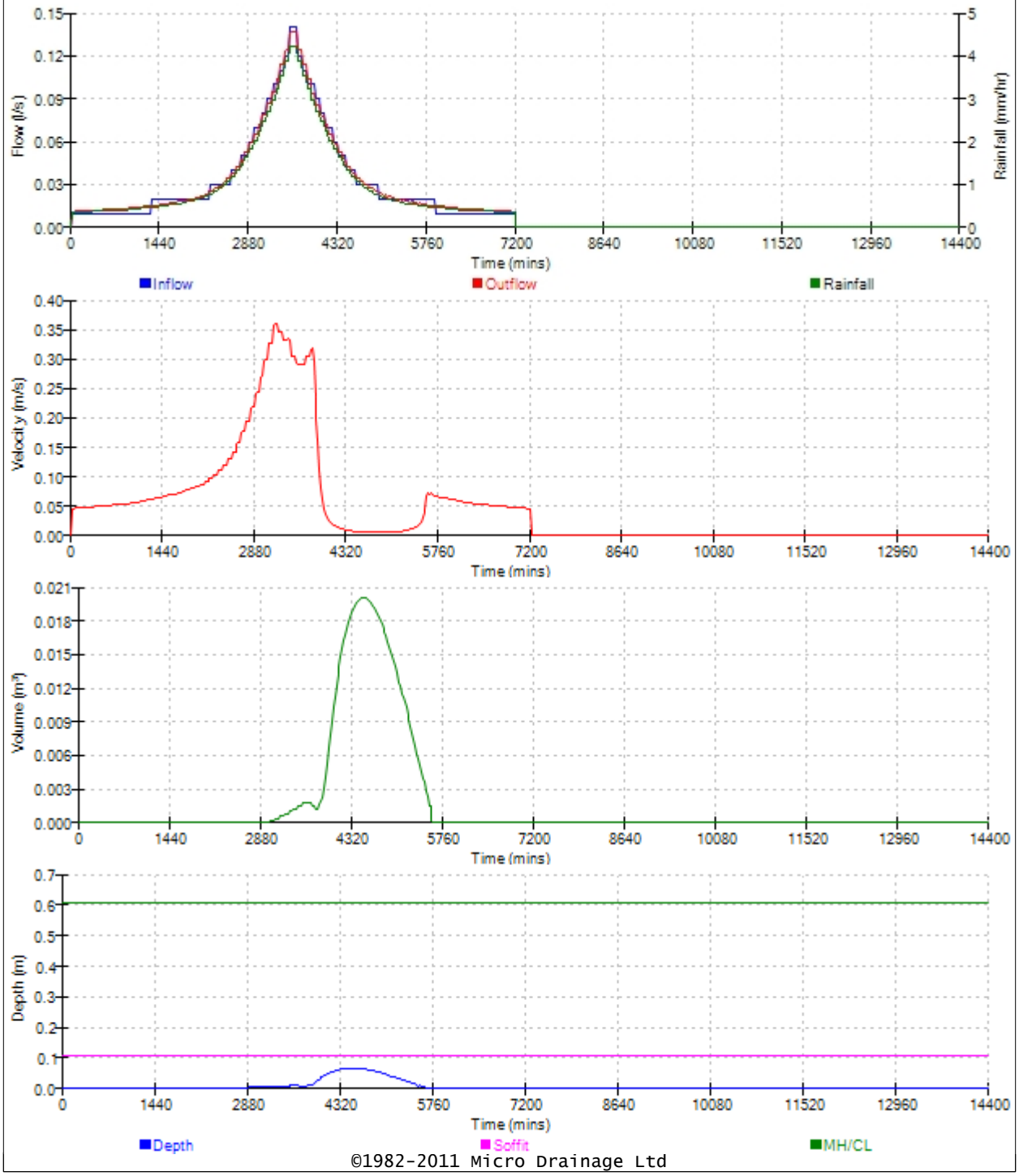
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Status: OK



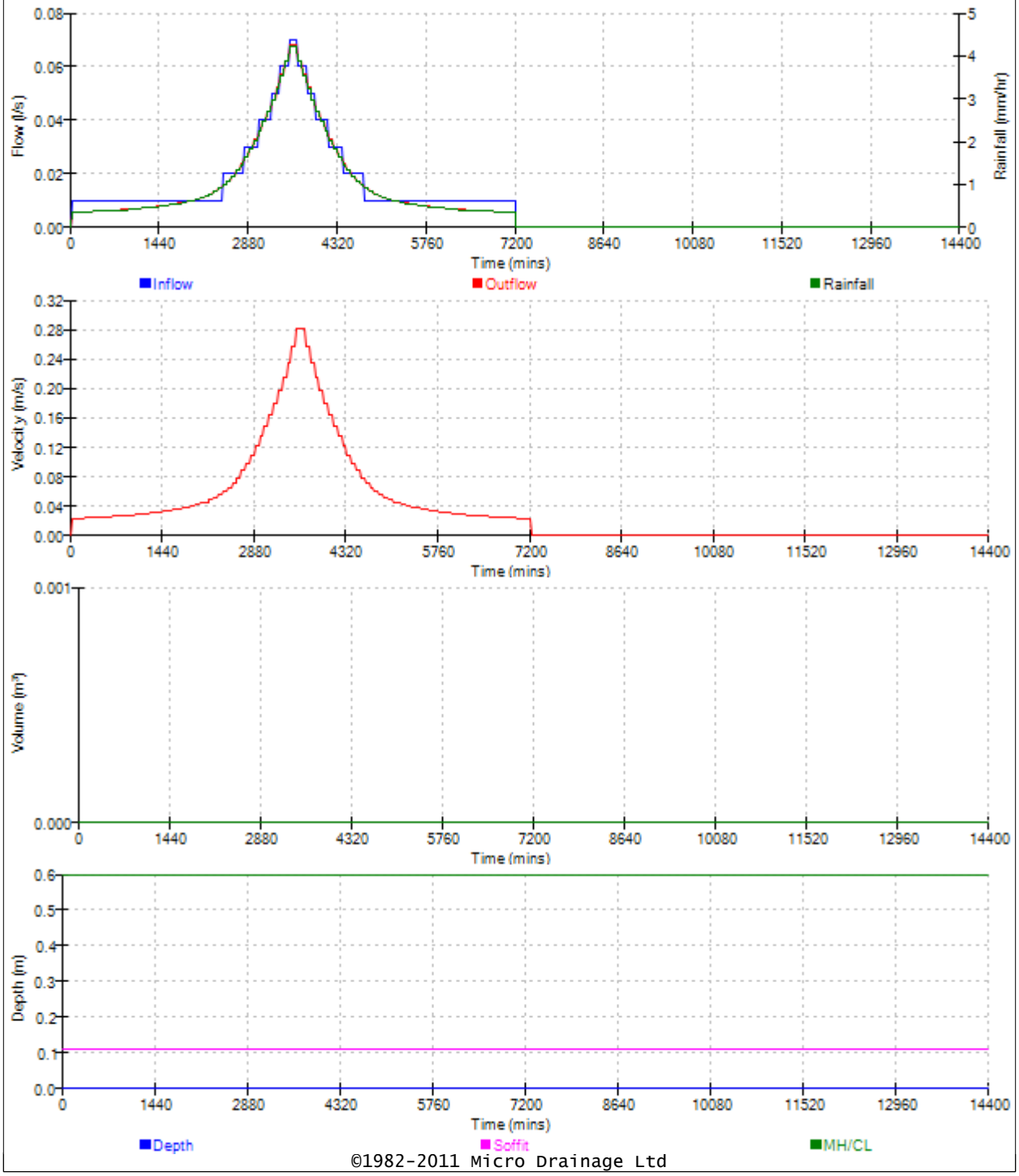
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Graphs for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Status: OK



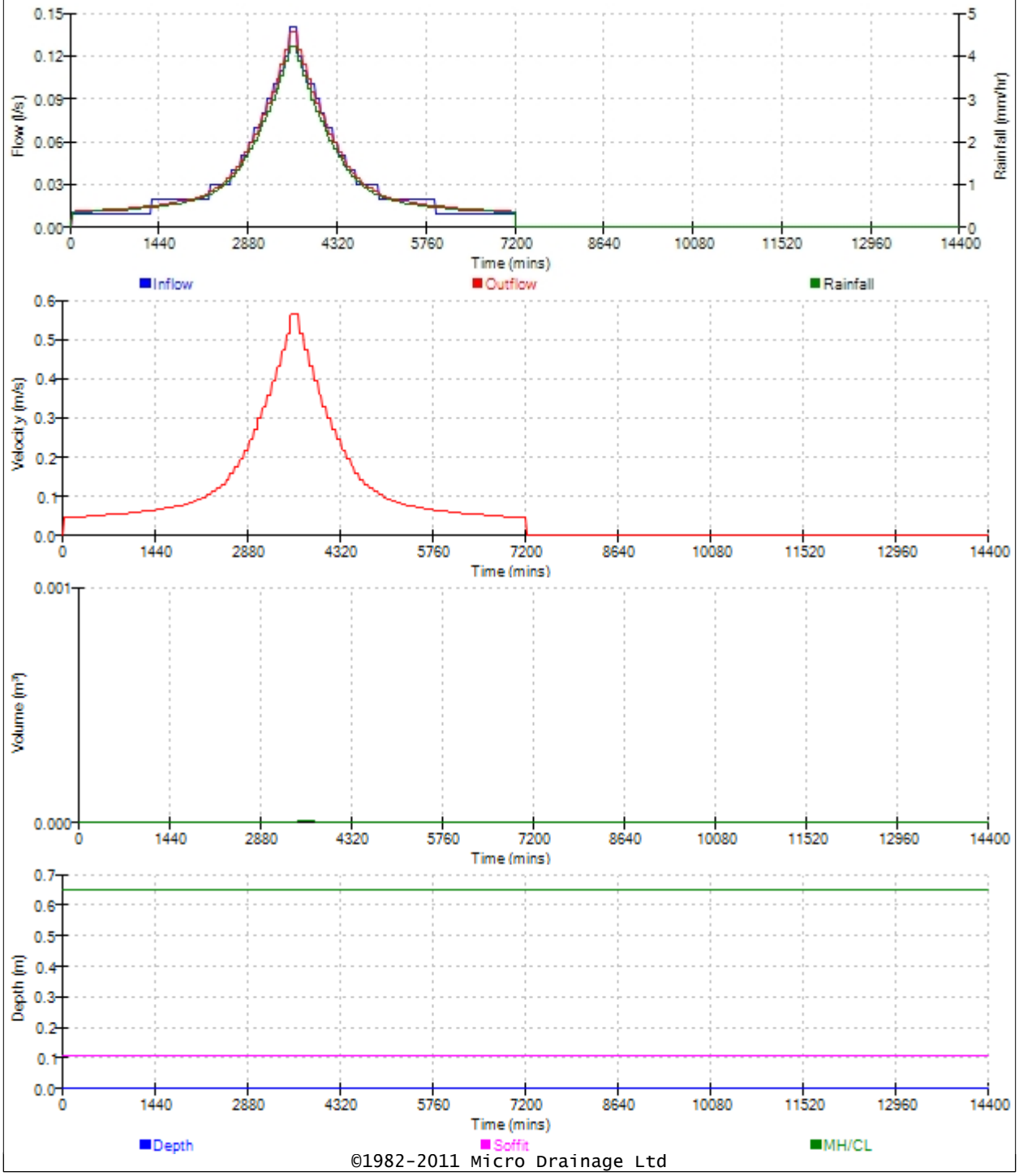
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Status: OK



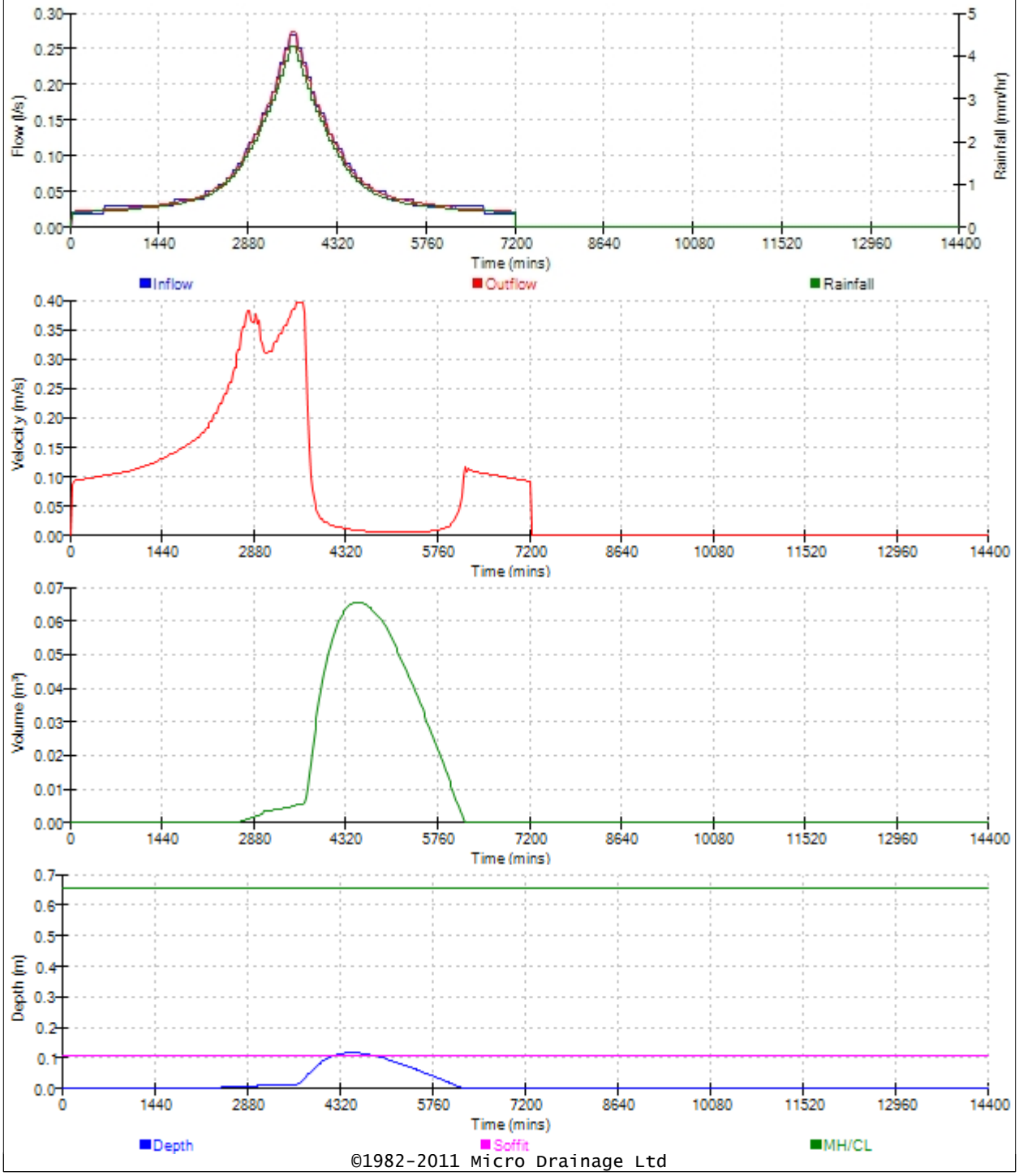
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Graphs for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Status: OK



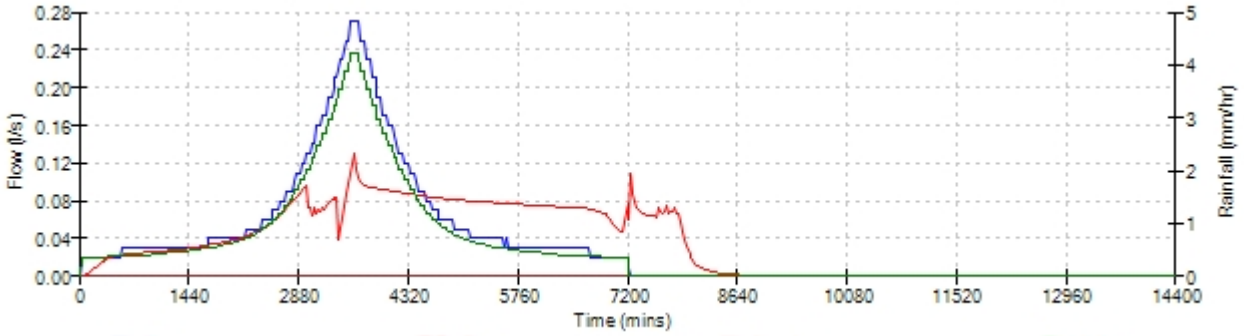
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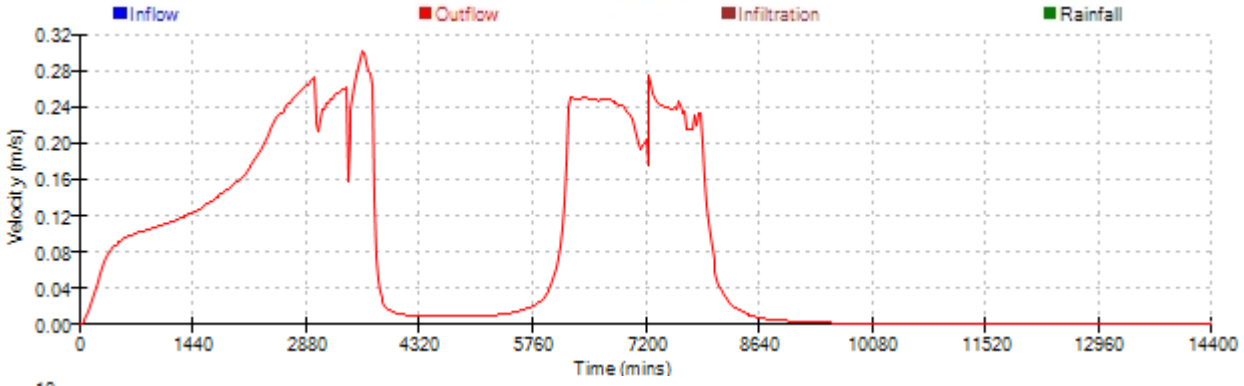
Graphs for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Status: SURCHARGED

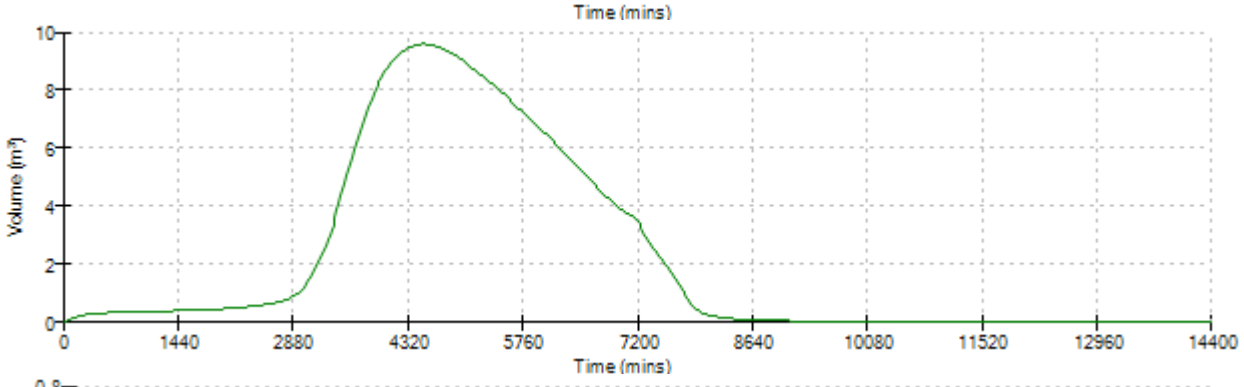


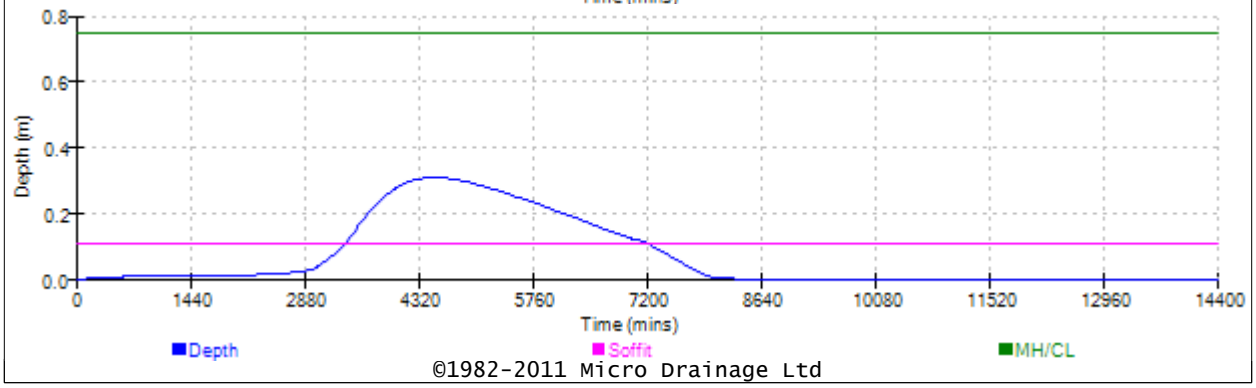
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Graphs for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Status: SURCHARGED



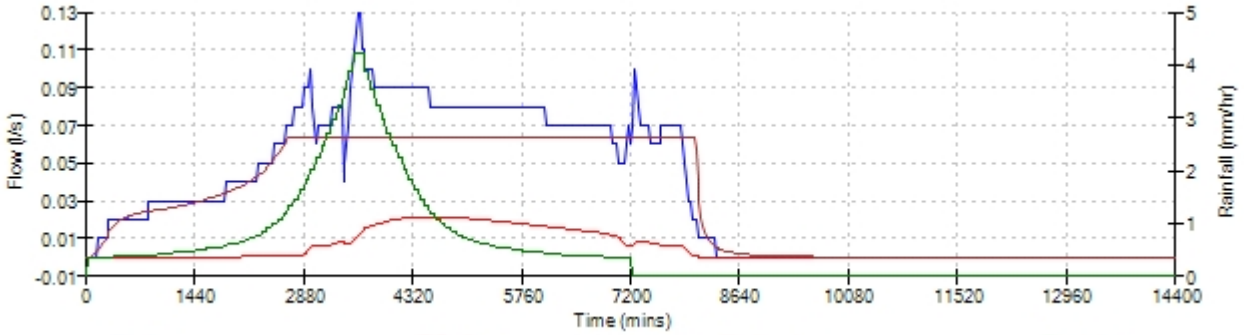


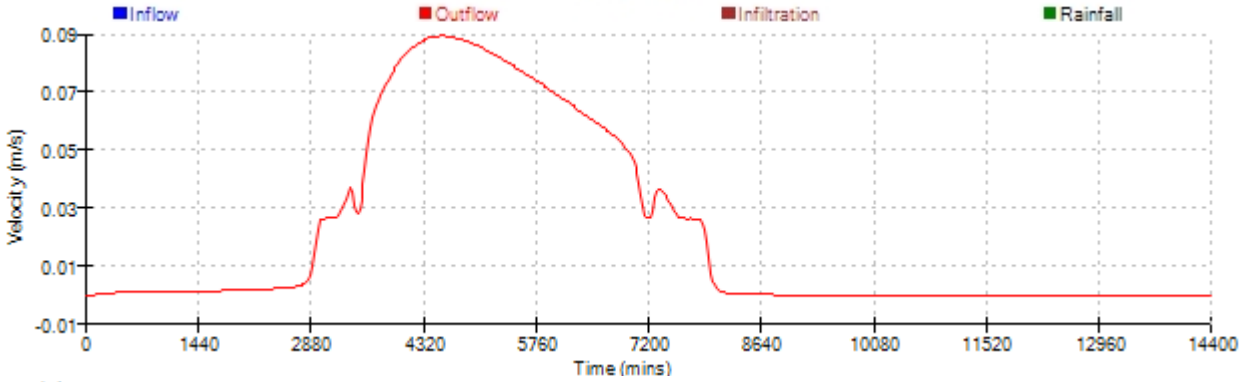


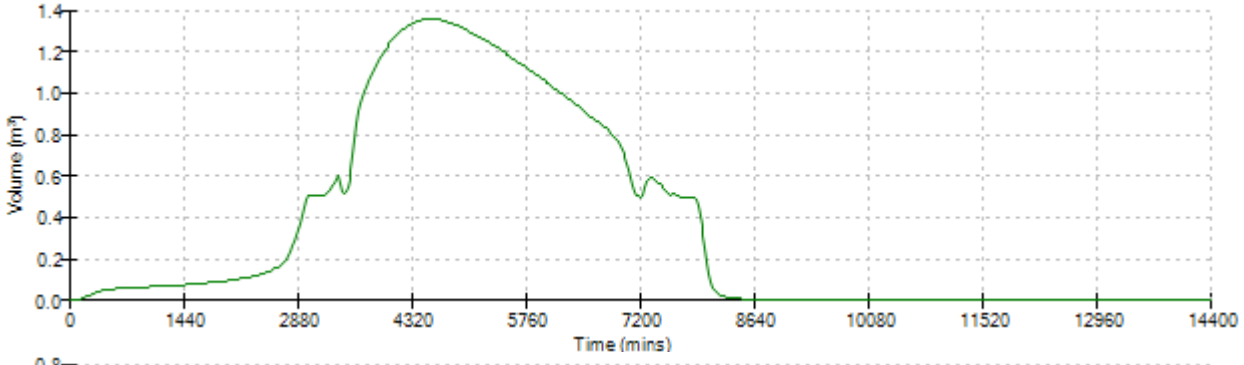


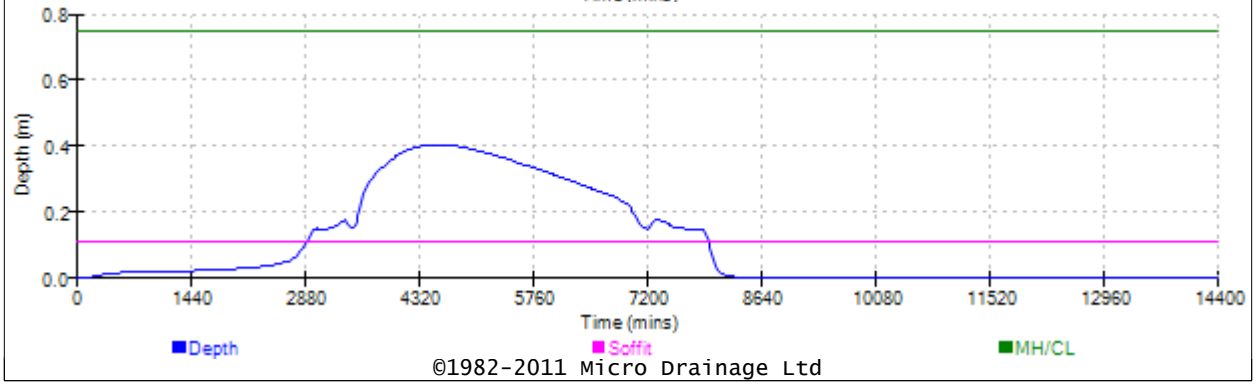
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.495	-0.110	0.0	0.0	0.0
264	65.400	63.495	-0.110	0.0	0.0	0.0
288	65.400	63.495	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.495	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.495	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.495	-0.110	0.0	0.0	0.0
1560	65.400	63.495	-0.110	0.0	0.0	0.0
1584	65.400	63.495	-0.110	0.0	0.0	0.0
1608	65.400	63.495	-0.110	0.0	0.0	0.0
1632	65.400	63.495	-0.110	0.0	0.0	0.0
1656	65.400	63.495	-0.110	0.0	0.0	0.0
1680	65.400	63.495	-0.110	0.0	0.0	0.0
1704	65.400	63.495	-0.110	0.0	0.0	0.0
1728	65.400	63.495	-0.110	0.0	0.0	0.0
1752	65.400	63.496	-0.110	0.0	0.0	0.0
1776	65.400	63.496	-0.110	0.0	0.0	0.0
1800	65.400	63.496	-0.110	0.0	0.0	0.0
1824	65.400	63.496	-0.110	0.0	0.0	0.0
1848	65.400	63.496	-0.110	0.0	0.0	0.0
1872	65.400	63.496	-0.110	0.0	0.0	0.0
1896	65.400	63.496	-0.110	0.0	0.0	0.0
1920	65.400	63.496	-0.110	0.0	0.0	0.0
1944	65.400	63.496	-0.110	0.0	0.0	0.0
1968	65.400	63.496	-0.110	0.0	0.0	0.0
1992	65.400	63.496	-0.110	0.0	0.0	0.0
2016	65.400	63.496	-0.110	0.0	0.0	0.0
2040	65.400	63.496	-0.110	0.0	0.0	0.0
2064	65.400	63.496	-0.110	0.0	0.0	0.0
2088	65.400	63.496	-0.110	0.0	0.0	0.0
2112	65.400	63.496	-0.110	0.0	0.0	0.0
2136	65.400	63.496	-0.110	0.0	0.0	0.0
2160	65.400	63.496	-0.110	0.0	0.0	0.0
2184	65.400	63.496	-0.110	0.0	0.0	0.0
2208	65.400	63.496	-0.110	0.0	0.0	0.0
2232	65.400	63.496	-0.110	0.0	0.0	0.0
2256	65.400	63.496	-0.110	0.0	0.1	0.0
2280	65.400	63.496	-0.110	0.0	0.1	0.0
2304	65.400	63.496	-0.110	0.0	0.1	0.0
2328	65.400	63.496	-0.110	0.0	0.1	0.0
2352	65.400	63.496	-0.110	0.0	0.1	0.0
2376	65.400	63.496	-0.110	0.0	0.1	0.0
2400	65.400	63.496	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.496	-0.110	0.0	0.1	0.0
2448	65.400	63.496	-0.110	0.0	0.1	0.0
2472	65.400	63.497	-0.110	0.0	0.1	0.0
2496	65.400	63.497	-0.110	0.0	0.1	0.0
2520	65.400	63.497	-0.110	0.0	0.1	0.0
2544	65.400	63.497	-0.110	0.0	0.1	0.0
2568	65.400	63.497	-0.110	0.0	0.1	0.0
2592	65.400	63.497	-0.110	0.0	0.1	0.0
2616	65.400	63.497	-0.110	0.0	0.1	0.0
2640	65.400	63.497	-0.110	0.0	0.1	0.0
2664	65.400	63.497	-0.110	0.0	0.1	0.0
2688	65.400	63.497	-0.110	0.0	0.1	0.0
2712	65.400	63.497	-0.110	0.0	0.1	0.0
2736	65.400	63.497	-0.110	0.0	0.1	0.0
2760	65.400	63.498	-0.110	0.0	0.1	0.0
2784	65.400	63.498	-0.110	0.0	0.1	0.0
2808	65.400	63.498	-0.110	0.0	0.1	0.0
2832	65.401	63.498	-0.109	0.0	0.1	0.0
2856	65.401	63.498	-0.109	0.0	0.1	0.0
2880	65.401	63.498	-0.109	0.0	0.1	0.0
2904	65.401	63.499	-0.109	0.0	0.1	0.0
2928	65.401	63.499	-0.109	0.0	0.1	0.0
2952	65.401	63.499	-0.109	0.0	0.1	0.0
2976	65.401	63.499	-0.109	0.0	0.1	0.0
3000	65.401	63.499	-0.109	0.0	0.1	0.0
3024	65.401	63.499	-0.109	0.0	0.1	0.0
3048	65.401	63.500	-0.109	0.0	0.1	0.0
3072	65.401	63.500	-0.109	0.0	0.1	0.0
3096	65.401	63.500	-0.109	0.0	0.1	0.0
3120	65.401	63.500	-0.109	0.0	0.2	0.0
3144	65.401	63.500	-0.109	0.0	0.2	0.0
3168	65.401	63.500	-0.109	0.0	0.2	0.0
3192	65.401	63.501	-0.109	0.0	0.2	0.0
3216	65.401	63.501	-0.109	0.0	0.2	0.0
3240	65.401	63.501	-0.109	0.0	0.2	0.0
3264	65.401	63.502	-0.109	0.0	0.2	0.0
3288	65.401	63.502	-0.109	0.0	0.2	0.0
3312	65.401	63.502	-0.109	0.0	0.2	0.0
3336	65.401	63.502	-0.109	0.0	0.2	0.1
3360	65.401	63.502	-0.109	0.0	0.2	0.1
3384	65.401	63.502	-0.109	0.0	0.2	0.1
3408	65.401	63.503	-0.109	0.0	0.2	0.1
3432	65.401	63.503	-0.109	0.0	0.2	0.1
3456	65.401	63.503	-0.109	0.0	0.2	0.1
3480	65.401	63.504	-0.109	0.0	0.3	0.1
3504	65.401	63.504	-0.109	0.0	0.3	0.1
3528	65.401	63.504	-0.109	0.0	0.3	0.1
3552	65.401	63.505	-0.109	0.0	0.3	0.1
3576	65.401	63.505	-0.109	0.0	0.3	0.1
3600	65.401	63.505	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.505	-0.109	0.0	0.3	0.1
3648	65.401	63.505	-0.109	0.0	0.3	0.1
3672	65.401	63.505	-0.109	0.0	0.3	0.1
3696	65.401	63.504	-0.109	0.0	0.3	0.1
3720	65.401	63.504	-0.109	0.0	0.3	0.1
3744	65.401	63.504	-0.109	0.0	0.3	0.1
3768	65.401	63.503	-0.109	0.0	0.2	0.1
3792	65.401	63.503	-0.109	0.0	0.2	0.1
3816	65.401	63.504	-0.109	0.0	0.2	0.1
3840	65.401	63.505	-0.109	0.0	0.2	0.1
3864	65.401	63.506	-0.109	0.0	0.2	0.1
3888	65.401	63.509	-0.109	0.0	0.2	0.1
3912	65.401	63.512	-0.109	0.0	0.2	0.0
3936	65.401	63.516	-0.109	0.0	0.2	0.0
3960	65.401	63.520	-0.109	0.0	0.2	0.0
3984	65.401	63.524	-0.109	0.0	0.2	0.0
4008	65.401	63.528	-0.109	0.0	0.2	0.0
4032	65.401	63.531	-0.109	0.0	0.2	0.0
4056	65.401	63.534	-0.109	0.0	0.2	0.0
4080	65.401	63.538	-0.109	0.0	0.2	0.0
4104	65.401	63.541	-0.109	0.0	0.2	0.0
4128	65.401	63.543	-0.109	0.0	0.1	0.0
4152	65.401	63.546	-0.109	0.0	0.1	0.0
4176	65.401	63.548	-0.109	0.0	0.1	0.0
4200	65.401	63.550	-0.109	0.0	0.1	0.0
4224	65.401	63.552	-0.109	0.0	0.1	0.0
4248	65.401	63.554	-0.109	0.0	0.1	0.0
4272	65.401	63.555	-0.109	0.0	0.1	0.0
4296	65.401	63.556	-0.109	0.0	0.1	0.0
4320	65.401	63.558	-0.109	0.0	0.1	0.0
4344	65.401	63.559	-0.109	0.0	0.1	0.0
4368	65.401	63.560	-0.109	0.0	0.1	0.0
4392	65.401	63.561	-0.109	0.0	0.1	0.0
4416	65.400	63.561	-0.110	0.0	0.1	0.0
4440	65.400	63.562	-0.110	0.0	0.1	0.0
4464	65.400	63.562	-0.110	0.0	0.1	0.0
4488	65.400	63.562	-0.110	0.0	0.1	0.0
4512	65.400	63.562	-0.110	0.0	0.1	0.0
4536	65.400	63.562	-0.110	0.0	0.1	0.0
4560	65.400	63.562	-0.110	0.0	0.1	0.0
4584	65.400	63.562	-0.110	0.0	0.1	0.0
4608	65.400	63.561	-0.110	0.0	0.1	0.0
4632	65.400	63.561	-0.110	0.0	0.1	0.0
4656	65.400	63.560	-0.110	0.0	0.1	0.0
4680	65.400	63.559	-0.110	0.0	0.1	0.0
4704	65.400	63.558	-0.110	0.0	0.1	0.0
4728	65.400	63.558	-0.110	0.0	0.1	0.0
4752	65.400	63.557	-0.110	0.0	0.1	0.0
4776	65.400	63.556	-0.110	0.0	0.1	0.0
4800	65.400	63.555	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.554	-0.110	0.0	0.1	0.0
4848	65.400	63.552	-0.110	0.0	0.1	0.0
4872	65.400	63.552	-0.110	0.0	0.1	0.0
4896	65.400	63.550	-0.110	0.0	0.1	0.0
4920	65.400	63.549	-0.110	0.0	0.1	0.0
4944	65.400	63.547	-0.110	0.0	0.1	0.0
4968	65.400	63.546	-0.110	0.0	0.1	0.0
4992	65.400	63.544	-0.110	0.0	0.0	0.0
5016	65.400	63.543	-0.110	0.0	0.0	0.0
5040	65.400	63.541	-0.110	0.0	0.0	0.0
5064	65.400	63.539	-0.110	0.0	0.0	0.0
5088	65.400	63.538	-0.110	0.0	0.0	0.0
5112	65.400	63.535	-0.110	0.0	0.0	0.0
5136	65.400	63.535	-0.110	0.0	0.0	0.0
5160	65.400	63.533	-0.110	0.0	0.0	0.0
5184	65.400	63.531	-0.110	0.0	0.0	0.0
5208	65.400	63.529	-0.110	0.0	0.0	0.0
5232	65.400	63.528	-0.110	0.0	0.0	0.0
5256	65.400	63.526	-0.110	0.0	0.0	0.0
5280	65.400	63.524	-0.110	0.0	0.0	0.0
5304	65.400	63.523	-0.110	0.0	0.0	0.0
5328	65.400	63.520	-0.110	0.0	0.0	0.0
5352	65.400	63.518	-0.110	0.0	0.0	0.0
5376	65.400	63.517	-0.110	0.0	0.0	0.0
5400	65.400	63.515	-0.110	0.0	0.0	0.0
5424	65.400	63.513	-0.110	0.0	0.0	0.0
5448	65.400	63.511	-0.110	0.0	0.0	0.0
5472	65.400	63.511	-0.110	0.0	0.0	0.0
5496	65.400	63.508	-0.110	0.0	0.0	0.0
5520	65.400	63.507	-0.110	0.0	0.0	0.0
5544	65.400	63.504	-0.110	0.0	0.0	0.0
5568	65.400	63.504	-0.110	0.0	0.0	0.0
5592	65.400	63.500	-0.110	0.0	0.0	0.0
5616	65.400	63.499	-0.110	0.0	0.0	0.0
5640	65.400	63.499	-0.110	0.0	0.0	0.0
5664	65.400	63.497	-0.110	0.0	0.0	0.0
5688	65.400	63.497	-0.110	0.0	0.0	0.0
5712	65.400	63.496	-0.110	0.0	0.0	0.0
5736	65.400	63.496	-0.110	0.0	0.0	0.0
5760	65.400	63.496	-0.110	0.0	0.0	0.0
5784	65.400	63.496	-0.110	0.0	0.0	0.0
5808	65.400	63.495	-0.110	0.0	0.0	0.0
5832	65.400	63.495	-0.110	0.0	0.0	0.0
5856	65.400	63.495	-0.110	0.0	0.0	0.0
5880	65.400	63.495	-0.110	0.0	0.0	0.0
5904	65.400	63.495	-0.110	0.0	0.0	0.0
5928	65.400	63.495	-0.110	0.0	0.0	0.0
5952	65.400	63.495	-0.110	0.0	0.0	0.0
5976	65.400	63.495	-0.110	0.0	0.0	0.0
6000	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.495	-0.110	0.0	0.0	0.0
6048	65.400	63.495	-0.110	0.0	0.0	0.0
6072	65.400	63.495	-0.110	0.0	0.0	0.0
6096	65.400	63.495	-0.110	0.0	0.0	0.0
6120	65.400	63.495	-0.110	0.0	0.0	0.0
6144	65.400	63.495	-0.110	0.0	0.0	0.0
6168	65.400	63.495	-0.110	0.0	0.0	0.0
6192	65.400	63.495	-0.110	0.0	0.0	0.0
6216	65.400	63.495	-0.110	0.0	0.0	0.0
6240	65.400	63.495	-0.110	0.0	0.0	0.0
6264	65.400	63.495	-0.110	0.0	0.0	0.0
6288	65.400	63.495	-0.110	0.0	0.0	0.0
6312	65.400	63.495	-0.110	0.0	0.0	0.0
6336	65.400	63.495	-0.110	0.0	0.0	0.0
6360	65.400	63.495	-0.110	0.0	0.0	0.0
6384	65.400	63.495	-0.110	0.0	0.0	0.0
6408	65.400	63.495	-0.110	0.0	0.0	0.0
6432	65.400	63.495	-0.110	0.0	0.0	0.0
6456	65.400	63.495	-0.110	0.0	0.0	0.0
6480	65.400	63.495	-0.110	0.0	0.0	0.0
6504	65.400	63.495	-0.110	0.0	0.0	0.0
6528	65.400	63.495	-0.110	0.0	0.0	0.0
6552	65.400	63.495	-0.110	0.0	0.0	0.0
6576	65.400	63.495	-0.110	0.0	0.0	0.0
6600	65.400	63.495	-0.110	0.0	0.0	0.0
6624	65.400	63.495	-0.110	0.0	0.0	0.0
6648	65.400	63.495	-0.110	0.0	0.0	0.0
6672	65.400	63.495	-0.110	0.0	0.0	0.0
6696	65.400	63.495	-0.110	0.0	0.0	0.0
6720	65.400	63.495	-0.110	0.0	0.0	0.0
6744	65.400	63.495	-0.110	0.0	0.0	0.0
6768	65.400	63.495	-0.110	0.0	0.0	0.0
6792	65.400	63.495	-0.110	0.0	0.0	0.0
6816	65.400	63.495	-0.110	0.0	0.0	0.0
6840	65.400	63.495	-0.110	0.0	0.0	0.0
6864	65.400	63.495	-0.110	0.0	0.0	0.0
6888	65.400	63.495	-0.110	0.0	0.0	0.0
6912	65.400	63.495	-0.110	0.0	0.0	0.0
6936	65.400	63.495	-0.110	0.0	0.0	0.0
6960	65.400	63.495	-0.110	0.0	0.0	0.0
6984	65.400	63.495	-0.110	0.0	0.0	0.0
7008	65.400	63.495	-0.110	0.0	0.0	0.0
7032	65.400	63.495	-0.110	0.0	0.0	0.0
7056	65.400	63.495	-0.110	0.0	0.0	0.0
7080	65.400	63.495	-0.110	0.0	0.0	0.0
7104	65.400	63.495	-0.110	0.0	0.0	0.0
7128	65.400	63.495	-0.110	0.0	0.0	0.0
7152	65.400	63.495	-0.110	0.0	0.0	0.0
7176	65.400	63.495	-0.110	0.0	0.0	0.0
7200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.446	-0.109	0.0	0.0	0.0
48	63.495	63.446	-0.109	0.0	0.0	0.0
72	63.495	63.446	-0.109	0.0	0.0	0.0
96	63.495	63.446	-0.109	0.0	0.0	0.0
120	63.495	63.446	-0.109	0.0	0.0	0.0
144	63.495	63.446	-0.109	0.0	0.0	0.0
168	63.495	63.446	-0.109	0.0	0.0	0.0
192	63.495	63.446	-0.109	0.0	0.0	0.0
216	63.495	63.446	-0.109	0.0	0.0	0.0
240	63.495	63.446	-0.109	0.0	0.0	0.0
264	63.495	63.446	-0.109	0.0	0.0	0.0
288	63.495	63.446	-0.109	0.0	0.0	0.0
312	63.495	63.446	-0.109	0.0	0.0	0.0
336	63.495	63.446	-0.109	0.0	0.0	0.0
360	63.495	63.446	-0.109	0.0	0.0	0.0
384	63.495	63.446	-0.109	0.0	0.1	0.0
408	63.495	63.446	-0.109	0.0	0.1	0.0
432	63.495	63.446	-0.109	0.0	0.1	0.0
456	63.495	63.446	-0.109	0.0	0.1	0.0
480	63.495	63.446	-0.109	0.0	0.1	0.0
504	63.495	63.446	-0.109	0.0	0.1	0.0
528	63.495	63.446	-0.109	0.0	0.1	0.0
552	63.495	63.446	-0.109	0.0	0.1	0.0
576	63.495	63.446	-0.109	0.0	0.1	0.0
600	63.495	63.446	-0.109	0.0	0.1	0.0
624	63.495	63.446	-0.109	0.0	0.1	0.0
648	63.495	63.446	-0.109	0.0	0.1	0.0
672	63.495	63.446	-0.109	0.0	0.1	0.0
696	63.495	63.446	-0.109	0.0	0.1	0.0
720	63.495	63.446	-0.109	0.0	0.1	0.0
744	63.495	63.446	-0.109	0.0	0.1	0.0
768	63.495	63.446	-0.109	0.0	0.1	0.0
792	63.495	63.446	-0.109	0.0	0.1	0.0
816	63.495	63.446	-0.109	0.0	0.1	0.0
840	63.495	63.446	-0.109	0.0	0.1	0.0
864	63.495	63.446	-0.109	0.0	0.1	0.0
888	63.495	63.446	-0.109	0.0	0.1	0.0
912	63.495	63.446	-0.109	0.0	0.1	0.0
936	63.495	63.446	-0.109	0.0	0.1	0.0
960	63.495	63.446	-0.109	0.0	0.1	0.0
984	63.495	63.446	-0.109	0.0	0.1	0.0
1008	63.495	63.446	-0.109	0.0	0.1	0.0
1032	63.495	63.446	-0.109	0.0	0.1	0.0
1056	63.495	63.446	-0.109	0.0	0.1	0.0
1080	63.495	63.446	-0.109	0.0	0.1	0.0
1104	63.495	63.446	-0.109	0.0	0.1	0.0
1128	63.495	63.446	-0.109	0.0	0.1	0.0
1152	63.495	63.446	-0.109	0.0	0.1	0.0
1176	63.495	63.446	-0.109	0.0	0.1	0.0
1200	63.495	63.446	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.446	-0.109	0.0	0.1	0.0
1248	63.495	63.446	-0.109	0.0	0.1	0.0
1272	63.495	63.446	-0.109	0.0	0.1	0.0
1296	63.495	63.446	-0.109	0.0	0.1	0.0
1320	63.495	63.446	-0.109	0.0	0.1	0.0
1344	63.495	63.446	-0.109	0.0	0.1	0.0
1368	63.495	63.446	-0.109	0.0	0.1	0.0
1392	63.495	63.446	-0.109	0.0	0.1	0.0
1416	63.495	63.446	-0.109	0.0	0.1	0.0
1440	63.495	63.446	-0.109	0.0	0.1	0.0
1464	63.495	63.446	-0.109	0.0	0.1	0.0
1488	63.495	63.446	-0.109	0.0	0.1	0.0
1512	63.495	63.446	-0.109	0.0	0.1	0.0
1536	63.495	63.447	-0.109	0.0	0.1	0.0
1560	63.495	63.447	-0.109	0.0	0.1	0.0
1584	63.495	63.447	-0.109	0.0	0.1	0.0
1608	63.495	63.447	-0.109	0.0	0.1	0.0
1632	63.495	63.447	-0.109	0.0	0.1	0.0
1656	63.495	63.447	-0.109	0.0	0.1	0.0
1680	63.495	63.447	-0.109	0.0	0.1	0.0
1704	63.495	63.447	-0.109	0.0	0.1	0.0
1728	63.495	63.447	-0.109	0.0	0.1	0.0
1752	63.496	63.447	-0.109	0.0	0.1	0.0
1776	63.496	63.447	-0.109	0.0	0.1	0.0
1800	63.496	63.447	-0.109	0.0	0.1	0.0
1824	63.496	63.447	-0.109	0.0	0.1	0.0
1848	63.496	63.447	-0.109	0.0	0.1	0.0
1872	63.496	63.447	-0.109	0.0	0.1	0.0
1896	63.496	63.447	-0.108	0.0	0.1	0.0
1920	63.496	63.447	-0.108	0.0	0.1	0.0
1944	63.496	63.447	-0.108	0.0	0.1	0.0
1968	63.496	63.447	-0.108	0.0	0.1	0.0
1992	63.496	63.447	-0.108	0.0	0.1	0.0
2016	63.496	63.447	-0.108	0.0	0.1	0.0
2040	63.496	63.447	-0.108	0.0	0.1	0.0
2064	63.496	63.447	-0.108	0.0	0.1	0.0
2088	63.496	63.447	-0.108	0.0	0.1	0.0
2112	63.496	63.447	-0.108	0.0	0.1	0.0
2136	63.496	63.447	-0.108	0.0	0.1	0.0
2160	63.496	63.447	-0.108	0.0	0.1	0.0
2184	63.496	63.448	-0.108	0.0	0.1	0.0
2208	63.496	63.448	-0.108	0.0	0.1	0.0
2232	63.496	63.448	-0.108	0.0	0.1	0.0
2256	63.496	63.448	-0.108	0.0	0.1	0.0
2280	63.496	63.448	-0.108	0.0	0.1	0.0
2304	63.496	63.448	-0.108	0.0	0.1	0.0
2328	63.496	63.448	-0.108	0.0	0.1	0.0
2352	63.496	63.448	-0.108	0.0	0.1	0.0
2376	63.496	63.448	-0.108	0.0	0.1	0.0
2400	63.496	63.448	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.496	63.448	-0.108	0.0	0.1	0.0
2448	63.496	63.448	-0.108	0.0	0.1	0.0
2472	63.497	63.449	-0.108	0.0	0.1	0.0
2496	63.497	63.449	-0.108	0.0	0.1	0.0
2520	63.497	63.449	-0.108	0.0	0.1	0.0
2544	63.497	63.449	-0.107	0.0	0.1	0.0
2568	63.497	63.449	-0.107	0.0	0.1	0.0
2592	63.497	63.449	-0.107	0.0	0.1	0.0
2616	63.497	63.450	-0.107	0.0	0.2	0.0
2640	63.497	63.450	-0.107	0.0	0.2	0.0
2664	63.497	63.450	-0.107	0.0	0.2	0.0
2688	63.497	63.450	-0.107	0.0	0.2	0.0
2712	63.497	63.450	-0.107	0.0	0.2	0.0
2736	63.497	63.450	-0.107	0.0	0.2	0.0
2760	63.498	63.451	-0.106	0.0	0.2	0.0
2784	63.498	63.451	-0.106	0.0	0.2	0.0
2808	63.498	63.451	-0.106	0.0	0.2	0.0
2832	63.498	63.452	-0.106	0.0	0.2	0.1
2856	63.498	63.452	-0.106	0.0	0.2	0.1
2880	63.498	63.452	-0.106	0.0	0.2	0.1
2904	63.499	63.452	-0.105	0.0	0.2	0.1
2928	63.499	63.452	-0.105	0.0	0.2	0.1
2952	63.499	63.452	-0.105	0.0	0.2	0.1
2976	63.499	63.454	-0.105	0.0	0.3	0.1
3000	63.499	63.454	-0.105	0.0	0.3	0.1
3024	63.499	63.454	-0.105	0.0	0.3	0.1
3048	63.500	63.455	-0.104	0.0	0.3	0.1
3072	63.500	63.455	-0.104	0.0	0.3	0.1
3096	63.500	63.455	-0.104	0.0	0.3	0.1
3120	63.500	63.455	-0.104	0.0	0.3	0.1
3144	63.500	63.455	-0.104	0.0	0.3	0.1
3168	63.500	63.455	-0.104	0.0	0.3	0.1
3192	63.501	63.456	-0.103	0.0	0.4	0.1
3216	63.501	63.456	-0.103	0.0	0.4	0.1
3240	63.501	63.456	-0.103	0.0	0.4	0.1
3264	63.502	63.456	-0.103	0.0	0.3	0.1
3288	63.502	63.456	-0.103	0.0	0.3	0.1
3312	63.502	63.456	-0.103	0.0	0.3	0.1
3336	63.502	63.456	-0.102	0.0	0.3	0.1
3360	63.502	63.456	-0.102	0.0	0.3	0.1
3384	63.502	63.456	-0.102	0.0	0.3	0.1
3408	63.503	63.457	-0.101	0.0	0.3	0.1
3432	63.503	63.457	-0.101	0.0	0.3	0.1
3456	63.503	63.457	-0.101	0.0	0.3	0.1
3480	63.504	63.457	-0.100	0.0	0.3	0.1
3504	63.504	63.457	-0.100	0.0	0.3	0.1
3528	63.504	63.457	-0.100	0.0	0.3	0.1
3552	63.505	63.458	-0.099	0.0	0.3	0.1
3576	63.505	63.458	-0.099	0.0	0.3	0.1
3600	63.505	63.458	-0.099	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.505	63.458	-0.099	0.0	0.3	0.1
3648	63.505	63.458	-0.099	0.0	0.3	0.1
3672	63.505	63.459	-0.099	0.0	0.3	0.1
3696	63.504	63.462	-0.100	0.0	0.3	0.1
3720	63.504	63.467	-0.100	0.0	0.3	0.1
3744	63.504	63.473	-0.100	0.0	0.3	0.1
3768	63.503	63.479	-0.101	0.0	0.3	0.1
3792	63.503	63.485	-0.101	0.0	0.3	0.1
3816	63.504	63.491	-0.100	0.0	0.3	0.1
3840	63.505	63.496	-0.099	0.0	0.2	0.1
3864	63.506	63.501	-0.098	0.0	0.2	0.1
3888	63.509	63.506	-0.096	0.0	0.2	0.1
3912	63.512	63.511	-0.092	0.0	0.1	0.1
3936	63.516	63.515	-0.088	0.0	0.1	0.1
3960	63.520	63.520	-0.084	0.0	0.1	0.1
3984	63.524	63.524	-0.080	0.0	0.0	0.1
4008	63.528	63.527	-0.076	0.0	0.0	0.1
4032	63.531	63.531	-0.073	0.0	0.0	0.1
4056	63.534	63.534	-0.070	0.0	0.0	0.1
4080	63.538	63.537	-0.067	0.0	0.0	0.1
4104	63.541	63.540	-0.064	0.0	0.0	0.1
4128	63.543	63.543	-0.061	0.0	0.0	0.1
4152	63.546	63.545	-0.059	0.0	0.0	0.1
4176	63.548	63.548	-0.056	0.0	0.0	0.1
4200	63.550	63.550	-0.054	0.0	0.0	0.1
4224	63.552	63.551	-0.053	0.0	0.0	0.1
4248	63.554	63.553	-0.051	0.0	0.0	0.1
4272	63.555	63.555	-0.049	0.0	0.0	0.1
4296	63.556	63.556	-0.048	0.0	0.0	0.1
4320	63.558	63.558	-0.046	0.0	0.0	0.1
4344	63.559	63.559	-0.045	0.0	0.0	0.1
4368	63.560	63.559	-0.044	0.0	0.0	0.1
4392	63.561	63.560	-0.044	0.0	0.0	0.1
4416	63.561	63.561	-0.043	0.0	0.0	0.0
4440	63.562	63.561	-0.043	0.0	0.0	0.0
4464	63.562	63.562	-0.042	0.0	0.0	0.0
4488	63.562	63.562	-0.042	0.0	0.0	0.0
4512	63.562	63.562	-0.042	0.0	0.0	0.0
4536	63.562	63.562	-0.042	0.0	0.0	0.0
4560	63.562	63.562	-0.042	0.0	0.0	0.0
4584	63.562	63.561	-0.043	0.0	0.0	0.0
4608	63.561	63.561	-0.043	0.0	0.0	0.0
4632	63.561	63.560	-0.043	0.0	0.0	0.0
4656	63.560	63.560	-0.044	0.0	0.0	0.0
4680	63.559	63.559	-0.045	0.0	0.0	0.0
4704	63.558	63.558	-0.046	0.0	0.0	0.0
4728	63.558	63.557	-0.047	0.0	0.0	0.0
4752	63.557	63.557	-0.047	0.0	0.0	0.0
4776	63.556	63.556	-0.048	0.0	0.0	0.0
4800	63.555	63.554	-0.050	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.554	63.553	-0.051	0.0	0.0	0.0
4848	63.552	63.552	-0.052	0.0	0.0	0.0
4872	63.552	63.551	-0.053	0.0	0.0	0.0
4896	63.550	63.550	-0.054	0.0	0.0	0.0
4920	63.549	63.548	-0.056	0.0	0.0	0.0
4944	63.547	63.547	-0.057	0.0	0.0	0.0
4968	63.546	63.546	-0.058	0.0	0.0	0.0
4992	63.544	63.544	-0.060	0.0	0.0	0.0
5016	63.543	63.543	-0.061	0.0	0.0	0.0
5040	63.541	63.541	-0.063	0.0	0.0	0.0
5064	63.539	63.540	-0.066	0.0	0.0	0.0
5088	63.538	63.538	-0.066	0.0	0.0	0.0
5112	63.535	63.536	-0.069	0.0	0.0	0.0
5136	63.535	63.535	-0.070	0.0	0.0	0.0
5160	63.533	63.533	-0.071	0.0	0.0	0.0
5184	63.531	63.531	-0.073	0.0	0.0	0.0
5208	63.529	63.530	-0.075	0.0	0.0	0.0
5232	63.528	63.528	-0.076	0.0	0.0	0.0
5256	63.526	63.526	-0.078	0.0	0.0	0.0
5280	63.524	63.524	-0.080	0.0	0.0	0.0
5304	63.523	63.523	-0.082	0.0	0.0	0.0
5328	63.520	63.521	-0.084	0.0	0.0	0.0
5352	63.518	63.519	-0.086	0.0	0.0	0.0
5376	63.517	63.517	-0.087	0.0	0.0	0.0
5400	63.515	63.515	-0.089	0.0	0.0	0.0
5424	63.513	63.513	-0.091	0.0	0.0	0.0
5448	63.511	63.512	-0.093	0.0	0.0	0.0
5472	63.511	63.510	-0.093	0.0	0.0	0.0
5496	63.508	63.508	-0.096	0.0	0.0	0.0
5520	63.507	63.506	-0.097	0.0	0.0	0.0
5544	63.504	63.504	-0.100	0.0	0.0	0.0
5568	63.504	63.502	-0.100	0.0	0.0	0.0
5592	63.500	63.500	-0.104	0.0	0.1	0.0
5616	63.499	63.498	-0.106	0.0	0.1	0.0
5640	63.499	63.496	-0.105	0.0	0.1	0.0
5664	63.497	63.494	-0.107	0.0	0.1	0.0
5688	63.497	63.492	-0.108	0.0	0.1	0.0
5712	63.496	63.490	-0.108	0.0	0.1	0.0
5736	63.496	63.488	-0.108	0.0	0.1	0.0
5760	63.496	63.486	-0.108	0.0	0.1	0.0
5784	63.496	63.484	-0.109	0.0	0.1	0.0
5808	63.495	63.482	-0.109	0.0	0.1	0.0
5832	63.495	63.480	-0.109	0.0	0.1	0.0
5856	63.495	63.478	-0.109	0.0	0.1	0.0
5880	63.495	63.476	-0.109	0.0	0.1	0.0
5904	63.495	63.474	-0.109	0.0	0.1	0.0
5928	63.495	63.472	-0.109	0.0	0.1	0.0
5952	63.495	63.469	-0.109	0.0	0.1	0.0
5976	63.495	63.467	-0.109	0.0	0.1	0.0
6000	63.495	63.465	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.495	63.463	-0.109	0.0	0.1	0.0
6048	63.495	63.461	-0.109	0.0	0.1	0.0
6072	63.495	63.459	-0.109	0.0	0.1	0.0
6096	63.495	63.457	-0.109	0.0	0.1	0.0
6120	63.495	63.455	-0.109	0.0	0.1	0.0
6144	63.495	63.454	-0.109	0.0	0.1	0.0
6168	63.495	63.451	-0.109	0.0	0.1	0.0
6192	63.495	63.449	-0.109	0.0	0.1	0.0
6216	63.495	63.448	-0.109	0.0	0.1	0.0
6240	63.495	63.447	-0.109	0.0	0.1	0.0
6264	63.495	63.447	-0.109	0.0	0.1	0.0
6288	63.495	63.447	-0.109	0.0	0.1	0.0
6312	63.495	63.446	-0.109	0.0	0.1	0.0
6336	63.495	63.446	-0.109	0.0	0.1	0.0
6360	63.495	63.446	-0.109	0.0	0.1	0.0
6384	63.495	63.446	-0.109	0.0	0.1	0.0
6408	63.495	63.446	-0.109	0.0	0.1	0.0
6432	63.495	63.446	-0.109	0.0	0.1	0.0
6456	63.495	63.446	-0.109	0.0	0.1	0.0
6480	63.495	63.446	-0.109	0.0	0.1	0.0
6504	63.495	63.446	-0.109	0.0	0.1	0.0
6528	63.495	63.446	-0.109	0.0	0.1	0.0
6552	63.495	63.446	-0.109	0.0	0.1	0.0
6576	63.495	63.446	-0.109	0.0	0.1	0.0
6600	63.495	63.446	-0.109	0.0	0.1	0.0
6624	63.495	63.446	-0.109	0.0	0.1	0.0
6648	63.495	63.446	-0.109	0.0	0.1	0.0
6672	63.495	63.446	-0.109	0.0	0.1	0.0
6696	63.495	63.446	-0.109	0.0	0.1	0.0
6720	63.495	63.446	-0.109	0.0	0.1	0.0
6744	63.495	63.446	-0.109	0.0	0.1	0.0
6768	63.495	63.446	-0.109	0.0	0.1	0.0
6792	63.495	63.446	-0.109	0.0	0.1	0.0
6816	63.495	63.446	-0.109	0.0	0.1	0.0
6840	63.495	63.446	-0.109	0.0	0.1	0.0
6864	63.495	63.446	-0.109	0.0	0.0	0.0
6888	63.495	63.446	-0.109	0.0	0.0	0.0
6912	63.495	63.446	-0.109	0.0	0.0	0.0
6936	63.495	63.446	-0.109	0.0	0.0	0.0
6960	63.495	63.446	-0.109	0.0	0.0	0.0
6984	63.495	63.446	-0.109	0.0	0.0	0.0
7008	63.495	63.446	-0.109	0.0	0.0	0.0
7032	63.495	63.446	-0.109	0.0	0.0	0.0
7056	63.495	63.446	-0.109	0.0	0.0	0.0
7080	63.495	63.446	-0.109	0.0	0.0	0.0
7104	63.495	63.446	-0.109	0.0	0.0	0.0
7128	63.495	63.446	-0.109	0.0	0.0	0.0
7152	63.495	63.446	-0.109	0.0	0.0	0.0
7176	63.495	63.446	-0.109	0.0	0.0	0.0
7200	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.1	0.0
2280	65.400	65.000	-0.110	0.0	0.1	0.0
2304	65.400	65.000	-0.110	0.0	0.1	0.0
2328	65.400	65.000	-0.110	0.0	0.1	0.0
2352	65.400	65.000	-0.110	0.0	0.1	0.0
2376	65.400	65.000	-0.110	0.0	0.1	0.0
2400	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.001	-0.110	0.0	0.1	0.0
2448	65.400	65.001	-0.110	0.0	0.1	0.0
2472	65.400	65.001	-0.110	0.0	0.1	0.0
2496	65.400	65.001	-0.110	0.0	0.1	0.0
2520	65.400	65.001	-0.110	0.0	0.1	0.0
2544	65.400	65.001	-0.110	0.0	0.1	0.0
2568	65.400	65.001	-0.110	0.0	0.1	0.0
2592	65.400	65.001	-0.110	0.0	0.1	0.0
2616	65.400	65.001	-0.110	0.0	0.1	0.0
2640	65.400	65.001	-0.110	0.0	0.1	0.0
2664	65.400	65.001	-0.110	0.0	0.1	0.0
2688	65.401	65.001	-0.109	0.0	0.1	0.0
2712	65.401	65.001	-0.109	0.0	0.1	0.0
2736	65.401	65.001	-0.109	0.0	0.1	0.0
2760	65.401	65.001	-0.109	0.0	0.1	0.0
2784	65.401	65.001	-0.109	0.0	0.1	0.0
2808	65.401	65.001	-0.109	0.0	0.1	0.0
2832	65.401	65.001	-0.109	0.0	0.1	0.0
2856	65.401	65.001	-0.109	0.0	0.1	0.0
2880	65.401	65.001	-0.109	0.0	0.1	0.0
2904	65.401	65.001	-0.109	0.0	0.1	0.0
2928	65.401	65.001	-0.109	0.0	0.1	0.0
2952	65.401	65.001	-0.109	0.0	0.1	0.0
2976	65.401	65.001	-0.109	0.0	0.1	0.0
3000	65.401	65.001	-0.109	0.0	0.1	0.0
3024	65.401	65.001	-0.109	0.0	0.1	0.0
3048	65.401	65.001	-0.109	0.0	0.1	0.0
3072	65.401	65.001	-0.109	0.0	0.1	0.0
3096	65.401	65.001	-0.109	0.0	0.1	0.0
3120	65.401	65.001	-0.109	0.0	0.2	0.0
3144	65.401	65.001	-0.109	0.0	0.2	0.0
3168	65.401	65.001	-0.109	0.0	0.2	0.0
3192	65.401	65.002	-0.109	0.0	0.2	0.0
3216	65.401	65.002	-0.109	0.0	0.2	0.0
3240	65.401	65.002	-0.109	0.0	0.2	0.0
3264	65.401	65.002	-0.109	0.0	0.2	0.0
3288	65.401	65.002	-0.109	0.0	0.2	0.0
3312	65.401	65.002	-0.109	0.0	0.2	0.0
3336	65.401	65.002	-0.109	0.0	0.2	0.1
3360	65.401	65.002	-0.109	0.0	0.2	0.1
3384	65.401	65.002	-0.109	0.0	0.2	0.1
3408	65.401	65.002	-0.109	0.0	0.2	0.1
3432	65.401	65.002	-0.109	0.0	0.2	0.1
3456	65.401	65.002	-0.109	0.0	0.2	0.1
3480	65.402	65.002	-0.108	0.0	0.3	0.1
3504	65.402	65.002	-0.108	0.0	0.3	0.1
3528	65.402	65.002	-0.108	0.0	0.3	0.1
3552	65.402	65.002	-0.108	0.0	0.3	0.1
3576	65.402	65.002	-0.108	0.0	0.3	0.1
3600	65.402	65.002	-0.108	0.0	0.3	0.1

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.402	65.002	-0.108	0.0	0.3	0.1
3648	65.402	65.002	-0.108	0.0	0.3	0.1
3672	65.402	65.002	-0.108	0.0	0.3	0.1
3696	65.402	65.002	-0.108	0.0	0.3	0.1
3720	65.402	65.002	-0.108	0.0	0.3	0.1
3744	65.402	65.002	-0.108	0.0	0.3	0.1
3768	65.401	65.002	-0.109	0.0	0.2	0.1
3792	65.401	65.002	-0.109	0.0	0.2	0.1
3816	65.401	65.002	-0.109	0.0	0.2	0.1
3840	65.401	65.002	-0.109	0.0	0.2	0.1
3864	65.401	65.002	-0.109	0.0	0.2	0.1
3888	65.401	65.002	-0.109	0.0	0.2	0.1
3912	65.401	65.002	-0.109	0.0	0.2	0.0
3936	65.401	65.002	-0.109	0.0	0.2	0.0
3960	65.401	65.002	-0.109	0.0	0.2	0.0
3984	65.401	65.002	-0.109	0.0	0.2	0.0
4008	65.401	65.002	-0.109	0.0	0.2	0.0
4032	65.401	65.002	-0.109	0.0	0.2	0.0
4056	65.401	65.001	-0.109	0.0	0.2	0.0
4080	65.401	65.001	-0.109	0.0	0.2	0.0
4104	65.401	65.001	-0.109	0.0	0.2	0.0
4128	65.401	65.001	-0.109	0.0	0.1	0.0
4152	65.401	65.001	-0.109	0.0	0.1	0.0
4176	65.401	65.001	-0.109	0.0	0.1	0.0
4200	65.401	65.001	-0.109	0.0	0.1	0.0
4224	65.401	65.001	-0.109	0.0	0.1	0.0
4248	65.401	65.001	-0.109	0.0	0.1	0.0
4272	65.401	65.001	-0.109	0.0	0.1	0.0
4296	65.401	65.001	-0.109	0.0	0.1	0.0
4320	65.401	65.001	-0.109	0.0	0.1	0.0
4344	65.401	65.001	-0.109	0.0	0.1	0.0
4368	65.401	65.001	-0.109	0.0	0.1	0.0
4392	65.401	65.001	-0.109	0.0	0.1	0.0
4416	65.401	65.001	-0.109	0.0	0.1	0.0
4440	65.401	65.001	-0.109	0.0	0.1	0.0
4464	65.401	65.001	-0.109	0.0	0.1	0.0
4488	65.401	65.001	-0.109	0.0	0.1	0.0
4512	65.401	65.001	-0.109	0.0	0.1	0.0
4536	65.401	65.001	-0.109	0.0	0.1	0.0
4560	65.400	65.001	-0.110	0.0	0.1	0.0
4584	65.400	65.001	-0.110	0.0	0.1	0.0
4608	65.400	65.001	-0.110	0.0	0.1	0.0
4632	65.400	65.001	-0.110	0.0	0.1	0.0
4656	65.400	65.001	-0.110	0.0	0.1	0.0
4680	65.400	65.001	-0.110	0.0	0.1	0.0
4704	65.400	65.001	-0.110	0.0	0.1	0.0
4728	65.400	65.001	-0.110	0.0	0.1	0.0
4752	65.400	65.001	-0.110	0.0	0.1	0.0
4776	65.400	65.001	-0.110	0.0	0.1	0.0
4800	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	65.001	-0.110	0.0	0.1	0.0
4848	65.400	65.000	-0.110	0.0	0.1	0.0
4872	65.400	65.000	-0.110	0.0	0.1	0.0
4896	65.400	65.000	-0.110	0.0	0.1	0.0
4920	65.400	65.000	-0.110	0.0	0.1	0.0
4944	65.400	65.000	-0.110	0.0	0.1	0.0
4968	65.400	65.000	-0.110	0.0	0.1	0.0
4992	65.400	65.000	-0.110	0.0	0.0	0.0
5016	65.400	65.000	-0.110	0.0	0.0	0.0
5040	65.400	65.000	-0.110	0.0	0.0	0.0
5064	65.400	65.000	-0.110	0.0	0.0	0.0
5088	65.400	65.000	-0.110	0.0	0.0	0.0
5112	65.400	65.000	-0.110	0.0	0.0	0.0
5136	65.400	65.000	-0.110	0.0	0.0	0.0
5160	65.400	65.000	-0.110	0.0	0.0	0.0
5184	65.400	65.000	-0.110	0.0	0.0	0.0
5208	65.400	65.000	-0.110	0.0	0.0	0.0
5232	65.400	65.000	-0.110	0.0	0.0	0.0
5256	65.400	65.000	-0.110	0.0	0.0	0.0
5280	65.400	65.000	-0.110	0.0	0.0	0.0
5304	65.400	65.000	-0.110	0.0	0.0	0.0
5328	65.400	65.000	-0.110	0.0	0.0	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.446	-0.110	0.0	0.0	0.0
48	65.000	63.446	-0.110	0.0	0.0	0.0
72	65.000	63.446	-0.110	0.0	0.0	0.0
96	65.000	63.446	-0.110	0.0	0.0	0.0
120	65.000	63.446	-0.110	0.0	0.0	0.0
144	65.000	63.446	-0.110	0.0	0.0	0.0
168	65.000	63.446	-0.110	0.0	0.0	0.0
192	65.000	63.446	-0.110	0.0	0.0	0.0
216	65.000	63.446	-0.110	0.0	0.0	0.0
240	65.000	63.446	-0.110	0.0	0.0	0.0
264	65.000	63.446	-0.110	0.0	0.0	0.0
288	65.000	63.446	-0.110	0.0	0.0	0.0
312	65.000	63.446	-0.110	0.0	0.0	0.0
336	65.000	63.446	-0.110	0.0	0.0	0.0
360	65.000	63.446	-0.110	0.0	0.0	0.0
384	65.000	63.446	-0.110	0.0	0.1	0.0
408	65.000	63.446	-0.110	0.0	0.1	0.0
432	65.000	63.446	-0.110	0.0	0.1	0.0
456	65.000	63.446	-0.110	0.0	0.1	0.0
480	65.000	63.446	-0.110	0.0	0.1	0.0
504	65.000	63.446	-0.110	0.0	0.1	0.0
528	65.000	63.446	-0.110	0.0	0.1	0.0
552	65.000	63.446	-0.110	0.0	0.1	0.0
576	65.000	63.446	-0.110	0.0	0.1	0.0
600	65.000	63.446	-0.110	0.0	0.1	0.0
624	65.000	63.446	-0.110	0.0	0.1	0.0
648	65.000	63.446	-0.110	0.0	0.1	0.0
672	65.000	63.446	-0.110	0.0	0.1	0.0
696	65.000	63.446	-0.110	0.0	0.1	0.0
720	65.000	63.446	-0.110	0.0	0.1	0.0
744	65.000	63.446	-0.110	0.0	0.1	0.0
768	65.000	63.446	-0.110	0.0	0.1	0.0
792	65.000	63.446	-0.110	0.0	0.1	0.0
816	65.000	63.446	-0.110	0.0	0.1	0.0
840	65.000	63.446	-0.110	0.0	0.1	0.0
864	65.000	63.446	-0.110	0.0	0.1	0.0
888	65.000	63.446	-0.110	0.0	0.1	0.0
912	65.000	63.446	-0.110	0.0	0.1	0.0
936	65.000	63.446	-0.110	0.0	0.1	0.0
960	65.000	63.446	-0.110	0.0	0.1	0.0
984	65.000	63.446	-0.110	0.0	0.1	0.0
1008	65.000	63.446	-0.110	0.0	0.1	0.0
1032	65.000	63.446	-0.110	0.0	0.1	0.0
1056	65.000	63.446	-0.110	0.0	0.1	0.0
1080	65.000	63.446	-0.110	0.0	0.1	0.0
1104	65.000	63.446	-0.110	0.0	0.1	0.0
1128	65.000	63.446	-0.110	0.0	0.1	0.0
1152	65.000	63.446	-0.110	0.0	0.1	0.0
1176	65.000	63.446	-0.110	0.0	0.1	0.0
1200	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.446	-0.110	0.0	0.1	0.0
1248	65.000	63.446	-0.110	0.0	0.1	0.0
1272	65.000	63.446	-0.110	0.0	0.1	0.0
1296	65.000	63.446	-0.110	0.0	0.1	0.0
1320	65.000	63.446	-0.110	0.0	0.1	0.0
1344	65.000	63.446	-0.110	0.0	0.1	0.0
1368	65.000	63.446	-0.110	0.0	0.1	0.0
1392	65.000	63.446	-0.110	0.0	0.1	0.0
1416	65.000	63.446	-0.110	0.0	0.1	0.0
1440	65.000	63.446	-0.110	0.0	0.1	0.0
1464	65.000	63.446	-0.110	0.0	0.1	0.0
1488	65.000	63.446	-0.110	0.0	0.1	0.0
1512	65.000	63.446	-0.110	0.0	0.1	0.0
1536	65.000	63.447	-0.110	0.0	0.1	0.0
1560	65.000	63.447	-0.110	0.0	0.1	0.0
1584	65.000	63.447	-0.110	0.0	0.1	0.0
1608	65.000	63.447	-0.110	0.0	0.1	0.0
1632	65.000	63.447	-0.110	0.0	0.1	0.0
1656	65.000	63.447	-0.110	0.0	0.1	0.0
1680	65.000	63.447	-0.110	0.0	0.1	0.0
1704	65.000	63.447	-0.110	0.0	0.1	0.0
1728	65.000	63.447	-0.110	0.0	0.1	0.0
1752	65.000	63.447	-0.110	0.0	0.1	0.0
1776	65.000	63.447	-0.110	0.0	0.1	0.0
1800	65.000	63.447	-0.110	0.0	0.1	0.0
1824	65.000	63.447	-0.110	0.0	0.1	0.0
1848	65.000	63.447	-0.110	0.0	0.1	0.0
1872	65.000	63.447	-0.110	0.0	0.1	0.0
1896	65.000	63.447	-0.110	0.0	0.1	0.0
1920	65.000	63.447	-0.110	0.0	0.1	0.0
1944	65.000	63.447	-0.110	0.0	0.1	0.0
1968	65.000	63.447	-0.110	0.0	0.1	0.0
1992	65.000	63.447	-0.110	0.0	0.1	0.0
2016	65.000	63.447	-0.110	0.0	0.1	0.0
2040	65.000	63.447	-0.110	0.0	0.1	0.0
2064	65.000	63.447	-0.110	0.0	0.1	0.0
2088	65.000	63.447	-0.110	0.0	0.1	0.0
2112	65.000	63.447	-0.110	0.0	0.1	0.0
2136	65.000	63.447	-0.110	0.0	0.1	0.0
2160	65.000	63.447	-0.110	0.0	0.1	0.0
2184	65.000	63.448	-0.110	0.0	0.1	0.0
2208	65.000	63.448	-0.110	0.0	0.1	0.0
2232	65.000	63.448	-0.110	0.0	0.1	0.0
2256	65.000	63.448	-0.110	0.0	0.1	0.0
2280	65.000	63.448	-0.110	0.0	0.1	0.0
2304	65.000	63.448	-0.110	0.0	0.1	0.0
2328	65.000	63.448	-0.110	0.0	0.1	0.0
2352	65.000	63.448	-0.110	0.0	0.1	0.0
2376	65.000	63.448	-0.110	0.0	0.1	0.0
2400	65.001	63.448	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.448	-0.109	0.0	0.1	0.0
2448	65.001	63.448	-0.109	0.0	0.1	0.0
2472	65.001	63.449	-0.109	0.0	0.1	0.0
2496	65.001	63.449	-0.109	0.0	0.1	0.0
2520	65.001	63.449	-0.109	0.0	0.1	0.0
2544	65.001	63.449	-0.109	0.0	0.1	0.0
2568	65.001	63.449	-0.109	0.0	0.1	0.0
2592	65.001	63.449	-0.109	0.0	0.1	0.0
2616	65.001	63.450	-0.109	0.0	0.2	0.0
2640	65.001	63.450	-0.109	0.0	0.2	0.0
2664	65.001	63.450	-0.109	0.0	0.2	0.0
2688	65.001	63.450	-0.109	0.0	0.2	0.0
2712	65.001	63.450	-0.109	0.0	0.2	0.0
2736	65.001	63.450	-0.109	0.0	0.2	0.0
2760	65.001	63.451	-0.109	0.0	0.2	0.0
2784	65.001	63.451	-0.109	0.0	0.2	0.0
2808	65.001	63.451	-0.109	0.0	0.2	0.0
2832	65.001	63.452	-0.109	0.0	0.2	0.1
2856	65.001	63.452	-0.109	0.0	0.2	0.1
2880	65.001	63.452	-0.109	0.0	0.2	0.1
2904	65.001	63.452	-0.109	0.0	0.2	0.1
2928	65.001	63.452	-0.109	0.0	0.2	0.1
2952	65.001	63.452	-0.109	0.0	0.2	0.1
2976	65.001	63.454	-0.109	0.0	0.3	0.1
3000	65.001	63.454	-0.109	0.0	0.3	0.1
3024	65.001	63.454	-0.109	0.0	0.3	0.1
3048	65.001	63.455	-0.109	0.0	0.3	0.1
3072	65.001	63.455	-0.109	0.0	0.3	0.1
3096	65.001	63.455	-0.109	0.0	0.3	0.1
3120	65.001	63.455	-0.109	0.0	0.3	0.1
3144	65.001	63.455	-0.109	0.0	0.3	0.1
3168	65.001	63.455	-0.109	0.0	0.3	0.1
3192	65.002	63.456	-0.108	0.0	0.4	0.1
3216	65.002	63.456	-0.108	0.0	0.4	0.1
3240	65.002	63.456	-0.108	0.0	0.4	0.1
3264	65.002	63.456	-0.108	0.0	0.4	0.1
3288	65.002	63.456	-0.108	0.0	0.4	0.1
3312	65.002	63.456	-0.108	0.0	0.4	0.1
3336	65.002	63.456	-0.108	0.0	0.4	0.1
3360	65.002	63.456	-0.108	0.0	0.4	0.1
3384	65.002	63.456	-0.108	0.0	0.4	0.1
3408	65.002	63.457	-0.108	0.0	0.5	0.1
3432	65.002	63.457	-0.108	0.0	0.5	0.1
3456	65.002	63.457	-0.108	0.0	0.5	0.1
3480	65.002	63.457	-0.108	0.0	0.5	0.1
3504	65.002	63.457	-0.108	0.0	0.5	0.1
3528	65.002	63.457	-0.108	0.0	0.5	0.1
3552	65.002	63.458	-0.108	0.0	0.6	0.1
3576	65.002	63.458	-0.108	0.0	0.6	0.1
3600	65.002	63.458	-0.108	0.0	0.6	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.002	63.458	-0.108	0.0	0.6	0.1
3648	65.002	63.458	-0.108	0.0	0.6	0.1
3672	65.002	63.459	-0.108	0.0	0.6	0.1
3696	65.002	63.462	-0.108	0.0	0.5	0.1
3720	65.002	63.467	-0.108	0.0	0.5	0.1
3744	65.002	63.473	-0.108	0.0	0.5	0.1
3768	65.002	63.479	-0.108	0.0	0.5	0.1
3792	65.002	63.485	-0.108	0.0	0.5	0.1
3816	65.002	63.491	-0.108	0.0	0.5	0.1
3840	65.002	63.496	-0.108	0.0	0.4	0.1
3864	65.002	63.501	-0.108	0.0	0.4	0.1
3888	65.002	63.506	-0.108	0.0	0.4	0.1
3912	65.002	63.511	-0.108	0.0	0.4	0.1
3936	65.002	63.515	-0.108	0.0	0.4	0.1
3960	65.002	63.520	-0.108	0.0	0.4	0.1
3984	65.002	63.524	-0.108	0.0	0.4	0.1
4008	65.002	63.527	-0.108	0.0	0.4	0.1
4032	65.002	63.531	-0.108	0.0	0.4	0.1
4056	65.001	63.534	-0.109	0.0	0.3	0.1
4080	65.001	63.537	-0.109	0.0	0.3	0.1
4104	65.001	63.540	-0.109	0.0	0.3	0.1
4128	65.001	63.543	-0.109	0.0	0.3	0.1
4152	65.001	63.545	-0.109	0.0	0.3	0.1
4176	65.001	63.548	-0.109	0.0	0.3	0.1
4200	65.001	63.550	-0.109	0.0	0.3	0.1
4224	65.001	63.551	-0.109	0.0	0.3	0.1
4248	65.001	63.553	-0.109	0.0	0.3	0.1
4272	65.001	63.555	-0.109	0.0	0.2	0.1
4296	65.001	63.556	-0.109	0.0	0.2	0.1
4320	65.001	63.558	-0.109	0.0	0.2	0.1
4344	65.001	63.559	-0.109	0.0	0.2	0.1
4368	65.001	63.559	-0.109	0.0	0.2	0.1
4392	65.001	63.560	-0.109	0.0	0.2	0.1
4416	65.001	63.561	-0.109	0.0	0.2	0.0
4440	65.001	63.561	-0.109	0.0	0.2	0.0
4464	65.001	63.562	-0.109	0.0	0.2	0.0
4488	65.001	63.562	-0.109	0.0	0.2	0.0
4512	65.001	63.562	-0.109	0.0	0.2	0.0
4536	65.001	63.562	-0.109	0.0	0.2	0.0
4560	65.001	63.562	-0.109	0.0	0.2	0.0
4584	65.001	63.561	-0.109	0.0	0.2	0.0
4608	65.001	63.561	-0.109	0.0	0.2	0.0
4632	65.001	63.560	-0.109	0.0	0.1	0.0
4656	65.001	63.560	-0.109	0.0	0.1	0.0
4680	65.001	63.559	-0.109	0.0	0.1	0.0
4704	65.001	63.558	-0.109	0.0	0.1	0.0
4728	65.001	63.557	-0.109	0.0	0.1	0.0
4752	65.001	63.557	-0.109	0.0	0.1	0.0
4776	65.001	63.556	-0.109	0.0	0.1	0.0
4800	65.001	63.554	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.001	63.553	-0.109	0.0	0.1	0.0
4848	65.000	63.552	-0.110	0.0	0.1	0.0
4872	65.000	63.551	-0.110	0.0	0.1	0.0
4896	65.000	63.550	-0.110	0.0	0.1	0.0
4920	65.000	63.548	-0.110	0.0	0.1	0.0
4944	65.000	63.547	-0.110	0.0	0.1	0.0
4968	65.000	63.546	-0.110	0.0	0.1	0.0
4992	65.000	63.544	-0.110	0.0	0.1	0.0
5016	65.000	63.543	-0.110	0.0	0.1	0.0
5040	65.000	63.541	-0.110	0.0	0.1	0.0
5064	65.000	63.540	-0.110	0.0	0.1	0.0
5088	65.000	63.538	-0.110	0.0	0.1	0.0
5112	65.000	63.536	-0.110	0.0	0.1	0.0
5136	65.000	63.535	-0.110	0.0	0.1	0.0
5160	65.000	63.533	-0.110	0.0	0.1	0.0
5184	65.000	63.531	-0.110	0.0	0.1	0.0
5208	65.000	63.530	-0.110	0.0	0.1	0.0
5232	65.000	63.528	-0.110	0.0	0.1	0.0
5256	65.000	63.526	-0.110	0.0	0.1	0.0
5280	65.000	63.524	-0.110	0.0	0.1	0.0
5304	65.000	63.523	-0.110	0.0	0.1	0.0
5328	65.000	63.521	-0.110	0.0	0.1	0.0
5352	65.000	63.519	-0.110	0.0	0.1	0.0
5376	65.000	63.517	-0.110	0.0	0.1	0.0
5400	65.000	63.515	-0.110	0.0	0.1	0.0
5424	65.000	63.513	-0.110	0.0	0.1	0.0
5448	65.000	63.512	-0.110	0.0	0.1	0.0
5472	65.000	63.510	-0.110	0.0	0.1	0.0
5496	65.000	63.508	-0.110	0.0	0.1	0.0
5520	65.000	63.506	-0.110	0.0	0.1	0.0
5544	65.000	63.504	-0.110	0.0	0.1	0.0
5568	65.000	63.502	-0.110	0.0	0.1	0.0
5592	65.000	63.500	-0.110	0.0	0.1	0.0
5616	65.000	63.498	-0.110	0.0	0.1	0.0
5640	65.000	63.496	-0.110	0.0	0.1	0.0
5664	65.000	63.494	-0.110	0.0	0.1	0.0
5688	65.000	63.492	-0.110	0.0	0.1	0.0
5712	65.000	63.490	-0.110	0.0	0.1	0.0
5736	65.000	63.488	-0.110	0.0	0.1	0.0
5760	65.000	63.486	-0.110	0.0	0.1	0.0
5784	65.000	63.484	-0.110	0.0	0.1	0.0
5808	65.000	63.482	-0.110	0.0	0.1	0.0
5832	65.000	63.480	-0.110	0.0	0.1	0.0
5856	65.000	63.478	-0.110	0.0	0.1	0.0
5880	65.000	63.476	-0.110	0.0	0.1	0.0
5904	65.000	63.474	-0.110	0.0	0.1	0.0
5928	65.000	63.472	-0.110	0.0	0.1	0.0
5952	65.000	63.469	-0.110	0.0	0.1	0.0
5976	65.000	63.467	-0.110	0.0	0.1	0.0
6000	65.000	63.465	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.463	-0.110	0.0	0.1	0.0
6048	65.000	63.461	-0.110	0.0	0.1	0.0
6072	65.000	63.459	-0.110	0.0	0.1	0.0
6096	65.000	63.457	-0.110	0.0	0.1	0.0
6120	65.000	63.455	-0.110	0.0	0.1	0.0
6144	65.000	63.454	-0.110	0.0	0.1	0.0
6168	65.000	63.451	-0.110	0.0	0.1	0.0
6192	65.000	63.449	-0.110	0.0	0.1	0.0
6216	65.000	63.448	-0.110	0.0	0.1	0.0
6240	65.000	63.447	-0.110	0.0	0.1	0.0
6264	65.000	63.447	-0.110	0.0	0.1	0.0
6288	65.000	63.447	-0.110	0.0	0.1	0.0
6312	65.000	63.446	-0.110	0.0	0.1	0.0
6336	65.000	63.446	-0.110	0.0	0.1	0.0
6360	65.000	63.446	-0.110	0.0	0.1	0.0
6384	65.000	63.446	-0.110	0.0	0.1	0.0
6408	65.000	63.446	-0.110	0.0	0.1	0.0
6432	65.000	63.446	-0.110	0.0	0.1	0.0
6456	65.000	63.446	-0.110	0.0	0.1	0.0
6480	65.000	63.446	-0.110	0.0	0.1	0.0
6504	65.000	63.446	-0.110	0.0	0.1	0.0
6528	65.000	63.446	-0.110	0.0	0.1	0.0
6552	65.000	63.446	-0.110	0.0	0.1	0.0
6576	65.000	63.446	-0.110	0.0	0.1	0.0
6600	65.000	63.446	-0.110	0.0	0.1	0.0
6624	65.000	63.446	-0.110	0.0	0.1	0.0
6648	65.000	63.446	-0.110	0.0	0.1	0.0
6672	65.000	63.446	-0.110	0.0	0.1	0.0
6696	65.000	63.446	-0.110	0.0	0.1	0.0
6720	65.000	63.446	-0.110	0.0	0.1	0.0
6744	65.000	63.446	-0.110	0.0	0.1	0.0
6768	65.000	63.446	-0.110	0.0	0.1	0.0
6792	65.000	63.446	-0.110	0.0	0.1	0.0
6816	65.000	63.446	-0.110	0.0	0.1	0.0
6840	65.000	63.446	-0.110	0.0	0.1	0.0
6864	65.000	63.446	-0.110	0.0	0.0	0.0
6888	65.000	63.446	-0.110	0.0	0.0	0.0
6912	65.000	63.446	-0.110	0.0	0.0	0.0
6936	65.000	63.446	-0.110	0.0	0.0	0.0
6960	65.000	63.446	-0.110	0.0	0.0	0.0
6984	65.000	63.446	-0.110	0.0	0.0	0.0
7008	65.000	63.446	-0.110	0.0	0.0	0.0
7032	65.000	63.446	-0.110	0.0	0.0	0.0
7056	65.000	63.446	-0.110	0.0	0.0	0.0
7080	65.000	63.446	-0.110	0.0	0.0	0.0
7104	65.000	63.446	-0.110	0.0	0.0	0.0
7128	65.000	63.446	-0.110	0.0	0.0	0.0
7152	65.000	63.446	-0.110	0.0	0.0	0.0
7176	65.000	63.446	-0.110	0.0	0.0	0.0
7200	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.446	63.251	-0.108	0.0	0.1	0.0
48	63.446	63.252	-0.108	0.0	0.1	0.0
72	63.446	63.253	-0.108	0.0	0.1	0.0
96	63.446	63.254	-0.108	0.0	0.1	0.0
120	63.446	63.255	-0.108	0.0	0.1	0.0
144	63.446	63.255	-0.108	0.0	0.1	0.0
168	63.446	63.256	-0.108	0.0	0.1	0.0
192	63.446	63.257	-0.108	0.0	0.1	0.0
216	63.446	63.257	-0.108	0.0	0.1	0.0
240	63.446	63.258	-0.108	0.0	0.1	0.0
264	63.446	63.259	-0.108	0.0	0.1	0.0
288	63.446	63.259	-0.108	0.0	0.1	0.0
312	63.446	63.259	-0.108	0.0	0.1	0.0
336	63.446	63.260	-0.108	0.0	0.1	0.0
360	63.446	63.260	-0.108	0.0	0.1	0.0
384	63.446	63.260	-0.108	0.0	0.1	0.0
408	63.446	63.260	-0.108	0.0	0.1	0.0
432	63.446	63.260	-0.108	0.0	0.1	0.0
456	63.446	63.261	-0.108	0.0	0.1	0.0
480	63.446	63.261	-0.108	0.0	0.1	0.0
504	63.446	63.261	-0.108	0.0	0.1	0.0
528	63.446	63.261	-0.108	0.0	0.1	0.0
552	63.446	63.261	-0.108	0.0	0.1	0.0
576	63.446	63.261	-0.108	0.0	0.1	0.0
600	63.446	63.261	-0.108	0.0	0.1	0.0
624	63.446	63.261	-0.108	0.0	0.1	0.0
648	63.446	63.261	-0.108	0.0	0.1	0.0
672	63.446	63.261	-0.108	0.0	0.1	0.0
696	63.446	63.261	-0.108	0.0	0.1	0.0
720	63.446	63.262	-0.108	0.0	0.1	0.0
744	63.446	63.262	-0.108	0.0	0.1	0.0
768	63.446	63.262	-0.108	0.0	0.1	0.0
792	63.446	63.262	-0.108	0.0	0.1	0.0
816	63.446	63.262	-0.108	0.0	0.1	0.0
840	63.446	63.262	-0.108	0.0	0.1	0.0
864	63.446	63.262	-0.108	0.0	0.1	0.0
888	63.446	63.262	-0.108	0.0	0.1	0.0
912	63.446	63.262	-0.108	0.0	0.1	0.0
936	63.446	63.262	-0.108	0.0	0.1	0.0
960	63.446	63.262	-0.108	0.0	0.1	0.0
984	63.446	63.262	-0.108	0.0	0.1	0.0
1008	63.446	63.262	-0.108	0.0	0.1	0.0
1032	63.446	63.262	-0.108	0.0	0.1	0.0
1056	63.446	63.262	-0.108	0.0	0.1	0.0
1080	63.446	63.262	-0.108	0.0	0.1	0.0
1104	63.446	63.262	-0.108	0.0	0.1	0.0
1128	63.446	63.262	-0.108	0.0	0.1	0.0
1152	63.446	63.263	-0.108	0.0	0.1	0.0
1176	63.446	63.263	-0.108	0.0	0.1	0.0
1200	63.446	63.263	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.446	63.263	-0.108	0.0	0.1	0.0
1248	63.446	63.263	-0.108	0.0	0.1	0.0
1272	63.446	63.263	-0.108	0.0	0.1	0.0
1296	63.446	63.263	-0.108	0.0	0.1	0.0
1320	63.446	63.263	-0.108	0.0	0.1	0.0
1344	63.446	63.263	-0.108	0.0	0.1	0.0
1368	63.446	63.263	-0.108	0.0	0.1	0.0
1392	63.446	63.263	-0.108	0.0	0.1	0.0
1416	63.446	63.263	-0.108	0.0	0.1	0.0
1440	63.446	63.263	-0.108	0.0	0.1	0.0
1464	63.446	63.263	-0.108	0.0	0.1	0.0
1488	63.446	63.264	-0.108	0.0	0.1	0.0
1512	63.446	63.264	-0.108	0.0	0.1	0.0
1536	63.447	63.264	-0.108	0.0	0.1	0.0
1560	63.447	63.264	-0.108	0.0	0.1	0.0
1584	63.447	63.264	-0.108	0.0	0.1	0.0
1608	63.447	63.264	-0.108	0.0	0.1	0.0
1632	63.447	63.264	-0.108	0.0	0.1	0.0
1656	63.447	63.264	-0.108	0.0	0.1	0.0
1680	63.447	63.264	-0.107	0.0	0.1	0.0
1704	63.447	63.264	-0.107	0.0	0.1	0.0
1728	63.447	63.264	-0.107	0.0	0.1	0.0
1752	63.447	63.264	-0.107	0.0	0.1	0.0
1776	63.447	63.265	-0.107	0.0	0.1	0.0
1800	63.447	63.265	-0.107	0.0	0.1	0.0
1824	63.447	63.265	-0.107	0.0	0.2	0.0
1848	63.447	63.265	-0.107	0.0	0.2	0.0
1872	63.447	63.265	-0.107	0.0	0.2	0.0
1896	63.447	63.265	-0.107	0.0	0.2	0.0
1920	63.447	63.265	-0.107	0.0	0.2	0.0
1944	63.447	63.265	-0.107	0.0	0.2	0.0
1968	63.447	63.265	-0.107	0.0	0.2	0.0
1992	63.447	63.265	-0.107	0.0	0.2	0.0
2016	63.447	63.266	-0.107	0.0	0.2	0.0
2040	63.447	63.266	-0.107	0.0	0.2	0.0
2064	63.447	63.266	-0.107	0.0	0.2	0.0
2088	63.447	63.266	-0.107	0.0	0.2	0.0
2112	63.447	63.266	-0.107	0.0	0.2	0.0
2136	63.447	63.266	-0.107	0.0	0.2	0.0
2160	63.447	63.266	-0.107	0.0	0.2	0.0
2184	63.448	63.267	-0.107	0.0	0.2	0.0
2208	63.448	63.267	-0.107	0.0	0.2	0.0
2232	63.448	63.267	-0.107	0.0	0.2	0.0
2256	63.448	63.267	-0.106	0.0	0.2	0.0
2280	63.448	63.267	-0.106	0.0	0.2	0.1
2304	63.448	63.267	-0.106	0.0	0.2	0.1
2328	63.448	63.268	-0.106	0.0	0.2	0.1
2352	63.448	63.268	-0.106	0.0	0.2	0.1
2376	63.448	63.268	-0.106	0.0	0.2	0.1
2400	63.448	63.269	-0.106	0.0	0.2	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.448	63.269	-0.106	0.0	0.2	0.1
2448	63.448	63.269	-0.106	0.0	0.2	0.1
2472	63.449	63.269	-0.105	0.0	0.3	0.1
2496	63.449	63.270	-0.105	0.0	0.3	0.1
2520	63.449	63.270	-0.105	0.0	0.3	0.1
2544	63.449	63.270	-0.105	0.0	0.3	0.1
2568	63.449	63.271	-0.105	0.0	0.3	0.1
2592	63.449	63.271	-0.105	0.0	0.3	0.1
2616	63.450	63.272	-0.104	0.0	0.3	0.1
2640	63.450	63.272	-0.104	0.0	0.3	0.1
2664	63.450	63.273	-0.104	0.0	0.3	0.1
2688	63.450	63.273	-0.104	0.0	0.3	0.1
2712	63.450	63.274	-0.104	0.0	0.4	0.1
2736	63.450	63.274	-0.104	0.0	0.4	0.1
2760	63.451	63.275	-0.103	0.0	0.4	0.1
2784	63.451	63.276	-0.103	0.0	0.4	0.1
2808	63.451	63.276	-0.103	0.0	0.4	0.1
2832	63.452	63.277	-0.102	0.0	0.4	0.1
2856	63.452	63.278	-0.102	0.0	0.4	0.1
2880	63.452	63.279	-0.102	0.0	0.4	0.1
2904	63.452	63.280	-0.102	0.0	0.4	0.1
2928	63.452	63.282	-0.102	0.0	0.4	0.1
2952	63.452	63.283	-0.102	0.0	0.4	0.1
2976	63.454	63.285	-0.100	0.0	0.3	0.1
3000	63.454	63.287	-0.100	0.0	0.3	0.1
3024	63.454	63.290	-0.100	0.0	0.3	0.1
3048	63.455	63.293	-0.099	0.0	0.3	0.1
3072	63.455	63.297	-0.099	0.0	0.3	0.1
3096	63.455	63.300	-0.099	0.0	0.3	0.1
3120	63.455	63.304	-0.099	0.0	0.3	0.2
3144	63.455	63.309	-0.099	0.0	0.3	0.2
3168	63.455	63.313	-0.099	0.0	0.3	0.2
3192	63.456	63.317	-0.098	0.0	0.3	0.2
3216	63.456	63.322	-0.098	0.0	0.3	0.2
3240	63.456	63.327	-0.098	0.0	0.3	0.2
3264	63.456	63.332	-0.098	0.0	0.3	0.2
3288	63.456	63.337	-0.098	0.0	0.3	0.2
3312	63.456	63.342	-0.098	0.0	0.3	0.2
3336	63.456	63.348	-0.098	0.0	0.4	0.2
3360	63.456	63.354	-0.098	0.0	0.4	0.2
3384	63.456	63.360	-0.098	0.0	0.4	0.2
3408	63.457	63.368	-0.097	0.0	0.4	0.2
3432	63.457	63.377	-0.097	0.0	0.4	0.2
3456	63.457	63.384	-0.097	0.0	0.4	0.2
3480	63.457	63.392	-0.097	0.0	0.4	0.2
3504	63.457	63.400	-0.097	0.0	0.4	0.2
3528	63.457	63.407	-0.097	0.0	0.4	0.2
3552	63.458	63.414	-0.096	0.0	0.4	0.3
3576	63.458	63.422	-0.096	0.0	0.4	0.3
3600	63.458	63.429	-0.096	0.0	0.4	0.3

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.458	63.436	-0.096	0.0	0.4	0.3
3648	63.458	63.443	-0.096	0.0	0.4	0.3
3672	63.459	63.451	-0.095	0.0	0.4	0.3
3696	63.462	63.458	-0.092	0.0	0.3	0.2
3720	63.467	63.465	-0.088	0.0	0.2	0.2
3744	63.473	63.472	-0.081	0.0	0.1	0.2
3768	63.479	63.478	-0.075	0.0	0.1	0.2
3792	63.485	63.484	-0.069	0.0	0.1	0.2
3816	63.491	63.490	-0.063	0.0	0.1	0.2
3840	63.496	63.496	-0.058	0.0	0.0	0.2
3864	63.501	63.500	-0.053	0.0	0.0	0.2
3888	63.506	63.506	-0.048	0.0	0.0	0.2
3912	63.511	63.510	-0.043	0.0	0.0	0.2
3936	63.515	63.515	-0.039	0.0	0.0	0.2
3960	63.520	63.519	-0.034	0.0	0.0	0.2
3984	63.524	63.523	-0.031	0.0	0.0	0.2
4008	63.527	63.527	-0.027	0.0	0.0	0.2
4032	63.531	63.530	-0.023	0.0	0.0	0.2
4056	63.534	63.534	-0.020	0.0	0.0	0.2
4080	63.537	63.537	-0.017	0.0	0.0	0.2
4104	63.540	63.540	-0.014	0.0	0.0	0.2
4128	63.543	63.542	-0.011	0.0	0.0	0.1
4152	63.545	63.545	-0.009	0.0	0.0	0.1
4176	63.548	63.547	-0.006	0.0	0.0	0.1
4200	63.550	63.549	-0.004	0.0	0.0	0.1
4224	63.551	63.551	-0.003	0.0	0.0	0.1
4248	63.553	63.553	-0.001	0.0	0.0	0.1
4272	63.555	63.554	0.001	0.0	0.0	0.1
4296	63.556	63.556	0.002	0.0	0.0	0.1
4320	63.558	63.557	0.003	0.0	0.0	0.1
4344	63.559	63.558	0.005	0.0	0.0	0.1
4368	63.559	63.559	0.005	0.0	0.0	0.1
4392	63.560	63.560	0.006	0.0	0.0	0.1
4416	63.561	63.561	0.007	0.0	0.0	0.1
4440	63.561	63.561	0.007	0.0	0.0	0.1
4464	63.562	63.561	0.008	0.0	0.0	0.1
4488	63.562	63.562	0.008	0.0	0.0	0.1
4512	63.562	63.562	0.008	0.0	0.0	0.1
4536	63.562	63.562	0.008	0.0	0.0	0.1
4560	63.562	63.561	0.008	0.0	0.0	0.1
4584	63.561	63.561	0.007	0.0	0.0	0.1
4608	63.561	63.561	0.007	0.0	0.0	0.1
4632	63.560	63.560	0.006	0.0	0.0	0.1
4656	63.560	63.560	0.006	0.0	0.0	0.1
4680	63.559	63.559	0.005	0.0	0.0	0.1
4704	63.558	63.558	0.004	0.0	0.0	0.1
4728	63.557	63.557	0.003	0.0	0.0	0.1
4752	63.557	63.556	0.002	0.0	0.0	0.1
4776	63.556	63.555	0.001	0.0	0.0	0.1
4800	63.554	63.554	0.000	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.553	63.553	-0.001	0.0	0.0	0.1
4848	63.552	63.552	-0.002	0.0	0.0	0.1
4872	63.551	63.551	-0.003	0.0	0.0	0.1
4896	63.550	63.550	-0.004	0.0	0.0	0.1
4920	63.548	63.548	-0.006	0.0	0.0	0.1
4944	63.547	63.547	-0.007	0.0	0.0	0.1
4968	63.546	63.545	-0.008	0.0	0.0	0.1
4992	63.544	63.544	-0.010	0.0	0.0	0.0
5016	63.543	63.543	-0.011	0.0	0.0	0.0
5040	63.541	63.541	-0.013	0.0	0.0	0.0
5064	63.540	63.539	-0.015	0.0	0.0	0.0
5088	63.538	63.538	-0.016	0.0	0.0	0.0
5112	63.536	63.536	-0.018	0.0	0.0	0.0
5136	63.535	63.535	-0.019	0.0	0.0	0.0
5160	63.533	63.533	-0.021	0.0	0.0	0.0
5184	63.531	63.531	-0.023	0.0	0.0	0.0
5208	63.530	63.530	-0.024	0.0	0.0	0.0
5232	63.528	63.528	-0.026	0.0	0.0	0.0
5256	63.526	63.526	-0.028	0.0	0.0	0.0
5280	63.524	63.524	-0.030	0.0	0.0	0.0
5304	63.523	63.522	-0.032	0.0	0.0	0.0
5328	63.521	63.521	-0.033	0.0	0.0	0.0
5352	63.519	63.519	-0.035	0.0	0.0	0.0
5376	63.517	63.517	-0.037	0.0	0.0	0.0
5400	63.515	63.515	-0.039	0.0	0.0	0.0
5424	63.513	63.513	-0.041	0.0	0.0	0.0
5448	63.512	63.511	-0.043	0.0	0.0	0.0
5472	63.510	63.509	-0.045	0.0	0.0	0.0
5496	63.508	63.508	-0.046	0.0	0.0	0.0
5520	63.506	63.506	-0.048	0.0	0.0	0.0
5544	63.504	63.504	-0.050	0.0	0.0	0.0
5568	63.502	63.502	-0.052	0.0	0.0	0.0
5592	63.500	63.500	-0.054	0.0	0.0	0.0
5616	63.498	63.498	-0.056	0.0	0.0	0.0
5640	63.496	63.496	-0.058	0.0	0.0	0.0
5664	63.494	63.494	-0.060	0.0	0.0	0.0
5688	63.492	63.492	-0.062	0.0	0.0	0.0
5712	63.490	63.490	-0.064	0.0	0.0	0.0
5736	63.488	63.488	-0.066	0.0	0.0	0.0
5760	63.486	63.486	-0.068	0.0	0.0	0.0
5784	63.484	63.484	-0.070	0.0	0.0	0.0
5808	63.482	63.482	-0.072	0.0	0.0	0.0
5832	63.480	63.480	-0.074	0.0	0.0	0.0
5856	63.478	63.478	-0.076	0.0	0.0	0.0
5880	63.476	63.476	-0.078	0.0	0.0	0.0
5904	63.474	63.474	-0.081	0.0	0.0	0.0
5928	63.472	63.471	-0.083	0.0	0.0	0.0
5952	63.469	63.469	-0.085	0.0	0.0	0.0
5976	63.467	63.467	-0.087	0.0	0.0	0.0
6000	63.465	63.465	-0.089	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.463	63.463	-0.091	0.0	0.0	0.0
6048	63.461	63.461	-0.093	0.0	0.0	0.0
6072	63.459	63.459	-0.095	0.0	0.0	0.0
6096	63.457	63.457	-0.097	0.0	0.0	0.0
6120	63.455	63.455	-0.099	0.0	0.1	0.0
6144	63.454	63.452	-0.100	0.0	0.1	0.0
6168	63.451	63.450	-0.103	0.0	0.1	0.0
6192	63.449	63.448	-0.105	0.0	0.1	0.0
6216	63.448	63.446	-0.106	0.0	0.1	0.0
6240	63.447	63.444	-0.107	0.0	0.1	0.0
6264	63.447	63.442	-0.107	0.0	0.1	0.0
6288	63.447	63.439	-0.108	0.0	0.1	0.0
6312	63.446	63.437	-0.108	0.0	0.1	0.0
6336	63.446	63.435	-0.108	0.0	0.1	0.0
6360	63.446	63.433	-0.108	0.0	0.1	0.0
6384	63.446	63.431	-0.108	0.0	0.1	0.0
6408	63.446	63.428	-0.108	0.0	0.1	0.0
6432	63.446	63.426	-0.108	0.0	0.1	0.0
6456	63.446	63.424	-0.108	0.0	0.1	0.0
6480	63.446	63.422	-0.108	0.0	0.1	0.0
6504	63.446	63.420	-0.108	0.0	0.1	0.0
6528	63.446	63.417	-0.108	0.0	0.1	0.0
6552	63.446	63.415	-0.108	0.0	0.1	0.0
6576	63.446	63.413	-0.108	0.0	0.1	0.0
6600	63.446	63.411	-0.108	0.0	0.1	0.0
6624	63.446	63.409	-0.108	0.0	0.1	0.0
6648	63.446	63.406	-0.108	0.0	0.1	0.0
6672	63.446	63.404	-0.108	0.0	0.1	0.0
6696	63.446	63.402	-0.108	0.0	0.1	0.0
6720	63.446	63.400	-0.108	0.0	0.1	0.0
6744	63.446	63.398	-0.108	0.0	0.1	0.0
6768	63.446	63.395	-0.108	0.0	0.1	0.0
6792	63.446	63.393	-0.108	0.0	0.1	0.0
6816	63.446	63.391	-0.108	0.0	0.1	0.0
6840	63.446	63.389	-0.108	0.0	0.1	0.0
6864	63.446	63.387	-0.108	0.0	0.1	0.0
6888	63.446	63.385	-0.108	0.0	0.1	0.0
6912	63.446	63.383	-0.108	0.0	0.1	0.0
6936	63.446	63.381	-0.108	0.0	0.1	0.0
6960	63.446	63.379	-0.108	0.0	0.1	0.0
6984	63.446	63.378	-0.108	0.0	0.1	0.0
7008	63.446	63.376	-0.108	0.0	0.1	0.0
7032	63.446	63.375	-0.108	0.0	0.1	0.0
7056	63.446	63.373	-0.108	0.0	0.1	0.0
7080	63.446	63.372	-0.108	0.0	0.1	0.0
7104	63.446	63.370	-0.108	0.0	0.1	0.0
7128	63.446	63.369	-0.108	0.0	0.1	0.0
7152	63.446	63.368	-0.108	0.0	0.1	0.0
7176	63.446	63.366	-0.108	0.0	0.1	0.0
7200	63.446	63.363	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.360	-0.110	0.0	0.0	0.0
7248	63.444	63.355	-0.110	0.0	0.0	0.0
7272	63.444	63.351	-0.110	0.0	0.0	0.0
7296	63.444	63.348	-0.110	0.0	0.0	0.0
7320	63.444	63.345	-0.110	0.0	0.0	0.0
7344	63.444	63.341	-0.110	0.0	0.0	0.0
7368	63.444	63.338	-0.110	0.0	0.0	0.0
7392	63.444	63.335	-0.110	0.0	0.0	0.0
7416	63.444	63.332	-0.110	0.0	0.0	0.0
7440	63.444	63.329	-0.110	0.0	0.0	0.0
7464	63.444	63.326	-0.110	0.0	0.0	0.0
7488	63.444	63.323	-0.110	0.0	0.0	0.0
7512	63.444	63.320	-0.110	0.0	0.0	0.0
7536	63.444	63.317	-0.110	0.0	0.0	0.0
7560	63.444	63.314	-0.110	0.0	0.0	0.0
7584	63.444	63.311	-0.110	0.0	0.0	0.0
7608	63.444	63.307	-0.110	0.0	0.0	0.0
7632	63.444	63.304	-0.110	0.0	0.0	0.0
7656	63.444	63.301	-0.110	0.0	0.0	0.0
7680	63.444	63.297	-0.110	0.0	0.0	0.0
7704	63.444	63.294	-0.110	0.0	0.0	0.0
7728	63.444	63.291	-0.110	0.0	0.0	0.0
7752	63.444	63.288	-0.110	0.0	0.0	0.0
7776	63.444	63.284	-0.110	0.0	0.0	0.0
7800	63.444	63.281	-0.110	0.0	0.0	0.0
7824	63.444	63.278	-0.110	0.0	0.0	0.0
7848	63.444	63.275	-0.110	0.0	0.0	0.0
7872	63.444	63.272	-0.110	0.0	0.0	0.0
7896	63.444	63.269	-0.110	0.0	0.0	0.0
7920	63.444	63.267	-0.110	0.0	0.0	0.0
7944	63.444	63.265	-0.110	0.0	0.0	0.0
7968	63.444	63.263	-0.110	0.0	0.0	0.0
7992	63.444	63.262	-0.110	0.0	0.0	0.0
8016	63.444	63.261	-0.110	0.0	0.0	0.0
8040	63.444	63.260	-0.110	0.0	0.0	0.0
8064	63.444	63.259	-0.110	0.0	0.0	0.0
8088	63.444	63.258	-0.110	0.0	0.0	0.0
8112	63.444	63.258	-0.110	0.0	0.0	0.0
8136	63.444	63.257	-0.110	0.0	0.0	0.0
8160	63.444	63.257	-0.110	0.0	0.0	0.0
8184	63.444	63.256	-0.110	0.0	0.0	0.0
8208	63.444	63.256	-0.110	0.0	0.0	0.0
8232	63.444	63.256	-0.110	0.0	0.0	0.0
8256	63.444	63.256	-0.110	0.0	0.0	0.0
8280	63.444	63.255	-0.110	0.0	0.0	0.0
8304	63.444	63.255	-0.110	0.0	0.0	0.0
8328	63.444	63.255	-0.110	0.0	0.0	0.0
8352	63.444	63.255	-0.110	0.0	0.0	0.0
8376	63.444	63.254	-0.110	0.0	0.0	0.0
8400	63.444	63.254	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.254	-0.110	0.0	0.0	0.0
8448	63.444	63.254	-0.110	0.0	0.0	0.0
8472	63.444	63.254	-0.110	0.0	0.0	0.0
8496	63.444	63.254	-0.110	0.0	0.0	0.0
8520	63.444	63.254	-0.110	0.0	0.0	0.0
8544	63.444	63.253	-0.110	0.0	0.0	0.0
8568	63.444	63.253	-0.110	0.0	0.0	0.0
8592	63.444	63.253	-0.110	0.0	0.0	0.0
8616	63.444	63.253	-0.110	0.0	0.0	0.0
8640	63.444	63.253	-0.110	0.0	0.0	0.0
8664	63.444	63.253	-0.110	0.0	0.0	0.0
8688	63.444	63.253	-0.110	0.0	0.0	0.0
8712	63.444	63.253	-0.110	0.0	0.0	0.0
8736	63.444	63.253	-0.110	0.0	0.0	0.0
8760	63.444	63.253	-0.110	0.0	0.0	0.0
8784	63.444	63.253	-0.110	0.0	0.0	0.0
8808	63.444	63.253	-0.110	0.0	0.0	0.0
8832	63.444	63.252	-0.110	0.0	0.0	0.0
8856	63.444	63.252	-0.110	0.0	0.0	0.0
8880	63.444	63.252	-0.110	0.0	0.0	0.0
8904	63.444	63.252	-0.110	0.0	0.0	0.0
8928	63.444	63.252	-0.110	0.0	0.0	0.0
8952	63.444	63.252	-0.110	0.0	0.0	0.0
8976	63.444	63.252	-0.110	0.0	0.0	0.0
9000	63.444	63.252	-0.110	0.0	0.0	0.0
9024	63.444	63.252	-0.110	0.0	0.0	0.0
9048	63.444	63.252	-0.110	0.0	0.0	0.0
9072	63.444	63.252	-0.110	0.0	0.0	0.0
9096	63.444	63.252	-0.110	0.0	0.0	0.0
9120	63.444	63.252	-0.110	0.0	0.0	0.0
9144	63.444	63.252	-0.110	0.0	0.0	0.0
9168	63.444	63.252	-0.110	0.0	0.0	0.0
9192	63.444	63.252	-0.110	0.0	0.0	0.0
9216	63.444	63.252	-0.110	0.0	0.0	0.0
9240	63.444	63.252	-0.110	0.0	0.0	0.0
9264	63.444	63.252	-0.110	0.0	0.0	0.0
9288	63.444	63.252	-0.110	0.0	0.0	0.0
9312	63.444	63.252	-0.110	0.0	0.0	0.0
9336	63.444	63.252	-0.110	0.0	0.0	0.0
9360	63.444	63.252	-0.110	0.0	0.0	0.0
9384	63.444	63.252	-0.110	0.0	0.0	0.0
9408	63.444	63.251	-0.110	0.0	0.0	0.0
9432	63.444	63.251	-0.110	0.0	0.0	0.0
9456	63.444	63.251	-0.110	0.0	0.0	0.0
9480	63.444	63.251	-0.110	0.0	0.0	0.0
9504	63.444	63.251	-0.110	0.0	0.0	0.0
9528	63.444	63.251	-0.110	0.0	0.0	0.0
9552	63.444	63.251	-0.110	0.0	0.0	0.0
9576	63.444	63.251	-0.110	0.0	0.0	0.0
9600	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.251	-0.110	0.0	0.0	0.0
9648	63.444	63.251	-0.110	0.0	0.0	0.0
9672	63.444	63.251	-0.110	0.0	0.0	0.0
9696	63.444	63.251	-0.110	0.0	0.0	0.0
9720	63.444	63.251	-0.110	0.0	0.0	0.0
9744	63.444	63.251	-0.110	0.0	0.0	0.0
9768	63.444	63.251	-0.110	0.0	0.0	0.0
9792	63.444	63.251	-0.110	0.0	0.0	0.0
9816	63.444	63.251	-0.110	0.0	0.0	0.0
9840	63.444	63.251	-0.110	0.0	0.0	0.0
9864	63.444	63.251	-0.110	0.0	0.0	0.0
9888	63.444	63.251	-0.110	0.0	0.0	0.0
9912	63.444	63.251	-0.110	0.0	0.0	0.0
9936	63.444	63.251	-0.110	0.0	0.0	0.0
9960	63.444	63.251	-0.110	0.0	0.0	0.0
9984	63.444	63.251	-0.110	0.0	0.0	0.0
10008	63.444	63.251	-0.110	0.0	0.0	0.0
10032	63.444	63.251	-0.110	0.0	0.0	0.0
10056	63.444	63.251	-0.110	0.0	0.0	0.0
10080	63.444	63.251	-0.110	0.0	0.0	0.0
10104	63.444	63.251	-0.110	0.0	0.0	0.0
10128	63.444	63.251	-0.110	0.0	0.0	0.0
10152	63.444	63.251	-0.110	0.0	0.0	0.0
10176	63.444	63.251	-0.110	0.0	0.0	0.0
10200	63.444	63.251	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.251	-0.110	0.0	0.0	0.0
12408	63.444	63.251	-0.110	0.0	0.0	0.0
12432	63.444	63.251	-0.110	0.0	0.0	0.0
12456	63.444	63.250	-0.110	0.0	0.0	0.0
12480	63.444	63.250	-0.110	0.0	0.0	0.0
12504	63.444	63.250	-0.110	0.0	0.0	0.0
12528	63.444	63.250	-0.110	0.0	0.0	0.0
12552	63.444	63.250	-0.110	0.0	0.0	0.0
12576	63.444	63.250	-0.110	0.0	0.0	0.0
12600	63.444	63.250	-0.110	0.0	0.0	0.0
12624	63.444	63.250	-0.110	0.0	0.0	0.0
12648	63.444	63.250	-0.110	0.0	0.0	0.0
12672	63.444	63.250	-0.110	0.0	0.0	0.0
12696	63.444	63.250	-0.110	0.0	0.0	0.0
12720	63.444	63.250	-0.110	0.0	0.0	0.0
12744	63.444	63.250	-0.110	0.0	0.0	0.0
12768	63.444	63.250	-0.110	0.0	0.0	0.0
12792	63.444	63.250	-0.110	0.0	0.0	0.0
12816	63.444	63.250	-0.110	0.0	0.0	0.0
12840	63.444	63.250	-0.110	0.0	0.0	0.0
12864	63.444	63.250	-0.110	0.0	0.0	0.0
12888	63.444	63.250	-0.110	0.0	0.0	0.0
12912	63.444	63.250	-0.110	0.0	0.0	0.0
12936	63.444	63.250	-0.110	0.0	0.0	0.0
12960	63.444	63.250	-0.110	0.0	0.0	0.0
12984	63.444	63.250	-0.110	0.0	0.0	0.0
13008	63.444	63.250	-0.110	0.0	0.0	0.0
13032	63.444	63.250	-0.110	0.0	0.0	0.0
13056	63.444	63.250	-0.110	0.0	0.0	0.0
13080	63.444	63.250	-0.110	0.0	0.0	0.0
13104	63.444	63.250	-0.110	0.0	0.0	0.0
13128	63.444	63.250	-0.110	0.0	0.0	0.0
13152	63.444	63.250	-0.110	0.0	0.0	0.0
13176	63.444	63.250	-0.110	0.0	0.0	0.0
13200	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.250	-0.110	0.0	0.0	0.0
13248	63.444	63.250	-0.110	0.0	0.0	0.0
13272	63.444	63.250	-0.110	0.0	0.0	0.0
13296	63.444	63.250	-0.110	0.0	0.0	0.0
13320	63.444	63.250	-0.110	0.0	0.0	0.0
13344	63.444	63.250	-0.110	0.0	0.0	0.0
13368	63.444	63.250	-0.110	0.0	0.0	0.0
13392	63.444	63.250	-0.110	0.0	0.0	0.0
13416	63.444	63.250	-0.110	0.0	0.0	0.0
13440	63.444	63.250	-0.110	0.0	0.0	0.0
13464	63.444	63.250	-0.110	0.0	0.0	0.0
13488	63.444	63.250	-0.110	0.0	0.0	0.0
13512	63.444	63.250	-0.110	0.0	0.0	0.0
13536	63.444	63.250	-0.110	0.0	0.0	0.0
13560	63.444	63.250	-0.110	0.0	0.0	0.0
13584	63.444	63.250	-0.110	0.0	0.0	0.0
13608	63.444	63.250	-0.110	0.0	0.0	0.0
13632	63.444	63.250	-0.110	0.0	0.0	0.0
13656	63.444	63.250	-0.110	0.0	0.0	0.0
13680	63.444	63.250	-0.110	0.0	0.0	0.0
13704	63.444	63.250	-0.110	0.0	0.0	0.0
13728	63.444	63.250	-0.110	0.0	0.0	0.0
13752	63.444	63.250	-0.110	0.0	0.0	0.0
13776	63.444	63.250	-0.110	0.0	0.0	0.0
13800	63.444	63.250	-0.110	0.0	0.0	0.0
13824	63.444	63.250	-0.110	0.0	0.0	0.0
13848	63.444	63.250	-0.110	0.0	0.0	0.0
13872	63.444	63.250	-0.110	0.0	0.0	0.0
13896	63.444	63.250	-0.110	0.0	0.0	0.0
13920	63.444	63.250	-0.110	0.0	0.0	0.0
13944	63.444	63.250	-0.110	0.0	0.0	0.0
13968	63.444	63.250	-0.110	0.0	0.0	0.0
13992	63.444	63.250	-0.110	0.0	0.0	0.0
14016	63.444	63.250	-0.110	0.0	0.0	0.0
14040	63.444	63.250	-0.110	0.0	0.0	0.0
14064	63.444	63.250	-0.110	0.0	0.0	0.0
14088	63.444	63.250	-0.110	0.0	0.0	0.0
14112	63.444	63.250	-0.110	0.0	0.0	0.0
14136	63.444	63.250	-0.110	0.0	0.0	0.0
14160	63.444	63.250	-0.110	0.0	0.0	0.0
14184	63.444	63.250	-0.110	0.0	0.0	0.0
14208	63.444	63.250	-0.110	0.0	0.0	0.0
14232	63.444	63.250	-0.110	0.0	0.0	0.0
14256	63.444	63.250	-0.110	0.0	0.0	0.0
14280	63.444	63.250	-0.110	0.0	0.0	0.0
14304	63.444	63.250	-0.110	0.0	0.0	0.0
14328	63.444	63.250	-0.110	0.0	0.0	0.0
14352	63.444	63.250	-0.110	0.0	0.0	0.0
14376	63.444	63.250	-0.110	0.0	0.0	0.0
14400	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.252	63.100	-0.108	0.0	0.0	0.0
72	63.253	63.100	-0.107	0.0	0.0	0.0
96	63.254	63.101	-0.106	0.0	0.0	0.0
120	63.255	63.102	-0.105	0.0	0.0	0.0
144	63.255	63.103	-0.105	0.0	0.0	0.0
168	63.256	63.104	-0.104	0.0	0.0	0.0
192	63.257	63.105	-0.103	0.0	0.0	0.0
216	63.257	63.106	-0.103	0.0	0.0	0.0
240	63.258	63.107	-0.102	0.0	0.0	0.0
264	63.259	63.108	-0.101	0.0	0.1	0.0
288	63.259	63.110	-0.101	0.0	0.1	0.0
312	63.259	63.111	-0.101	0.0	0.1	0.0
336	63.260	63.112	-0.100	0.0	0.1	0.0
360	63.260	63.113	-0.100	0.0	0.1	0.0
384	63.260	63.114	-0.100	0.0	0.1	0.0
408	63.260	63.115	-0.100	0.0	0.1	0.0
432	63.260	63.115	-0.100	0.0	0.1	0.0
456	63.261	63.116	-0.099	0.0	0.1	0.0
480	63.261	63.116	-0.099	0.0	0.1	0.0
504	63.261	63.117	-0.099	0.0	0.1	0.0
528	63.261	63.117	-0.099	0.0	0.1	0.0
552	63.261	63.117	-0.099	0.0	0.1	0.0
576	63.261	63.118	-0.099	0.0	0.1	0.0
600	63.261	63.118	-0.099	0.0	0.1	0.0
624	63.261	63.118	-0.099	0.0	0.1	0.0
648	63.261	63.118	-0.099	0.0	0.1	0.0
672	63.261	63.118	-0.099	0.0	0.1	0.0
696	63.261	63.119	-0.099	0.0	0.1	0.0
720	63.262	63.119	-0.098	0.0	0.1	0.0
744	63.262	63.119	-0.098	0.0	0.1	0.0
768	63.262	63.119	-0.098	0.0	0.1	0.0
792	63.262	63.119	-0.098	0.0	0.1	0.0
816	63.262	63.119	-0.098	0.0	0.1	0.0
840	63.262	63.119	-0.098	0.0	0.1	0.0
864	63.262	63.120	-0.098	0.0	0.1	0.0
888	63.262	63.120	-0.098	0.0	0.1	0.0
912	63.262	63.120	-0.098	0.0	0.1	0.0
936	63.262	63.120	-0.098	0.0	0.1	0.0
960	63.262	63.120	-0.098	0.0	0.1	0.0
984	63.262	63.120	-0.098	0.0	0.1	0.0
1008	63.262	63.120	-0.098	0.0	0.1	0.0
1032	63.262	63.120	-0.098	0.0	0.1	0.0
1056	63.262	63.120	-0.098	0.0	0.1	0.0
1080	63.262	63.121	-0.098	0.0	0.1	0.0
1104	63.262	63.121	-0.098	0.0	0.1	0.0
1128	63.262	63.121	-0.098	0.0	0.1	0.0
1152	63.263	63.121	-0.097	0.0	0.1	0.0
1176	63.263	63.121	-0.097	0.0	0.1	0.0
1200	63.263	63.121	-0.097	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.263	63.122	-0.097	0.0	0.1	0.0
1248	63.263	63.122	-0.097	0.0	0.1	0.0
1272	63.263	63.122	-0.097	0.0	0.1	0.0
1296	63.263	63.122	-0.097	0.0	0.1	0.0
1320	63.263	63.122	-0.097	0.0	0.1	0.0
1344	63.263	63.122	-0.097	0.0	0.1	0.0
1368	63.263	63.123	-0.097	0.0	0.1	0.0
1392	63.263	63.123	-0.097	0.0	0.1	0.0
1416	63.263	63.123	-0.097	0.0	0.1	0.0
1440	63.263	63.123	-0.097	0.0	0.1	0.0
1464	63.263	63.123	-0.097	0.0	0.1	0.0
1488	63.264	63.123	-0.096	0.0	0.1	0.0
1512	63.264	63.124	-0.096	0.0	0.1	0.0
1536	63.264	63.124	-0.096	0.0	0.1	0.0
1560	63.264	63.124	-0.096	0.0	0.1	0.0
1584	63.264	63.124	-0.096	0.0	0.1	0.0
1608	63.264	63.125	-0.096	0.0	0.1	0.0
1632	63.264	63.125	-0.096	0.0	0.1	0.0
1656	63.264	63.125	-0.096	0.0	0.1	0.0
1680	63.264	63.125	-0.096	0.0	0.1	0.0
1704	63.264	63.126	-0.096	0.0	0.1	0.0
1728	63.264	63.126	-0.096	0.0	0.1	0.0
1752	63.264	63.126	-0.096	0.0	0.1	0.0
1776	63.265	63.126	-0.095	0.0	0.1	0.0
1800	63.265	63.127	-0.095	0.0	0.1	0.0
1824	63.265	63.127	-0.095	0.0	0.1	0.0
1848	63.265	63.127	-0.095	0.0	0.1	0.0
1872	63.265	63.128	-0.095	0.0	0.1	0.0
1896	63.265	63.128	-0.095	0.0	0.1	0.0
1920	63.265	63.128	-0.095	0.0	0.2	0.0
1944	63.265	63.128	-0.095	0.0	0.2	0.0
1968	63.265	63.129	-0.095	0.0	0.2	0.0
1992	63.265	63.129	-0.095	0.0	0.2	0.0
2016	63.266	63.129	-0.094	0.0	0.2	0.0
2040	63.266	63.130	-0.094	0.0	0.2	0.0
2064	63.266	63.130	-0.094	0.0	0.2	0.0
2088	63.266	63.131	-0.094	0.0	0.2	0.0
2112	63.266	63.131	-0.094	0.0	0.2	0.0
2136	63.266	63.131	-0.094	0.0	0.2	0.0
2160	63.266	63.132	-0.094	0.0	0.2	0.0
2184	63.267	63.132	-0.093	0.0	0.2	0.0
2208	63.267	63.133	-0.093	0.0	0.2	0.0
2232	63.267	63.133	-0.093	0.0	0.2	0.0
2256	63.267	63.134	-0.093	0.0	0.2	0.0
2280	63.267	63.135	-0.093	0.0	0.2	0.0
2304	63.267	63.135	-0.093	0.0	0.2	0.0
2328	63.268	63.136	-0.092	0.0	0.2	0.0
2352	63.268	63.137	-0.092	0.0	0.2	0.0
2376	63.268	63.137	-0.092	0.0	0.2	0.0
2400	63.269	63.138	-0.091	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.269	63.139	-0.091	0.0	0.2	0.1
2448	63.269	63.140	-0.091	0.0	0.2	0.1
2472	63.269	63.141	-0.091	0.0	0.2	0.1
2496	63.270	63.142	-0.090	0.0	0.2	0.1
2520	63.270	63.143	-0.090	0.0	0.2	0.1
2544	63.270	63.144	-0.090	0.0	0.2	0.1
2568	63.271	63.145	-0.089	0.0	0.2	0.1
2592	63.271	63.146	-0.089	0.0	0.2	0.1
2616	63.272	63.148	-0.088	0.0	0.2	0.1
2640	63.272	63.149	-0.088	0.0	0.2	0.1
2664	63.273	63.151	-0.087	0.0	0.2	0.1
2688	63.273	63.153	-0.087	0.0	0.2	0.1
2712	63.274	63.156	-0.086	0.0	0.2	0.1
2736	63.274	63.161	-0.086	0.0	0.3	0.1
2760	63.275	63.166	-0.085	0.0	0.3	0.1
2784	63.276	63.172	-0.084	0.0	0.3	0.1
2808	63.276	63.178	-0.084	0.0	0.3	0.1
2832	63.277	63.185	-0.083	0.0	0.3	0.1
2856	63.278	63.194	-0.082	0.0	0.3	0.1
2880	63.279	63.202	-0.081	0.0	0.3	0.1
2904	63.280	63.212	-0.080	0.0	0.3	0.1
2928	63.282	63.224	-0.078	0.0	0.3	0.1
2952	63.283	63.235	-0.077	0.0	0.3	0.1
2976	63.285	63.246	-0.075	0.0	0.3	0.1
3000	63.287	63.250	-0.073	0.0	0.2	0.1
3024	63.290	63.251	-0.070	0.0	0.2	0.1
3048	63.293	63.250	-0.067	0.0	0.2	0.1
3072	63.297	63.250	-0.063	0.0	0.2	0.1
3096	63.300	63.251	-0.060	0.0	0.2	0.1
3120	63.304	63.250	-0.056	0.0	0.2	0.1
3144	63.309	63.251	-0.051	0.0	0.2	0.1
3168	63.313	63.250	-0.047	0.0	0.2	0.1
3192	63.317	63.252	-0.043	0.0	0.2	0.1
3216	63.322	63.252	-0.038	0.0	0.2	0.1
3240	63.327	63.254	-0.033	0.0	0.3	0.1
3264	63.332	63.258	-0.028	0.0	0.3	0.1
3288	63.337	63.261	-0.023	0.0	0.3	0.1
3312	63.342	63.265	-0.018	0.0	0.3	0.1
3336	63.348	63.270	-0.012	0.0	0.3	0.1
3360	63.354	63.275	-0.006	0.0	0.3	0.1
3384	63.360	63.280	0.000	0.0	0.3	0.1
3408	63.368	63.268	0.008	0.0	0.2	0.0
3432	63.377	63.258	0.017	0.0	0.2	0.1
3456	63.384	63.255	0.024	0.0	0.2	0.1
3480	63.392	63.256	0.032	0.0	0.3	0.1
3504	63.400	63.263	0.040	0.0	0.3	0.1
3528	63.407	63.274	0.047	0.0	0.3	0.1
3552	63.414	63.288	0.054	0.0	0.3	0.1
3576	63.422	63.308	0.062	0.0	0.3	0.1
3600	63.429	63.333	0.069	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.436	63.355	0.076	0.0	0.3	0.1
3648	63.443	63.371	0.083	0.0	0.3	0.1
3672	63.451	63.383	0.091	0.0	0.3	0.1
3696	63.458	63.392	0.098	0.0	0.3	0.1
3720	63.465	63.401	0.105	0.0	0.3	0.1
3744	63.472	63.408	0.112	0.0	0.1	0.1
3768	63.478	63.415	0.118	0.0	0.1	0.1
3792	63.484	63.421	0.124	0.0	0.0	0.1
3816	63.490	63.428	0.130	0.0	0.0	0.1
3840	63.496	63.433	0.136	0.0	0.0	0.1
3864	63.500	63.438	0.140	0.0	0.0	0.1
3888	63.506	63.444	0.146	0.0	0.0	0.1
3912	63.510	63.449	0.150	0.0	0.0	0.1
3936	63.515	63.453	0.155	0.0	0.0	0.1
3960	63.519	63.458	0.159	0.0	0.0	0.1
3984	63.523	63.462	0.163	0.0	0.0	0.1
4008	63.527	63.466	0.167	0.0	0.0	0.1
4032	63.530	63.470	0.170	0.0	0.0	0.1
4056	63.534	63.473	0.174	0.0	0.0	0.1
4080	63.537	63.477	0.177	0.0	0.0	0.1
4104	63.540	63.480	0.180	0.0	0.0	0.1
4128	63.542	63.483	0.182	0.0	0.0	0.1
4152	63.545	63.485	0.185	0.0	0.0	0.1
4176	63.547	63.488	0.187	0.0	0.0	0.1
4200	63.549	63.490	0.189	0.0	0.0	0.1
4224	63.551	63.492	0.191	0.0	0.0	0.1
4248	63.553	63.494	0.193	0.0	0.0	0.1
4272	63.554	63.496	0.194	0.0	0.0	0.1
4296	63.556	63.498	0.196	0.0	0.0	0.1
4320	63.557	63.499	0.197	0.0	0.0	0.1
4344	63.558	63.500	0.198	0.0	0.0	0.1
4368	63.559	63.502	0.199	0.0	0.0	0.1
4392	63.560	63.503	0.200	0.0	0.0	0.1
4416	63.561	63.503	0.201	0.0	0.0	0.1
4440	63.561	63.504	0.201	0.0	0.0	0.1
4464	63.561	63.505	0.201	0.0	0.0	0.1
4488	63.562	63.505	0.202	0.0	0.0	0.1
4512	63.562	63.505	0.202	0.0	0.0	0.1
4536	63.562	63.505	0.202	0.0	0.0	0.1
4560	63.561	63.505	0.201	0.0	0.0	0.1
4584	63.561	63.505	0.201	0.0	0.0	0.1
4608	63.561	63.505	0.201	0.0	0.0	0.1
4632	63.560	63.505	0.200	0.0	0.0	0.1
4656	63.560	63.504	0.200	0.0	0.0	0.1
4680	63.559	63.504	0.199	0.0	0.0	0.1
4704	63.558	63.503	0.198	0.0	0.0	0.1
4728	63.557	63.502	0.197	0.0	0.0	0.1
4752	63.556	63.502	0.196	0.0	0.0	0.1
4776	63.555	63.501	0.195	0.0	0.0	0.1
4800	63.554	63.500	0.194	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.553	63.499	0.193	0.0	0.0	0.1
4848	63.552	63.498	0.192	0.0	0.0	0.1
4872	63.551	63.497	0.191	0.0	0.0	0.1
4896	63.550	63.496	0.190	0.0	0.0	0.1
4920	63.548	63.494	0.188	0.0	0.0	0.1
4944	63.547	63.493	0.187	0.0	0.0	0.1
4968	63.545	63.492	0.185	0.0	0.0	0.1
4992	63.544	63.490	0.184	0.0	0.0	0.1
5016	63.543	63.489	0.183	0.0	0.0	0.1
5040	63.541	63.488	0.181	0.0	0.0	0.1
5064	63.539	63.486	0.179	0.0	0.0	0.1
5088	63.538	63.485	0.178	0.0	0.0	0.1
5112	63.536	63.483	0.176	0.0	0.0	0.1
5136	63.535	63.482	0.175	0.0	0.0	0.1
5160	63.533	63.480	0.173	0.0	0.0	0.1
5184	63.531	63.478	0.171	0.0	0.0	0.1
5208	63.530	63.477	0.170	0.0	0.0	0.1
5232	63.528	63.475	0.168	0.0	0.0	0.1
5256	63.526	63.474	0.166	0.0	0.0	0.1
5280	63.524	63.472	0.164	0.0	0.0	0.1
5304	63.522	63.470	0.162	0.0	0.0	0.1
5328	63.521	63.468	0.161	0.0	0.0	0.1
5352	63.519	63.467	0.159	0.0	0.0	0.1
5376	63.517	63.465	0.157	0.0	0.0	0.1
5400	63.515	63.463	0.155	0.0	0.0	0.1
5424	63.513	63.461	0.153	0.0	0.0	0.1
5448	63.511	63.460	0.151	0.0	0.0	0.1
5472	63.509	63.458	0.149	0.0	0.0	0.1
5496	63.508	63.456	0.148	0.0	0.0	0.1
5520	63.506	63.454	0.146	0.0	0.0	0.1
5544	63.504	63.452	0.144	0.0	0.0	0.1
5568	63.502	63.450	0.142	0.0	0.0	0.1
5592	63.500	63.449	0.140	0.0	0.0	0.1
5616	63.498	63.447	0.138	0.0	0.0	0.1
5640	63.496	63.445	0.136	0.0	0.0	0.1
5664	63.494	63.443	0.134	0.0	0.0	0.1
5688	63.492	63.441	0.132	0.0	0.0	0.1
5712	63.490	63.439	0.130	0.0	0.0	0.1
5736	63.488	63.437	0.128	0.0	0.0	0.1
5760	63.486	63.435	0.126	0.0	0.0	0.1
5784	63.484	63.433	0.124	0.0	0.0	0.1
5808	63.482	63.431	0.122	0.0	0.0	0.1
5832	63.480	63.429	0.120	0.0	0.0	0.1
5856	63.478	63.427	0.118	0.0	0.0	0.1
5880	63.476	63.425	0.116	0.0	0.0	0.1
5904	63.474	63.423	0.114	0.0	0.0	0.1
5928	63.471	63.421	0.111	0.0	0.0	0.1
5952	63.469	63.419	0.109	0.0	0.0	0.1
5976	63.467	63.417	0.107	0.0	0.0	0.1
6000	63.465	63.415	0.105	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.463	63.413	0.103	0.0	0.0	0.1
6048	63.461	63.411	0.101	0.0	0.1	0.1
6072	63.459	63.409	0.099	0.0	0.1	0.1
6096	63.457	63.407	0.097	0.0	0.1	0.1
6120	63.455	63.405	0.095	0.0	0.1	0.1
6144	63.452	63.403	0.092	0.0	0.1	0.1
6168	63.450	63.401	0.090	0.0	0.1	0.1
6192	63.448	63.399	0.088	0.0	0.2	0.1
6216	63.446	63.397	0.086	0.0	0.2	0.1
6240	63.444	63.395	0.084	0.0	0.3	0.1
6264	63.442	63.393	0.082	0.0	0.2	0.1
6288	63.439	63.391	0.079	0.0	0.2	0.1
6312	63.437	63.388	0.077	0.0	0.2	0.1
6336	63.435	63.386	0.075	0.0	0.2	0.1
6360	63.433	63.384	0.073	0.0	0.2	0.1
6384	63.431	63.382	0.071	0.0	0.3	0.1
6408	63.428	63.380	0.068	0.0	0.3	0.1
6432	63.426	63.378	0.066	0.0	0.2	0.1
6456	63.424	63.376	0.064	0.0	0.2	0.1
6480	63.422	63.374	0.062	0.0	0.2	0.1
6504	63.420	63.371	0.060	0.0	0.2	0.1
6528	63.417	63.369	0.057	0.0	0.2	0.1
6552	63.415	63.367	0.055	0.0	0.2	0.1
6576	63.413	63.365	0.053	0.0	0.2	0.1
6600	63.411	63.363	0.051	0.0	0.2	0.1
6624	63.409	63.361	0.049	0.0	0.2	0.1
6648	63.406	63.359	0.046	0.0	0.2	0.1
6672	63.404	63.357	0.044	0.0	0.2	0.1
6696	63.402	63.354	0.042	0.0	0.2	0.1
6720	63.400	63.352	0.040	0.0	0.2	0.1
6744	63.398	63.350	0.038	0.0	0.2	0.1
6768	63.395	63.348	0.035	0.0	0.2	0.1
6792	63.393	63.345	0.033	0.0	0.2	0.1
6816	63.391	63.342	0.031	0.0	0.2	0.1
6840	63.389	63.339	0.029	0.0	0.2	0.1
6864	63.387	63.335	0.027	0.0	0.2	0.1
6888	63.385	63.331	0.025	0.0	0.2	0.1
6912	63.383	63.328	0.023	0.0	0.2	0.1
6936	63.381	63.324	0.021	0.0	0.2	0.1
6960	63.379	63.318	0.019	0.0	0.2	0.1
6984	63.378	63.312	0.018	0.0	0.2	0.1
7008	63.376	63.305	0.016	0.0	0.2	0.1
7032	63.375	63.297	0.015	0.0	0.2	0.1
7056	63.373	63.288	0.013	0.0	0.2	0.1
7080	63.372	63.279	0.012	0.0	0.2	0.1
7104	63.370	63.267	0.010	0.0	0.2	0.0
7128	63.369	63.257	0.009	0.0	0.2	0.0
7152	63.368	63.252	0.008	0.0	0.2	0.1
7176	63.366	63.251	0.006	0.0	0.2	0.1
7200	63.363	63.249	0.003	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.360	63.251	0.000	0.0	0.2	0.1
7248	63.355	63.264	-0.005	0.0	0.3	0.1
7272	63.351	63.273	-0.009	0.0	0.3	0.1
7296	63.348	63.276	-0.012	0.0	0.3	0.1
7320	63.345	63.277	-0.015	0.0	0.2	0.1
7344	63.341	63.276	-0.019	0.0	0.2	0.1
7368	63.338	63.275	-0.022	0.0	0.2	0.1
7392	63.335	63.272	-0.025	0.0	0.2	0.1
7416	63.332	63.270	-0.028	0.0	0.2	0.1
7440	63.329	63.267	-0.031	0.0	0.2	0.1
7464	63.326	63.265	-0.034	0.0	0.2	0.1
7488	63.323	63.262	-0.037	0.0	0.2	0.1
7512	63.320	63.259	-0.040	0.0	0.2	0.1
7536	63.317	63.257	-0.043	0.0	0.2	0.1
7560	63.314	63.254	-0.046	0.0	0.2	0.1
7584	63.311	63.251	-0.049	0.0	0.2	0.1
7608	63.307	63.253	-0.053	0.0	0.2	0.1
7632	63.304	63.253	-0.056	0.0	0.2	0.1
7656	63.301	63.251	-0.059	0.0	0.2	0.1
7680	63.297	63.251	-0.063	0.0	0.2	0.1
7704	63.294	63.250	-0.066	0.0	0.2	0.1
7728	63.291	63.250	-0.069	0.0	0.2	0.1
7752	63.288	63.249	-0.072	0.0	0.2	0.1
7776	63.284	63.249	-0.076	0.0	0.2	0.1
7800	63.281	63.249	-0.079	0.0	0.2	0.1
7824	63.278	63.250	-0.082	0.0	0.2	0.1
7848	63.275	63.249	-0.085	0.0	0.2	0.1
7872	63.272	63.248	-0.088	0.0	0.2	0.1
7896	63.269	63.245	-0.091	0.0	0.2	0.1
7920	63.267	63.237	-0.093	0.0	0.2	0.0
7944	63.265	63.224	-0.095	0.0	0.2	0.0
7968	63.263	63.209	-0.097	0.0	0.1	0.0
7992	63.262	63.193	-0.098	0.0	0.1	0.0
8016	63.261	63.176	-0.099	0.0	0.1	0.0
8040	63.260	63.157	-0.100	0.0	0.1	0.0
8064	63.259	63.138	-0.101	0.0	0.1	0.0
8088	63.258	63.127	-0.102	0.0	0.1	0.0
8112	63.258	63.120	-0.102	0.0	0.0	0.0
8136	63.257	63.115	-0.103	0.0	0.0	0.0
8160	63.257	63.112	-0.103	0.0	0.0	0.0
8184	63.256	63.110	-0.104	0.0	0.0	0.0
8208	63.256	63.108	-0.104	0.0	0.0	0.0
8232	63.256	63.107	-0.104	0.0	0.0	0.0
8256	63.256	63.106	-0.104	0.0	0.0	0.0
8280	63.255	63.105	-0.105	0.0	0.0	0.0
8304	63.255	63.105	-0.105	0.0	0.0	0.0
8328	63.255	63.104	-0.105	0.0	0.0	0.0
8352	63.255	63.104	-0.105	0.0	0.0	0.0
8376	63.254	63.104	-0.106	0.0	0.0	0.0
8400	63.254	63.103	-0.106	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.254	63.103	-0.106	0.0	0.0	0.0
8448	63.254	63.103	-0.106	0.0	0.0	0.0
8472	63.254	63.103	-0.106	0.0	0.0	0.0
8496	63.254	63.102	-0.106	0.0	0.0	0.0
8520	63.254	63.102	-0.106	0.0	0.0	0.0
8544	63.253	63.102	-0.107	0.0	0.0	0.0
8568	63.253	63.102	-0.107	0.0	0.0	0.0
8592	63.253	63.102	-0.107	0.0	0.0	0.0
8616	63.253	63.102	-0.107	0.0	0.0	0.0
8640	63.253	63.102	-0.107	0.0	0.0	0.0
8664	63.253	63.101	-0.107	0.0	0.0	0.0
8688	63.253	63.101	-0.107	0.0	0.0	0.0
8712	63.253	63.101	-0.107	0.0	0.0	0.0
8736	63.253	63.101	-0.107	0.0	0.0	0.0
8760	63.253	63.101	-0.107	0.0	0.0	0.0
8784	63.253	63.101	-0.107	0.0	0.0	0.0
8808	63.253	63.101	-0.107	0.0	0.0	0.0
8832	63.252	63.101	-0.108	0.0	0.0	0.0
8856	63.252	63.101	-0.108	0.0	0.0	0.0
8880	63.252	63.101	-0.108	0.0	0.0	0.0
8904	63.252	63.101	-0.108	0.0	0.0	0.0
8928	63.252	63.101	-0.108	0.0	0.0	0.0
8952	63.252	63.101	-0.108	0.0	0.0	0.0
8976	63.252	63.101	-0.108	0.0	0.0	0.0
9000	63.252	63.101	-0.108	0.0	0.0	0.0
9024	63.252	63.101	-0.108	0.0	0.0	0.0
9048	63.252	63.101	-0.108	0.0	0.0	0.0
9072	63.252	63.101	-0.108	0.0	0.0	0.0
9096	63.252	63.101	-0.108	0.0	0.0	0.0
9120	63.252	63.101	-0.108	0.0	0.0	0.0
9144	63.252	63.101	-0.108	0.0	0.0	0.0
9168	63.252	63.101	-0.108	0.0	0.0	0.0
9192	63.252	63.101	-0.108	0.0	0.0	0.0
9216	63.252	63.101	-0.108	0.0	0.0	0.0
9240	63.252	63.101	-0.108	0.0	0.0	0.0
9264	63.252	63.101	-0.108	0.0	0.0	0.0
9288	63.252	63.101	-0.108	0.0	0.0	0.0
9312	63.252	63.101	-0.108	0.0	0.0	0.0
9336	63.252	63.101	-0.108	0.0	0.0	0.0
9360	63.252	63.100	-0.108	0.0	0.0	0.0
9384	63.252	63.100	-0.108	0.0	0.0	0.0
9408	63.251	63.100	-0.109	0.0	0.0	0.0
9432	63.251	63.100	-0.109	0.0	0.0	0.0
9456	63.251	63.100	-0.109	0.0	0.0	0.0
9480	63.251	63.100	-0.109	0.0	0.0	0.0
9504	63.251	63.100	-0.109	0.0	0.0	0.0
9528	63.251	63.100	-0.109	0.0	0.0	0.0
9552	63.251	63.100	-0.109	0.0	0.0	0.0
9576	63.251	63.100	-0.109	0.0	0.0	0.0
9600	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.251	63.100	-0.109	0.0	0.0	0.0
9648	63.251	63.100	-0.109	0.0	0.0	0.0
9672	63.251	63.100	-0.109	0.0	0.0	0.0
9696	63.251	63.100	-0.109	0.0	0.0	0.0
9720	63.251	63.100	-0.109	0.0	0.0	0.0
9744	63.251	63.100	-0.109	0.0	0.0	0.0
9768	63.251	63.100	-0.109	0.0	0.0	0.0
9792	63.251	63.100	-0.109	0.0	0.0	0.0
9816	63.251	63.100	-0.109	0.0	0.0	0.0
9840	63.251	63.100	-0.109	0.0	0.0	0.0
9864	63.251	63.100	-0.109	0.0	0.0	0.0
9888	63.251	63.100	-0.109	0.0	0.0	0.0
9912	63.251	63.100	-0.109	0.0	0.0	0.0
9936	63.251	63.100	-0.109	0.0	0.0	0.0
9960	63.251	63.100	-0.109	0.0	0.0	0.0
9984	63.251	63.100	-0.109	0.0	0.0	0.0
10008	63.251	63.100	-0.109	0.0	0.0	0.0
10032	63.251	63.100	-0.109	0.0	0.0	0.0
10056	63.251	63.100	-0.109	0.0	0.0	0.0
10080	63.251	63.100	-0.109	0.0	0.0	0.0
10104	63.251	63.100	-0.109	0.0	0.0	0.0
10128	63.251	63.100	-0.109	0.0	0.0	0.0
10152	63.251	63.100	-0.109	0.0	0.0	0.0
10176	63.251	63.100	-0.109	0.0	0.0	0.0
10200	63.251	63.100	-0.109	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.251	63.100	-0.109	0.0	0.0	0.0
12408	63.251	63.100	-0.109	0.0	0.0	0.0
12432	63.251	63.100	-0.109	0.0	0.0	0.0
12456	63.250	63.100	-0.110	0.0	0.0	0.0
12480	63.250	63.100	-0.110	0.0	0.0	0.0
12504	63.250	63.100	-0.110	0.0	0.0	0.0
12528	63.250	63.100	-0.110	0.0	0.0	0.0
12552	63.250	63.100	-0.110	0.0	0.0	0.0
12576	63.250	63.100	-0.110	0.0	0.0	0.0
12600	63.250	63.100	-0.110	0.0	0.0	0.0
12624	63.250	63.100	-0.110	0.0	0.0	0.0
12648	63.250	63.100	-0.110	0.0	0.0	0.0
12672	63.250	63.100	-0.110	0.0	0.0	0.0
12696	63.250	63.100	-0.110	0.0	0.0	0.0
12720	63.250	63.100	-0.110	0.0	0.0	0.0
12744	63.250	63.100	-0.110	0.0	0.0	0.0
12768	63.250	63.100	-0.110	0.0	0.0	0.0
12792	63.250	63.100	-0.110	0.0	0.0	0.0
12816	63.250	63.100	-0.110	0.0	0.0	0.0
12840	63.250	63.100	-0.110	0.0	0.0	0.0
12864	63.250	63.100	-0.110	0.0	0.0	0.0
12888	63.250	63.100	-0.110	0.0	0.0	0.0
12912	63.250	63.100	-0.110	0.0	0.0	0.0
12936	63.250	63.100	-0.110	0.0	0.0	0.0
12960	63.250	63.100	-0.110	0.0	0.0	0.0
12984	63.250	63.100	-0.110	0.0	0.0	0.0
13008	63.250	63.100	-0.110	0.0	0.0	0.0
13032	63.250	63.100	-0.110	0.0	0.0	0.0
13056	63.250	63.100	-0.110	0.0	0.0	0.0
13080	63.250	63.100	-0.110	0.0	0.0	0.0
13104	63.250	63.100	-0.110	0.0	0.0	0.0
13128	63.250	63.100	-0.110	0.0	0.0	0.0
13152	63.250	63.100	-0.110	0.0	0.0	0.0
13176	63.250	63.100	-0.110	0.0	0.0	0.0
13200	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.250	63.100	-0.110	0.0	0.0	0.0
13248	63.250	63.100	-0.110	0.0	0.0	0.0
13272	63.250	63.100	-0.110	0.0	0.0	0.0
13296	63.250	63.100	-0.110	0.0	0.0	0.0
13320	63.250	63.100	-0.110	0.0	0.0	0.0
13344	63.250	63.100	-0.110	0.0	0.0	0.0
13368	63.250	63.100	-0.110	0.0	0.0	0.0
13392	63.250	63.100	-0.110	0.0	0.0	0.0
13416	63.250	63.100	-0.110	0.0	0.0	0.0
13440	63.250	63.100	-0.110	0.0	0.0	0.0
13464	63.250	63.100	-0.110	0.0	0.0	0.0
13488	63.250	63.100	-0.110	0.0	0.0	0.0
13512	63.250	63.100	-0.110	0.0	0.0	0.0
13536	63.250	63.100	-0.110	0.0	0.0	0.0
13560	63.250	63.100	-0.110	0.0	0.0	0.0
13584	63.250	63.100	-0.110	0.0	0.0	0.0
13608	63.250	63.100	-0.110	0.0	0.0	0.0
13632	63.250	63.100	-0.110	0.0	0.0	0.0
13656	63.250	63.100	-0.110	0.0	0.0	0.0
13680	63.250	63.100	-0.110	0.0	0.0	0.0
13704	63.250	63.100	-0.110	0.0	0.0	0.0
13728	63.250	63.100	-0.110	0.0	0.0	0.0
13752	63.250	63.100	-0.110	0.0	0.0	0.0
13776	63.250	63.100	-0.110	0.0	0.0	0.0
13800	63.250	63.100	-0.110	0.0	0.0	0.0
13824	63.250	63.100	-0.110	0.0	0.0	0.0
13848	63.250	63.100	-0.110	0.0	0.0	0.0
13872	63.250	63.100	-0.110	0.0	0.0	0.0
13896	63.250	63.100	-0.110	0.0	0.0	0.0
13920	63.250	63.100	-0.110	0.0	0.0	0.0
13944	63.250	63.100	-0.110	0.0	0.0	0.0
13968	63.250	63.100	-0.110	0.0	0.0	0.0
13992	63.250	63.100	-0.110	0.0	0.0	0.0
14016	63.250	63.100	-0.110	0.0	0.0	0.0
14040	63.250	63.100	-0.110	0.0	0.0	0.0
14064	63.250	63.100	-0.110	0.0	0.0	0.0
14088	63.250	63.100	-0.110	0.0	0.0	0.0
14112	63.250	63.100	-0.110	0.0	0.0	0.0
14136	63.250	63.100	-0.110	0.0	0.0	0.0
14160	63.250	63.100	-0.110	0.0	0.0	0.0
14184	63.250	63.100	-0.110	0.0	0.0	0.0
14208	63.250	63.100	-0.110	0.0	0.0	0.0
14232	63.250	63.100	-0.110	0.0	0.0	0.0
14256	63.250	63.100	-0.110	0.0	0.0	0.0
14280	63.250	63.100	-0.110	0.0	0.0	0.0
14304	63.250	63.100	-0.110	0.0	0.0	0.0
14328	63.250	63.100	-0.110	0.0	0.0	0.0
14352	63.250	63.100	-0.110	0.0	0.0	0.0
14376	63.250	63.100	-0.110	0.0	0.0	0.0
14400	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.101	63.096	-0.109	0.0	0.0	0.0
120	63.102	63.096	-0.108	0.0	0.0	0.0
144	63.103	63.096	-0.107	0.0	0.0	0.0
168	63.104	63.096	-0.106	0.0	0.0	0.0
192	63.105	63.096	-0.105	0.0	0.0	0.0
216	63.106	63.096	-0.104	0.0	0.0	0.0
240	63.107	63.096	-0.103	0.0	0.0	0.0
264	63.108	63.096	-0.102	0.0	0.0	0.0
288	63.110	63.096	-0.100	0.0	0.0	0.0
312	63.111	63.096	-0.099	0.0	0.0	0.0
336	63.112	63.096	-0.098	0.0	0.0	0.0
360	63.113	63.096	-0.097	0.0	0.0	0.0
384	63.114	63.096	-0.096	0.0	0.0	0.0
408	63.115	63.096	-0.095	0.0	0.0	0.0
432	63.115	63.096	-0.095	0.0	0.0	0.0
456	63.116	63.096	-0.094	0.0	0.0	0.0
480	63.116	63.096	-0.094	0.0	0.0	0.0
504	63.117	63.096	-0.093	0.0	0.0	0.0
528	63.117	63.096	-0.093	0.0	0.0	0.0
552	63.117	63.096	-0.093	0.0	0.0	0.0
576	63.118	63.096	-0.092	0.0	0.0	0.0
600	63.118	63.096	-0.092	0.0	0.0	0.0
624	63.118	63.096	-0.092	0.0	0.0	0.0
648	63.118	63.096	-0.092	0.0	0.0	0.0
672	63.118	63.096	-0.092	0.0	0.0	0.0
696	63.119	63.096	-0.091	0.0	0.0	0.0
720	63.119	63.096	-0.091	0.0	0.0	0.0
744	63.119	63.096	-0.091	0.0	0.0	0.0
768	63.119	63.096	-0.091	0.0	0.0	0.0
792	63.119	63.096	-0.091	0.0	0.0	0.0
816	63.119	63.096	-0.091	0.0	0.0	0.0
840	63.119	63.096	-0.091	0.0	0.0	0.0
864	63.120	63.096	-0.090	0.0	0.0	0.0
888	63.120	63.096	-0.090	0.0	0.0	0.0
912	63.120	63.096	-0.090	0.0	0.0	0.0
936	63.120	63.096	-0.090	0.0	0.0	0.0
960	63.120	63.096	-0.090	0.0	0.0	0.0
984	63.120	63.096	-0.090	0.0	0.0	0.0
1008	63.120	63.096	-0.090	0.0	0.0	0.0
1032	63.120	63.096	-0.090	0.0	0.0	0.0
1056	63.120	63.096	-0.090	0.0	0.0	0.0
1080	63.121	63.096	-0.089	0.0	0.0	0.0
1104	63.121	63.096	-0.089	0.0	0.0	0.0
1128	63.121	63.096	-0.089	0.0	0.0	0.0
1152	63.121	63.096	-0.089	0.0	0.0	0.0
1176	63.121	63.096	-0.089	0.0	0.0	0.0
1200	63.121	63.096	-0.089	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.122	63.096	-0.088	0.0	0.0	0.0
1248	63.122	63.096	-0.088	0.0	0.0	0.0
1272	63.122	63.096	-0.088	0.0	0.0	0.0
1296	63.122	63.096	-0.088	0.0	0.0	0.0
1320	63.122	63.096	-0.088	0.0	0.0	0.0
1344	63.122	63.096	-0.088	0.0	0.0	0.0
1368	63.123	63.096	-0.087	0.0	0.0	0.0
1392	63.123	63.096	-0.087	0.0	0.0	0.0
1416	63.123	63.096	-0.087	0.0	0.0	0.0
1440	63.123	63.096	-0.087	0.0	0.0	0.0
1464	63.123	63.096	-0.087	0.0	0.0	0.0
1488	63.123	63.096	-0.087	0.0	0.0	0.0
1512	63.124	63.096	-0.086	0.0	0.0	0.0
1536	63.124	63.096	-0.086	0.0	0.0	0.0
1560	63.124	63.096	-0.086	0.0	0.0	0.0
1584	63.124	63.096	-0.086	0.0	0.0	0.0
1608	63.125	63.096	-0.085	0.0	0.0	0.0
1632	63.125	63.096	-0.085	0.0	0.0	0.0
1656	63.125	63.096	-0.085	0.0	0.0	0.0
1680	63.125	63.096	-0.085	0.0	0.0	0.0
1704	63.126	63.096	-0.084	0.0	0.0	0.0
1728	63.126	63.096	-0.084	0.0	0.0	0.0
1752	63.126	63.096	-0.084	0.0	0.0	0.0
1776	63.126	63.096	-0.084	0.0	0.0	0.0
1800	63.127	63.096	-0.083	0.0	0.0	0.0
1824	63.127	63.096	-0.083	0.0	0.0	0.0
1848	63.127	63.096	-0.083	0.0	0.0	0.0
1872	63.128	63.096	-0.082	0.0	0.0	0.0
1896	63.128	63.096	-0.082	0.0	0.0	0.0
1920	63.128	63.096	-0.082	0.0	0.0	0.0
1944	63.128	63.096	-0.082	0.0	0.0	0.0
1968	63.129	63.096	-0.081	0.0	0.0	0.0
1992	63.129	63.096	-0.081	0.0	0.0	0.0
2016	63.129	63.096	-0.081	0.0	0.0	0.0
2040	63.130	63.096	-0.080	0.0	0.0	0.0
2064	63.130	63.096	-0.080	0.0	0.0	0.0
2088	63.131	63.096	-0.079	0.0	0.0	0.0
2112	63.131	63.096	-0.079	0.0	0.0	0.0
2136	63.131	63.096	-0.079	0.0	0.0	0.0
2160	63.132	63.096	-0.078	0.0	0.0	0.0
2184	63.132	63.096	-0.078	0.0	0.0	0.0
2208	63.133	63.096	-0.077	0.0	0.0	0.0
2232	63.133	63.096	-0.077	0.0	0.0	0.0
2256	63.134	63.096	-0.076	0.0	0.0	0.0
2280	63.135	63.096	-0.075	0.0	0.0	0.0
2304	63.135	63.096	-0.075	0.0	0.0	0.0
2328	63.136	63.096	-0.074	0.0	0.0	0.0
2352	63.137	63.096	-0.073	0.0	0.0	0.0
2376	63.137	63.096	-0.073	0.0	0.0	0.0
2400	63.138	63.096	-0.072	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.139	63.096	-0.071	0.0	0.0	0.0
2448	63.140	63.096	-0.070	0.0	0.0	0.0
2472	63.141	63.096	-0.069	0.0	0.0	0.0
2496	63.142	63.096	-0.068	0.0	0.0	0.0
2520	63.143	63.096	-0.067	0.0	0.0	0.0
2544	63.144	63.096	-0.066	0.0	0.0	0.0
2568	63.145	63.096	-0.065	0.0	0.0	0.0
2592	63.146	63.096	-0.064	0.0	0.0	0.0
2616	63.148	63.096	-0.062	0.0	0.0	0.0
2640	63.149	63.096	-0.061	0.0	0.0	0.0
2664	63.151	63.096	-0.059	0.0	0.0	0.0
2688	63.153	63.096	-0.057	0.0	0.0	0.0
2712	63.156	63.096	-0.054	0.0	0.0	0.0
2736	63.161	63.096	-0.049	0.0	0.0	0.0
2760	63.166	63.096	-0.044	0.0	0.0	0.0
2784	63.172	63.096	-0.038	0.0	0.0	0.0
2808	63.178	63.096	-0.032	0.0	0.0	0.0
2832	63.185	63.096	-0.025	0.0	0.0	0.0
2856	63.194	63.096	-0.016	0.0	0.0	0.0
2880	63.202	63.096	-0.008	0.0	0.0	0.0
2904	63.212	63.096	0.002	0.0	0.0	0.0
2928	63.224	63.096	0.014	0.0	0.0	0.0
2952	63.235	63.096	0.025	0.0	0.0	0.0
2976	63.246	63.096	0.036	0.0	0.0	0.0
3000	63.250	63.096	0.040	0.0	0.0	0.0
3024	63.251	63.096	0.041	0.0	0.0	0.0
3048	63.250	63.096	0.040	0.0	0.0	0.0
3072	63.250	63.096	0.040	0.0	0.0	0.0
3096	63.251	63.096	0.041	0.0	0.0	0.0
3120	63.250	63.096	0.040	0.0	0.0	0.0
3144	63.251	63.096	0.041	0.0	0.0	0.0
3168	63.250	63.096	0.040	0.0	0.0	0.0
3192	63.252	63.096	0.042	0.0	0.0	0.0
3216	63.252	63.096	0.042	0.0	0.0	0.0
3240	63.254	63.096	0.044	0.0	0.0	0.0
3264	63.258	63.096	0.048	0.0	0.0	0.0
3288	63.261	63.096	0.051	0.0	0.0	0.0
3312	63.265	63.096	0.055	0.0	0.0	0.0
3336	63.270	63.096	0.060	0.0	0.0	0.0
3360	63.275	63.096	0.065	0.0	0.0	0.0
3384	63.280	63.096	0.070	0.0	0.0	0.0
3408	63.268	63.096	0.058	0.0	0.0	0.0
3432	63.258	63.096	0.048	0.0	0.0	0.0
3456	63.255	63.096	0.045	0.0	0.0	0.0
3480	63.256	63.096	0.046	0.0	0.0	0.0
3504	63.263	63.096	0.053	0.0	0.0	0.0
3528	63.274	63.096	0.064	0.0	0.0	0.0
3552	63.288	63.096	0.078	0.0	0.0	0.0
3576	63.308	63.096	0.098	0.0	0.0	0.0
3600	63.333	63.096	0.123	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.355	63.096	0.145	0.0	0.1	0.0
3648	63.371	63.096	0.161	0.0	0.1	0.0
3672	63.383	63.096	0.173	0.0	0.1	0.0
3696	63.392	63.096	0.182	0.0	0.1	0.0
3720	63.401	63.096	0.191	0.0	0.1	0.0
3744	63.408	63.096	0.198	0.0	0.1	0.0
3768	63.415	63.096	0.205	0.0	0.1	0.0
3792	63.421	63.096	0.211	0.0	0.1	0.0
3816	63.428	63.096	0.218	0.0	0.1	0.0
3840	63.433	63.096	0.223	0.0	0.1	0.0
3864	63.438	63.096	0.228	0.0	0.1	0.0
3888	63.444	63.096	0.234	0.0	0.1	0.0
3912	63.449	63.096	0.239	0.0	0.1	0.0
3936	63.453	63.096	0.243	0.0	0.1	0.0
3960	63.458	63.096	0.248	0.0	0.1	0.0
3984	63.462	63.096	0.252	0.0	0.1	0.0
4008	63.466	63.096	0.256	0.0	0.1	0.0
4032	63.470	63.096	0.260	0.0	0.1	0.0
4056	63.473	63.096	0.263	0.0	0.1	0.0
4080	63.477	63.096	0.267	0.0	0.1	0.0
4104	63.480	63.096	0.270	0.0	0.1	0.0
4128	63.483	63.096	0.273	0.0	0.1	0.0
4152	63.485	63.096	0.275	0.0	0.1	0.0
4176	63.488	63.096	0.278	0.0	0.1	0.0
4200	63.490	63.096	0.280	0.0	0.1	0.0
4224	63.492	63.096	0.282	0.0	0.1	0.0
4248	63.494	63.096	0.284	0.0	0.1	0.0
4272	63.496	63.096	0.286	0.0	0.1	0.0
4296	63.498	63.096	0.288	0.0	0.1	0.0
4320	63.499	63.096	0.289	0.0	0.1	0.0
4344	63.500	63.096	0.290	0.0	0.1	0.0
4368	63.502	63.096	0.292	0.0	0.1	0.0
4392	63.503	63.096	0.293	0.0	0.1	0.0
4416	63.503	63.096	0.293	0.0	0.1	0.0
4440	63.504	63.096	0.294	0.0	0.1	0.0
4464	63.505	63.096	0.295	0.0	0.1	0.0
4488	63.505	63.096	0.295	0.0	0.1	0.0
4512	63.505	63.096	0.295	0.0	0.1	0.0
4536	63.505	63.096	0.295	0.0	0.1	0.0
4560	63.505	63.096	0.295	0.0	0.1	0.0
4584	63.505	63.096	0.295	0.0	0.1	0.0
4608	63.505	63.096	0.295	0.0	0.1	0.0
4632	63.505	63.096	0.295	0.0	0.1	0.0
4656	63.504	63.096	0.294	0.0	0.1	0.0
4680	63.504	63.096	0.294	0.0	0.1	0.0
4704	63.503	63.096	0.293	0.0	0.1	0.0
4728	63.502	63.096	0.292	0.0	0.1	0.0
4752	63.502	63.096	0.292	0.0	0.1	0.0
4776	63.501	63.096	0.291	0.0	0.1	0.0
4800	63.500	63.096	0.290	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.499	63.096	0.289	0.0	0.1	0.0
4848	63.498	63.096	0.288	0.0	0.1	0.0
4872	63.497	63.096	0.287	0.0	0.1	0.0
4896	63.496	63.096	0.286	0.0	0.1	0.0
4920	63.494	63.096	0.284	0.0	0.1	0.0
4944	63.493	63.096	0.283	0.0	0.1	0.0
4968	63.492	63.096	0.282	0.0	0.1	0.0
4992	63.490	63.096	0.280	0.0	0.1	0.0
5016	63.489	63.096	0.279	0.0	0.1	0.0
5040	63.488	63.096	0.278	0.0	0.1	0.0
5064	63.486	63.096	0.276	0.0	0.1	0.0
5088	63.485	63.096	0.275	0.0	0.1	0.0
5112	63.483	63.096	0.273	0.0	0.1	0.0
5136	63.482	63.096	0.272	0.0	0.1	0.0
5160	63.480	63.096	0.270	0.0	0.1	0.0
5184	63.478	63.096	0.268	0.0	0.1	0.0
5208	63.477	63.096	0.267	0.0	0.1	0.0
5232	63.475	63.096	0.265	0.0	0.1	0.0
5256	63.474	63.096	0.264	0.0	0.1	0.0
5280	63.472	63.096	0.262	0.0	0.1	0.0
5304	63.470	63.096	0.260	0.0	0.1	0.0
5328	63.468	63.096	0.258	0.0	0.1	0.0
5352	63.467	63.096	0.257	0.0	0.1	0.0
5376	63.465	63.096	0.255	0.0	0.1	0.0
5400	63.463	63.096	0.253	0.0	0.1	0.0
5424	63.461	63.096	0.251	0.0	0.1	0.0
5448	63.460	63.096	0.250	0.0	0.1	0.0
5472	63.458	63.096	0.248	0.0	0.1	0.0
5496	63.456	63.096	0.246	0.0	0.1	0.0
5520	63.454	63.096	0.244	0.0	0.1	0.0
5544	63.452	63.096	0.242	0.0	0.1	0.0
5568	63.450	63.096	0.240	0.0	0.1	0.0
5592	63.449	63.096	0.239	0.0	0.1	0.0
5616	63.447	63.096	0.237	0.0	0.1	0.0
5640	63.445	63.096	0.235	0.0	0.1	0.0
5664	63.443	63.096	0.233	0.0	0.1	0.0
5688	63.441	63.096	0.231	0.0	0.1	0.0
5712	63.439	63.096	0.229	0.0	0.1	0.0
5736	63.437	63.096	0.227	0.0	0.1	0.0
5760	63.435	63.096	0.225	0.0	0.1	0.0
5784	63.433	63.096	0.223	0.0	0.1	0.0
5808	63.431	63.096	0.221	0.0	0.1	0.0
5832	63.429	63.096	0.219	0.0	0.1	0.0
5856	63.427	63.096	0.217	0.0	0.1	0.0
5880	63.425	63.096	0.215	0.0	0.1	0.0
5904	63.423	63.096	0.213	0.0	0.1	0.0
5928	63.421	63.096	0.211	0.0	0.1	0.0
5952	63.419	63.096	0.209	0.0	0.1	0.0
5976	63.417	63.096	0.207	0.0	0.1	0.0
6000	63.415	63.096	0.205	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.413	63.096	0.203	0.0	0.1	0.0
6048	63.411	63.096	0.201	0.0	0.1	0.0
6072	63.409	63.096	0.199	0.0	0.1	0.0
6096	63.407	63.096	0.197	0.0	0.1	0.0
6120	63.405	63.096	0.195	0.0	0.1	0.0
6144	63.403	63.096	0.193	0.0	0.1	0.0
6168	63.401	63.096	0.191	0.0	0.1	0.0
6192	63.399	63.096	0.189	0.0	0.1	0.0
6216	63.397	63.096	0.187	0.0	0.1	0.0
6240	63.395	63.096	0.185	0.0	0.1	0.0
6264	63.393	63.096	0.183	0.0	0.1	0.0
6288	63.391	63.096	0.181	0.0	0.1	0.0
6312	63.388	63.096	0.178	0.0	0.1	0.0
6336	63.386	63.096	0.176	0.0	0.1	0.0
6360	63.384	63.096	0.174	0.0	0.1	0.0
6384	63.382	63.096	0.172	0.0	0.1	0.0
6408	63.380	63.096	0.170	0.0	0.1	0.0
6432	63.378	63.096	0.168	0.0	0.1	0.0
6456	63.376	63.096	0.166	0.0	0.1	0.0
6480	63.374	63.096	0.164	0.0	0.1	0.0
6504	63.371	63.096	0.161	0.0	0.1	0.0
6528	63.369	63.096	0.159	0.0	0.1	0.0
6552	63.367	63.096	0.157	0.0	0.1	0.0
6576	63.365	63.096	0.155	0.0	0.1	0.0
6600	63.363	63.096	0.153	0.0	0.1	0.0
6624	63.361	63.096	0.151	0.0	0.1	0.0
6648	63.359	63.096	0.149	0.0	0.1	0.0
6672	63.357	63.096	0.147	0.0	0.1	0.0
6696	63.354	63.096	0.144	0.0	0.1	0.0
6720	63.352	63.096	0.142	0.0	0.1	0.0
6744	63.350	63.096	0.140	0.0	0.1	0.0
6768	63.348	63.096	0.138	0.0	0.1	0.0
6792	63.345	63.096	0.135	0.0	0.1	0.0
6816	63.342	63.096	0.132	0.0	0.1	0.0
6840	63.339	63.096	0.129	0.0	0.1	0.0
6864	63.335	63.096	0.125	0.0	0.1	0.0
6888	63.331	63.096	0.121	0.0	0.1	0.0
6912	63.328	63.096	0.118	0.0	0.1	0.0
6936	63.324	63.096	0.114	0.0	0.0	0.0
6960	63.318	63.096	0.108	0.0	0.0	0.0
6984	63.312	63.096	0.102	0.0	0.0	0.0
7008	63.305	63.096	0.095	0.0	0.0	0.0
7032	63.297	63.096	0.087	0.0	0.0	0.0
7056	63.288	63.096	0.078	0.0	0.0	0.0
7080	63.279	63.096	0.069	0.0	0.0	0.0
7104	63.267	63.096	0.057	0.0	0.0	0.0
7128	63.257	63.096	0.047	0.0	0.0	0.0
7152	63.252	63.096	0.042	0.0	0.0	0.0
7176	63.251	63.096	0.041	0.0	0.0	0.0
7200	63.249	63.096	0.039	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.251	63.096	0.041	0.0	0.0	0.0
7248	63.264	63.096	0.054	0.0	0.0	0.0
7272	63.273	63.096	0.063	0.0	0.0	0.0
7296	63.276	63.096	0.066	0.0	0.0	0.0
7320	63.277	63.096	0.067	0.0	0.0	0.0
7344	63.276	63.096	0.066	0.0	0.0	0.0
7368	63.275	63.096	0.065	0.0	0.0	0.0
7392	63.272	63.096	0.062	0.0	0.0	0.0
7416	63.270	63.096	0.060	0.0	0.0	0.0
7440	63.267	63.096	0.057	0.0	0.0	0.0
7464	63.265	63.096	0.055	0.0	0.0	0.0
7488	63.262	63.096	0.052	0.0	0.0	0.0
7512	63.259	63.096	0.049	0.0	0.0	0.0
7536	63.257	63.096	0.047	0.0	0.0	0.0
7560	63.254	63.096	0.044	0.0	0.0	0.0
7584	63.251	63.096	0.041	0.0	0.0	0.0
7608	63.253	63.096	0.043	0.0	0.0	0.0
7632	63.253	63.096	0.043	0.0	0.0	0.0
7656	63.251	63.096	0.041	0.0	0.0	0.0
7680	63.251	63.096	0.041	0.0	0.0	0.0
7704	63.250	63.096	0.040	0.0	0.0	0.0
7728	63.250	63.096	0.040	0.0	0.0	0.0
7752	63.249	63.096	0.039	0.0	0.0	0.0
7776	63.249	63.096	0.039	0.0	0.0	0.0
7800	63.249	63.096	0.039	0.0	0.0	0.0
7824	63.250	63.096	0.040	0.0	0.0	0.0
7848	63.249	63.096	0.039	0.0	0.0	0.0
7872	63.248	63.096	0.038	0.0	0.0	0.0
7896	63.245	63.096	0.035	0.0	0.0	0.0
7920	63.237	63.096	0.027	0.0	0.0	0.0
7944	63.224	63.096	0.014	0.0	0.0	0.0
7968	63.209	63.096	-0.001	0.0	0.0	0.0
7992	63.193	63.096	-0.017	0.0	0.0	0.0
8016	63.176	63.096	-0.034	0.0	0.0	0.0
8040	63.157	63.096	-0.053	0.0	0.0	0.0
8064	63.138	63.096	-0.072	0.0	0.0	0.0
8088	63.127	63.096	-0.083	0.0	0.0	0.0
8112	63.120	63.096	-0.090	0.0	0.0	0.0
8136	63.115	63.096	-0.095	0.0	0.0	0.0
8160	63.112	63.096	-0.098	0.0	0.0	0.0
8184	63.110	63.096	-0.100	0.0	0.0	0.0
8208	63.108	63.096	-0.102	0.0	0.0	0.0
8232	63.107	63.096	-0.103	0.0	0.0	0.0
8256	63.106	63.096	-0.104	0.0	0.0	0.0
8280	63.105	63.096	-0.105	0.0	0.0	0.0
8304	63.105	63.096	-0.105	0.0	0.0	0.0
8328	63.104	63.096	-0.106	0.0	0.0	0.0
8352	63.104	63.096	-0.106	0.0	0.0	0.0
8376	63.104	63.096	-0.106	0.0	0.0	0.0
8400	63.103	63.096	-0.107	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.103	63.096	-0.107	0.0	0.0	0.0
8448	63.103	63.096	-0.107	0.0	0.0	0.0
8472	63.103	63.096	-0.107	0.0	0.0	0.0
8496	63.102	63.096	-0.108	0.0	0.0	0.0
8520	63.102	63.096	-0.108	0.0	0.0	0.0
8544	63.102	63.096	-0.108	0.0	0.0	0.0
8568	63.102	63.096	-0.108	0.0	0.0	0.0
8592	63.102	63.096	-0.108	0.0	0.0	0.0
8616	63.102	63.096	-0.108	0.0	0.0	0.0
8640	63.102	63.096	-0.108	0.0	0.0	0.0
8664	63.101	63.096	-0.109	0.0	0.0	0.0
8688	63.101	63.096	-0.109	0.0	0.0	0.0
8712	63.101	63.096	-0.109	0.0	0.0	0.0
8736	63.101	63.096	-0.109	0.0	0.0	0.0
8760	63.101	63.096	-0.109	0.0	0.0	0.0
8784	63.101	63.096	-0.109	0.0	0.0	0.0
8808	63.101	63.096	-0.109	0.0	0.0	0.0
8832	63.101	63.096	-0.109	0.0	0.0	0.0
8856	63.101	63.096	-0.109	0.0	0.0	0.0
8880	63.101	63.096	-0.109	0.0	0.0	0.0
8904	63.101	63.096	-0.109	0.0	0.0	0.0
8928	63.101	63.096	-0.109	0.0	0.0	0.0
8952	63.101	63.096	-0.109	0.0	0.0	0.0
8976	63.101	63.096	-0.109	0.0	0.0	0.0
9000	63.101	63.096	-0.109	0.0	0.0	0.0
9024	63.101	63.096	-0.109	0.0	0.0	0.0
9048	63.101	63.096	-0.109	0.0	0.0	0.0
9072	63.101	63.096	-0.109	0.0	0.0	0.0
9096	63.101	63.096	-0.109	0.0	0.0	0.0
9120	63.101	63.096	-0.109	0.0	0.0	0.0
9144	63.101	63.096	-0.109	0.0	0.0	0.0
9168	63.101	63.096	-0.109	0.0	0.0	0.0
9192	63.101	63.096	-0.109	0.0	0.0	0.0
9216	63.101	63.096	-0.109	0.0	0.0	0.0
9240	63.101	63.096	-0.109	0.0	0.0	0.0
9264	63.101	63.096	-0.109	0.0	0.0	0.0
9288	63.101	63.096	-0.109	0.0	0.0	0.0
9312	63.101	63.096	-0.109	0.0	0.0	0.0
9336	63.101	63.096	-0.109	0.0	0.0	0.0
9360	63.100	63.096	-0.110	0.0	0.0	0.0
9384	63.100	63.096	-0.110	0.0	0.0	0.0
9408	63.100	63.096	-0.110	0.0	0.0	0.0
9432	63.100	63.096	-0.110	0.0	0.0	0.0
9456	63.100	63.096	-0.110	0.0	0.0	0.0
9480	63.100	63.096	-0.110	0.0	0.0	0.0
9504	63.100	63.096	-0.110	0.0	0.0	0.0
9528	63.100	63.096	-0.110	0.0	0.0	0.0
9552	63.100	63.096	-0.110	0.0	0.0	0.0
9576	63.100	63.096	-0.110	0.0	0.0	0.0
9600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.100	63.096	-0.110	0.0	0.0	0.0
9648	63.100	63.096	-0.110	0.0	0.0	0.0
9672	63.100	63.096	-0.110	0.0	0.0	0.0
9696	63.100	63.096	-0.110	0.0	0.0	0.0
9720	63.100	63.096	-0.110	0.0	0.0	0.0
9744	63.100	63.096	-0.110	0.0	0.0	0.0
9768	63.100	63.096	-0.110	0.0	0.0	0.0
9792	63.100	63.096	-0.110	0.0	0.0	0.0
9816	63.100	63.096	-0.110	0.0	0.0	0.0
9840	63.100	63.096	-0.110	0.0	0.0	0.0
9864	63.100	63.096	-0.110	0.0	0.0	0.0
9888	63.100	63.096	-0.110	0.0	0.0	0.0
9912	63.100	63.096	-0.110	0.0	0.0	0.0
9936	63.100	63.096	-0.110	0.0	0.0	0.0
9960	63.100	63.096	-0.110	0.0	0.0	0.0
9984	63.100	63.096	-0.110	0.0	0.0	0.0
10008	63.100	63.096	-0.110	0.0	0.0	0.0
10032	63.100	63.096	-0.110	0.0	0.0	0.0
10056	63.100	63.096	-0.110	0.0	0.0	0.0
10080	63.100	63.096	-0.110	0.0	0.0	0.0
10104	63.100	63.096	-0.110	0.0	0.0	0.0
10128	63.100	63.096	-0.110	0.0	0.0	0.0
10152	63.100	63.096	-0.110	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Summer
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	14400
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	7200
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 7200 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.0	OK
1.001	S1	63.524	-0.080	0.000	0.01	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.0	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.523	-0.031	0.000	0.02	0.0	0.2	OK
1.003	S4	63.523	0.163	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.468	0.258	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 7200 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.036	1296	0.488	2568	1.497	3840	2.579	5112	0.952
48	0.036	1320	0.497	2592	1.497	3864	2.579	5136	0.880
72	0.036	1344	0.497	2616	1.601	3888	2.579	5160	0.880
96	0.139	1368	0.497	2640	1.601	3912	2.505	5184	0.880
120	0.139	1392	0.510	2664	1.601	3936	2.505	5208	0.813
144	0.139	1416	0.510	2688	1.707	3960	2.505	5232	0.813
168	0.224	1440	0.510	2712	1.707	3984	2.422	5256	0.813
192	0.224	1464	0.527	2736	1.707	4008	2.422	5280	0.754
216	0.224	1488	0.527	2760	1.814	4032	2.422	5304	0.754
240	0.293	1512	0.527	2784	1.814	4056	2.331	5328	0.754
264	0.293	1536	0.550	2808	1.814	4080	2.331	5352	0.700
288	0.293	1560	0.550	2832	1.922	4104	2.331	5376	0.700
312	0.349	1584	0.550	2856	1.922	4128	2.234	5400	0.700
336	0.349	1608	0.578	2880	1.922	4152	2.234	5424	0.653
360	0.349	1632	0.578	2904	2.029	4176	2.234	5448	0.653
384	0.392	1656	0.578	2928	2.029	4200	2.133	5472	0.653
408	0.392	1680	0.613	2952	2.029	4224	2.133	5496	0.613
432	0.392	1704	0.613	2976	2.133	4248	2.133	5520	0.613
456	0.424	1728	0.613	3000	2.133	4272	2.029	5544	0.613
480	0.424	1752	0.653	3024	2.133	4296	2.029	5568	0.578
504	0.424	1776	0.653	3048	2.234	4320	2.029	5592	0.578
528	0.447	1800	0.653	3072	2.234	4344	1.922	5616	0.578
552	0.447	1824	0.700	3096	2.234	4368	1.922	5640	0.550
576	0.447	1848	0.700	3120	2.331	4392	1.922	5664	0.550
600	0.464	1872	0.700	3144	2.331	4416	1.815	5688	0.550
624	0.464	1896	0.754	3168	2.331	4440	1.815	5712	0.527
648	0.464	1920	0.754	3192	2.422	4464	1.815	5736	0.527
672	0.474	1944	0.754	3216	2.422	4488	1.707	5760	0.527
696	0.474	1968	0.813	3240	2.422	4512	1.707	5784	0.510
720	0.474	1992	0.813	3264	2.505	4536	1.707	5808	0.510
744	0.479	2016	0.813	3288	2.505	4560	1.601	5832	0.510
768	0.479	2040	0.880	3312	2.505	4584	1.601	5856	0.497
792	0.479	2064	0.880	3336	2.579	4608	1.601	5880	0.497
816	0.481	2088	0.880	3360	2.579	4632	1.497	5904	0.497
840	0.481	2112	0.952	3384	2.579	4656	1.497	5928	0.488
864	0.481	2136	0.952	3408	2.643	4680	1.497	5952	0.488
888	0.481	2160	0.952	3432	2.643	4704	1.395	5976	0.488
912	0.481	2184	1.030	3456	2.643	4728	1.395	6000	0.483
936	0.481	2208	1.030	3480	2.694	4752	1.395	6024	0.483
960	0.481	2232	1.030	3504	2.694	4776	1.297	6048	0.483
984	0.481	2256	1.114	3528	2.694	4800	1.297	6072	0.480
1008	0.481	2280	1.114	3552	2.731	4824	1.297	6096	0.480
1032	0.480	2304	1.114	3576	2.731	4848	1.203	6120	0.480
1056	0.480	2328	1.203	3600	2.731	4872	1.203	6144	0.480
1080	0.480	2352	1.203	3624	2.731	4896	1.203	6168	0.480
1104	0.480	2376	1.203	3648	2.731	4920	1.114	6192	0.480
1128	0.480	2400	1.297	3672	2.731	4944	1.114	6216	0.481
1152	0.480	2424	1.297	3696	2.694	4968	1.114	6240	0.481
1176	0.483	2448	1.297	3720	2.694	4992	1.030	6264	0.481
1200	0.483	2472	1.395	3744	2.694	5016	1.030	6288	0.481
1224	0.483	2496	1.395	3768	2.643	5040	1.030	6312	0.481
1248	0.488	2520	1.395	3792	2.643	5064	0.952	6336	0.481
1272	0.488	2544	1.497	3816	2.643	5088	0.952	6360	0.481

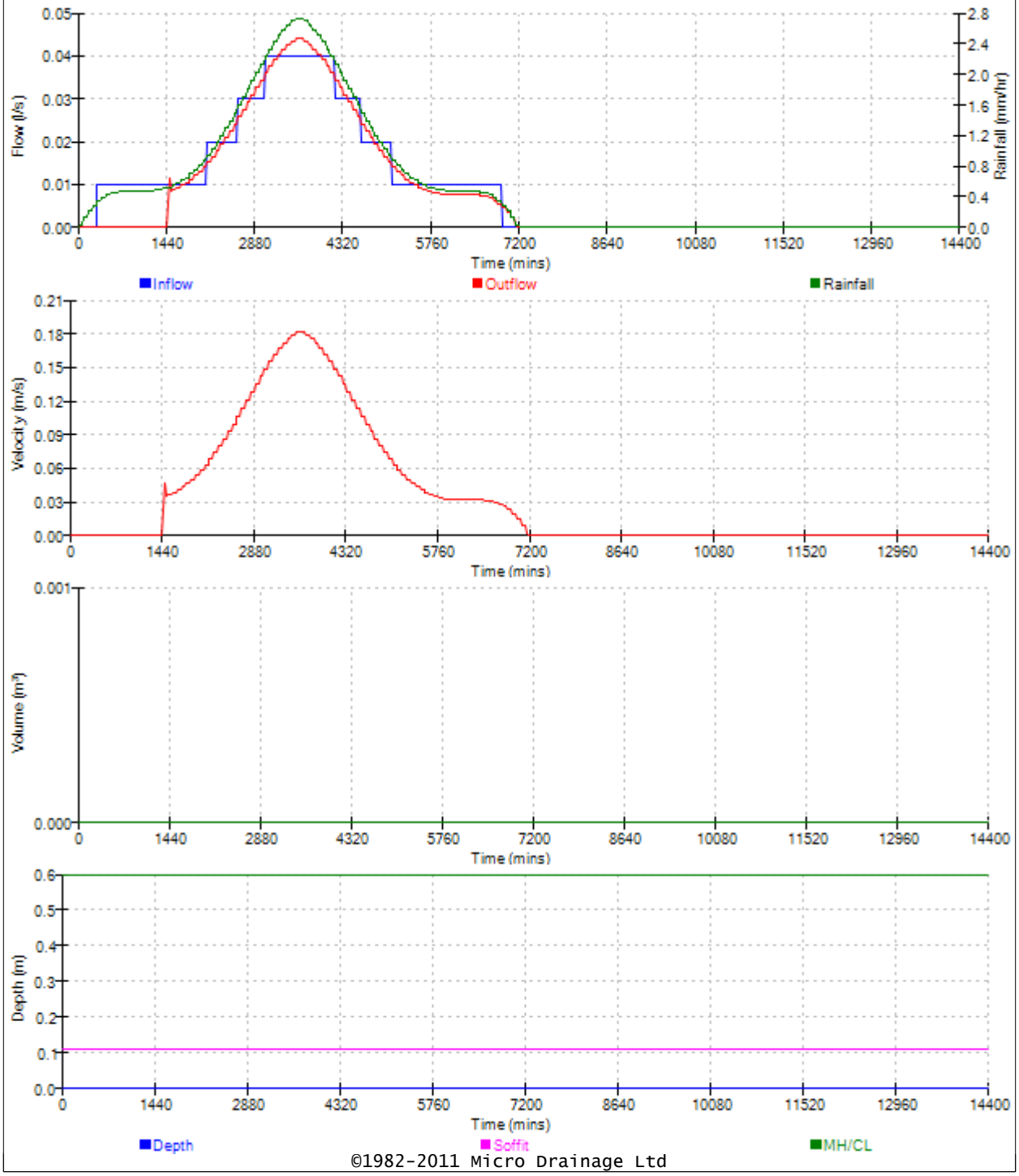
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Rainfall Hyetograph for 7200 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	0.481	6552	0.474	6720	0.424	6888	0.349	7056	0.224
6408	0.481	6576	0.464	6744	0.424	6912	0.349	7080	0.139
6432	0.479	6600	0.464	6768	0.424	6936	0.293	7104	0.139
6456	0.479	6624	0.464	6792	0.392	6960	0.293	7128	0.139
6480	0.479	6648	0.447	6816	0.392	6984	0.293	7152	0.036
6504	0.474	6672	0.447	6840	0.392	7008	0.224	7176	0.036
6528	0.474	6696	0.447	6864	0.349	7032	0.224	7200	0.036

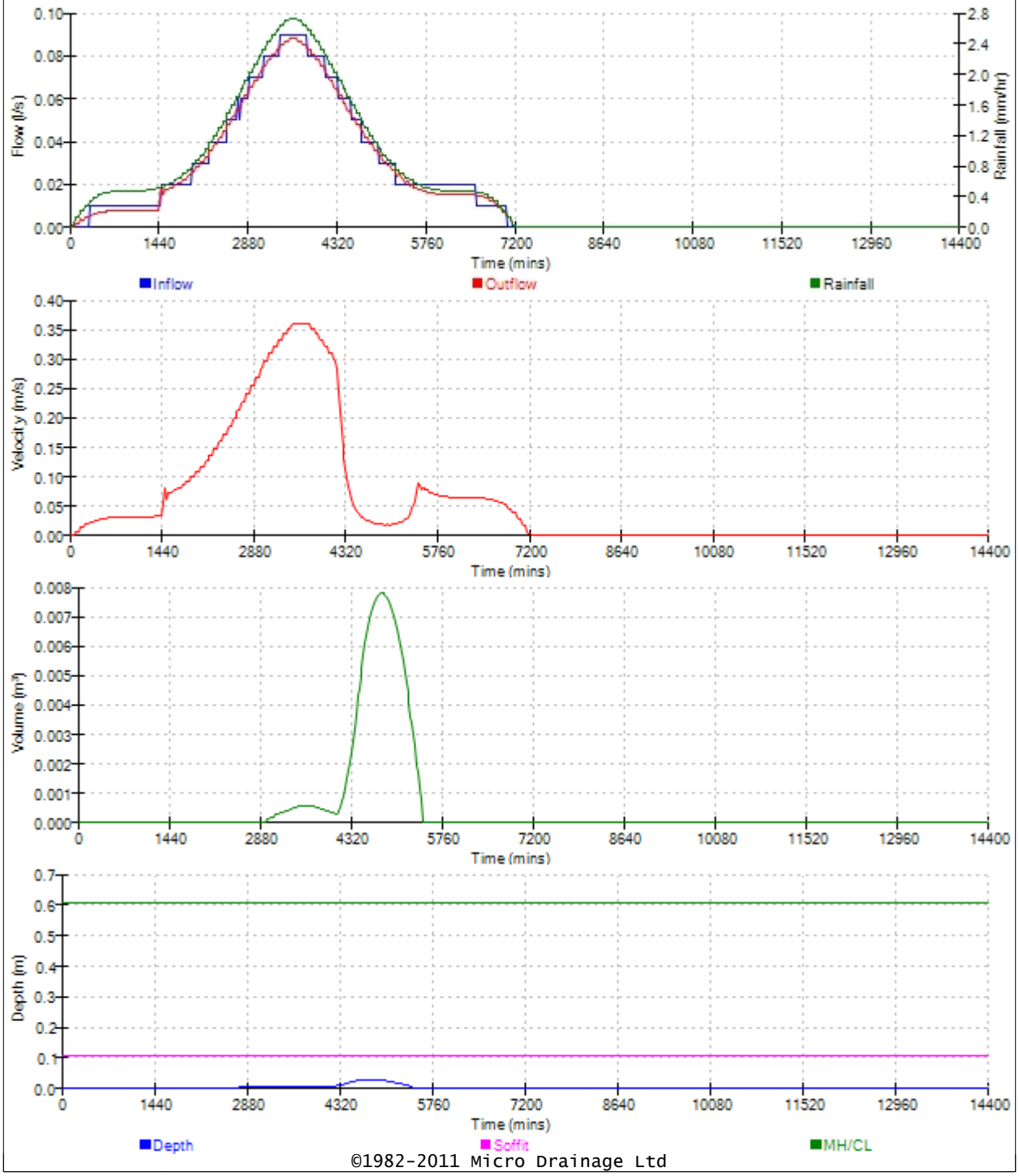
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Status: OK



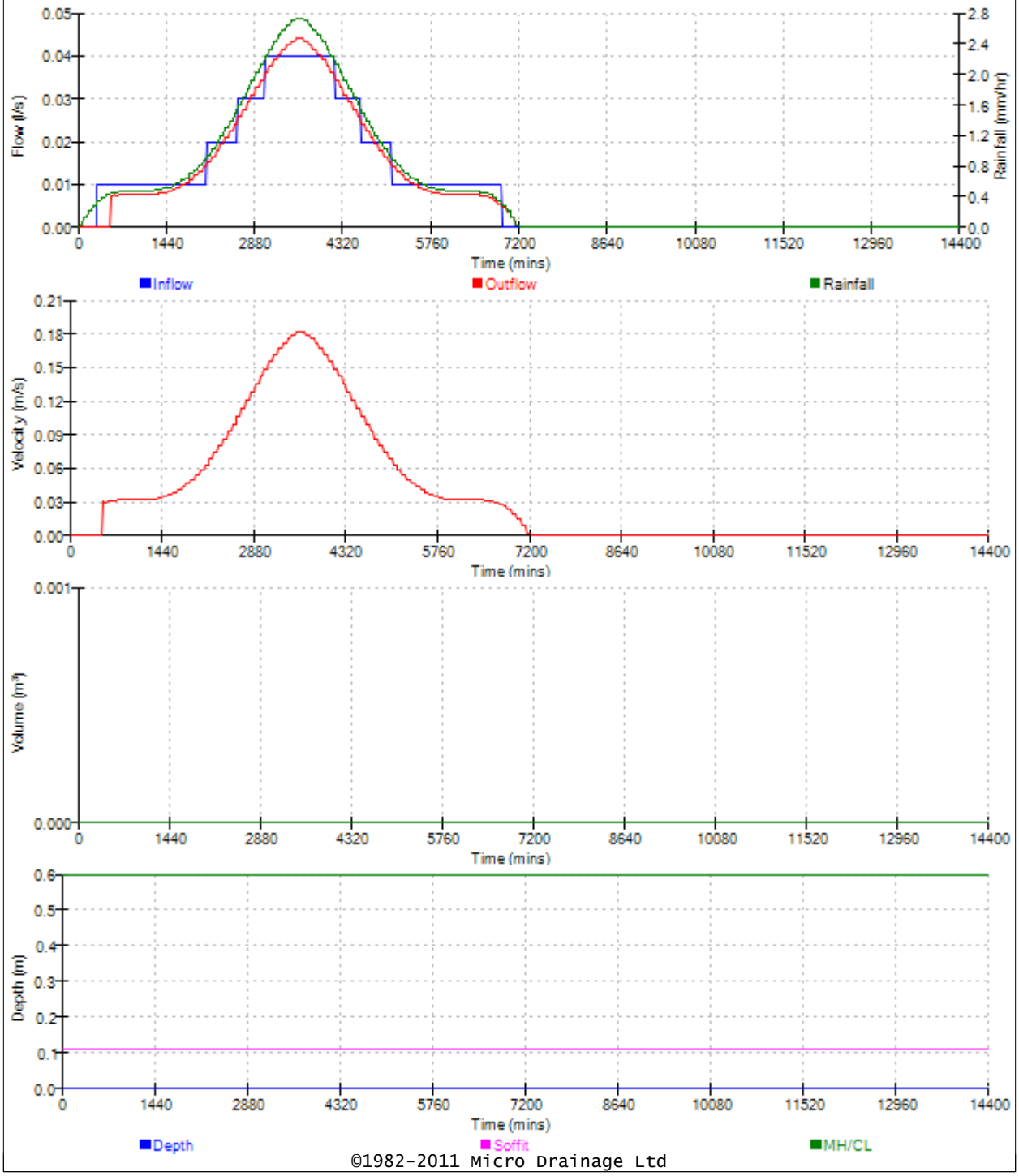
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Graphs for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Status: OK



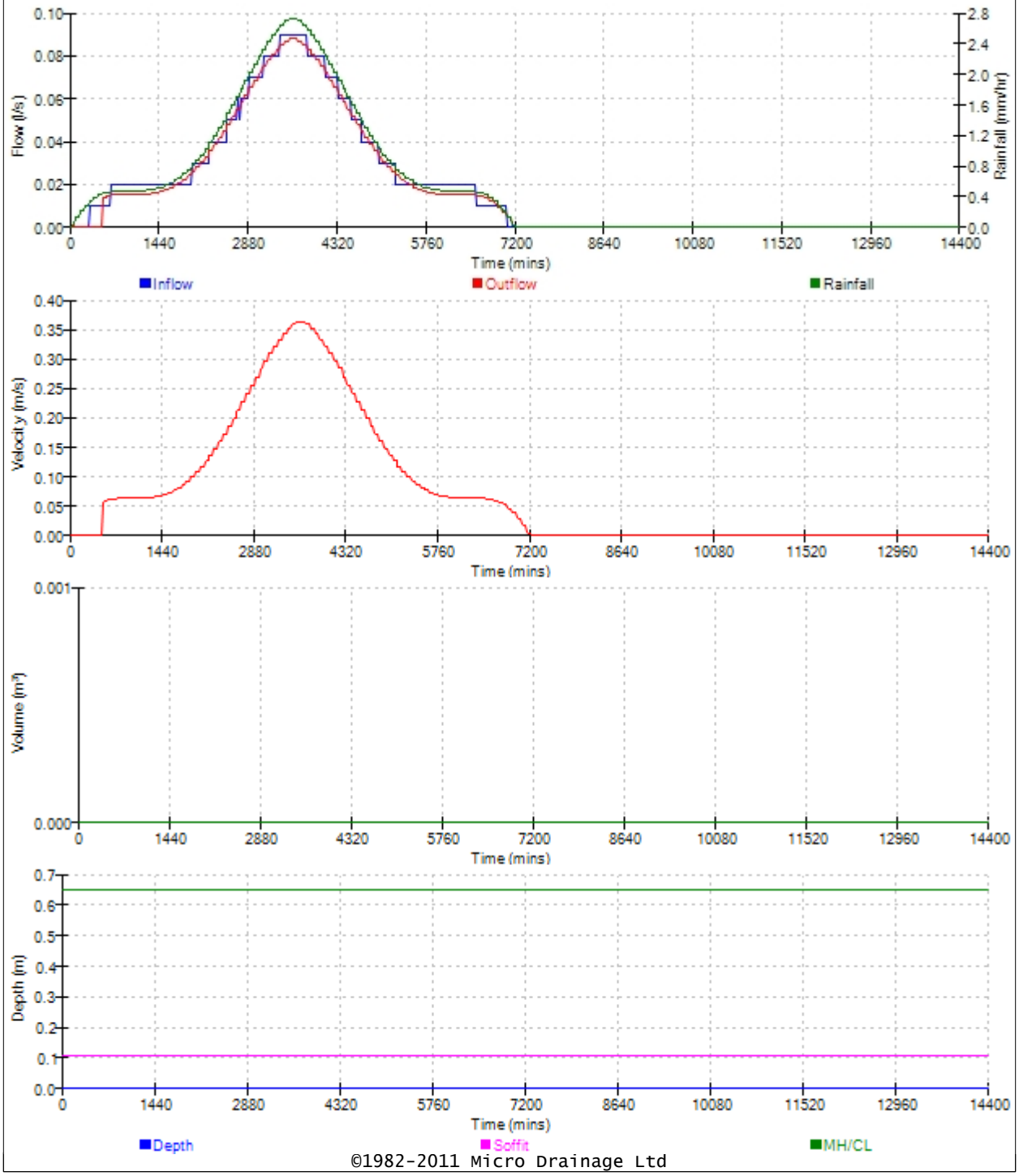
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Status: OK



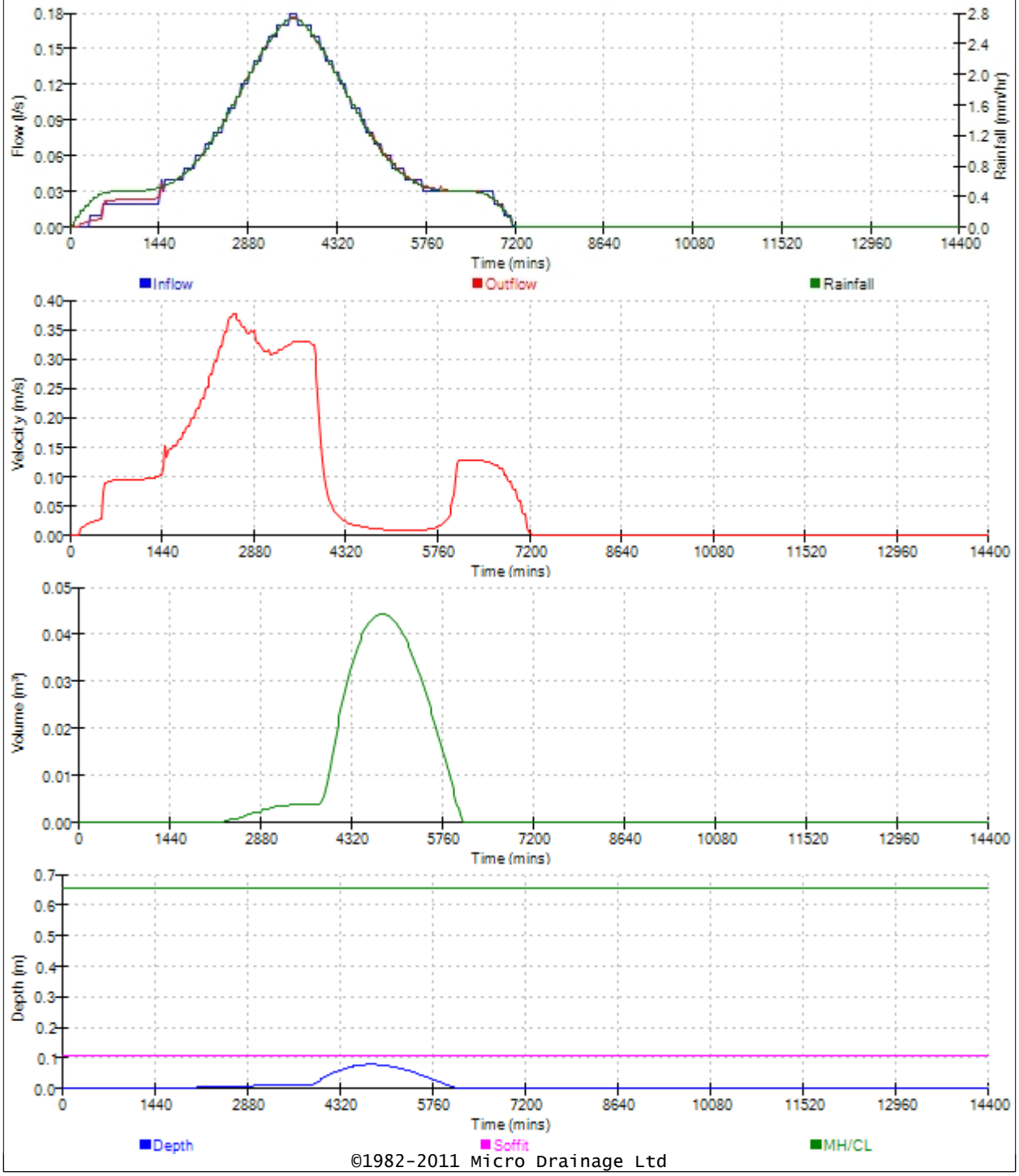
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Graphs for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Status: OK



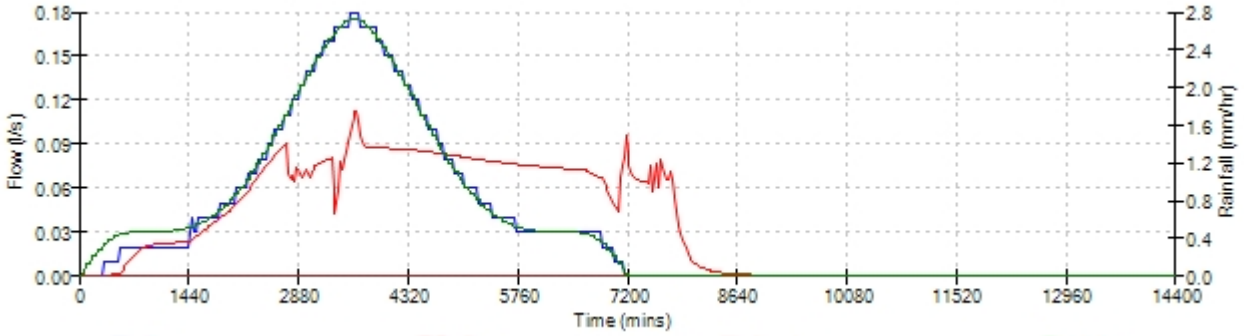
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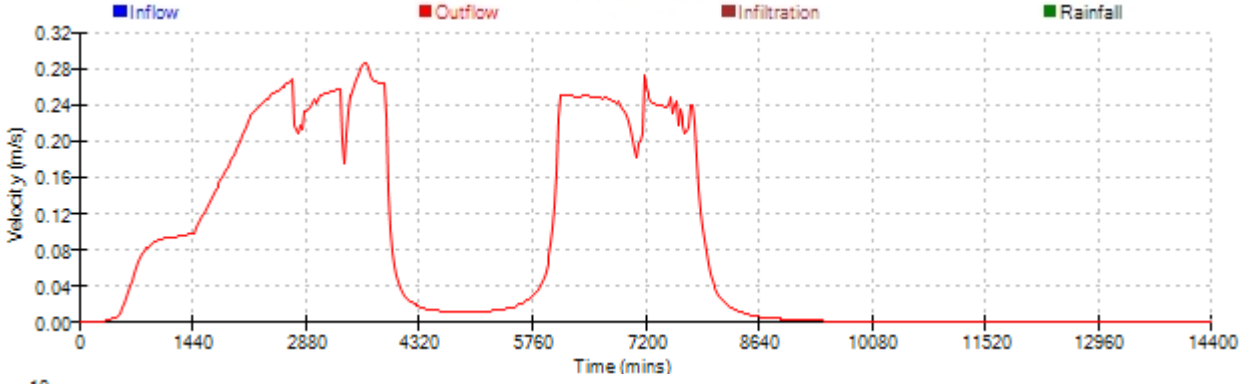
Graphs for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Status: OK

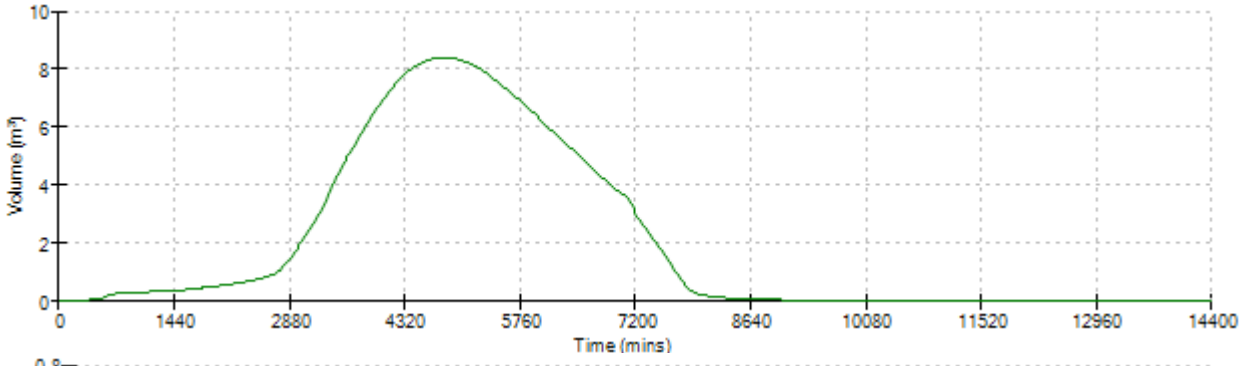


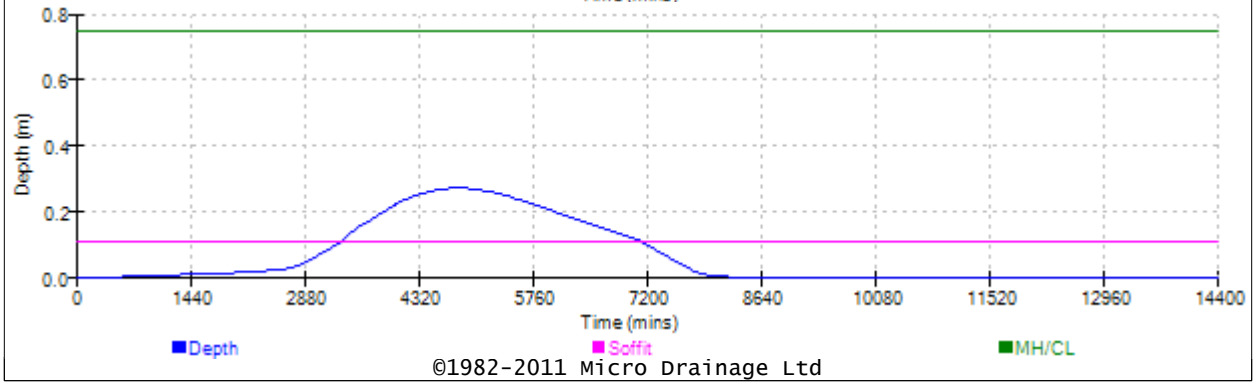
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Graphs for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Status: SURCHARGED



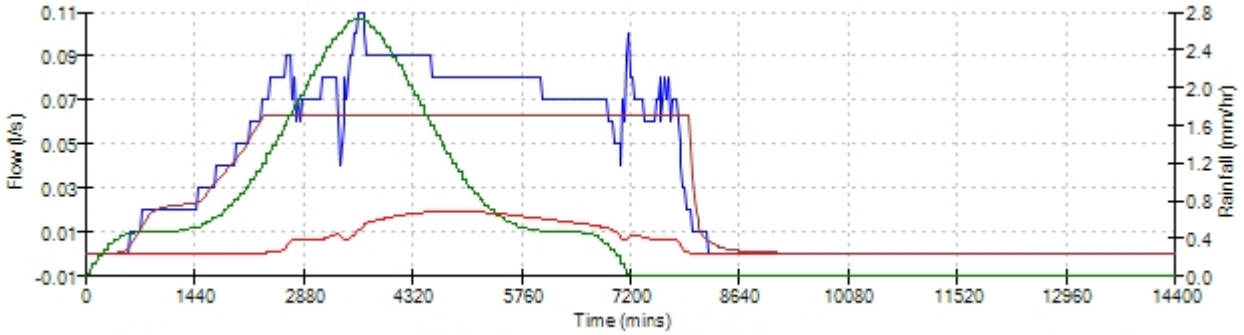


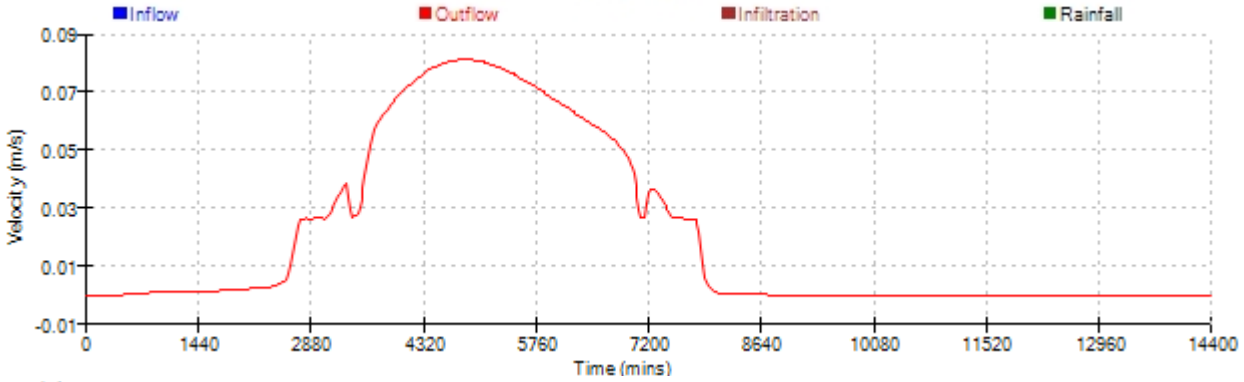


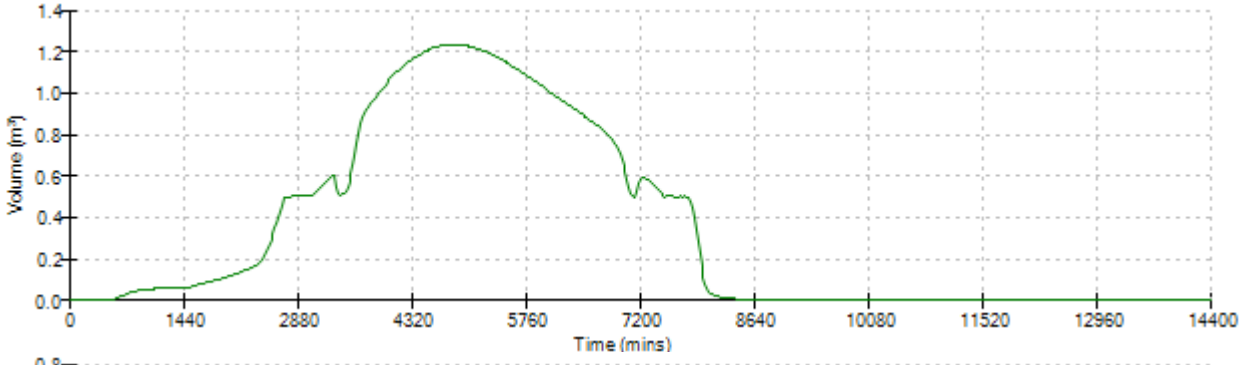


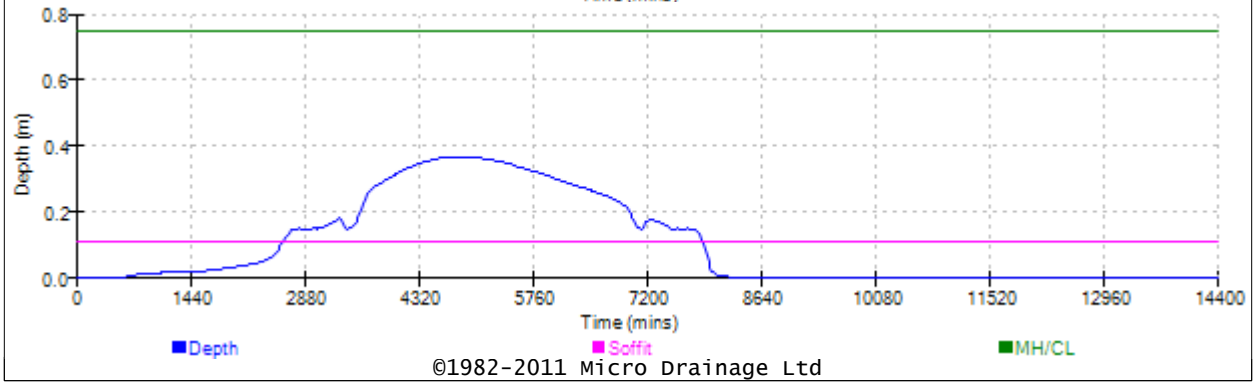
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.494	-0.110	0.0	0.0	0.0
96	65.400	63.494	-0.110	0.0	0.0	0.0
120	65.400	63.494	-0.110	0.0	0.0	0.0
144	65.400	63.494	-0.110	0.0	0.0	0.0
168	65.400	63.494	-0.110	0.0	0.0	0.0
192	65.400	63.494	-0.110	0.0	0.0	0.0
216	65.400	63.494	-0.110	0.0	0.0	0.0
240	65.400	63.494	-0.110	0.0	0.0	0.0
264	65.400	63.494	-0.110	0.0	0.0	0.0
288	65.400	63.494	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.495	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.496	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.496	-0.110	0.0	0.0	0.0
1560	65.400	63.496	-0.110	0.0	0.0	0.0
1584	65.400	63.496	-0.110	0.0	0.0	0.0
1608	65.400	63.496	-0.110	0.0	0.0	0.0
1632	65.400	63.496	-0.110	0.0	0.0	0.0
1656	65.400	63.496	-0.110	0.0	0.0	0.0
1680	65.400	63.496	-0.110	0.0	0.0	0.0
1704	65.400	63.496	-0.110	0.0	0.0	0.0
1728	65.400	63.496	-0.110	0.0	0.0	0.0
1752	65.400	63.496	-0.110	0.0	0.0	0.0
1776	65.400	63.496	-0.110	0.0	0.0	0.0
1800	65.400	63.496	-0.110	0.0	0.0	0.0
1824	65.400	63.496	-0.110	0.0	0.0	0.0
1848	65.400	63.496	-0.110	0.0	0.0	0.0
1872	65.400	63.496	-0.110	0.0	0.0	0.0
1896	65.400	63.496	-0.110	0.0	0.1	0.0
1920	65.400	63.496	-0.110	0.0	0.1	0.0
1944	65.400	63.496	-0.110	0.0	0.1	0.0
1968	65.400	63.496	-0.110	0.0	0.1	0.0
1992	65.400	63.496	-0.110	0.0	0.1	0.0
2016	65.400	63.496	-0.110	0.0	0.1	0.0
2040	65.400	63.496	-0.110	0.0	0.1	0.0
2064	65.400	63.496	-0.110	0.0	0.1	0.0
2088	65.400	63.496	-0.110	0.0	0.1	0.0
2112	65.400	63.496	-0.110	0.0	0.1	0.0
2136	65.400	63.496	-0.110	0.0	0.1	0.0
2160	65.400	63.496	-0.110	0.0	0.1	0.0
2184	65.400	63.497	-0.110	0.0	0.1	0.0
2208	65.400	63.497	-0.110	0.0	0.1	0.0
2232	65.400	63.497	-0.110	0.0	0.1	0.0
2256	65.400	63.497	-0.110	0.0	0.1	0.0
2280	65.400	63.497	-0.110	0.0	0.1	0.0
2304	65.400	63.497	-0.110	0.0	0.1	0.0
2328	65.400	63.497	-0.110	0.0	0.1	0.0
2352	65.400	63.497	-0.110	0.0	0.1	0.0
2376	65.400	63.497	-0.110	0.0	0.1	0.0
2400	65.400	63.497	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.497	-0.110	0.0	0.1	0.0
2448	65.400	63.497	-0.110	0.0	0.1	0.0
2472	65.400	63.498	-0.110	0.0	0.1	0.0
2496	65.400	63.498	-0.110	0.0	0.1	0.0
2520	65.400	63.498	-0.110	0.0	0.1	0.0
2544	65.400	63.498	-0.110	0.0	0.1	0.0
2568	65.400	63.498	-0.110	0.0	0.1	0.0
2592	65.400	63.498	-0.110	0.0	0.1	0.0
2616	65.401	63.498	-0.109	0.0	0.1	0.0
2640	65.401	63.498	-0.109	0.0	0.1	0.0
2664	65.401	63.498	-0.109	0.0	0.1	0.0
2688	65.401	63.498	-0.109	0.0	0.1	0.0
2712	65.401	63.498	-0.109	0.0	0.1	0.0
2736	65.401	63.498	-0.109	0.0	0.1	0.0
2760	65.401	63.499	-0.109	0.0	0.1	0.0
2784	65.401	63.499	-0.109	0.0	0.1	0.0
2808	65.401	63.499	-0.109	0.0	0.1	0.0
2832	65.401	63.499	-0.109	0.0	0.1	0.0
2856	65.401	63.499	-0.109	0.0	0.1	0.0
2880	65.401	63.499	-0.109	0.0	0.1	0.0
2904	65.401	63.499	-0.109	0.0	0.1	0.0
2928	65.401	63.499	-0.109	0.0	0.1	0.0
2952	65.401	63.499	-0.109	0.0	0.1	0.0
2976	65.401	63.499	-0.109	0.0	0.1	0.0
3000	65.401	63.499	-0.109	0.0	0.1	0.0
3024	65.401	63.499	-0.109	0.0	0.1	0.0
3048	65.401	63.500	-0.109	0.0	0.1	0.0
3072	65.401	63.500	-0.109	0.0	0.1	0.0
3096	65.401	63.500	-0.109	0.0	0.1	0.0
3120	65.401	63.500	-0.109	0.0	0.2	0.0
3144	65.401	63.500	-0.109	0.0	0.2	0.0
3168	65.401	63.500	-0.109	0.0	0.2	0.0
3192	65.401	63.500	-0.109	0.0	0.2	0.0
3216	65.401	63.500	-0.109	0.0	0.2	0.0
3240	65.401	63.500	-0.109	0.0	0.2	0.0
3264	65.401	63.500	-0.109	0.0	0.2	0.0
3288	65.401	63.500	-0.109	0.0	0.2	0.0
3312	65.401	63.500	-0.109	0.0	0.2	0.0
3336	65.401	63.501	-0.109	0.0	0.2	0.0
3360	65.401	63.501	-0.109	0.0	0.2	0.0
3384	65.401	63.501	-0.109	0.0	0.2	0.0
3408	65.401	63.501	-0.109	0.0	0.2	0.0
3432	65.401	63.501	-0.109	0.0	0.2	0.0
3456	65.401	63.501	-0.109	0.0	0.2	0.0
3480	65.401	63.501	-0.109	0.0	0.2	0.0
3504	65.401	63.501	-0.109	0.0	0.2	0.0
3528	65.401	63.501	-0.109	0.0	0.2	0.0
3552	65.401	63.501	-0.109	0.0	0.2	0.0
3576	65.401	63.501	-0.109	0.0	0.2	0.0
3600	65.401	63.501	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.501	-0.109	0.0	0.2	0.0
3648	65.401	63.501	-0.109	0.0	0.2	0.0
3672	65.401	63.501	-0.109	0.0	0.2	0.0
3696	65.401	63.501	-0.109	0.0	0.2	0.0
3720	65.401	63.501	-0.109	0.0	0.2	0.0
3744	65.401	63.501	-0.109	0.0	0.2	0.0
3768	65.401	63.501	-0.109	0.0	0.2	0.0
3792	65.401	63.501	-0.109	0.0	0.2	0.0
3816	65.401	63.501	-0.109	0.0	0.2	0.0
3840	65.401	63.501	-0.109	0.0	0.2	0.0
3864	65.401	63.501	-0.109	0.0	0.2	0.0
3888	65.401	63.501	-0.109	0.0	0.2	0.0
3912	65.401	63.500	-0.109	0.0	0.2	0.0
3936	65.401	63.500	-0.109	0.0	0.2	0.0
3960	65.401	63.500	-0.109	0.0	0.2	0.0
3984	65.401	63.500	-0.109	0.0	0.2	0.0
4008	65.401	63.500	-0.109	0.0	0.2	0.0
4032	65.401	63.500	-0.109	0.0	0.2	0.0
4056	65.401	63.500	-0.109	0.0	0.2	0.0
4080	65.401	63.500	-0.109	0.0	0.2	0.0
4104	65.401	63.500	-0.109	0.0	0.2	0.0
4128	65.401	63.500	-0.109	0.0	0.1	0.0
4152	65.401	63.501	-0.109	0.0	0.1	0.0
4176	65.401	63.501	-0.109	0.0	0.1	0.0
4200	65.401	63.502	-0.109	0.0	0.1	0.0
4224	65.401	63.503	-0.109	0.0	0.1	0.0
4248	65.401	63.504	-0.109	0.0	0.1	0.0
4272	65.401	63.505	-0.109	0.0	0.1	0.0
4296	65.401	63.506	-0.109	0.0	0.1	0.0
4320	65.401	63.507	-0.109	0.0	0.1	0.0
4344	65.401	63.508	-0.109	0.0	0.1	0.0
4368	65.401	63.509	-0.109	0.0	0.1	0.0
4392	65.401	63.511	-0.109	0.0	0.1	0.0
4416	65.401	63.513	-0.109	0.0	0.1	0.0
4440	65.401	63.513	-0.109	0.0	0.1	0.0
4464	65.401	63.515	-0.109	0.0	0.1	0.0
4488	65.401	63.516	-0.109	0.0	0.1	0.0
4512	65.401	63.517	-0.109	0.0	0.1	0.0
4536	65.401	63.518	-0.109	0.0	0.1	0.0
4560	65.401	63.519	-0.109	0.0	0.1	0.0
4584	65.401	63.520	-0.109	0.0	0.1	0.0
4608	65.401	63.521	-0.109	0.0	0.1	0.0
4632	65.400	63.521	-0.110	0.0	0.1	0.0
4656	65.400	63.522	-0.110	0.0	0.1	0.0
4680	65.400	63.523	-0.110	0.0	0.1	0.0
4704	65.400	63.523	-0.110	0.0	0.1	0.0
4728	65.400	63.523	-0.110	0.0	0.1	0.0
4752	65.400	63.523	-0.110	0.0	0.1	0.0
4776	65.400	63.524	-0.110	0.0	0.1	0.0
4800	65.400	63.524	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.400	63.524	-0.110	0.0	0.1	0.0
4848	65.400	63.523	-0.110	0.0	0.1	0.0
4872	65.400	63.523	-0.110	0.0	0.1	0.0
4896	65.400	63.523	-0.110	0.0	0.1	0.0
4920	65.400	63.523	-0.110	0.0	0.1	0.0
4944	65.400	63.522	-0.110	0.0	0.1	0.0
4968	65.400	63.522	-0.110	0.0	0.1	0.0
4992	65.400	63.521	-0.110	0.0	0.1	0.0
5016	65.400	63.520	-0.110	0.0	0.1	0.0
5040	65.400	63.520	-0.110	0.0	0.1	0.0
5064	65.400	63.519	-0.110	0.0	0.1	0.0
5088	65.400	63.518	-0.110	0.0	0.1	0.0
5112	65.400	63.517	-0.110	0.0	0.1	0.0
5136	65.400	63.516	-0.110	0.0	0.1	0.0
5160	65.400	63.515	-0.110	0.0	0.1	0.0
5184	65.400	63.514	-0.110	0.0	0.1	0.0
5208	65.400	63.513	-0.110	0.0	0.1	0.0
5232	65.400	63.512	-0.110	0.0	0.1	0.0
5256	65.400	63.510	-0.110	0.0	0.1	0.0
5280	65.400	63.510	-0.110	0.0	0.1	0.0
5304	65.400	63.509	-0.110	0.0	0.1	0.0
5328	65.400	63.507	-0.110	0.0	0.1	0.0
5352	65.400	63.505	-0.110	0.0	0.0	0.0
5376	65.400	63.504	-0.110	0.0	0.0	0.0
5400	65.400	63.503	-0.110	0.0	0.0	0.0
5424	65.400	63.501	-0.110	0.0	0.0	0.0
5448	65.400	63.498	-0.110	0.0	0.0	0.0
5472	65.400	63.498	-0.110	0.0	0.0	0.0
5496	65.400	63.498	-0.110	0.0	0.0	0.0
5520	65.400	63.497	-0.110	0.0	0.0	0.0
5544	65.400	63.497	-0.110	0.0	0.0	0.0
5568	65.400	63.496	-0.110	0.0	0.0	0.0
5592	65.400	63.496	-0.110	0.0	0.0	0.0
5616	65.400	63.496	-0.110	0.0	0.0	0.0
5640	65.400	63.496	-0.110	0.0	0.0	0.0
5664	65.400	63.496	-0.110	0.0	0.0	0.0
5688	65.400	63.496	-0.110	0.0	0.0	0.0
5712	65.400	63.495	-0.110	0.0	0.0	0.0
5736	65.400	63.495	-0.110	0.0	0.0	0.0
5760	65.400	63.495	-0.110	0.0	0.0	0.0
5784	65.400	63.495	-0.110	0.0	0.0	0.0
5808	65.400	63.495	-0.110	0.0	0.0	0.0
5832	65.400	63.495	-0.110	0.0	0.0	0.0
5856	65.400	63.495	-0.110	0.0	0.0	0.0
5880	65.400	63.495	-0.110	0.0	0.0	0.0
5904	65.400	63.495	-0.110	0.0	0.0	0.0
5928	65.400	63.495	-0.110	0.0	0.0	0.0
5952	65.400	63.495	-0.110	0.0	0.0	0.0
5976	65.400	63.495	-0.110	0.0	0.0	0.0
6000	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.495	-0.110	0.0	0.0	0.0
6048	65.400	63.495	-0.110	0.0	0.0	0.0
6072	65.400	63.495	-0.110	0.0	0.0	0.0
6096	65.400	63.495	-0.110	0.0	0.0	0.0
6120	65.400	63.495	-0.110	0.0	0.0	0.0
6144	65.400	63.495	-0.110	0.0	0.0	0.0
6168	65.400	63.495	-0.110	0.0	0.0	0.0
6192	65.400	63.495	-0.110	0.0	0.0	0.0
6216	65.400	63.495	-0.110	0.0	0.0	0.0
6240	65.400	63.495	-0.110	0.0	0.0	0.0
6264	65.400	63.495	-0.110	0.0	0.0	0.0
6288	65.400	63.495	-0.110	0.0	0.0	0.0
6312	65.400	63.495	-0.110	0.0	0.0	0.0
6336	65.400	63.495	-0.110	0.0	0.0	0.0
6360	65.400	63.495	-0.110	0.0	0.0	0.0
6384	65.400	63.495	-0.110	0.0	0.0	0.0
6408	65.400	63.495	-0.110	0.0	0.0	0.0
6432	65.400	63.495	-0.110	0.0	0.0	0.0
6456	65.400	63.495	-0.110	0.0	0.0	0.0
6480	65.400	63.495	-0.110	0.0	0.0	0.0
6504	65.400	63.495	-0.110	0.0	0.0	0.0
6528	65.400	63.495	-0.110	0.0	0.0	0.0
6552	65.400	63.495	-0.110	0.0	0.0	0.0
6576	65.400	63.495	-0.110	0.0	0.0	0.0
6600	65.400	63.495	-0.110	0.0	0.0	0.0
6624	65.400	63.495	-0.110	0.0	0.0	0.0
6648	65.400	63.495	-0.110	0.0	0.0	0.0
6672	65.400	63.495	-0.110	0.0	0.0	0.0
6696	65.400	63.495	-0.110	0.0	0.0	0.0
6720	65.400	63.495	-0.110	0.0	0.0	0.0
6744	65.400	63.495	-0.110	0.0	0.0	0.0
6768	65.400	63.495	-0.110	0.0	0.0	0.0
6792	65.400	63.495	-0.110	0.0	0.0	0.0
6816	65.400	63.495	-0.110	0.0	0.0	0.0
6840	65.400	63.495	-0.110	0.0	0.0	0.0
6864	65.400	63.495	-0.110	0.0	0.0	0.0
6888	65.400	63.495	-0.110	0.0	0.0	0.0
6912	65.400	63.495	-0.110	0.0	0.0	0.0
6936	65.400	63.495	-0.110	0.0	0.0	0.0
6960	65.400	63.495	-0.110	0.0	0.0	0.0
6984	65.400	63.495	-0.110	0.0	0.0	0.0
7008	65.400	63.495	-0.110	0.0	0.0	0.0
7032	65.400	63.495	-0.110	0.0	0.0	0.0
7056	65.400	63.495	-0.110	0.0	0.0	0.0
7080	65.400	63.494	-0.110	0.0	0.0	0.0
7104	65.400	63.494	-0.110	0.0	0.0	0.0
7128	65.400	63.494	-0.110	0.0	0.0	0.0
7152	65.400	63.494	-0.110	0.0	0.0	0.0
7176	65.400	63.494	-0.110	0.0	0.0	0.0
7200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.494	-0.110	0.0	0.0	0.0
7248	65.400	63.494	-0.110	0.0	0.0	0.0
7272	65.400	63.494	-0.110	0.0	0.0	0.0
7296	65.400	63.494	-0.110	0.0	0.0	0.0
7320	65.400	63.494	-0.110	0.0	0.0	0.0
7344	65.400	63.494	-0.110	0.0	0.0	0.0
7368	65.400	63.494	-0.110	0.0	0.0	0.0
7392	65.400	63.494	-0.110	0.0	0.0	0.0
7416	65.400	63.494	-0.110	0.0	0.0	0.0
7440	65.400	63.494	-0.110	0.0	0.0	0.0
7464	65.400	63.494	-0.110	0.0	0.0	0.0
7488	65.400	63.494	-0.110	0.0	0.0	0.0
7512	65.400	63.494	-0.110	0.0	0.0	0.0
7536	65.400	63.494	-0.110	0.0	0.0	0.0
7560	65.400	63.494	-0.110	0.0	0.0	0.0
7584	65.400	63.494	-0.110	0.0	0.0	0.0
7608	65.400	63.494	-0.110	0.0	0.0	0.0
7632	65.400	63.494	-0.110	0.0	0.0	0.0
7656	65.400	63.494	-0.110	0.0	0.0	0.0
7680	65.400	63.494	-0.110	0.0	0.0	0.0
7704	65.400	63.494	-0.110	0.0	0.0	0.0
7728	65.400	63.494	-0.110	0.0	0.0	0.0
7752	65.400	63.494	-0.110	0.0	0.0	0.0
7776	65.400	63.494	-0.110	0.0	0.0	0.0
7800	65.400	63.494	-0.110	0.0	0.0	0.0
7824	65.400	63.494	-0.110	0.0	0.0	0.0
7848	65.400	63.494	-0.110	0.0	0.0	0.0
7872	65.400	63.494	-0.110	0.0	0.0	0.0
7896	65.400	63.494	-0.110	0.0	0.0	0.0
7920	65.400	63.494	-0.110	0.0	0.0	0.0
7944	65.400	63.494	-0.110	0.0	0.0	0.0
7968	65.400	63.494	-0.110	0.0	0.0	0.0
7992	65.400	63.494	-0.110	0.0	0.0	0.0
8016	65.400	63.494	-0.110	0.0	0.0	0.0
8040	65.400	63.494	-0.110	0.0	0.0	0.0
8064	65.400	63.494	-0.110	0.0	0.0	0.0
8088	65.400	63.494	-0.110	0.0	0.0	0.0
8112	65.400	63.494	-0.110	0.0	0.0	0.0
8136	65.400	63.494	-0.110	0.0	0.0	0.0
8160	65.400	63.494	-0.110	0.0	0.0	0.0
8184	65.400	63.494	-0.110	0.0	0.0	0.0
8208	65.400	63.494	-0.110	0.0	0.0	0.0
8232	65.400	63.494	-0.110	0.0	0.0	0.0
8256	65.400	63.494	-0.110	0.0	0.0	0.0
8280	65.400	63.494	-0.110	0.0	0.0	0.0
8304	65.400	63.494	-0.110	0.0	0.0	0.0
8328	65.400	63.494	-0.110	0.0	0.0	0.0
8352	65.400	63.494	-0.110	0.0	0.0	0.0
8376	65.400	63.494	-0.110	0.0	0.0	0.0
8400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.494	-0.110	0.0	0.0	0.0
8448	65.400	63.494	-0.110	0.0	0.0	0.0
8472	65.400	63.494	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
72	63.494	63.444	-0.110	0.0	0.0	0.0
96	63.494	63.444	-0.110	0.0	0.0	0.0
120	63.494	63.444	-0.110	0.0	0.0	0.0
144	63.494	63.444	-0.110	0.0	0.0	0.0
168	63.494	63.444	-0.110	0.0	0.0	0.0
192	63.494	63.444	-0.110	0.0	0.0	0.0
216	63.494	63.444	-0.110	0.0	0.0	0.0
240	63.494	63.444	-0.110	0.0	0.0	0.0
264	63.494	63.444	-0.110	0.0	0.0	0.0
288	63.494	63.444	-0.110	0.0	0.0	0.0
312	63.495	63.445	-0.110	0.0	0.0	0.0
336	63.495	63.445	-0.110	0.0	0.0	0.0
360	63.495	63.445	-0.110	0.0	0.0	0.0
384	63.495	63.445	-0.110	0.0	0.0	0.0
408	63.495	63.445	-0.110	0.0	0.0	0.0
432	63.495	63.445	-0.110	0.0	0.0	0.0
456	63.495	63.445	-0.109	0.0	0.0	0.0
480	63.495	63.445	-0.109	0.0	0.0	0.0
504	63.495	63.445	-0.109	0.0	0.0	0.0
528	63.495	63.446	-0.109	0.0	0.0	0.0
552	63.495	63.446	-0.109	0.0	0.0	0.0
576	63.495	63.446	-0.109	0.0	0.0	0.0
600	63.495	63.446	-0.109	0.0	0.0	0.0
624	63.495	63.446	-0.109	0.0	0.0	0.0
648	63.495	63.446	-0.109	0.0	0.0	0.0
672	63.495	63.446	-0.109	0.0	0.0	0.0
696	63.495	63.446	-0.109	0.0	0.0	0.0
720	63.495	63.446	-0.109	0.0	0.0	0.0
744	63.495	63.446	-0.109	0.0	0.0	0.0
768	63.495	63.446	-0.109	0.0	0.0	0.0
792	63.495	63.446	-0.109	0.0	0.0	0.0
816	63.495	63.446	-0.109	0.0	0.0	0.0
840	63.495	63.446	-0.109	0.0	0.0	0.0
864	63.495	63.446	-0.109	0.0	0.0	0.0
888	63.495	63.446	-0.109	0.0	0.0	0.0
912	63.495	63.446	-0.109	0.0	0.0	0.0
936	63.495	63.446	-0.109	0.0	0.0	0.0
960	63.495	63.446	-0.109	0.0	0.0	0.0
984	63.495	63.446	-0.109	0.0	0.0	0.0
1008	63.495	63.446	-0.109	0.0	0.0	0.0
1032	63.495	63.446	-0.109	0.0	0.0	0.0
1056	63.495	63.446	-0.109	0.0	0.0	0.0
1080	63.495	63.446	-0.109	0.0	0.0	0.0
1104	63.495	63.446	-0.109	0.0	0.0	0.0
1128	63.495	63.446	-0.109	0.0	0.0	0.0
1152	63.495	63.446	-0.109	0.0	0.0	0.0
1176	63.495	63.446	-0.109	0.0	0.0	0.0
1200	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.446	-0.109	0.0	0.0	0.0
1248	63.495	63.446	-0.109	0.0	0.0	0.0
1272	63.495	63.446	-0.109	0.0	0.0	0.0
1296	63.495	63.446	-0.109	0.0	0.0	0.0
1320	63.495	63.446	-0.109	0.0	0.0	0.0
1344	63.495	63.446	-0.109	0.0	0.0	0.0
1368	63.495	63.446	-0.109	0.0	0.0	0.0
1392	63.495	63.446	-0.109	0.0	0.0	0.0
1416	63.495	63.446	-0.109	0.0	0.0	0.0
1440	63.495	63.446	-0.109	0.0	0.0	0.0
1464	63.496	63.446	-0.108	0.0	0.1	0.0
1488	63.495	63.447	-0.109	0.0	0.1	0.0
1512	63.495	63.447	-0.109	0.0	0.1	0.0
1536	63.496	63.447	-0.109	0.0	0.1	0.0
1560	63.496	63.447	-0.109	0.0	0.1	0.0
1584	63.496	63.447	-0.109	0.0	0.1	0.0
1608	63.496	63.447	-0.109	0.0	0.1	0.0
1632	63.496	63.447	-0.109	0.0	0.1	0.0
1656	63.496	63.447	-0.109	0.0	0.1	0.0
1680	63.496	63.447	-0.108	0.0	0.1	0.0
1704	63.496	63.447	-0.108	0.0	0.1	0.0
1728	63.496	63.447	-0.108	0.0	0.1	0.0
1752	63.496	63.447	-0.108	0.0	0.1	0.0
1776	63.496	63.447	-0.108	0.0	0.1	0.0
1800	63.496	63.447	-0.108	0.0	0.1	0.0
1824	63.496	63.447	-0.108	0.0	0.1	0.0
1848	63.496	63.447	-0.108	0.0	0.1	0.0
1872	63.496	63.447	-0.108	0.0	0.1	0.0
1896	63.496	63.448	-0.108	0.0	0.1	0.0
1920	63.496	63.448	-0.108	0.0	0.1	0.0
1944	63.496	63.448	-0.108	0.0	0.1	0.0
1968	63.496	63.448	-0.108	0.0	0.1	0.0
1992	63.496	63.448	-0.108	0.0	0.1	0.0
2016	63.496	63.448	-0.108	0.0	0.1	0.0
2040	63.496	63.448	-0.108	0.0	0.1	0.0
2064	63.496	63.448	-0.108	0.0	0.1	0.0
2088	63.496	63.448	-0.108	0.0	0.1	0.0
2112	63.496	63.449	-0.108	0.0	0.1	0.0
2136	63.496	63.449	-0.108	0.0	0.1	0.0
2160	63.496	63.449	-0.108	0.0	0.1	0.0
2184	63.497	63.449	-0.107	0.0	0.1	0.0
2208	63.497	63.449	-0.107	0.0	0.1	0.0
2232	63.497	63.449	-0.107	0.0	0.1	0.0
2256	63.497	63.449	-0.107	0.0	0.1	0.0
2280	63.497	63.449	-0.107	0.0	0.1	0.0
2304	63.497	63.449	-0.107	0.0	0.1	0.0
2328	63.497	63.450	-0.107	0.0	0.2	0.0
2352	63.497	63.450	-0.107	0.0	0.2	0.0
2376	63.497	63.450	-0.107	0.0	0.2	0.0
2400	63.497	63.450	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.497	63.450	-0.107	0.0	0.2	0.0
2448	63.497	63.450	-0.107	0.0	0.2	0.0
2472	63.498	63.451	-0.107	0.0	0.2	0.0
2496	63.498	63.451	-0.107	0.0	0.2	0.0
2520	63.498	63.451	-0.107	0.0	0.2	0.0
2544	63.498	63.451	-0.106	0.0	0.2	0.0
2568	63.498	63.451	-0.106	0.0	0.2	0.0
2592	63.498	63.451	-0.106	0.0	0.2	0.0
2616	63.498	63.452	-0.106	0.0	0.2	0.1
2640	63.498	63.452	-0.106	0.0	0.2	0.1
2664	63.498	63.452	-0.106	0.0	0.2	0.1
2688	63.498	63.452	-0.106	0.0	0.2	0.1
2712	63.498	63.452	-0.106	0.0	0.2	0.1
2736	63.498	63.452	-0.106	0.0	0.2	0.1
2760	63.499	63.453	-0.105	0.0	0.2	0.1
2784	63.499	63.453	-0.105	0.0	0.2	0.1
2808	63.499	63.453	-0.105	0.0	0.2	0.1
2832	63.499	63.453	-0.105	0.0	0.3	0.1
2856	63.499	63.453	-0.105	0.0	0.3	0.1
2880	63.499	63.453	-0.105	0.0	0.3	0.1
2904	63.499	63.454	-0.105	0.0	0.3	0.1
2928	63.499	63.454	-0.105	0.0	0.3	0.1
2952	63.499	63.454	-0.105	0.0	0.3	0.1
2976	63.499	63.454	-0.105	0.0	0.3	0.1
3000	63.499	63.454	-0.105	0.0	0.3	0.1
3024	63.499	63.454	-0.105	0.0	0.3	0.1
3048	63.500	63.455	-0.104	0.0	0.3	0.1
3072	63.500	63.455	-0.104	0.0	0.3	0.1
3096	63.500	63.455	-0.104	0.0	0.3	0.1
3120	63.500	63.455	-0.104	0.0	0.3	0.1
3144	63.500	63.455	-0.104	0.0	0.3	0.1
3168	63.500	63.455	-0.104	0.0	0.3	0.1
3192	63.500	63.455	-0.104	0.0	0.3	0.1
3216	63.500	63.455	-0.104	0.0	0.3	0.1
3240	63.500	63.455	-0.104	0.0	0.3	0.1
3264	63.500	63.455	-0.104	0.0	0.3	0.1
3288	63.500	63.455	-0.104	0.0	0.3	0.1
3312	63.500	63.455	-0.104	0.0	0.3	0.1
3336	63.501	63.455	-0.104	0.0	0.3	0.1
3360	63.501	63.455	-0.104	0.0	0.3	0.1
3384	63.501	63.455	-0.104	0.0	0.3	0.1
3408	63.501	63.456	-0.103	0.0	0.4	0.1
3432	63.501	63.456	-0.103	0.0	0.4	0.1
3456	63.501	63.456	-0.103	0.0	0.4	0.1
3480	63.501	63.456	-0.103	0.0	0.4	0.1
3504	63.501	63.456	-0.103	0.0	0.4	0.1
3528	63.501	63.456	-0.103	0.0	0.4	0.1
3552	63.501	63.456	-0.103	0.0	0.4	0.1
3576	63.501	63.456	-0.103	0.0	0.4	0.1
3600	63.501	63.456	-0.103	0.0	0.4	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.501	63.456	-0.103	0.0	0.4	0.1
3648	63.501	63.456	-0.103	0.0	0.4	0.1
3672	63.501	63.456	-0.103	0.0	0.4	0.1
3696	63.501	63.456	-0.103	0.0	0.4	0.1
3720	63.501	63.456	-0.103	0.0	0.4	0.1
3744	63.501	63.456	-0.103	0.0	0.4	0.1
3768	63.501	63.456	-0.103	0.0	0.4	0.1
3792	63.501	63.456	-0.103	0.0	0.4	0.1
3816	63.501	63.456	-0.103	0.0	0.4	0.1
3840	63.501	63.456	-0.104	0.0	0.3	0.1
3864	63.501	63.457	-0.104	0.0	0.3	0.1
3888	63.501	63.459	-0.104	0.0	0.3	0.1
3912	63.500	63.461	-0.104	0.0	0.3	0.1
3936	63.500	63.463	-0.104	0.0	0.3	0.1
3960	63.500	63.466	-0.104	0.0	0.3	0.1
3984	63.500	63.469	-0.104	0.0	0.3	0.1
4008	63.500	63.472	-0.104	0.0	0.3	0.1
4032	63.500	63.476	-0.104	0.0	0.3	0.1
4056	63.500	63.478	-0.104	0.0	0.3	0.1
4080	63.500	63.481	-0.104	0.0	0.3	0.1
4104	63.500	63.484	-0.104	0.0	0.3	0.1
4128	63.500	63.487	-0.104	0.0	0.3	0.1
4152	63.501	63.489	-0.103	0.0	0.3	0.1
4176	63.501	63.492	-0.103	0.0	0.3	0.1
4200	63.502	63.494	-0.102	0.0	0.2	0.1
4224	63.503	63.496	-0.101	0.0	0.2	0.1
4248	63.504	63.499	-0.100	0.0	0.2	0.1
4272	63.505	63.501	-0.099	0.0	0.2	0.1
4296	63.506	63.503	-0.099	0.0	0.1	0.1
4320	63.507	63.505	-0.098	0.0	0.1	0.1
4344	63.508	63.507	-0.096	0.0	0.1	0.1
4368	63.509	63.508	-0.095	0.0	0.1	0.1
4392	63.511	63.510	-0.094	0.0	0.1	0.1
4416	63.513	63.512	-0.091	0.0	0.1	0.1
4440	63.513	63.513	-0.091	0.0	0.1	0.1
4464	63.515	63.514	-0.089	0.0	0.0	0.1
4488	63.516	63.516	-0.089	0.0	0.0	0.1
4512	63.517	63.517	-0.087	0.0	0.0	0.1
4536	63.518	63.518	-0.086	0.0	0.0	0.1
4560	63.519	63.519	-0.085	0.0	0.0	0.1
4584	63.520	63.520	-0.084	0.0	0.0	0.1
4608	63.521	63.521	-0.083	0.0	0.0	0.1
4632	63.521	63.521	-0.083	0.0	0.0	0.0
4656	63.522	63.522	-0.082	0.0	0.0	0.0
4680	63.523	63.522	-0.082	0.0	0.0	0.0
4704	63.523	63.523	-0.081	0.0	0.0	0.0
4728	63.523	63.523	-0.081	0.0	0.0	0.0
4752	63.523	63.523	-0.081	0.0	0.0	0.0
4776	63.524	63.523	-0.081	0.0	0.0	0.0
4800	63.524	63.523	-0.081	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.524	63.523	-0.080	0.0	0.0	0.0
4848	63.523	63.523	-0.081	0.0	0.0	0.0
4872	63.523	63.523	-0.081	0.0	0.0	0.0
4896	63.523	63.523	-0.081	0.0	0.0	0.0
4920	63.523	63.523	-0.081	0.0	0.0	0.0
4944	63.522	63.522	-0.082	0.0	0.0	0.0
4968	63.522	63.522	-0.082	0.0	0.0	0.0
4992	63.521	63.521	-0.083	0.0	0.0	0.0
5016	63.520	63.520	-0.084	0.0	0.0	0.0
5040	63.520	63.520	-0.084	0.0	0.0	0.0
5064	63.519	63.519	-0.085	0.0	0.0	0.0
5088	63.518	63.518	-0.086	0.0	0.0	0.0
5112	63.517	63.517	-0.087	0.0	0.0	0.0
5136	63.516	63.516	-0.088	0.0	0.0	0.0
5160	63.515	63.515	-0.089	0.0	0.0	0.0
5184	63.514	63.514	-0.090	0.0	0.0	0.0
5208	63.513	63.513	-0.091	0.0	0.0	0.0
5232	63.512	63.512	-0.092	0.0	0.0	0.0
5256	63.510	63.510	-0.094	0.0	0.0	0.0
5280	63.510	63.509	-0.094	0.0	0.0	0.0
5304	63.509	63.508	-0.096	0.0	0.0	0.0
5328	63.507	63.506	-0.097	0.0	0.0	0.0
5352	63.505	63.505	-0.099	0.0	0.0	0.0
5376	63.504	63.503	-0.100	0.0	0.1	0.0
5400	63.503	63.502	-0.101	0.0	0.1	0.0
5424	63.501	63.500	-0.103	0.0	0.1	0.0
5448	63.498	63.499	-0.106	0.0	0.1	0.0
5472	63.498	63.497	-0.106	0.0	0.1	0.0
5496	63.498	63.495	-0.106	0.0	0.1	0.0
5520	63.497	63.494	-0.107	0.0	0.1	0.0
5544	63.497	63.492	-0.107	0.0	0.1	0.0
5568	63.496	63.490	-0.108	0.0	0.1	0.0
5592	63.496	63.488	-0.108	0.0	0.1	0.0
5616	63.496	63.486	-0.108	0.0	0.1	0.0
5640	63.496	63.484	-0.108	0.0	0.1	0.0
5664	63.496	63.483	-0.108	0.0	0.1	0.0
5688	63.496	63.481	-0.109	0.0	0.1	0.0
5712	63.495	63.479	-0.109	0.0	0.1	0.0
5736	63.495	63.477	-0.109	0.0	0.1	0.0
5760	63.495	63.475	-0.109	0.0	0.1	0.0
5784	63.495	63.473	-0.109	0.0	0.1	0.0
5808	63.495	63.471	-0.109	0.0	0.1	0.0
5832	63.495	63.469	-0.109	0.0	0.1	0.0
5856	63.495	63.467	-0.109	0.0	0.1	0.0
5880	63.495	63.465	-0.109	0.0	0.1	0.0
5904	63.495	63.463	-0.109	0.0	0.1	0.0
5928	63.495	63.461	-0.109	0.0	0.1	0.0
5952	63.495	63.459	-0.109	0.0	0.1	0.0
5976	63.495	63.457	-0.109	0.0	0.1	0.0
6000	63.495	63.455	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.495	63.454	-0.109	0.0	0.1	0.0
6048	63.495	63.452	-0.109	0.0	0.1	0.0
6072	63.495	63.450	-0.109	0.0	0.1	0.0
6096	63.495	63.449	-0.109	0.0	0.1	0.0
6120	63.495	63.448	-0.109	0.0	0.1	0.0
6144	63.495	63.448	-0.109	0.0	0.1	0.0
6168	63.495	63.447	-0.109	0.0	0.1	0.0
6192	63.495	63.447	-0.109	0.0	0.1	0.0
6216	63.495	63.447	-0.109	0.0	0.1	0.0
6240	63.495	63.446	-0.109	0.0	0.1	0.0
6264	63.495	63.446	-0.109	0.0	0.1	0.0
6288	63.495	63.446	-0.109	0.0	0.1	0.0
6312	63.495	63.446	-0.109	0.0	0.1	0.0
6336	63.495	63.446	-0.109	0.0	0.1	0.0
6360	63.495	63.446	-0.109	0.0	0.1	0.0
6384	63.495	63.446	-0.109	0.0	0.1	0.0
6408	63.495	63.446	-0.109	0.0	0.1	0.0
6432	63.495	63.446	-0.109	0.0	0.1	0.0
6456	63.495	63.446	-0.109	0.0	0.1	0.0
6480	63.495	63.446	-0.109	0.0	0.1	0.0
6504	63.495	63.446	-0.109	0.0	0.1	0.0
6528	63.495	63.446	-0.109	0.0	0.1	0.0
6552	63.495	63.446	-0.109	0.0	0.1	0.0
6576	63.495	63.446	-0.109	0.0	0.1	0.0
6600	63.495	63.446	-0.109	0.0	0.1	0.0
6624	63.495	63.446	-0.109	0.0	0.1	0.0
6648	63.495	63.446	-0.109	0.0	0.1	0.0
6672	63.495	63.446	-0.109	0.0	0.1	0.0
6696	63.495	63.446	-0.109	0.0	0.1	0.0
6720	63.495	63.446	-0.109	0.0	0.1	0.0
6744	63.495	63.446	-0.109	0.0	0.1	0.0
6768	63.495	63.446	-0.109	0.0	0.1	0.0
6792	63.495	63.446	-0.109	0.0	0.1	0.0
6816	63.495	63.446	-0.109	0.0	0.1	0.0
6840	63.495	63.446	-0.109	0.0	0.1	0.0
6864	63.495	63.446	-0.109	0.0	0.0	0.0
6888	63.495	63.446	-0.109	0.0	0.0	0.0
6912	63.495	63.446	-0.109	0.0	0.0	0.0
6936	63.495	63.445	-0.109	0.0	0.0	0.0
6960	63.495	63.445	-0.109	0.0	0.0	0.0
6984	63.495	63.445	-0.109	0.0	0.0	0.0
7008	63.495	63.445	-0.109	0.0	0.0	0.0
7032	63.495	63.445	-0.109	0.0	0.0	0.0
7056	63.495	63.445	-0.109	0.0	0.0	0.0
7080	63.494	63.445	-0.110	0.0	0.0	0.0
7104	63.494	63.445	-0.110	0.0	0.0	0.0
7128	63.494	63.445	-0.110	0.0	0.0	0.0
7152	63.494	63.444	-0.110	0.0	0.0	0.0
7176	63.494	63.444	-0.110	0.0	0.0	0.0
7200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.494	63.444	-0.110	0.0	0.0	0.0
7248	63.494	63.444	-0.110	0.0	0.0	0.0
7272	63.494	63.444	-0.110	0.0	0.0	0.0
7296	63.494	63.444	-0.110	0.0	0.0	0.0
7320	63.494	63.444	-0.110	0.0	0.0	0.0
7344	63.494	63.444	-0.110	0.0	0.0	0.0
7368	63.494	63.444	-0.110	0.0	0.0	0.0
7392	63.494	63.444	-0.110	0.0	0.0	0.0
7416	63.494	63.444	-0.110	0.0	0.0	0.0
7440	63.494	63.444	-0.110	0.0	0.0	0.0
7464	63.494	63.444	-0.110	0.0	0.0	0.0
7488	63.494	63.444	-0.110	0.0	0.0	0.0
7512	63.494	63.444	-0.110	0.0	0.0	0.0
7536	63.494	63.444	-0.110	0.0	0.0	0.0
7560	63.494	63.444	-0.110	0.0	0.0	0.0
7584	63.494	63.444	-0.110	0.0	0.0	0.0
7608	63.494	63.444	-0.110	0.0	0.0	0.0
7632	63.494	63.444	-0.110	0.0	0.0	0.0
7656	63.494	63.444	-0.110	0.0	0.0	0.0
7680	63.494	63.444	-0.110	0.0	0.0	0.0
7704	63.494	63.444	-0.110	0.0	0.0	0.0
7728	63.494	63.444	-0.110	0.0	0.0	0.0
7752	63.494	63.444	-0.110	0.0	0.0	0.0
7776	63.494	63.444	-0.110	0.0	0.0	0.0
7800	63.494	63.444	-0.110	0.0	0.0	0.0
7824	63.494	63.444	-0.110	0.0	0.0	0.0
7848	63.494	63.444	-0.110	0.0	0.0	0.0
7872	63.494	63.444	-0.110	0.0	0.0	0.0
7896	63.494	63.444	-0.110	0.0	0.0	0.0
7920	63.494	63.444	-0.110	0.0	0.0	0.0
7944	63.494	63.444	-0.110	0.0	0.0	0.0
7968	63.494	63.444	-0.110	0.0	0.0	0.0
7992	63.494	63.444	-0.110	0.0	0.0	0.0
8016	63.494	63.444	-0.110	0.0	0.0	0.0
8040	63.494	63.444	-0.110	0.0	0.0	0.0
8064	63.494	63.444	-0.110	0.0	0.0	0.0
8088	63.494	63.444	-0.110	0.0	0.0	0.0
8112	63.494	63.444	-0.110	0.0	0.0	0.0
8136	63.494	63.444	-0.110	0.0	0.0	0.0
8160	63.494	63.444	-0.110	0.0	0.0	0.0
8184	63.494	63.444	-0.110	0.0	0.0	0.0
8208	63.494	63.444	-0.110	0.0	0.0	0.0
8232	63.494	63.444	-0.110	0.0	0.0	0.0
8256	63.494	63.444	-0.110	0.0	0.0	0.0
8280	63.494	63.444	-0.110	0.0	0.0	0.0
8304	63.494	63.444	-0.110	0.0	0.0	0.0
8328	63.494	63.444	-0.110	0.0	0.0	0.0
8352	63.494	63.444	-0.110	0.0	0.0	0.0
8376	63.494	63.444	-0.110	0.0	0.0	0.0
8400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.494	63.444	-0.110	0.0	0.0	0.0
8448	63.494	63.444	-0.110	0.0	0.0	0.0
8472	63.494	63.444	-0.110	0.0	0.0	0.0
8496	63.494	63.444	-0.110	0.0	0.0	0.0
8520	63.494	63.444	-0.110	0.0	0.0	0.0
8544	63.494	63.444	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.1	0.0
1920	65.400	65.000	-0.110	0.0	0.1	0.0
1944	65.400	65.000	-0.110	0.0	0.1	0.0
1968	65.400	65.000	-0.110	0.0	0.1	0.0
1992	65.400	65.000	-0.110	0.0	0.1	0.0
2016	65.400	65.000	-0.110	0.0	0.1	0.0
2040	65.400	65.001	-0.110	0.0	0.1	0.0
2064	65.400	65.001	-0.110	0.0	0.1	0.0
2088	65.400	65.001	-0.110	0.0	0.1	0.0
2112	65.400	65.001	-0.110	0.0	0.1	0.0
2136	65.400	65.001	-0.110	0.0	0.1	0.0
2160	65.400	65.001	-0.110	0.0	0.1	0.0
2184	65.400	65.001	-0.110	0.0	0.1	0.0
2208	65.400	65.001	-0.110	0.0	0.1	0.0
2232	65.400	65.001	-0.110	0.0	0.1	0.0
2256	65.400	65.001	-0.110	0.0	0.1	0.0
2280	65.400	65.001	-0.110	0.0	0.1	0.0
2304	65.400	65.001	-0.110	0.0	0.1	0.0
2328	65.400	65.001	-0.110	0.0	0.1	0.0
2352	65.400	65.001	-0.110	0.0	0.1	0.0
2376	65.400	65.001	-0.110	0.0	0.1	0.0
2400	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.401	65.001	-0.109	0.0	0.1	0.0
2448	65.401	65.001	-0.109	0.0	0.1	0.0
2472	65.401	65.001	-0.109	0.0	0.1	0.0
2496	65.401	65.001	-0.109	0.0	0.1	0.0
2520	65.401	65.001	-0.109	0.0	0.1	0.0
2544	65.401	65.001	-0.109	0.0	0.1	0.0
2568	65.401	65.001	-0.109	0.0	0.1	0.0
2592	65.401	65.001	-0.109	0.0	0.1	0.0
2616	65.401	65.001	-0.109	0.0	0.1	0.0
2640	65.401	65.001	-0.109	0.0	0.1	0.0
2664	65.401	65.001	-0.109	0.0	0.1	0.0
2688	65.401	65.001	-0.109	0.0	0.1	0.0
2712	65.401	65.001	-0.109	0.0	0.1	0.0
2736	65.401	65.001	-0.109	0.0	0.1	0.0
2760	65.401	65.001	-0.109	0.0	0.1	0.0
2784	65.401	65.001	-0.109	0.0	0.1	0.0
2808	65.401	65.001	-0.109	0.0	0.1	0.0
2832	65.401	65.001	-0.109	0.0	0.1	0.0
2856	65.401	65.001	-0.109	0.0	0.1	0.0
2880	65.401	65.001	-0.109	0.0	0.1	0.0
2904	65.401	65.001	-0.109	0.0	0.1	0.0
2928	65.401	65.001	-0.109	0.0	0.1	0.0
2952	65.401	65.001	-0.109	0.0	0.1	0.0
2976	65.401	65.001	-0.109	0.0	0.1	0.0
3000	65.401	65.001	-0.109	0.0	0.1	0.0
3024	65.401	65.001	-0.109	0.0	0.1	0.0
3048	65.401	65.001	-0.109	0.0	0.1	0.0
3072	65.401	65.001	-0.109	0.0	0.1	0.0
3096	65.401	65.001	-0.109	0.0	0.1	0.0
3120	65.401	65.001	-0.109	0.0	0.2	0.0
3144	65.401	65.001	-0.109	0.0	0.2	0.0
3168	65.401	65.001	-0.109	0.0	0.2	0.0
3192	65.401	65.001	-0.109	0.0	0.2	0.0
3216	65.401	65.001	-0.109	0.0	0.2	0.0
3240	65.401	65.001	-0.109	0.0	0.2	0.0
3264	65.401	65.001	-0.109	0.0	0.2	0.0
3288	65.401	65.001	-0.109	0.0	0.2	0.0
3312	65.401	65.001	-0.109	0.0	0.2	0.0
3336	65.401	65.001	-0.109	0.0	0.2	0.0
3360	65.401	65.001	-0.109	0.0	0.2	0.0
3384	65.401	65.001	-0.109	0.0	0.2	0.0
3408	65.401	65.002	-0.109	0.0	0.2	0.0
3432	65.401	65.002	-0.109	0.0	0.2	0.0
3456	65.401	65.002	-0.109	0.0	0.2	0.0
3480	65.401	65.002	-0.109	0.0	0.2	0.0
3504	65.401	65.002	-0.109	0.0	0.2	0.0
3528	65.401	65.002	-0.109	0.0	0.2	0.0
3552	65.401	65.002	-0.109	0.0	0.2	0.0
3576	65.401	65.002	-0.109	0.0	0.2	0.0
3600	65.401	65.002	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	65.002	-0.109	0.0	0.2	0.0
3648	65.401	65.002	-0.109	0.0	0.2	0.0
3672	65.401	65.002	-0.109	0.0	0.2	0.0
3696	65.401	65.002	-0.109	0.0	0.2	0.0
3720	65.401	65.002	-0.109	0.0	0.2	0.0
3744	65.401	65.002	-0.109	0.0	0.2	0.0
3768	65.401	65.002	-0.109	0.0	0.2	0.0
3792	65.401	65.002	-0.109	0.0	0.2	0.0
3816	65.401	65.002	-0.109	0.0	0.2	0.0
3840	65.401	65.001	-0.109	0.0	0.2	0.0
3864	65.401	65.001	-0.109	0.0	0.2	0.0
3888	65.401	65.001	-0.109	0.0	0.2	0.0
3912	65.401	65.001	-0.109	0.0	0.2	0.0
3936	65.401	65.001	-0.109	0.0	0.2	0.0
3960	65.401	65.001	-0.109	0.0	0.2	0.0
3984	65.401	65.001	-0.109	0.0	0.2	0.0
4008	65.401	65.001	-0.109	0.0	0.2	0.0
4032	65.401	65.001	-0.109	0.0	0.2	0.0
4056	65.401	65.001	-0.109	0.0	0.2	0.0
4080	65.401	65.001	-0.109	0.0	0.2	0.0
4104	65.401	65.001	-0.109	0.0	0.2	0.0
4128	65.401	65.001	-0.109	0.0	0.1	0.0
4152	65.401	65.001	-0.109	0.0	0.1	0.0
4176	65.401	65.001	-0.109	0.0	0.1	0.0
4200	65.401	65.001	-0.109	0.0	0.1	0.0
4224	65.401	65.001	-0.109	0.0	0.1	0.0
4248	65.401	65.001	-0.109	0.0	0.1	0.0
4272	65.401	65.001	-0.109	0.0	0.1	0.0
4296	65.401	65.001	-0.109	0.0	0.1	0.0
4320	65.401	65.001	-0.109	0.0	0.1	0.0
4344	65.401	65.001	-0.109	0.0	0.1	0.0
4368	65.401	65.001	-0.109	0.0	0.1	0.0
4392	65.401	65.001	-0.109	0.0	0.1	0.0
4416	65.401	65.001	-0.109	0.0	0.1	0.0
4440	65.401	65.001	-0.109	0.0	0.1	0.0
4464	65.401	65.001	-0.109	0.0	0.1	0.0
4488	65.401	65.001	-0.109	0.0	0.1	0.0
4512	65.401	65.001	-0.109	0.0	0.1	0.0
4536	65.401	65.001	-0.109	0.0	0.1	0.0
4560	65.401	65.001	-0.109	0.0	0.1	0.0
4584	65.401	65.001	-0.109	0.0	0.1	0.0
4608	65.401	65.001	-0.109	0.0	0.1	0.0
4632	65.401	65.001	-0.109	0.0	0.1	0.0
4656	65.401	65.001	-0.109	0.0	0.1	0.0
4680	65.401	65.001	-0.109	0.0	0.1	0.0
4704	65.401	65.001	-0.109	0.0	0.1	0.0
4728	65.401	65.001	-0.109	0.0	0.1	0.0
4752	65.401	65.001	-0.109	0.0	0.1	0.0
4776	65.401	65.001	-0.109	0.0	0.1	0.0
4800	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	65.001	-0.109	0.0	0.1	0.0
4848	65.400	65.001	-0.110	0.0	0.1	0.0
4872	65.400	65.001	-0.110	0.0	0.1	0.0
4896	65.400	65.001	-0.110	0.0	0.1	0.0
4920	65.400	65.001	-0.110	0.0	0.1	0.0
4944	65.400	65.001	-0.110	0.0	0.1	0.0
4968	65.400	65.001	-0.110	0.0	0.1	0.0
4992	65.400	65.001	-0.110	0.0	0.1	0.0
5016	65.400	65.001	-0.110	0.0	0.1	0.0
5040	65.400	65.001	-0.110	0.0	0.1	0.0
5064	65.400	65.001	-0.110	0.0	0.1	0.0
5088	65.400	65.001	-0.110	0.0	0.1	0.0
5112	65.400	65.001	-0.110	0.0	0.1	0.0
5136	65.400	65.001	-0.110	0.0	0.1	0.0
5160	65.400	65.001	-0.110	0.0	0.1	0.0
5184	65.400	65.001	-0.110	0.0	0.1	0.0
5208	65.400	65.000	-0.110	0.0	0.1	0.0
5232	65.400	65.000	-0.110	0.0	0.1	0.0
5256	65.400	65.000	-0.110	0.0	0.1	0.0
5280	65.400	65.000	-0.110	0.0	0.1	0.0
5304	65.400	65.000	-0.110	0.0	0.1	0.0
5328	65.400	65.000	-0.110	0.0	0.1	0.0
5352	65.400	65.000	-0.110	0.0	0.0	0.0
5376	65.400	65.000	-0.110	0.0	0.0	0.0
5400	65.400	65.000	-0.110	0.0	0.0	0.0
5424	65.400	65.000	-0.110	0.0	0.0	0.0
5448	65.400	65.000	-0.110	0.0	0.0	0.0
5472	65.400	65.000	-0.110	0.0	0.0	0.0
5496	65.400	65.000	-0.110	0.0	0.0	0.0
5520	65.400	65.000	-0.110	0.0	0.0	0.0
5544	65.400	65.000	-0.110	0.0	0.0	0.0
5568	65.400	65.000	-0.110	0.0	0.0	0.0
5592	65.400	65.000	-0.110	0.0	0.0	0.0
5616	65.400	65.000	-0.110	0.0	0.0	0.0
5640	65.400	65.000	-0.110	0.0	0.0	0.0
5664	65.400	65.000	-0.110	0.0	0.0	0.0
5688	65.400	65.000	-0.110	0.0	0.0	0.0
5712	65.400	65.000	-0.110	0.0	0.0	0.0
5736	65.400	65.000	-0.110	0.0	0.0	0.0
5760	65.400	65.000	-0.110	0.0	0.0	0.0
5784	65.400	65.000	-0.110	0.0	0.0	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
72	65.000	63.444	-0.110	0.0	0.0	0.0
96	65.000	63.444	-0.110	0.0	0.0	0.0
120	65.000	63.444	-0.110	0.0	0.0	0.0
144	65.000	63.444	-0.110	0.0	0.0	0.0
168	65.000	63.444	-0.110	0.0	0.0	0.0
192	65.000	63.444	-0.110	0.0	0.0	0.0
216	65.000	63.444	-0.110	0.0	0.0	0.0
240	65.000	63.444	-0.110	0.0	0.0	0.0
264	65.000	63.444	-0.110	0.0	0.0	0.0
288	65.000	63.444	-0.110	0.0	0.0	0.0
312	65.000	63.445	-0.110	0.0	0.0	0.0
336	65.000	63.445	-0.110	0.0	0.0	0.0
360	65.000	63.445	-0.110	0.0	0.0	0.0
384	65.000	63.445	-0.110	0.0	0.0	0.0
408	65.000	63.445	-0.110	0.0	0.0	0.0
432	65.000	63.445	-0.110	0.0	0.0	0.0
456	65.000	63.445	-0.110	0.0	0.0	0.0
480	65.000	63.445	-0.110	0.0	0.0	0.0
504	65.000	63.445	-0.110	0.0	0.0	0.0
528	65.000	63.446	-0.110	0.0	0.1	0.0
552	65.000	63.446	-0.110	0.0	0.1	0.0
576	65.000	63.446	-0.110	0.0	0.1	0.0
600	65.000	63.446	-0.110	0.0	0.1	0.0
624	65.000	63.446	-0.110	0.0	0.1	0.0
648	65.000	63.446	-0.110	0.0	0.1	0.0
672	65.000	63.446	-0.110	0.0	0.1	0.0
696	65.000	63.446	-0.110	0.0	0.1	0.0
720	65.000	63.446	-0.110	0.0	0.1	0.0
744	65.000	63.446	-0.110	0.0	0.1	0.0
768	65.000	63.446	-0.110	0.0	0.1	0.0
792	65.000	63.446	-0.110	0.0	0.1	0.0
816	65.000	63.446	-0.110	0.0	0.1	0.0
840	65.000	63.446	-0.110	0.0	0.1	0.0
864	65.000	63.446	-0.110	0.0	0.1	0.0
888	65.000	63.446	-0.110	0.0	0.1	0.0
912	65.000	63.446	-0.110	0.0	0.1	0.0
936	65.000	63.446	-0.110	0.0	0.1	0.0
960	65.000	63.446	-0.110	0.0	0.1	0.0
984	65.000	63.446	-0.110	0.0	0.1	0.0
1008	65.000	63.446	-0.110	0.0	0.1	0.0
1032	65.000	63.446	-0.110	0.0	0.1	0.0
1056	65.000	63.446	-0.110	0.0	0.1	0.0
1080	65.000	63.446	-0.110	0.0	0.1	0.0
1104	65.000	63.446	-0.110	0.0	0.1	0.0
1128	65.000	63.446	-0.110	0.0	0.1	0.0
1152	65.000	63.446	-0.110	0.0	0.1	0.0
1176	65.000	63.446	-0.110	0.0	0.1	0.0
1200	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.446	-0.110	0.0	0.1	0.0
1248	65.000	63.446	-0.110	0.0	0.1	0.0
1272	65.000	63.446	-0.110	0.0	0.1	0.0
1296	65.000	63.446	-0.110	0.0	0.1	0.0
1320	65.000	63.446	-0.110	0.0	0.1	0.0
1344	65.000	63.446	-0.110	0.0	0.1	0.0
1368	65.000	63.446	-0.110	0.0	0.1	0.0
1392	65.000	63.446	-0.110	0.0	0.1	0.0
1416	65.000	63.446	-0.110	0.0	0.1	0.0
1440	65.000	63.446	-0.110	0.0	0.1	0.0
1464	65.000	63.446	-0.110	0.0	0.1	0.0
1488	65.000	63.447	-0.110	0.0	0.1	0.0
1512	65.000	63.447	-0.110	0.0	0.1	0.0
1536	65.000	63.447	-0.110	0.0	0.1	0.0
1560	65.000	63.447	-0.110	0.0	0.1	0.0
1584	65.000	63.447	-0.110	0.0	0.1	0.0
1608	65.000	63.447	-0.110	0.0	0.1	0.0
1632	65.000	63.447	-0.110	0.0	0.1	0.0
1656	65.000	63.447	-0.110	0.0	0.1	0.0
1680	65.000	63.447	-0.110	0.0	0.1	0.0
1704	65.000	63.447	-0.110	0.0	0.1	0.0
1728	65.000	63.447	-0.110	0.0	0.1	0.0
1752	65.000	63.447	-0.110	0.0	0.1	0.0
1776	65.000	63.447	-0.110	0.0	0.1	0.0
1800	65.000	63.447	-0.110	0.0	0.1	0.0
1824	65.000	63.447	-0.110	0.0	0.1	0.0
1848	65.000	63.447	-0.110	0.0	0.1	0.0
1872	65.000	63.447	-0.110	0.0	0.1	0.0
1896	65.000	63.448	-0.110	0.0	0.1	0.0
1920	65.000	63.448	-0.110	0.0	0.1	0.0
1944	65.000	63.448	-0.110	0.0	0.1	0.0
1968	65.000	63.448	-0.110	0.0	0.1	0.0
1992	65.000	63.448	-0.110	0.0	0.1	0.0
2016	65.000	63.448	-0.110	0.0	0.1	0.0
2040	65.001	63.448	-0.109	0.0	0.1	0.0
2064	65.001	63.448	-0.109	0.0	0.1	0.0
2088	65.001	63.448	-0.109	0.0	0.1	0.0
2112	65.001	63.449	-0.109	0.0	0.1	0.0
2136	65.001	63.449	-0.109	0.0	0.1	0.0
2160	65.001	63.449	-0.109	0.0	0.1	0.0
2184	65.001	63.449	-0.109	0.0	0.1	0.0
2208	65.001	63.449	-0.109	0.0	0.1	0.0
2232	65.001	63.449	-0.109	0.0	0.1	0.0
2256	65.001	63.449	-0.109	0.0	0.1	0.0
2280	65.001	63.449	-0.109	0.0	0.1	0.0
2304	65.001	63.449	-0.109	0.0	0.1	0.0
2328	65.001	63.450	-0.109	0.0	0.2	0.0
2352	65.001	63.450	-0.109	0.0	0.2	0.0
2376	65.001	63.450	-0.109	0.0	0.2	0.0
2400	65.001	63.450	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.001	63.450	-0.109	0.0	0.2	0.0
2448	65.001	63.450	-0.109	0.0	0.2	0.0
2472	65.001	63.451	-0.109	0.0	0.2	0.0
2496	65.001	63.451	-0.109	0.0	0.2	0.0
2520	65.001	63.451	-0.109	0.0	0.2	0.0
2544	65.001	63.451	-0.109	0.0	0.2	0.0
2568	65.001	63.451	-0.109	0.0	0.2	0.0
2592	65.001	63.451	-0.109	0.0	0.2	0.0
2616	65.001	63.452	-0.109	0.0	0.2	0.1
2640	65.001	63.452	-0.109	0.0	0.2	0.1
2664	65.001	63.452	-0.109	0.0	0.2	0.1
2688	65.001	63.452	-0.109	0.0	0.2	0.1
2712	65.001	63.452	-0.109	0.0	0.2	0.1
2736	65.001	63.452	-0.109	0.0	0.2	0.1
2760	65.001	63.453	-0.109	0.0	0.2	0.1
2784	65.001	63.453	-0.109	0.0	0.2	0.1
2808	65.001	63.453	-0.109	0.0	0.2	0.1
2832	65.001	63.453	-0.109	0.0	0.3	0.1
2856	65.001	63.453	-0.109	0.0	0.3	0.1
2880	65.001	63.453	-0.109	0.0	0.3	0.1
2904	65.001	63.454	-0.109	0.0	0.3	0.1
2928	65.001	63.454	-0.109	0.0	0.3	0.1
2952	65.001	63.454	-0.109	0.0	0.3	0.1
2976	65.001	63.454	-0.109	0.0	0.3	0.1
3000	65.001	63.454	-0.109	0.0	0.3	0.1
3024	65.001	63.454	-0.109	0.0	0.3	0.1
3048	65.001	63.455	-0.109	0.0	0.3	0.1
3072	65.001	63.455	-0.109	0.0	0.3	0.1
3096	65.001	63.455	-0.109	0.0	0.3	0.1
3120	65.001	63.455	-0.109	0.0	0.3	0.1
3144	65.001	63.455	-0.109	0.0	0.3	0.1
3168	65.001	63.455	-0.109	0.0	0.3	0.1
3192	65.001	63.455	-0.109	0.0	0.3	0.1
3216	65.001	63.455	-0.109	0.0	0.3	0.1
3240	65.001	63.455	-0.109	0.0	0.3	0.1
3264	65.001	63.455	-0.109	0.0	0.3	0.1
3288	65.001	63.455	-0.109	0.0	0.3	0.1
3312	65.001	63.455	-0.109	0.0	0.3	0.1
3336	65.001	63.455	-0.109	0.0	0.3	0.1
3360	65.001	63.455	-0.109	0.0	0.3	0.1
3384	65.001	63.455	-0.109	0.0	0.3	0.1
3408	65.002	63.456	-0.108	0.0	0.4	0.1
3432	65.002	63.456	-0.108	0.0	0.4	0.1
3456	65.002	63.456	-0.108	0.0	0.4	0.1
3480	65.002	63.456	-0.108	0.0	0.4	0.1
3504	65.002	63.456	-0.108	0.0	0.4	0.1
3528	65.002	63.456	-0.108	0.0	0.4	0.1
3552	65.002	63.456	-0.108	0.0	0.4	0.1
3576	65.002	63.456	-0.108	0.0	0.4	0.1
3600	65.002	63.456	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.002	63.456	-0.108	0.0	0.4	0.1
3648	65.002	63.456	-0.108	0.0	0.4	0.1
3672	65.002	63.456	-0.108	0.0	0.4	0.1
3696	65.002	63.456	-0.108	0.0	0.4	0.1
3720	65.002	63.456	-0.108	0.0	0.4	0.1
3744	65.002	63.456	-0.108	0.0	0.4	0.1
3768	65.002	63.456	-0.108	0.0	0.4	0.1
3792	65.002	63.456	-0.108	0.0	0.4	0.1
3816	65.002	63.456	-0.108	0.0	0.4	0.1
3840	65.001	63.456	-0.109	0.0	0.3	0.1
3864	65.001	63.457	-0.109	0.0	0.3	0.1
3888	65.001	63.459	-0.109	0.0	0.3	0.1
3912	65.001	63.461	-0.109	0.0	0.3	0.1
3936	65.001	63.463	-0.109	0.0	0.3	0.1
3960	65.001	63.466	-0.109	0.0	0.3	0.1
3984	65.001	63.469	-0.109	0.0	0.3	0.1
4008	65.001	63.472	-0.109	0.0	0.3	0.1
4032	65.001	63.476	-0.109	0.0	0.3	0.1
4056	65.001	63.478	-0.109	0.0	0.3	0.1
4080	65.001	63.481	-0.109	0.0	0.3	0.1
4104	65.001	63.484	-0.109	0.0	0.3	0.1
4128	65.001	63.487	-0.109	0.0	0.3	0.1
4152	65.001	63.489	-0.109	0.0	0.3	0.1
4176	65.001	63.492	-0.109	0.0	0.3	0.1
4200	65.001	63.494	-0.109	0.0	0.3	0.1
4224	65.001	63.496	-0.109	0.0	0.3	0.1
4248	65.001	63.499	-0.109	0.0	0.3	0.1
4272	65.001	63.501	-0.109	0.0	0.3	0.1
4296	65.001	63.503	-0.109	0.0	0.3	0.1
4320	65.001	63.505	-0.109	0.0	0.3	0.1
4344	65.001	63.507	-0.109	0.0	0.3	0.1
4368	65.001	63.508	-0.109	0.0	0.3	0.1
4392	65.001	63.510	-0.109	0.0	0.3	0.1
4416	65.001	63.512	-0.109	0.0	0.2	0.1
4440	65.001	63.513	-0.109	0.0	0.2	0.1
4464	65.001	63.514	-0.109	0.0	0.2	0.1
4488	65.001	63.516	-0.109	0.0	0.2	0.1
4512	65.001	63.517	-0.109	0.0	0.2	0.1
4536	65.001	63.518	-0.109	0.0	0.2	0.1
4560	65.001	63.519	-0.109	0.0	0.2	0.1
4584	65.001	63.520	-0.109	0.0	0.2	0.1
4608	65.001	63.521	-0.109	0.0	0.2	0.1
4632	65.001	63.521	-0.109	0.0	0.2	0.0
4656	65.001	63.522	-0.109	0.0	0.2	0.0
4680	65.001	63.522	-0.109	0.0	0.2	0.0
4704	65.001	63.523	-0.109	0.0	0.2	0.0
4728	65.001	63.523	-0.109	0.0	0.2	0.0
4752	65.001	63.523	-0.109	0.0	0.2	0.0
4776	65.001	63.523	-0.109	0.0	0.2	0.0
4800	65.001	63.523	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.001	63.523	-0.109	0.0	0.2	0.0
4848	65.001	63.523	-0.109	0.0	0.2	0.0
4872	65.001	63.523	-0.109	0.0	0.2	0.0
4896	65.001	63.523	-0.109	0.0	0.2	0.0
4920	65.001	63.523	-0.109	0.0	0.1	0.0
4944	65.001	63.522	-0.109	0.0	0.1	0.0
4968	65.001	63.522	-0.109	0.0	0.1	0.0
4992	65.001	63.521	-0.109	0.0	0.1	0.0
5016	65.001	63.520	-0.109	0.0	0.1	0.0
5040	65.001	63.520	-0.109	0.0	0.1	0.0
5064	65.001	63.519	-0.109	0.0	0.1	0.0
5088	65.001	63.518	-0.109	0.0	0.1	0.0
5112	65.001	63.517	-0.109	0.0	0.1	0.0
5136	65.001	63.516	-0.109	0.0	0.1	0.0
5160	65.001	63.515	-0.109	0.0	0.1	0.0
5184	65.001	63.514	-0.109	0.0	0.1	0.0
5208	65.000	63.513	-0.110	0.0	0.1	0.0
5232	65.000	63.512	-0.110	0.0	0.1	0.0
5256	65.000	63.510	-0.110	0.0	0.1	0.0
5280	65.000	63.509	-0.110	0.0	0.1	0.0
5304	65.000	63.508	-0.110	0.0	0.1	0.0
5328	65.000	63.506	-0.110	0.0	0.1	0.0
5352	65.000	63.505	-0.110	0.0	0.1	0.0
5376	65.000	63.503	-0.110	0.0	0.1	0.0
5400	65.000	63.502	-0.110	0.0	0.1	0.0
5424	65.000	63.500	-0.110	0.0	0.1	0.0
5448	65.000	63.499	-0.110	0.0	0.1	0.0
5472	65.000	63.497	-0.110	0.0	0.1	0.0
5496	65.000	63.495	-0.110	0.0	0.1	0.0
5520	65.000	63.494	-0.110	0.0	0.1	0.0
5544	65.000	63.492	-0.110	0.0	0.1	0.0
5568	65.000	63.490	-0.110	0.0	0.1	0.0
5592	65.000	63.488	-0.110	0.0	0.1	0.0
5616	65.000	63.486	-0.110	0.0	0.1	0.0
5640	65.000	63.484	-0.110	0.0	0.1	0.0
5664	65.000	63.483	-0.110	0.0	0.1	0.0
5688	65.000	63.481	-0.110	0.0	0.1	0.0
5712	65.000	63.479	-0.110	0.0	0.1	0.0
5736	65.000	63.477	-0.110	0.0	0.1	0.0
5760	65.000	63.475	-0.110	0.0	0.1	0.0
5784	65.000	63.473	-0.110	0.0	0.1	0.0
5808	65.000	63.471	-0.110	0.0	0.1	0.0
5832	65.000	63.469	-0.110	0.0	0.1	0.0
5856	65.000	63.467	-0.110	0.0	0.1	0.0
5880	65.000	63.465	-0.110	0.0	0.1	0.0
5904	65.000	63.463	-0.110	0.0	0.1	0.0
5928	65.000	63.461	-0.110	0.0	0.1	0.0
5952	65.000	63.459	-0.110	0.0	0.1	0.0
5976	65.000	63.457	-0.110	0.0	0.1	0.0
6000	65.000	63.455	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.454	-0.110	0.0	0.1	0.0
6048	65.000	63.452	-0.110	0.0	0.1	0.0
6072	65.000	63.450	-0.110	0.0	0.1	0.0
6096	65.000	63.449	-0.110	0.0	0.1	0.0
6120	65.000	63.448	-0.110	0.0	0.1	0.0
6144	65.000	63.448	-0.110	0.0	0.1	0.0
6168	65.000	63.447	-0.110	0.0	0.1	0.0
6192	65.000	63.447	-0.110	0.0	0.1	0.0
6216	65.000	63.447	-0.110	0.0	0.1	0.0
6240	65.000	63.446	-0.110	0.0	0.1	0.0
6264	65.000	63.446	-0.110	0.0	0.1	0.0
6288	65.000	63.446	-0.110	0.0	0.1	0.0
6312	65.000	63.446	-0.110	0.0	0.1	0.0
6336	65.000	63.446	-0.110	0.0	0.1	0.0
6360	65.000	63.446	-0.110	0.0	0.1	0.0
6384	65.000	63.446	-0.110	0.0	0.1	0.0
6408	65.000	63.446	-0.110	0.0	0.1	0.0
6432	65.000	63.446	-0.110	0.0	0.1	0.0
6456	65.000	63.446	-0.110	0.0	0.1	0.0
6480	65.000	63.446	-0.110	0.0	0.1	0.0
6504	65.000	63.446	-0.110	0.0	0.1	0.0
6528	65.000	63.446	-0.110	0.0	0.1	0.0
6552	65.000	63.446	-0.110	0.0	0.1	0.0
6576	65.000	63.446	-0.110	0.0	0.1	0.0
6600	65.000	63.446	-0.110	0.0	0.1	0.0
6624	65.000	63.446	-0.110	0.0	0.1	0.0
6648	65.000	63.446	-0.110	0.0	0.1	0.0
6672	65.000	63.446	-0.110	0.0	0.1	0.0
6696	65.000	63.446	-0.110	0.0	0.1	0.0
6720	65.000	63.446	-0.110	0.0	0.1	0.0
6744	65.000	63.446	-0.110	0.0	0.1	0.0
6768	65.000	63.446	-0.110	0.0	0.1	0.0
6792	65.000	63.446	-0.110	0.0	0.1	0.0
6816	65.000	63.446	-0.110	0.0	0.1	0.0
6840	65.000	63.446	-0.110	0.0	0.1	0.0
6864	65.000	63.446	-0.110	0.0	0.0	0.0
6888	65.000	63.446	-0.110	0.0	0.0	0.0
6912	65.000	63.446	-0.110	0.0	0.0	0.0
6936	65.000	63.445	-0.110	0.0	0.0	0.0
6960	65.000	63.445	-0.110	0.0	0.0	0.0
6984	65.000	63.445	-0.110	0.0	0.0	0.0
7008	65.000	63.445	-0.110	0.0	0.0	0.0
7032	65.000	63.445	-0.110	0.0	0.0	0.0
7056	65.000	63.445	-0.110	0.0	0.0	0.0
7080	65.000	63.445	-0.110	0.0	0.0	0.0
7104	65.000	63.445	-0.110	0.0	0.0	0.0
7128	65.000	63.445	-0.110	0.0	0.0	0.0
7152	65.000	63.444	-0.110	0.0	0.0	0.0
7176	65.000	63.444	-0.110	0.0	0.0	0.0
7200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.444	-0.110	0.0	0.0	0.0
7248	65.000	63.444	-0.110	0.0	0.0	0.0
7272	65.000	63.444	-0.110	0.0	0.0	0.0
7296	65.000	63.444	-0.110	0.0	0.0	0.0
7320	65.000	63.444	-0.110	0.0	0.0	0.0
7344	65.000	63.444	-0.110	0.0	0.0	0.0
7368	65.000	63.444	-0.110	0.0	0.0	0.0
7392	65.000	63.444	-0.110	0.0	0.0	0.0
7416	65.000	63.444	-0.110	0.0	0.0	0.0
7440	65.000	63.444	-0.110	0.0	0.0	0.0
7464	65.000	63.444	-0.110	0.0	0.0	0.0
7488	65.000	63.444	-0.110	0.0	0.0	0.0
7512	65.000	63.444	-0.110	0.0	0.0	0.0
7536	65.000	63.444	-0.110	0.0	0.0	0.0
7560	65.000	63.444	-0.110	0.0	0.0	0.0
7584	65.000	63.444	-0.110	0.0	0.0	0.0
7608	65.000	63.444	-0.110	0.0	0.0	0.0
7632	65.000	63.444	-0.110	0.0	0.0	0.0
7656	65.000	63.444	-0.110	0.0	0.0	0.0
7680	65.000	63.444	-0.110	0.0	0.0	0.0
7704	65.000	63.444	-0.110	0.0	0.0	0.0
7728	65.000	63.444	-0.110	0.0	0.0	0.0
7752	65.000	63.444	-0.110	0.0	0.0	0.0
7776	65.000	63.444	-0.110	0.0	0.0	0.0
7800	65.000	63.444	-0.110	0.0	0.0	0.0
7824	65.000	63.444	-0.110	0.0	0.0	0.0
7848	65.000	63.444	-0.110	0.0	0.0	0.0
7872	65.000	63.444	-0.110	0.0	0.0	0.0
7896	65.000	63.444	-0.110	0.0	0.0	0.0
7920	65.000	63.444	-0.110	0.0	0.0	0.0
7944	65.000	63.444	-0.110	0.0	0.0	0.0
7968	65.000	63.444	-0.110	0.0	0.0	0.0
7992	65.000	63.444	-0.110	0.0	0.0	0.0
8016	65.000	63.444	-0.110	0.0	0.0	0.0
8040	65.000	63.444	-0.110	0.0	0.0	0.0
8064	65.000	63.444	-0.110	0.0	0.0	0.0
8088	65.000	63.444	-0.110	0.0	0.0	0.0
8112	65.000	63.444	-0.110	0.0	0.0	0.0
8136	65.000	63.444	-0.110	0.0	0.0	0.0
8160	65.000	63.444	-0.110	0.0	0.0	0.0
8184	65.000	63.444	-0.110	0.0	0.0	0.0
8208	65.000	63.444	-0.110	0.0	0.0	0.0
8232	65.000	63.444	-0.110	0.0	0.0	0.0
8256	65.000	63.444	-0.110	0.0	0.0	0.0
8280	65.000	63.444	-0.110	0.0	0.0	0.0
8304	65.000	63.444	-0.110	0.0	0.0	0.0
8328	65.000	63.444	-0.110	0.0	0.0	0.0
8352	65.000	63.444	-0.110	0.0	0.0	0.0
8376	65.000	63.444	-0.110	0.0	0.0	0.0
8400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.444	-0.110	0.0	0.0	0.0
8448	65.000	63.444	-0.110	0.0	0.0	0.0
8472	65.000	63.444	-0.110	0.0	0.0	0.0
8496	65.000	63.444	-0.110	0.0	0.0	0.0
8520	65.000	63.444	-0.110	0.0	0.0	0.0
8544	65.000	63.444	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.444	63.250	-0.110	0.0	0.0	0.0
72	63.444	63.250	-0.110	0.0	0.0	0.0
96	63.444	63.250	-0.110	0.0	0.0	0.0
120	63.444	63.250	-0.110	0.0	0.0	0.0
144	63.444	63.250	-0.110	0.0	0.0	0.0
168	63.444	63.250	-0.110	0.0	0.0	0.0
192	63.444	63.250	-0.110	0.0	0.0	0.0
216	63.444	63.250	-0.110	0.0	0.0	0.0
240	63.444	63.251	-0.110	0.0	0.0	0.0
264	63.444	63.251	-0.110	0.0	0.0	0.0
288	63.444	63.251	-0.110	0.0	0.0	0.0
312	63.445	63.251	-0.110	0.0	0.0	0.0
336	63.445	63.252	-0.110	0.0	0.0	0.0
360	63.445	63.252	-0.110	0.0	0.0	0.0
384	63.445	63.252	-0.110	0.0	0.0	0.0
408	63.445	63.252	-0.110	0.0	0.0	0.0
432	63.445	63.253	-0.110	0.0	0.0	0.0
456	63.445	63.253	-0.110	0.0	0.0	0.0
480	63.445	63.253	-0.110	0.0	0.0	0.0
504	63.445	63.253	-0.110	0.0	0.0	0.0
528	63.446	63.254	-0.109	0.0	0.1	0.0
552	63.446	63.255	-0.108	0.0	0.1	0.0
576	63.446	63.255	-0.108	0.0	0.1	0.0
600	63.446	63.256	-0.108	0.0	0.1	0.0
624	63.446	63.257	-0.108	0.0	0.1	0.0
648	63.446	63.257	-0.108	0.0	0.1	0.0
672	63.446	63.258	-0.108	0.0	0.1	0.0
696	63.446	63.258	-0.108	0.0	0.1	0.0
720	63.446	63.259	-0.108	0.0	0.1	0.0
744	63.446	63.259	-0.108	0.0	0.1	0.0
768	63.446	63.259	-0.108	0.0	0.1	0.0
792	63.446	63.260	-0.108	0.0	0.1	0.0
816	63.446	63.260	-0.108	0.0	0.1	0.0
840	63.446	63.260	-0.108	0.0	0.1	0.0
864	63.446	63.260	-0.108	0.0	0.1	0.0
888	63.446	63.260	-0.108	0.0	0.1	0.0
912	63.446	63.260	-0.108	0.0	0.1	0.0
936	63.446	63.261	-0.108	0.0	0.1	0.0
960	63.446	63.261	-0.108	0.0	0.1	0.0
984	63.446	63.261	-0.108	0.0	0.1	0.0
1008	63.446	63.261	-0.108	0.0	0.1	0.0
1032	63.446	63.261	-0.108	0.0	0.1	0.0
1056	63.446	63.261	-0.108	0.0	0.1	0.0
1080	63.446	63.261	-0.108	0.0	0.1	0.0
1104	63.446	63.261	-0.108	0.0	0.1	0.0
1128	63.446	63.261	-0.108	0.0	0.1	0.0
1152	63.446	63.261	-0.108	0.0	0.1	0.0
1176	63.446	63.261	-0.108	0.0	0.1	0.0
1200	63.446	63.261	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.446	63.261	-0.108	0.0	0.1	0.0
1248	63.446	63.261	-0.108	0.0	0.1	0.0
1272	63.446	63.261	-0.108	0.0	0.1	0.0
1296	63.446	63.261	-0.108	0.0	0.1	0.0
1320	63.446	63.261	-0.108	0.0	0.1	0.0
1344	63.446	63.261	-0.108	0.0	0.1	0.0
1368	63.446	63.261	-0.108	0.0	0.1	0.0
1392	63.446	63.261	-0.108	0.0	0.1	0.0
1416	63.446	63.261	-0.108	0.0	0.1	0.0
1440	63.446	63.261	-0.108	0.0	0.1	0.0
1464	63.446	63.262	-0.108	0.0	0.1	0.0
1488	63.447	63.262	-0.108	0.0	0.2	0.0
1512	63.447	63.262	-0.107	0.0	0.1	0.0
1536	63.447	63.263	-0.107	0.0	0.1	0.0
1560	63.447	63.263	-0.107	0.0	0.1	0.0
1584	63.447	63.263	-0.107	0.0	0.1	0.0
1608	63.447	63.264	-0.107	0.0	0.2	0.0
1632	63.447	63.264	-0.107	0.0	0.2	0.0
1656	63.447	63.264	-0.107	0.0	0.2	0.0
1680	63.447	63.264	-0.107	0.0	0.2	0.0
1704	63.447	63.265	-0.107	0.0	0.2	0.0
1728	63.447	63.265	-0.107	0.0	0.2	0.0
1752	63.447	63.265	-0.107	0.0	0.2	0.0
1776	63.447	63.265	-0.107	0.0	0.2	0.0
1800	63.447	63.265	-0.107	0.0	0.2	0.0
1824	63.447	63.266	-0.107	0.0	0.2	0.0
1848	63.447	63.266	-0.107	0.0	0.2	0.0
1872	63.447	63.266	-0.107	0.0	0.2	0.0
1896	63.448	63.266	-0.106	0.0	0.2	0.0
1920	63.448	63.267	-0.106	0.0	0.2	0.0
1944	63.448	63.267	-0.106	0.0	0.2	0.0
1968	63.448	63.267	-0.106	0.0	0.2	0.1
1992	63.448	63.267	-0.106	0.0	0.2	0.1
2016	63.448	63.268	-0.106	0.0	0.2	0.1
2040	63.448	63.268	-0.106	0.0	0.2	0.1
2064	63.448	63.268	-0.106	0.0	0.2	0.1
2088	63.448	63.269	-0.106	0.0	0.2	0.1
2112	63.449	63.269	-0.106	0.0	0.2	0.1
2136	63.449	63.269	-0.106	0.0	0.3	0.1
2160	63.449	63.270	-0.106	0.0	0.3	0.1
2184	63.449	63.270	-0.105	0.0	0.3	0.1
2208	63.449	63.270	-0.105	0.0	0.3	0.1
2232	63.449	63.271	-0.105	0.0	0.3	0.1
2256	63.449	63.271	-0.105	0.0	0.3	0.1
2280	63.449	63.271	-0.105	0.0	0.3	0.1
2304	63.449	63.272	-0.105	0.0	0.3	0.1
2328	63.450	63.272	-0.104	0.0	0.3	0.1
2352	63.450	63.273	-0.104	0.0	0.3	0.1
2376	63.450	63.273	-0.104	0.0	0.3	0.1
2400	63.450	63.273	-0.104	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.450	63.274	-0.104	0.0	0.3	0.1
2448	63.450	63.274	-0.104	0.0	0.3	0.1
2472	63.451	63.275	-0.103	0.0	0.4	0.1
2496	63.451	63.275	-0.103	0.0	0.4	0.1
2520	63.451	63.276	-0.103	0.0	0.4	0.1
2544	63.451	63.276	-0.103	0.0	0.4	0.1
2568	63.451	63.277	-0.103	0.0	0.4	0.1
2592	63.451	63.278	-0.103	0.0	0.4	0.1
2616	63.452	63.279	-0.102	0.0	0.4	0.1
2640	63.452	63.279	-0.102	0.0	0.4	0.1
2664	63.452	63.280	-0.102	0.0	0.4	0.1
2688	63.452	63.281	-0.102	0.0	0.4	0.1
2712	63.452	63.282	-0.102	0.0	0.4	0.1
2736	63.452	63.284	-0.102	0.0	0.4	0.1
2760	63.453	63.286	-0.101	0.0	0.3	0.1
2784	63.453	63.289	-0.101	0.0	0.3	0.1
2808	63.453	63.291	-0.101	0.0	0.3	0.1
2832	63.453	63.293	-0.101	0.0	0.3	0.1
2856	63.453	63.296	-0.101	0.0	0.3	0.1
2880	63.453	63.298	-0.101	0.0	0.4	0.1
2904	63.454	63.301	-0.100	0.0	0.3	0.1
2928	63.454	63.304	-0.100	0.0	0.3	0.1
2952	63.454	63.307	-0.100	0.0	0.3	0.1
2976	63.454	63.310	-0.100	0.0	0.3	0.1
3000	63.454	63.313	-0.100	0.0	0.3	0.1
3024	63.454	63.316	-0.100	0.0	0.3	0.1
3048	63.455	63.319	-0.100	0.0	0.3	0.1
3072	63.455	63.322	-0.100	0.0	0.3	0.1
3096	63.455	63.326	-0.100	0.0	0.3	0.1
3120	63.455	63.329	-0.099	0.0	0.3	0.1
3144	63.455	63.332	-0.099	0.0	0.3	0.2
3168	63.455	63.336	-0.099	0.0	0.3	0.2
3192	63.455	63.339	-0.099	0.0	0.3	0.2
3216	63.455	63.343	-0.099	0.0	0.3	0.2
3240	63.455	63.347	-0.099	0.0	0.3	0.2
3264	63.455	63.350	-0.099	0.0	0.3	0.2
3288	63.455	63.354	-0.099	0.0	0.3	0.2
3312	63.455	63.358	-0.099	0.0	0.3	0.2
3336	63.455	63.363	-0.099	0.0	0.3	0.2
3360	63.455	63.370	-0.099	0.0	0.3	0.2
3384	63.455	63.375	-0.099	0.0	0.3	0.2
3408	63.456	63.380	-0.099	0.0	0.3	0.2
3432	63.456	63.385	-0.099	0.0	0.3	0.2
3456	63.456	63.389	-0.099	0.0	0.3	0.2
3480	63.456	63.394	-0.098	0.0	0.3	0.2
3504	63.456	63.398	-0.098	0.0	0.3	0.2
3528	63.456	63.402	-0.098	0.0	0.3	0.2
3552	63.456	63.405	-0.098	0.0	0.3	0.2
3576	63.456	63.409	-0.098	0.0	0.3	0.2
3600	63.456	63.412	-0.098	0.0	0.3	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.456	63.415	-0.098	0.0	0.3	0.2
3648	63.456	63.418	-0.098	0.0	0.3	0.2
3672	63.456	63.421	-0.098	0.0	0.3	0.2
3696	63.456	63.425	-0.098	0.0	0.3	0.2
3720	63.456	63.429	-0.098	0.0	0.3	0.2
3744	63.456	63.433	-0.098	0.0	0.3	0.2
3768	63.456	63.436	-0.099	0.0	0.3	0.2
3792	63.456	63.440	-0.099	0.0	0.3	0.2
3816	63.456	63.444	-0.098	0.0	0.3	0.2
3840	63.456	63.448	-0.098	0.0	0.3	0.2
3864	63.457	63.452	-0.097	0.0	0.3	0.2
3888	63.459	63.455	-0.095	0.0	0.2	0.2
3912	63.461	63.459	-0.093	0.0	0.2	0.2
3936	63.463	63.462	-0.091	0.0	0.2	0.2
3960	63.466	63.466	-0.088	0.0	0.1	0.2
3984	63.469	63.469	-0.085	0.0	0.1	0.2
4008	63.472	63.472	-0.082	0.0	0.1	0.2
4032	63.476	63.475	-0.079	0.0	0.1	0.2
4056	63.478	63.478	-0.076	0.0	0.1	0.1
4080	63.481	63.481	-0.073	0.0	0.1	0.1
4104	63.484	63.484	-0.070	0.0	0.0	0.1
4128	63.487	63.486	-0.067	0.0	0.0	0.1
4152	63.489	63.489	-0.065	0.0	0.0	0.1
4176	63.492	63.491	-0.062	0.0	0.0	0.1
4200	63.494	63.494	-0.060	0.0	0.0	0.1
4224	63.496	63.496	-0.058	0.0	0.0	0.1
4248	63.499	63.498	-0.055	0.0	0.0	0.1
4272	63.501	63.500	-0.053	0.0	0.0	0.1
4296	63.503	63.502	-0.051	0.0	0.0	0.1
4320	63.505	63.504	-0.049	0.0	0.0	0.1
4344	63.507	63.506	-0.047	0.0	0.0	0.1
4368	63.508	63.508	-0.046	0.0	0.0	0.1
4392	63.510	63.510	-0.044	0.0	0.0	0.1
4416	63.512	63.511	-0.042	0.0	0.0	0.1
4440	63.513	63.513	-0.041	0.0	0.0	0.1
4464	63.514	63.514	-0.040	0.0	0.0	0.1
4488	63.516	63.515	-0.038	0.0	0.0	0.1
4512	63.517	63.516	-0.037	0.0	0.0	0.1
4536	63.518	63.518	-0.036	0.0	0.0	0.1
4560	63.519	63.519	-0.035	0.0	0.0	0.1
4584	63.520	63.519	-0.034	0.0	0.0	0.1
4608	63.521	63.520	-0.034	0.0	0.0	0.1
4632	63.521	63.521	-0.033	0.0	0.0	0.1
4656	63.522	63.521	-0.032	0.0	0.0	0.1
4680	63.522	63.522	-0.032	0.0	0.0	0.1
4704	63.523	63.522	-0.031	0.0	0.0	0.1
4728	63.523	63.523	-0.031	0.0	0.0	0.1
4752	63.523	63.523	-0.031	0.0	0.0	0.1
4776	63.523	63.523	-0.031	0.0	0.0	0.1
4800	63.523	63.523	-0.031	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.523	63.523	-0.031	0.0	0.0	0.1
4848	63.523	63.523	-0.031	0.0	0.0	0.1
4872	63.523	63.523	-0.031	0.0	0.0	0.1
4896	63.523	63.523	-0.031	0.0	0.0	0.1
4920	63.523	63.522	-0.032	0.0	0.0	0.1
4944	63.522	63.522	-0.032	0.0	0.0	0.1
4968	63.522	63.521	-0.033	0.0	0.0	0.1
4992	63.521	63.521	-0.033	0.0	0.0	0.1
5016	63.520	63.520	-0.034	0.0	0.0	0.1
5040	63.520	63.519	-0.034	0.0	0.0	0.1
5064	63.519	63.519	-0.035	0.0	0.0	0.1
5088	63.518	63.518	-0.036	0.0	0.0	0.1
5112	63.517	63.517	-0.037	0.0	0.0	0.1
5136	63.516	63.516	-0.038	0.0	0.0	0.1
5160	63.515	63.515	-0.039	0.0	0.0	0.1
5184	63.514	63.514	-0.040	0.0	0.0	0.1
5208	63.513	63.513	-0.041	0.0	0.0	0.1
5232	63.512	63.511	-0.043	0.0	0.0	0.1
5256	63.510	63.510	-0.044	0.0	0.0	0.1
5280	63.509	63.509	-0.045	0.0	0.0	0.0
5304	63.508	63.508	-0.046	0.0	0.0	0.1
5328	63.506	63.506	-0.048	0.0	0.0	0.0
5352	63.505	63.505	-0.049	0.0	0.0	0.0
5376	63.503	63.503	-0.051	0.0	0.0	0.0
5400	63.502	63.502	-0.052	0.0	0.0	0.0
5424	63.500	63.500	-0.054	0.0	0.0	0.0
5448	63.499	63.498	-0.056	0.0	0.0	0.0
5472	63.497	63.497	-0.057	0.0	0.0	0.0
5496	63.495	63.495	-0.059	0.0	0.0	0.0
5520	63.494	63.493	-0.061	0.0	0.0	0.0
5544	63.492	63.492	-0.062	0.0	0.0	0.0
5568	63.490	63.490	-0.064	0.0	0.0	0.0
5592	63.488	63.488	-0.066	0.0	0.0	0.0
5616	63.486	63.486	-0.068	0.0	0.0	0.0
5640	63.484	63.484	-0.070	0.0	0.0	0.0
5664	63.483	63.482	-0.072	0.0	0.0	0.0
5688	63.481	63.481	-0.073	0.0	0.0	0.0
5712	63.479	63.479	-0.075	0.0	0.0	0.0
5736	63.477	63.477	-0.077	0.0	0.0	0.0
5760	63.475	63.475	-0.079	0.0	0.0	0.0
5784	63.473	63.473	-0.081	0.0	0.0	0.0
5808	63.471	63.471	-0.083	0.0	0.0	0.0
5832	63.469	63.469	-0.085	0.0	0.0	0.0
5856	63.467	63.467	-0.087	0.0	0.0	0.0
5880	63.465	63.465	-0.089	0.0	0.0	0.0
5904	63.463	63.463	-0.091	0.0	0.0	0.0
5928	63.461	63.461	-0.093	0.0	0.0	0.0
5952	63.459	63.459	-0.095	0.0	0.0	0.0
5976	63.457	63.457	-0.097	0.0	0.0	0.0
6000	63.455	63.455	-0.099	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.454	63.453	-0.100	0.0	0.1	0.0
6048	63.452	63.451	-0.102	0.0	0.1	0.0
6072	63.450	63.449	-0.104	0.0	0.1	0.0
6096	63.449	63.447	-0.105	0.0	0.1	0.0
6120	63.448	63.445	-0.106	0.0	0.1	0.0
6144	63.448	63.443	-0.106	0.0	0.1	0.0
6168	63.447	63.441	-0.107	0.0	0.1	0.0
6192	63.447	63.439	-0.107	0.0	0.1	0.0
6216	63.447	63.437	-0.108	0.0	0.1	0.0
6240	63.446	63.435	-0.108	0.0	0.1	0.0
6264	63.446	63.433	-0.108	0.0	0.1	0.0
6288	63.446	63.431	-0.108	0.0	0.1	0.0
6312	63.446	63.429	-0.108	0.0	0.1	0.0
6336	63.446	63.427	-0.108	0.0	0.1	0.0
6360	63.446	63.425	-0.108	0.0	0.1	0.0
6384	63.446	63.423	-0.108	0.0	0.1	0.0
6408	63.446	63.421	-0.108	0.0	0.1	0.0
6432	63.446	63.419	-0.108	0.0	0.1	0.0
6456	63.446	63.417	-0.108	0.0	0.1	0.0
6480	63.446	63.415	-0.108	0.0	0.1	0.0
6504	63.446	63.413	-0.108	0.0	0.1	0.0
6528	63.446	63.411	-0.108	0.0	0.1	0.0
6552	63.446	63.409	-0.108	0.0	0.1	0.0
6576	63.446	63.407	-0.108	0.0	0.1	0.0
6600	63.446	63.405	-0.108	0.0	0.1	0.0
6624	63.446	63.403	-0.108	0.0	0.1	0.0
6648	63.446	63.401	-0.108	0.0	0.1	0.0
6672	63.446	63.399	-0.108	0.0	0.1	0.0
6696	63.446	63.397	-0.108	0.0	0.1	0.0
6720	63.446	63.395	-0.108	0.0	0.1	0.0
6744	63.446	63.393	-0.108	0.0	0.1	0.0
6768	63.446	63.391	-0.108	0.0	0.1	0.0
6792	63.446	63.389	-0.108	0.0	0.1	0.0
6816	63.446	63.387	-0.108	0.0	0.1	0.0
6840	63.446	63.385	-0.108	0.0	0.1	0.0
6864	63.446	63.383	-0.108	0.0	0.1	0.0
6888	63.446	63.381	-0.108	0.0	0.1	0.0
6912	63.446	63.379	-0.108	0.0	0.1	0.0
6936	63.445	63.377	-0.109	0.0	0.1	0.0
6960	63.445	63.376	-0.109	0.0	0.1	0.0
6984	63.445	63.374	-0.109	0.0	0.1	0.0
7008	63.445	63.372	-0.109	0.0	0.1	0.0
7032	63.445	63.370	-0.109	0.0	0.1	0.0
7056	63.445	63.369	-0.109	0.0	0.1	0.0
7080	63.445	63.367	-0.109	0.0	0.0	0.0
7104	63.445	63.365	-0.109	0.0	0.0	0.0
7128	63.445	63.362	-0.109	0.0	0.0	0.0
7152	63.444	63.358	-0.110	0.0	0.0	0.0
7176	63.444	63.353	-0.110	0.0	0.0	0.0
7200	63.444	63.350	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.444	63.346	-0.110	0.0	0.0	0.0
7248	63.444	63.343	-0.110	0.0	0.0	0.0
7272	63.444	63.340	-0.110	0.0	0.0	0.0
7296	63.444	63.337	-0.110	0.0	0.0	0.0
7320	63.444	63.334	-0.110	0.0	0.0	0.0
7344	63.444	63.331	-0.110	0.0	0.0	0.0
7368	63.444	63.328	-0.110	0.0	0.0	0.0
7392	63.444	63.325	-0.110	0.0	0.0	0.0
7416	63.444	63.322	-0.110	0.0	0.0	0.0
7440	63.444	63.319	-0.110	0.0	0.0	0.0
7464	63.444	63.316	-0.110	0.0	0.0	0.0
7488	63.444	63.313	-0.110	0.0	0.0	0.0
7512	63.444	63.309	-0.110	0.0	0.0	0.0
7536	63.444	63.306	-0.110	0.0	0.0	0.0
7560	63.444	63.303	-0.110	0.0	0.0	0.0
7584	63.444	63.300	-0.110	0.0	0.0	0.0
7608	63.444	63.297	-0.110	0.0	0.0	0.0
7632	63.444	63.293	-0.110	0.0	0.0	0.0
7656	63.444	63.289	-0.110	0.0	0.0	0.0
7680	63.444	63.285	-0.110	0.0	0.0	0.0
7704	63.444	63.283	-0.110	0.0	0.0	0.0
7728	63.444	63.280	-0.110	0.0	0.0	0.0
7752	63.444	63.276	-0.110	0.0	0.0	0.0
7776	63.444	63.273	-0.110	0.0	0.0	0.0
7800	63.444	63.271	-0.110	0.0	0.0	0.0
7824	63.444	63.268	-0.110	0.0	0.0	0.0
7848	63.444	63.266	-0.110	0.0	0.0	0.0
7872	63.444	63.264	-0.110	0.0	0.0	0.0
7896	63.444	63.263	-0.110	0.0	0.0	0.0
7920	63.444	63.261	-0.110	0.0	0.0	0.0
7944	63.444	63.260	-0.110	0.0	0.0	0.0
7968	63.444	63.259	-0.110	0.0	0.0	0.0
7992	63.444	63.259	-0.110	0.0	0.0	0.0
8016	63.444	63.258	-0.110	0.0	0.0	0.0
8040	63.444	63.258	-0.110	0.0	0.0	0.0
8064	63.444	63.257	-0.110	0.0	0.0	0.0
8088	63.444	63.257	-0.110	0.0	0.0	0.0
8112	63.444	63.256	-0.110	0.0	0.0	0.0
8136	63.444	63.256	-0.110	0.0	0.0	0.0
8160	63.444	63.256	-0.110	0.0	0.0	0.0
8184	63.444	63.255	-0.110	0.0	0.0	0.0
8208	63.444	63.255	-0.110	0.0	0.0	0.0
8232	63.444	63.255	-0.110	0.0	0.0	0.0
8256	63.444	63.255	-0.110	0.0	0.0	0.0
8280	63.444	63.254	-0.110	0.0	0.0	0.0
8304	63.444	63.254	-0.110	0.0	0.0	0.0
8328	63.444	63.254	-0.110	0.0	0.0	0.0
8352	63.444	63.254	-0.110	0.0	0.0	0.0
8376	63.444	63.254	-0.110	0.0	0.0	0.0
8400	63.444	63.254	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.444	63.254	-0.110	0.0	0.0	0.0
8448	63.444	63.253	-0.110	0.0	0.0	0.0
8472	63.444	63.253	-0.110	0.0	0.0	0.0
8496	63.444	63.253	-0.110	0.0	0.0	0.0
8520	63.444	63.253	-0.110	0.0	0.0	0.0
8544	63.444	63.253	-0.110	0.0	0.0	0.0
8568	63.444	63.253	-0.110	0.0	0.0	0.0
8592	63.444	63.253	-0.110	0.0	0.0	0.0
8616	63.444	63.253	-0.110	0.0	0.0	0.0
8640	63.444	63.253	-0.110	0.0	0.0	0.0
8664	63.444	63.253	-0.110	0.0	0.0	0.0
8688	63.444	63.253	-0.110	0.0	0.0	0.0
8712	63.444	63.253	-0.110	0.0	0.0	0.0
8736	63.444	63.252	-0.110	0.0	0.0	0.0
8760	63.444	63.252	-0.110	0.0	0.0	0.0
8784	63.444	63.252	-0.110	0.0	0.0	0.0
8808	63.444	63.252	-0.110	0.0	0.0	0.0
8832	63.444	63.252	-0.110	0.0	0.0	0.0
8856	63.444	63.252	-0.110	0.0	0.0	0.0
8880	63.444	63.252	-0.110	0.0	0.0	0.0
8904	63.444	63.252	-0.110	0.0	0.0	0.0
8928	63.444	63.252	-0.110	0.0	0.0	0.0
8952	63.444	63.252	-0.110	0.0	0.0	0.0
8976	63.444	63.252	-0.110	0.0	0.0	0.0
9000	63.444	63.252	-0.110	0.0	0.0	0.0
9024	63.444	63.252	-0.110	0.0	0.0	0.0
9048	63.444	63.252	-0.110	0.0	0.0	0.0
9072	63.444	63.252	-0.110	0.0	0.0	0.0
9096	63.444	63.252	-0.110	0.0	0.0	0.0
9120	63.444	63.252	-0.110	0.0	0.0	0.0
9144	63.444	63.252	-0.110	0.0	0.0	0.0
9168	63.444	63.252	-0.110	0.0	0.0	0.0
9192	63.444	63.252	-0.110	0.0	0.0	0.0
9216	63.444	63.252	-0.110	0.0	0.0	0.0
9240	63.444	63.252	-0.110	0.0	0.0	0.0
9264	63.444	63.252	-0.110	0.0	0.0	0.0
9288	63.444	63.252	-0.110	0.0	0.0	0.0
9312	63.444	63.252	-0.110	0.0	0.0	0.0
9336	63.444	63.251	-0.110	0.0	0.0	0.0
9360	63.444	63.251	-0.110	0.0	0.0	0.0
9384	63.444	63.251	-0.110	0.0	0.0	0.0
9408	63.444	63.251	-0.110	0.0	0.0	0.0
9432	63.444	63.251	-0.110	0.0	0.0	0.0
9456	63.444	63.251	-0.110	0.0	0.0	0.0
9480	63.444	63.251	-0.110	0.0	0.0	0.0
9504	63.444	63.251	-0.110	0.0	0.0	0.0
9528	63.444	63.251	-0.110	0.0	0.0	0.0
9552	63.444	63.251	-0.110	0.0	0.0	0.0
9576	63.444	63.251	-0.110	0.0	0.0	0.0
9600	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.251	-0.110	0.0	0.0	0.0
9648	63.444	63.251	-0.110	0.0	0.0	0.0
9672	63.444	63.251	-0.110	0.0	0.0	0.0
9696	63.444	63.251	-0.110	0.0	0.0	0.0
9720	63.444	63.251	-0.110	0.0	0.0	0.0
9744	63.444	63.251	-0.110	0.0	0.0	0.0
9768	63.444	63.251	-0.110	0.0	0.0	0.0
9792	63.444	63.251	-0.110	0.0	0.0	0.0
9816	63.444	63.251	-0.110	0.0	0.0	0.0
9840	63.444	63.251	-0.110	0.0	0.0	0.0
9864	63.444	63.251	-0.110	0.0	0.0	0.0
9888	63.444	63.251	-0.110	0.0	0.0	0.0
9912	63.444	63.251	-0.110	0.0	0.0	0.0
9936	63.444	63.251	-0.110	0.0	0.0	0.0
9960	63.444	63.251	-0.110	0.0	0.0	0.0
9984	63.444	63.251	-0.110	0.0	0.0	0.0
10008	63.444	63.251	-0.110	0.0	0.0	0.0
10032	63.444	63.251	-0.110	0.0	0.0	0.0
10056	63.444	63.251	-0.110	0.0	0.0	0.0
10080	63.444	63.251	-0.110	0.0	0.0	0.0
10104	63.444	63.251	-0.110	0.0	0.0	0.0
10128	63.444	63.251	-0.110	0.0	0.0	0.0
10152	63.444	63.251	-0.110	0.0	0.0	0.0
10176	63.444	63.251	-0.110	0.0	0.0	0.0
10200	63.444	63.251	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.250	-0.110	0.0	0.0	0.0
12408	63.444	63.250	-0.110	0.0	0.0	0.0
12432	63.444	63.250	-0.110	0.0	0.0	0.0
12456	63.444	63.250	-0.110	0.0	0.0	0.0
12480	63.444	63.250	-0.110	0.0	0.0	0.0
12504	63.444	63.250	-0.110	0.0	0.0	0.0
12528	63.444	63.250	-0.110	0.0	0.0	0.0
12552	63.444	63.250	-0.110	0.0	0.0	0.0
12576	63.444	63.250	-0.110	0.0	0.0	0.0
12600	63.444	63.250	-0.110	0.0	0.0	0.0
12624	63.444	63.250	-0.110	0.0	0.0	0.0
12648	63.444	63.250	-0.110	0.0	0.0	0.0
12672	63.444	63.250	-0.110	0.0	0.0	0.0
12696	63.444	63.250	-0.110	0.0	0.0	0.0
12720	63.444	63.250	-0.110	0.0	0.0	0.0
12744	63.444	63.250	-0.110	0.0	0.0	0.0
12768	63.444	63.250	-0.110	0.0	0.0	0.0
12792	63.444	63.250	-0.110	0.0	0.0	0.0
12816	63.444	63.250	-0.110	0.0	0.0	0.0
12840	63.444	63.250	-0.110	0.0	0.0	0.0
12864	63.444	63.250	-0.110	0.0	0.0	0.0
12888	63.444	63.250	-0.110	0.0	0.0	0.0
12912	63.444	63.250	-0.110	0.0	0.0	0.0
12936	63.444	63.250	-0.110	0.0	0.0	0.0
12960	63.444	63.250	-0.110	0.0	0.0	0.0
12984	63.444	63.250	-0.110	0.0	0.0	0.0
13008	63.444	63.250	-0.110	0.0	0.0	0.0
13032	63.444	63.250	-0.110	0.0	0.0	0.0
13056	63.444	63.250	-0.110	0.0	0.0	0.0
13080	63.444	63.250	-0.110	0.0	0.0	0.0
13104	63.444	63.250	-0.110	0.0	0.0	0.0
13128	63.444	63.250	-0.110	0.0	0.0	0.0
13152	63.444	63.250	-0.110	0.0	0.0	0.0
13176	63.444	63.250	-0.110	0.0	0.0	0.0
13200	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.250	-0.110	0.0	0.0	0.0
13248	63.444	63.250	-0.110	0.0	0.0	0.0
13272	63.444	63.250	-0.110	0.0	0.0	0.0
13296	63.444	63.250	-0.110	0.0	0.0	0.0
13320	63.444	63.250	-0.110	0.0	0.0	0.0
13344	63.444	63.250	-0.110	0.0	0.0	0.0
13368	63.444	63.250	-0.110	0.0	0.0	0.0
13392	63.444	63.250	-0.110	0.0	0.0	0.0
13416	63.444	63.250	-0.110	0.0	0.0	0.0
13440	63.444	63.250	-0.110	0.0	0.0	0.0
13464	63.444	63.250	-0.110	0.0	0.0	0.0
13488	63.444	63.250	-0.110	0.0	0.0	0.0
13512	63.444	63.250	-0.110	0.0	0.0	0.0
13536	63.444	63.250	-0.110	0.0	0.0	0.0
13560	63.444	63.250	-0.110	0.0	0.0	0.0
13584	63.444	63.250	-0.110	0.0	0.0	0.0
13608	63.444	63.250	-0.110	0.0	0.0	0.0
13632	63.444	63.250	-0.110	0.0	0.0	0.0
13656	63.444	63.250	-0.110	0.0	0.0	0.0
13680	63.444	63.250	-0.110	0.0	0.0	0.0
13704	63.444	63.250	-0.110	0.0	0.0	0.0
13728	63.444	63.250	-0.110	0.0	0.0	0.0
13752	63.444	63.250	-0.110	0.0	0.0	0.0
13776	63.444	63.250	-0.110	0.0	0.0	0.0
13800	63.444	63.250	-0.110	0.0	0.0	0.0
13824	63.444	63.250	-0.110	0.0	0.0	0.0
13848	63.444	63.250	-0.110	0.0	0.0	0.0
13872	63.444	63.250	-0.110	0.0	0.0	0.0
13896	63.444	63.250	-0.110	0.0	0.0	0.0
13920	63.444	63.250	-0.110	0.0	0.0	0.0
13944	63.444	63.250	-0.110	0.0	0.0	0.0
13968	63.444	63.250	-0.110	0.0	0.0	0.0
13992	63.444	63.250	-0.110	0.0	0.0	0.0
14016	63.444	63.250	-0.110	0.0	0.0	0.0
14040	63.444	63.250	-0.110	0.0	0.0	0.0
14064	63.444	63.250	-0.110	0.0	0.0	0.0
14088	63.444	63.250	-0.110	0.0	0.0	0.0
14112	63.444	63.250	-0.110	0.0	0.0	0.0
14136	63.444	63.250	-0.110	0.0	0.0	0.0
14160	63.444	63.250	-0.110	0.0	0.0	0.0
14184	63.444	63.250	-0.110	0.0	0.0	0.0
14208	63.444	63.250	-0.110	0.0	0.0	0.0
14232	63.444	63.250	-0.110	0.0	0.0	0.0
14256	63.444	63.250	-0.110	0.0	0.0	0.0
14280	63.444	63.250	-0.110	0.0	0.0	0.0
14304	63.444	63.250	-0.110	0.0	0.0	0.0
14328	63.444	63.250	-0.110	0.0	0.0	0.0
14352	63.444	63.250	-0.110	0.0	0.0	0.0
14376	63.444	63.250	-0.110	0.0	0.0	0.0
14400	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.250	63.100	-0.110	0.0	0.0	0.0
96	63.250	63.100	-0.110	0.0	0.0	0.0
120	63.250	63.100	-0.110	0.0	0.0	0.0
144	63.250	63.100	-0.110	0.0	0.0	0.0
168	63.250	63.100	-0.110	0.0	0.0	0.0
192	63.250	63.100	-0.110	0.0	0.0	0.0
216	63.250	63.100	-0.110	0.0	0.0	0.0
240	63.251	63.100	-0.109	0.0	0.0	0.0
264	63.251	63.100	-0.109	0.0	0.0	0.0
288	63.251	63.100	-0.109	0.0	0.0	0.0
312	63.251	63.100	-0.109	0.0	0.0	0.0
336	63.252	63.100	-0.108	0.0	0.0	0.0
360	63.252	63.100	-0.108	0.0	0.0	0.0
384	63.252	63.100	-0.108	0.0	0.0	0.0
408	63.252	63.101	-0.108	0.0	0.0	0.0
432	63.253	63.101	-0.107	0.0	0.0	0.0
456	63.253	63.101	-0.107	0.0	0.0	0.0
480	63.253	63.101	-0.107	0.0	0.0	0.0
504	63.253	63.101	-0.107	0.0	0.0	0.0
528	63.254	63.101	-0.106	0.0	0.0	0.0
552	63.255	63.102	-0.105	0.0	0.0	0.0
576	63.255	63.103	-0.105	0.0	0.0	0.0
600	63.256	63.104	-0.104	0.0	0.0	0.0
624	63.257	63.105	-0.103	0.0	0.0	0.0
648	63.257	63.106	-0.103	0.0	0.0	0.0
672	63.258	63.107	-0.102	0.0	0.0	0.0
696	63.258	63.108	-0.102	0.0	0.1	0.0
720	63.259	63.109	-0.101	0.0	0.1	0.0
744	63.259	63.111	-0.101	0.0	0.1	0.0
768	63.259	63.112	-0.101	0.0	0.1	0.0
792	63.260	63.113	-0.100	0.0	0.1	0.0
816	63.260	63.114	-0.100	0.0	0.1	0.0
840	63.260	63.114	-0.100	0.0	0.1	0.0
864	63.260	63.115	-0.100	0.0	0.1	0.0
888	63.260	63.115	-0.100	0.0	0.1	0.0
912	63.260	63.116	-0.100	0.0	0.1	0.0
936	63.261	63.116	-0.099	0.0	0.1	0.0
960	63.261	63.116	-0.099	0.0	0.1	0.0
984	63.261	63.117	-0.099	0.0	0.1	0.0
1008	63.261	63.117	-0.099	0.0	0.1	0.0
1032	63.261	63.117	-0.099	0.0	0.1	0.0
1056	63.261	63.117	-0.099	0.0	0.1	0.0
1080	63.261	63.117	-0.099	0.0	0.1	0.0
1104	63.261	63.117	-0.099	0.0	0.1	0.0
1128	63.261	63.117	-0.099	0.0	0.1	0.0
1152	63.261	63.118	-0.099	0.0	0.1	0.0
1176	63.261	63.118	-0.099	0.0	0.1	0.0
1200	63.261	63.118	-0.099	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.261	63.118	-0.099	0.0	0.1	0.0
1248	63.261	63.118	-0.099	0.0	0.1	0.0
1272	63.261	63.118	-0.099	0.0	0.1	0.0
1296	63.261	63.118	-0.099	0.0	0.1	0.0
1320	63.261	63.118	-0.099	0.0	0.1	0.0
1344	63.261	63.118	-0.099	0.0	0.1	0.0
1368	63.261	63.118	-0.099	0.0	0.1	0.0
1392	63.261	63.118	-0.099	0.0	0.1	0.0
1416	63.261	63.118	-0.099	0.0	0.1	0.0
1440	63.261	63.118	-0.099	0.0	0.1	0.0
1464	63.262	63.119	-0.098	0.0	0.1	0.0
1488	63.262	63.119	-0.098	0.0	0.1	0.0
1512	63.262	63.120	-0.098	0.0	0.1	0.0
1536	63.263	63.120	-0.097	0.0	0.1	0.0
1560	63.263	63.121	-0.097	0.0	0.1	0.0
1584	63.263	63.122	-0.097	0.0	0.1	0.0
1608	63.264	63.122	-0.096	0.0	0.1	0.0
1632	63.264	63.123	-0.096	0.0	0.1	0.0
1656	63.264	63.124	-0.096	0.0	0.1	0.0
1680	63.264	63.125	-0.096	0.0	0.1	0.0
1704	63.265	63.126	-0.095	0.0	0.1	0.0
1728	63.265	63.126	-0.095	0.0	0.1	0.0
1752	63.265	63.127	-0.095	0.0	0.1	0.0
1776	63.265	63.128	-0.095	0.0	0.2	0.0
1800	63.265	63.129	-0.095	0.0	0.2	0.0
1824	63.266	63.129	-0.094	0.0	0.2	0.0
1848	63.266	63.130	-0.094	0.0	0.2	0.0
1872	63.266	63.131	-0.094	0.0	0.2	0.0
1896	63.266	63.131	-0.094	0.0	0.2	0.0
1920	63.267	63.132	-0.093	0.0	0.2	0.0
1944	63.267	63.133	-0.093	0.0	0.2	0.0
1968	63.267	63.134	-0.093	0.0	0.2	0.0
1992	63.267	63.135	-0.093	0.0	0.2	0.0
2016	63.268	63.136	-0.092	0.0	0.2	0.0
2040	63.268	63.136	-0.092	0.0	0.2	0.0
2064	63.268	63.137	-0.092	0.0	0.2	0.0
2088	63.269	63.138	-0.091	0.0	0.2	0.1
2112	63.269	63.139	-0.091	0.0	0.2	0.1
2136	63.269	63.140	-0.091	0.0	0.2	0.1
2160	63.270	63.141	-0.090	0.0	0.2	0.1
2184	63.270	63.142	-0.090	0.0	0.2	0.1
2208	63.270	63.144	-0.090	0.0	0.2	0.1
2232	63.271	63.145	-0.089	0.0	0.2	0.1
2256	63.271	63.146	-0.089	0.0	0.2	0.1
2280	63.271	63.147	-0.089	0.0	0.2	0.1
2304	63.272	63.148	-0.088	0.0	0.2	0.1
2328	63.272	63.150	-0.088	0.0	0.2	0.1
2352	63.273	63.151	-0.087	0.0	0.2	0.1
2376	63.273	63.154	-0.087	0.0	0.2	0.1
2400	63.273	63.157	-0.087	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.274	63.161	-0.086	0.0	0.2	0.1
2448	63.274	63.165	-0.086	0.0	0.3	0.1
2472	63.275	63.170	-0.085	0.0	0.3	0.1
2496	63.275	63.176	-0.085	0.0	0.3	0.1
2520	63.276	63.182	-0.084	0.0	0.3	0.1
2544	63.276	63.189	-0.084	0.0	0.3	0.1
2568	63.277	63.196	-0.083	0.0	0.3	0.1
2592	63.278	63.204	-0.082	0.0	0.3	0.1
2616	63.279	63.212	-0.081	0.0	0.3	0.1
2640	63.279	63.221	-0.081	0.0	0.3	0.1
2664	63.280	63.229	-0.080	0.0	0.3	0.1
2688	63.281	63.238	-0.079	0.0	0.3	0.1
2712	63.282	63.248	-0.078	0.0	0.3	0.1
2736	63.284	63.249	-0.076	0.0	0.2	0.1
2760	63.286	63.250	-0.074	0.0	0.2	0.1
2784	63.289	63.249	-0.071	0.0	0.2	0.1
2808	63.291	63.251	-0.069	0.0	0.2	0.1
2832	63.293	63.251	-0.067	0.0	0.2	0.1
2856	63.296	63.251	-0.064	0.0	0.2	0.1
2880	63.298	63.250	-0.062	0.0	0.2	0.1
2904	63.301	63.250	-0.059	0.0	0.2	0.1
2928	63.304	63.250	-0.056	0.0	0.2	0.1
2952	63.307	63.250	-0.053	0.0	0.2	0.1
2976	63.310	63.252	-0.050	0.0	0.2	0.1
3000	63.313	63.252	-0.047	0.0	0.2	0.1
3024	63.316	63.250	-0.044	0.0	0.2	0.1
3048	63.319	63.251	-0.041	0.0	0.2	0.1
3072	63.322	63.252	-0.038	0.0	0.2	0.1
3096	63.326	63.254	-0.034	0.0	0.3	0.1
3120	63.329	63.257	-0.031	0.0	0.3	0.1
3144	63.332	63.259	-0.028	0.0	0.3	0.1
3168	63.336	63.262	-0.024	0.0	0.3	0.1
3192	63.339	63.265	-0.021	0.0	0.3	0.1
3216	63.343	63.268	-0.017	0.0	0.3	0.1
3240	63.347	63.272	-0.013	0.0	0.3	0.1
3264	63.350	63.275	-0.010	0.0	0.3	0.1
3288	63.354	63.278	-0.006	0.0	0.3	0.1
3312	63.358	63.282	-0.002	0.0	0.3	0.1
3336	63.363	63.280	0.003	0.0	0.2	0.1
3360	63.370	63.264	0.010	0.0	0.2	0.0
3384	63.375	63.255	0.015	0.0	0.2	0.1
3408	63.380	63.250	0.020	0.0	0.2	0.1
3432	63.385	63.253	0.025	0.0	0.2	0.1
3456	63.389	63.254	0.029	0.0	0.2	0.1
3480	63.394	63.258	0.034	0.0	0.3	0.1
3504	63.398	63.264	0.038	0.0	0.3	0.1
3528	63.402	63.272	0.042	0.0	0.3	0.1
3552	63.405	63.283	0.045	0.0	0.3	0.1
3576	63.409	63.295	0.049	0.0	0.3	0.1
3600	63.412	63.309	0.052	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.415	63.325	0.055	0.0	0.3	0.1
3648	63.418	63.341	0.058	0.0	0.3	0.1
3672	63.421	63.354	0.061	0.0	0.3	0.1
3696	63.425	63.363	0.065	0.0	0.3	0.1
3720	63.429	63.369	0.069	0.0	0.3	0.1
3744	63.433	63.374	0.073	0.0	0.3	0.1
3768	63.436	63.378	0.076	0.0	0.3	0.1
3792	63.440	63.382	0.080	0.0	0.3	0.1
3816	63.444	63.386	0.084	0.0	0.3	0.1
3840	63.448	63.390	0.088	0.0	0.3	0.1
3864	63.452	63.394	0.092	0.0	0.3	0.1
3888	63.455	63.397	0.095	0.0	0.3	0.1
3912	63.459	63.401	0.099	0.0	0.2	0.1
3936	63.462	63.404	0.102	0.0	0.1	0.1
3960	63.466	63.408	0.106	0.0	0.1	0.1
3984	63.469	63.411	0.109	0.0	0.1	0.1
4008	63.472	63.414	0.112	0.0	0.1	0.1
4032	63.475	63.417	0.115	0.0	0.1	0.1
4056	63.478	63.420	0.118	0.0	0.0	0.1
4080	63.481	63.423	0.121	0.0	0.0	0.1
4104	63.484	63.426	0.124	0.0	0.0	0.1
4128	63.486	63.429	0.126	0.0	0.0	0.1
4152	63.489	63.431	0.129	0.0	0.0	0.1
4176	63.491	63.434	0.131	0.0	0.0	0.1
4200	63.494	63.436	0.134	0.0	0.0	0.1
4224	63.496	63.439	0.136	0.0	0.0	0.1
4248	63.498	63.441	0.138	0.0	0.0	0.1
4272	63.500	63.443	0.140	0.0	0.0	0.1
4296	63.502	63.445	0.142	0.0	0.0	0.1
4320	63.504	63.447	0.144	0.0	0.0	0.1
4344	63.506	63.449	0.146	0.0	0.0	0.1
4368	63.508	63.451	0.148	0.0	0.0	0.1
4392	63.510	63.453	0.150	0.0	0.0	0.1
4416	63.511	63.454	0.151	0.0	0.0	0.1
4440	63.513	63.456	0.153	0.0	0.0	0.1
4464	63.514	63.457	0.154	0.0	0.0	0.1
4488	63.515	63.459	0.155	0.0	0.0	0.1
4512	63.516	63.460	0.156	0.0	0.0	0.1
4536	63.518	63.461	0.158	0.0	0.0	0.1
4560	63.519	63.462	0.159	0.0	0.0	0.1
4584	63.519	63.463	0.159	0.0	0.0	0.1
4608	63.520	63.464	0.160	0.0	0.0	0.1
4632	63.521	63.465	0.161	0.0	0.0	0.1
4656	63.521	63.466	0.161	0.0	0.0	0.1
4680	63.522	63.466	0.162	0.0	0.0	0.1
4704	63.522	63.467	0.162	0.0	0.0	0.1
4728	63.523	63.467	0.163	0.0	0.0	0.1
4752	63.523	63.468	0.163	0.0	0.0	0.1
4776	63.523	63.468	0.163	0.0	0.0	0.1
4800	63.523	63.468	0.163	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.523	63.468	0.163	0.0	0.0	0.1
4848	63.523	63.468	0.163	0.0	0.0	0.1
4872	63.523	63.468	0.163	0.0	0.0	0.1
4896	63.523	63.468	0.163	0.0	0.0	0.1
4920	63.522	63.468	0.162	0.0	0.0	0.1
4944	63.522	63.468	0.162	0.0	0.0	0.1
4968	63.521	63.467	0.161	0.0	0.0	0.1
4992	63.521	63.467	0.161	0.0	0.0	0.1
5016	63.520	63.466	0.160	0.0	0.0	0.1
5040	63.519	63.466	0.159	0.0	0.0	0.1
5064	63.519	63.465	0.159	0.0	0.0	0.1
5088	63.518	63.464	0.158	0.0	0.0	0.1
5112	63.517	63.463	0.157	0.0	0.0	0.1
5136	63.516	63.463	0.156	0.0	0.0	0.1
5160	63.515	63.462	0.155	0.0	0.0	0.1
5184	63.514	63.461	0.154	0.0	0.0	0.1
5208	63.513	63.460	0.153	0.0	0.0	0.1
5232	63.511	63.459	0.151	0.0	0.0	0.1
5256	63.510	63.457	0.150	0.0	0.0	0.1
5280	63.509	63.456	0.149	0.0	0.0	0.1
5304	63.508	63.455	0.148	0.0	0.0	0.1
5328	63.506	63.454	0.146	0.0	0.0	0.1
5352	63.505	63.452	0.145	0.0	0.0	0.1
5376	63.503	63.451	0.143	0.0	0.0	0.1
5400	63.502	63.450	0.142	0.0	0.0	0.1
5424	63.500	63.448	0.140	0.0	0.0	0.1
5448	63.498	63.447	0.138	0.0	0.0	0.1
5472	63.497	63.445	0.137	0.0	0.0	0.1
5496	63.495	63.444	0.135	0.0	0.0	0.1
5520	63.493	63.442	0.133	0.0	0.0	0.1
5544	63.492	63.440	0.132	0.0	0.0	0.1
5568	63.490	63.439	0.130	0.0	0.0	0.1
5592	63.488	63.437	0.128	0.0	0.0	0.1
5616	63.486	63.435	0.126	0.0	0.0	0.1
5640	63.484	63.433	0.124	0.0	0.0	0.1
5664	63.482	63.432	0.122	0.0	0.0	0.1
5688	63.481	63.430	0.121	0.0	0.0	0.1
5712	63.479	63.428	0.119	0.0	0.0	0.1
5736	63.477	63.426	0.117	0.0	0.0	0.1
5760	63.475	63.424	0.115	0.0	0.0	0.1
5784	63.473	63.422	0.113	0.0	0.0	0.1
5808	63.471	63.421	0.111	0.0	0.0	0.1
5832	63.469	63.419	0.109	0.0	0.0	0.1
5856	63.467	63.417	0.107	0.0	0.0	0.1
5880	63.465	63.415	0.105	0.0	0.0	0.1
5904	63.463	63.413	0.103	0.0	0.0	0.1
5928	63.461	63.411	0.101	0.0	0.1	0.1
5952	63.459	63.409	0.099	0.0	0.1	0.1
5976	63.457	63.407	0.097	0.0	0.1	0.1
6000	63.455	63.405	0.095	0.0	0.1	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.453	63.403	0.093	0.0	0.1	0.1
6048	63.451	63.401	0.091	0.0	0.1	0.1
6072	63.449	63.399	0.089	0.0	0.2	0.1
6096	63.447	63.398	0.087	0.0	0.2	0.1
6120	63.445	63.396	0.085	0.0	0.3	0.1
6144	63.443	63.394	0.083	0.0	0.3	0.1
6168	63.441	63.392	0.081	0.0	0.3	0.1
6192	63.439	63.390	0.079	0.0	0.3	0.1
6216	63.437	63.388	0.077	0.0	0.3	0.1
6240	63.435	63.386	0.075	0.0	0.2	0.1
6264	63.433	63.384	0.073	0.0	0.2	0.1
6288	63.431	63.382	0.071	0.0	0.2	0.1
6312	63.429	63.380	0.069	0.0	0.2	0.1
6336	63.427	63.378	0.067	0.0	0.2	0.1
6360	63.425	63.376	0.065	0.0	0.2	0.1
6384	63.423	63.374	0.063	0.0	0.3	0.1
6408	63.421	63.372	0.061	0.0	0.3	0.1
6432	63.419	63.370	0.059	0.0	0.3	0.1
6456	63.417	63.368	0.057	0.0	0.2	0.1
6480	63.415	63.367	0.055	0.0	0.2	0.1
6504	63.413	63.365	0.053	0.0	0.2	0.1
6528	63.411	63.363	0.051	0.0	0.2	0.1
6552	63.409	63.361	0.049	0.0	0.2	0.1
6576	63.407	63.359	0.047	0.0	0.2	0.1
6600	63.405	63.357	0.045	0.0	0.2	0.1
6624	63.403	63.355	0.043	0.0	0.2	0.1
6648	63.401	63.353	0.041	0.0	0.2	0.1
6672	63.399	63.351	0.039	0.0	0.2	0.1
6696	63.397	63.349	0.037	0.0	0.2	0.1
6720	63.395	63.347	0.035	0.0	0.2	0.1
6744	63.393	63.344	0.033	0.0	0.2	0.1
6768	63.391	63.341	0.031	0.0	0.2	0.1
6792	63.389	63.338	0.029	0.0	0.2	0.1
6816	63.387	63.335	0.027	0.0	0.2	0.1
6840	63.385	63.331	0.025	0.0	0.2	0.1
6864	63.383	63.327	0.023	0.0	0.2	0.1
6888	63.381	63.323	0.021	0.0	0.2	0.1
6912	63.379	63.318	0.019	0.0	0.2	0.1
6936	63.377	63.312	0.017	0.0	0.2	0.1
6960	63.376	63.304	0.016	0.0	0.2	0.1
6984	63.374	63.296	0.014	0.0	0.2	0.1
7008	63.372	63.287	0.012	0.0	0.2	0.1
7032	63.370	63.275	0.010	0.0	0.2	0.0
7056	63.369	63.264	0.009	0.0	0.2	0.0
7080	63.367	63.253	0.007	0.0	0.2	0.0
7104	63.365	63.252	0.005	0.0	0.2	0.1
7128	63.362	63.250	0.002	0.0	0.2	0.1
7152	63.358	63.256	-0.002	0.0	0.2	0.1
7176	63.353	63.269	-0.007	0.0	0.3	0.1
7200	63.350	63.274	-0.010	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.346	63.276	-0.014	0.0	0.3	0.1
7248	63.343	63.277	-0.017	0.0	0.2	0.1
7272	63.340	63.276	-0.020	0.0	0.2	0.1
7296	63.337	63.274	-0.023	0.0	0.2	0.1
7320	63.334	63.271	-0.026	0.0	0.2	0.1
7344	63.331	63.269	-0.029	0.0	0.2	0.1
7368	63.328	63.266	-0.032	0.0	0.2	0.1
7392	63.325	63.264	-0.035	0.0	0.2	0.1
7416	63.322	63.261	-0.038	0.0	0.2	0.1
7440	63.319	63.258	-0.041	0.0	0.2	0.1
7464	63.316	63.255	-0.044	0.0	0.2	0.1
7488	63.313	63.253	-0.047	0.0	0.2	0.1
7512	63.309	63.250	-0.051	0.0	0.2	0.1
7536	63.306	63.251	-0.054	0.0	0.2	0.1
7560	63.303	63.250	-0.057	0.0	0.2	0.1
7584	63.300	63.251	-0.060	0.0	0.2	0.1
7608	63.297	63.250	-0.063	0.0	0.2	0.1
7632	63.293	63.250	-0.067	0.0	0.2	0.1
7656	63.289	63.249	-0.071	0.0	0.2	0.1
7680	63.285	63.250	-0.075	0.0	0.2	0.1
7704	63.283	63.251	-0.077	0.0	0.2	0.1
7728	63.280	63.249	-0.080	0.0	0.2	0.1
7752	63.276	63.250	-0.084	0.0	0.2	0.1
7776	63.273	63.250	-0.087	0.0	0.2	0.1
7800	63.271	63.249	-0.089	0.0	0.2	0.1
7824	63.268	63.243	-0.092	0.0	0.2	0.1
7848	63.266	63.234	-0.094	0.0	0.2	0.0
7872	63.264	63.219	-0.096	0.0	0.1	0.0
7896	63.263	63.203	-0.097	0.0	0.1	0.0
7920	63.261	63.187	-0.099	0.0	0.1	0.0
7944	63.260	63.169	-0.100	0.0	0.1	0.0
7968	63.259	63.149	-0.101	0.0	0.1	0.0
7992	63.259	63.133	-0.101	0.0	0.1	0.0
8016	63.258	63.123	-0.102	0.0	0.1	0.0
8040	63.258	63.118	-0.102	0.0	0.0	0.0
8064	63.257	63.113	-0.103	0.0	0.0	0.0
8088	63.257	63.111	-0.103	0.0	0.0	0.0
8112	63.256	63.109	-0.104	0.0	0.0	0.0
8136	63.256	63.108	-0.104	0.0	0.0	0.0
8160	63.256	63.107	-0.104	0.0	0.0	0.0
8184	63.255	63.106	-0.105	0.0	0.0	0.0
8208	63.255	63.105	-0.105	0.0	0.0	0.0
8232	63.255	63.105	-0.105	0.0	0.0	0.0
8256	63.255	63.104	-0.105	0.0	0.0	0.0
8280	63.254	63.104	-0.106	0.0	0.0	0.0
8304	63.254	63.103	-0.106	0.0	0.0	0.0
8328	63.254	63.103	-0.106	0.0	0.0	0.0
8352	63.254	63.103	-0.106	0.0	0.0	0.0
8376	63.254	63.103	-0.106	0.0	0.0	0.0
8400	63.254	63.102	-0.106	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.254	63.102	-0.106	0.0	0.0	0.0
8448	63.253	63.102	-0.107	0.0	0.0	0.0
8472	63.253	63.102	-0.107	0.0	0.0	0.0
8496	63.253	63.102	-0.107	0.0	0.0	0.0
8520	63.253	63.102	-0.107	0.0	0.0	0.0
8544	63.253	63.102	-0.107	0.0	0.0	0.0
8568	63.253	63.102	-0.107	0.0	0.0	0.0
8592	63.253	63.101	-0.107	0.0	0.0	0.0
8616	63.253	63.101	-0.107	0.0	0.0	0.0
8640	63.253	63.101	-0.107	0.0	0.0	0.0
8664	63.253	63.101	-0.107	0.0	0.0	0.0
8688	63.253	63.101	-0.107	0.0	0.0	0.0
8712	63.253	63.101	-0.107	0.0	0.0	0.0
8736	63.252	63.101	-0.108	0.0	0.0	0.0
8760	63.252	63.101	-0.108	0.0	0.0	0.0
8784	63.252	63.101	-0.108	0.0	0.0	0.0
8808	63.252	63.101	-0.108	0.0	0.0	0.0
8832	63.252	63.101	-0.108	0.0	0.0	0.0
8856	63.252	63.101	-0.108	0.0	0.0	0.0
8880	63.252	63.101	-0.108	0.0	0.0	0.0
8904	63.252	63.101	-0.108	0.0	0.0	0.0
8928	63.252	63.101	-0.108	0.0	0.0	0.0
8952	63.252	63.101	-0.108	0.0	0.0	0.0
8976	63.252	63.101	-0.108	0.0	0.0	0.0
9000	63.252	63.101	-0.108	0.0	0.0	0.0
9024	63.252	63.101	-0.108	0.0	0.0	0.0
9048	63.252	63.101	-0.108	0.0	0.0	0.0
9072	63.252	63.101	-0.108	0.0	0.0	0.0
9096	63.252	63.101	-0.108	0.0	0.0	0.0
9120	63.252	63.101	-0.108	0.0	0.0	0.0
9144	63.252	63.101	-0.108	0.0	0.0	0.0
9168	63.252	63.101	-0.108	0.0	0.0	0.0
9192	63.252	63.101	-0.108	0.0	0.0	0.0
9216	63.252	63.101	-0.108	0.0	0.0	0.0
9240	63.252	63.101	-0.108	0.0	0.0	0.0
9264	63.252	63.101	-0.108	0.0	0.0	0.0
9288	63.252	63.100	-0.108	0.0	0.0	0.0
9312	63.252	63.100	-0.108	0.0	0.0	0.0
9336	63.251	63.100	-0.109	0.0	0.0	0.0
9360	63.251	63.100	-0.109	0.0	0.0	0.0
9384	63.251	63.100	-0.109	0.0	0.0	0.0
9408	63.251	63.100	-0.109	0.0	0.0	0.0
9432	63.251	63.100	-0.109	0.0	0.0	0.0
9456	63.251	63.100	-0.109	0.0	0.0	0.0
9480	63.251	63.100	-0.109	0.0	0.0	0.0
9504	63.251	63.100	-0.109	0.0	0.0	0.0
9528	63.251	63.100	-0.109	0.0	0.0	0.0
9552	63.251	63.100	-0.109	0.0	0.0	0.0
9576	63.251	63.100	-0.109	0.0	0.0	0.0
9600	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.251	63.100	-0.109	0.0	0.0	0.0
9648	63.251	63.100	-0.109	0.0	0.0	0.0
9672	63.251	63.100	-0.109	0.0	0.0	0.0
9696	63.251	63.100	-0.109	0.0	0.0	0.0
9720	63.251	63.100	-0.109	0.0	0.0	0.0
9744	63.251	63.100	-0.109	0.0	0.0	0.0
9768	63.251	63.100	-0.109	0.0	0.0	0.0
9792	63.251	63.100	-0.109	0.0	0.0	0.0
9816	63.251	63.100	-0.109	0.0	0.0	0.0
9840	63.251	63.100	-0.109	0.0	0.0	0.0
9864	63.251	63.100	-0.109	0.0	0.0	0.0
9888	63.251	63.100	-0.109	0.0	0.0	0.0
9912	63.251	63.100	-0.109	0.0	0.0	0.0
9936	63.251	63.100	-0.109	0.0	0.0	0.0
9960	63.251	63.100	-0.109	0.0	0.0	0.0
9984	63.251	63.100	-0.109	0.0	0.0	0.0
10008	63.251	63.100	-0.109	0.0	0.0	0.0
10032	63.251	63.100	-0.109	0.0	0.0	0.0
10056	63.251	63.100	-0.109	0.0	0.0	0.0
10080	63.251	63.100	-0.109	0.0	0.0	0.0
10104	63.251	63.100	-0.109	0.0	0.0	0.0
10128	63.251	63.100	-0.109	0.0	0.0	0.0
10152	63.251	63.100	-0.109	0.0	0.0	0.0
10176	63.251	63.100	-0.109	0.0	0.0	0.0
10200	63.251	63.100	-0.109	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.250	63.100	-0.110	0.0	0.0	0.0
12408	63.250	63.100	-0.110	0.0	0.0	0.0
12432	63.250	63.100	-0.110	0.0	0.0	0.0
12456	63.250	63.100	-0.110	0.0	0.0	0.0
12480	63.250	63.100	-0.110	0.0	0.0	0.0
12504	63.250	63.100	-0.110	0.0	0.0	0.0
12528	63.250	63.100	-0.110	0.0	0.0	0.0
12552	63.250	63.100	-0.110	0.0	0.0	0.0
12576	63.250	63.100	-0.110	0.0	0.0	0.0
12600	63.250	63.100	-0.110	0.0	0.0	0.0
12624	63.250	63.100	-0.110	0.0	0.0	0.0
12648	63.250	63.100	-0.110	0.0	0.0	0.0
12672	63.250	63.100	-0.110	0.0	0.0	0.0
12696	63.250	63.100	-0.110	0.0	0.0	0.0
12720	63.250	63.100	-0.110	0.0	0.0	0.0
12744	63.250	63.100	-0.110	0.0	0.0	0.0
12768	63.250	63.100	-0.110	0.0	0.0	0.0
12792	63.250	63.100	-0.110	0.0	0.0	0.0
12816	63.250	63.100	-0.110	0.0	0.0	0.0
12840	63.250	63.100	-0.110	0.0	0.0	0.0
12864	63.250	63.100	-0.110	0.0	0.0	0.0
12888	63.250	63.100	-0.110	0.0	0.0	0.0
12912	63.250	63.100	-0.110	0.0	0.0	0.0
12936	63.250	63.100	-0.110	0.0	0.0	0.0
12960	63.250	63.100	-0.110	0.0	0.0	0.0
12984	63.250	63.100	-0.110	0.0	0.0	0.0
13008	63.250	63.100	-0.110	0.0	0.0	0.0
13032	63.250	63.100	-0.110	0.0	0.0	0.0
13056	63.250	63.100	-0.110	0.0	0.0	0.0
13080	63.250	63.100	-0.110	0.0	0.0	0.0
13104	63.250	63.100	-0.110	0.0	0.0	0.0
13128	63.250	63.100	-0.110	0.0	0.0	0.0
13152	63.250	63.100	-0.110	0.0	0.0	0.0
13176	63.250	63.100	-0.110	0.0	0.0	0.0
13200	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.250	63.100	-0.110	0.0	0.0	0.0
13248	63.250	63.100	-0.110	0.0	0.0	0.0
13272	63.250	63.100	-0.110	0.0	0.0	0.0
13296	63.250	63.100	-0.110	0.0	0.0	0.0
13320	63.250	63.100	-0.110	0.0	0.0	0.0
13344	63.250	63.100	-0.110	0.0	0.0	0.0
13368	63.250	63.100	-0.110	0.0	0.0	0.0
13392	63.250	63.100	-0.110	0.0	0.0	0.0
13416	63.250	63.100	-0.110	0.0	0.0	0.0
13440	63.250	63.100	-0.110	0.0	0.0	0.0
13464	63.250	63.100	-0.110	0.0	0.0	0.0
13488	63.250	63.100	-0.110	0.0	0.0	0.0
13512	63.250	63.100	-0.110	0.0	0.0	0.0
13536	63.250	63.100	-0.110	0.0	0.0	0.0
13560	63.250	63.100	-0.110	0.0	0.0	0.0
13584	63.250	63.100	-0.110	0.0	0.0	0.0
13608	63.250	63.100	-0.110	0.0	0.0	0.0
13632	63.250	63.100	-0.110	0.0	0.0	0.0
13656	63.250	63.100	-0.110	0.0	0.0	0.0
13680	63.250	63.100	-0.110	0.0	0.0	0.0
13704	63.250	63.100	-0.110	0.0	0.0	0.0
13728	63.250	63.100	-0.110	0.0	0.0	0.0
13752	63.250	63.100	-0.110	0.0	0.0	0.0
13776	63.250	63.100	-0.110	0.0	0.0	0.0
13800	63.250	63.100	-0.110	0.0	0.0	0.0
13824	63.250	63.100	-0.110	0.0	0.0	0.0
13848	63.250	63.100	-0.110	0.0	0.0	0.0
13872	63.250	63.100	-0.110	0.0	0.0	0.0
13896	63.250	63.100	-0.110	0.0	0.0	0.0
13920	63.250	63.100	-0.110	0.0	0.0	0.0
13944	63.250	63.100	-0.110	0.0	0.0	0.0
13968	63.250	63.100	-0.110	0.0	0.0	0.0
13992	63.250	63.100	-0.110	0.0	0.0	0.0
14016	63.250	63.100	-0.110	0.0	0.0	0.0
14040	63.250	63.100	-0.110	0.0	0.0	0.0
14064	63.250	63.100	-0.110	0.0	0.0	0.0
14088	63.250	63.100	-0.110	0.0	0.0	0.0
14112	63.250	63.100	-0.110	0.0	0.0	0.0
14136	63.250	63.100	-0.110	0.0	0.0	0.0
14160	63.250	63.100	-0.110	0.0	0.0	0.0
14184	63.250	63.100	-0.110	0.0	0.0	0.0
14208	63.250	63.100	-0.110	0.0	0.0	0.0
14232	63.250	63.100	-0.110	0.0	0.0	0.0
14256	63.250	63.100	-0.110	0.0	0.0	0.0
14280	63.250	63.100	-0.110	0.0	0.0	0.0
14304	63.250	63.100	-0.110	0.0	0.0	0.0
14328	63.250	63.100	-0.110	0.0	0.0	0.0
14352	63.250	63.100	-0.110	0.0	0.0	0.0
14376	63.250	63.100	-0.110	0.0	0.0	0.0
14400	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.100	63.096	-0.110	0.0	0.0	0.0
144	63.100	63.096	-0.110	0.0	0.0	0.0
168	63.100	63.096	-0.110	0.0	0.0	0.0
192	63.100	63.096	-0.110	0.0	0.0	0.0
216	63.100	63.096	-0.110	0.0	0.0	0.0
240	63.100	63.096	-0.110	0.0	0.0	0.0
264	63.100	63.096	-0.110	0.0	0.0	0.0
288	63.100	63.096	-0.110	0.0	0.0	0.0
312	63.100	63.096	-0.110	0.0	0.0	0.0
336	63.100	63.096	-0.110	0.0	0.0	0.0
360	63.100	63.096	-0.110	0.0	0.0	0.0
384	63.100	63.096	-0.110	0.0	0.0	0.0
408	63.101	63.096	-0.109	0.0	0.0	0.0
432	63.101	63.096	-0.109	0.0	0.0	0.0
456	63.101	63.096	-0.109	0.0	0.0	0.0
480	63.101	63.096	-0.109	0.0	0.0	0.0
504	63.101	63.096	-0.109	0.0	0.0	0.0
528	63.101	63.096	-0.109	0.0	0.0	0.0
552	63.102	63.096	-0.108	0.0	0.0	0.0
576	63.103	63.096	-0.107	0.0	0.0	0.0
600	63.104	63.096	-0.106	0.0	0.0	0.0
624	63.105	63.096	-0.105	0.0	0.0	0.0
648	63.106	63.096	-0.104	0.0	0.0	0.0
672	63.107	63.096	-0.103	0.0	0.0	0.0
696	63.108	63.096	-0.102	0.0	0.0	0.0
720	63.109	63.096	-0.101	0.0	0.0	0.0
744	63.111	63.096	-0.099	0.0	0.0	0.0
768	63.112	63.096	-0.098	0.0	0.0	0.0
792	63.113	63.096	-0.097	0.0	0.0	0.0
816	63.114	63.096	-0.096	0.0	0.0	0.0
840	63.114	63.096	-0.096	0.0	0.0	0.0
864	63.115	63.096	-0.095	0.0	0.0	0.0
888	63.115	63.096	-0.095	0.0	0.0	0.0
912	63.116	63.096	-0.094	0.0	0.0	0.0
936	63.116	63.096	-0.094	0.0	0.0	0.0
960	63.116	63.096	-0.094	0.0	0.0	0.0
984	63.117	63.096	-0.093	0.0	0.0	0.0
1008	63.117	63.096	-0.093	0.0	0.0	0.0
1032	63.117	63.096	-0.093	0.0	0.0	0.0
1056	63.117	63.096	-0.093	0.0	0.0	0.0
1080	63.117	63.096	-0.093	0.0	0.0	0.0
1104	63.117	63.096	-0.093	0.0	0.0	0.0
1128	63.117	63.096	-0.093	0.0	0.0	0.0
1152	63.118	63.096	-0.092	0.0	0.0	0.0
1176	63.118	63.096	-0.092	0.0	0.0	0.0
1200	63.118	63.096	-0.092	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.118	63.096	-0.092	0.0	0.0	0.0
1248	63.118	63.096	-0.092	0.0	0.0	0.0
1272	63.118	63.096	-0.092	0.0	0.0	0.0
1296	63.118	63.096	-0.092	0.0	0.0	0.0
1320	63.118	63.096	-0.092	0.0	0.0	0.0
1344	63.118	63.096	-0.092	0.0	0.0	0.0
1368	63.118	63.096	-0.092	0.0	0.0	0.0
1392	63.118	63.096	-0.092	0.0	0.0	0.0
1416	63.118	63.096	-0.092	0.0	0.0	0.0
1440	63.118	63.096	-0.092	0.0	0.0	0.0
1464	63.119	63.096	-0.091	0.0	0.0	0.0
1488	63.119	63.096	-0.091	0.0	0.0	0.0
1512	63.120	63.096	-0.090	0.0	0.0	0.0
1536	63.120	63.096	-0.090	0.0	0.0	0.0
1560	63.121	63.096	-0.089	0.0	0.0	0.0
1584	63.122	63.096	-0.088	0.0	0.0	0.0
1608	63.122	63.096	-0.088	0.0	0.0	0.0
1632	63.123	63.096	-0.087	0.0	0.0	0.0
1656	63.124	63.096	-0.086	0.0	0.0	0.0
1680	63.125	63.096	-0.085	0.0	0.0	0.0
1704	63.126	63.096	-0.084	0.0	0.0	0.0
1728	63.126	63.096	-0.084	0.0	0.0	0.0
1752	63.127	63.096	-0.083	0.0	0.0	0.0
1776	63.128	63.096	-0.082	0.0	0.0	0.0
1800	63.129	63.096	-0.081	0.0	0.0	0.0
1824	63.129	63.096	-0.081	0.0	0.0	0.0
1848	63.130	63.096	-0.080	0.0	0.0	0.0
1872	63.131	63.096	-0.079	0.0	0.0	0.0
1896	63.131	63.096	-0.079	0.0	0.0	0.0
1920	63.132	63.096	-0.078	0.0	0.0	0.0
1944	63.133	63.096	-0.077	0.0	0.0	0.0
1968	63.134	63.096	-0.076	0.0	0.0	0.0
1992	63.135	63.096	-0.075	0.0	0.0	0.0
2016	63.136	63.096	-0.074	0.0	0.0	0.0
2040	63.136	63.096	-0.074	0.0	0.0	0.0
2064	63.137	63.096	-0.073	0.0	0.0	0.0
2088	63.138	63.096	-0.072	0.0	0.0	0.0
2112	63.139	63.096	-0.071	0.0	0.0	0.0
2136	63.140	63.096	-0.070	0.0	0.0	0.0
2160	63.141	63.096	-0.069	0.0	0.0	0.0
2184	63.142	63.096	-0.068	0.0	0.0	0.0
2208	63.144	63.096	-0.066	0.0	0.0	0.0
2232	63.145	63.096	-0.065	0.0	0.0	0.0
2256	63.146	63.096	-0.064	0.0	0.0	0.0
2280	63.147	63.096	-0.063	0.0	0.0	0.0
2304	63.148	63.096	-0.062	0.0	0.0	0.0
2328	63.150	63.096	-0.060	0.0	0.0	0.0
2352	63.151	63.096	-0.059	0.0	0.0	0.0
2376	63.154	63.096	-0.056	0.0	0.0	0.0
2400	63.157	63.096	-0.053	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.161	63.096	-0.049	0.0	0.0	0.0
2448	63.165	63.096	-0.045	0.0	0.0	0.0
2472	63.170	63.096	-0.040	0.0	0.0	0.0
2496	63.176	63.096	-0.034	0.0	0.0	0.0
2520	63.182	63.096	-0.028	0.0	0.0	0.0
2544	63.189	63.096	-0.021	0.0	0.0	0.0
2568	63.196	63.096	-0.014	0.0	0.0	0.0
2592	63.204	63.096	-0.006	0.0	0.0	0.0
2616	63.212	63.096	0.002	0.0	0.0	0.0
2640	63.221	63.096	0.011	0.0	0.0	0.0
2664	63.229	63.096	0.019	0.0	0.0	0.0
2688	63.238	63.096	0.028	0.0	0.0	0.0
2712	63.248	63.096	0.038	0.0	0.0	0.0
2736	63.249	63.096	0.039	0.0	0.0	0.0
2760	63.250	63.096	0.040	0.0	0.0	0.0
2784	63.249	63.096	0.039	0.0	0.0	0.0
2808	63.251	63.096	0.041	0.0	0.0	0.0
2832	63.251	63.096	0.041	0.0	0.0	0.0
2856	63.251	63.096	0.041	0.0	0.0	0.0
2880	63.250	63.096	0.040	0.0	0.0	0.0
2904	63.250	63.096	0.040	0.0	0.0	0.0
2928	63.250	63.096	0.040	0.0	0.0	0.0
2952	63.250	63.096	0.040	0.0	0.0	0.0
2976	63.252	63.096	0.042	0.0	0.0	0.0
3000	63.252	63.096	0.042	0.0	0.0	0.0
3024	63.250	63.096	0.040	0.0	0.0	0.0
3048	63.251	63.096	0.041	0.0	0.0	0.0
3072	63.252	63.096	0.042	0.0	0.0	0.0
3096	63.254	63.096	0.044	0.0	0.0	0.0
3120	63.257	63.096	0.047	0.0	0.0	0.0
3144	63.259	63.096	0.049	0.0	0.0	0.0
3168	63.262	63.096	0.052	0.0	0.0	0.0
3192	63.265	63.096	0.055	0.0	0.0	0.0
3216	63.268	63.096	0.058	0.0	0.0	0.0
3240	63.272	63.096	0.062	0.0	0.0	0.0
3264	63.275	63.096	0.065	0.0	0.0	0.0
3288	63.278	63.096	0.068	0.0	0.0	0.0
3312	63.282	63.096	0.072	0.0	0.0	0.0
3336	63.280	63.096	0.070	0.0	0.0	0.0
3360	63.264	63.096	0.054	0.0	0.0	0.0
3384	63.255	63.096	0.045	0.0	0.0	0.0
3408	63.250	63.096	0.040	0.0	0.0	0.0
3432	63.253	63.096	0.043	0.0	0.0	0.0
3456	63.254	63.096	0.044	0.0	0.0	0.0
3480	63.258	63.096	0.048	0.0	0.0	0.0
3504	63.264	63.096	0.054	0.0	0.0	0.0
3528	63.272	63.096	0.062	0.0	0.0	0.0
3552	63.283	63.096	0.073	0.0	0.0	0.0
3576	63.295	63.096	0.085	0.0	0.0	0.0
3600	63.309	63.096	0.099	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.325	63.096	0.115	0.0	0.0	0.0
3648	63.341	63.096	0.131	0.0	0.1	0.0
3672	63.354	63.096	0.144	0.0	0.1	0.0
3696	63.363	63.096	0.153	0.0	0.1	0.0
3720	63.369	63.096	0.159	0.0	0.1	0.0
3744	63.374	63.096	0.164	0.0	0.1	0.0
3768	63.378	63.096	0.168	0.0	0.1	0.0
3792	63.382	63.096	0.172	0.0	0.1	0.0
3816	63.386	63.096	0.176	0.0	0.1	0.0
3840	63.390	63.096	0.180	0.0	0.1	0.0
3864	63.394	63.096	0.184	0.0	0.1	0.0
3888	63.397	63.096	0.187	0.0	0.1	0.0
3912	63.401	63.096	0.191	0.0	0.1	0.0
3936	63.404	63.096	0.194	0.0	0.1	0.0
3960	63.408	63.096	0.198	0.0	0.1	0.0
3984	63.411	63.096	0.201	0.0	0.1	0.0
4008	63.414	63.096	0.204	0.0	0.1	0.0
4032	63.417	63.096	0.207	0.0	0.1	0.0
4056	63.420	63.096	0.210	0.0	0.1	0.0
4080	63.423	63.096	0.213	0.0	0.1	0.0
4104	63.426	63.096	0.216	0.0	0.1	0.0
4128	63.429	63.096	0.219	0.0	0.1	0.0
4152	63.431	63.096	0.221	0.0	0.1	0.0
4176	63.434	63.096	0.224	0.0	0.1	0.0
4200	63.436	63.096	0.226	0.0	0.1	0.0
4224	63.439	63.096	0.229	0.0	0.1	0.0
4248	63.441	63.096	0.231	0.0	0.1	0.0
4272	63.443	63.096	0.233	0.0	0.1	0.0
4296	63.445	63.096	0.235	0.0	0.1	0.0
4320	63.447	63.096	0.237	0.0	0.1	0.0
4344	63.449	63.096	0.239	0.0	0.1	0.0
4368	63.451	63.096	0.241	0.0	0.1	0.0
4392	63.453	63.096	0.243	0.0	0.1	0.0
4416	63.454	63.096	0.244	0.0	0.1	0.0
4440	63.456	63.096	0.246	0.0	0.1	0.0
4464	63.457	63.096	0.247	0.0	0.1	0.0
4488	63.459	63.096	0.249	0.0	0.1	0.0
4512	63.460	63.096	0.250	0.0	0.1	0.0
4536	63.461	63.096	0.251	0.0	0.1	0.0
4560	63.462	63.096	0.252	0.0	0.1	0.0
4584	63.463	63.096	0.253	0.0	0.1	0.0
4608	63.464	63.096	0.254	0.0	0.1	0.0
4632	63.465	63.096	0.255	0.0	0.1	0.0
4656	63.466	63.096	0.256	0.0	0.1	0.0
4680	63.466	63.096	0.256	0.0	0.1	0.0
4704	63.467	63.096	0.257	0.0	0.1	0.0
4728	63.467	63.096	0.257	0.0	0.1	0.0
4752	63.468	63.096	0.258	0.0	0.1	0.0
4776	63.468	63.096	0.258	0.0	0.1	0.0
4800	63.468	63.096	0.258	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.468	63.096	0.258	0.0	0.1	0.0
4848	63.468	63.096	0.258	0.0	0.1	0.0
4872	63.468	63.096	0.258	0.0	0.1	0.0
4896	63.468	63.096	0.258	0.0	0.1	0.0
4920	63.468	63.096	0.258	0.0	0.1	0.0
4944	63.468	63.096	0.258	0.0	0.1	0.0
4968	63.467	63.096	0.257	0.0	0.1	0.0
4992	63.467	63.096	0.257	0.0	0.1	0.0
5016	63.466	63.096	0.256	0.0	0.1	0.0
5040	63.466	63.096	0.256	0.0	0.1	0.0
5064	63.465	63.096	0.255	0.0	0.1	0.0
5088	63.464	63.096	0.254	0.0	0.1	0.0
5112	63.463	63.096	0.253	0.0	0.1	0.0
5136	63.463	63.096	0.253	0.0	0.1	0.0
5160	63.462	63.096	0.252	0.0	0.1	0.0
5184	63.461	63.096	0.251	0.0	0.1	0.0
5208	63.460	63.096	0.250	0.0	0.1	0.0
5232	63.459	63.096	0.249	0.0	0.1	0.0
5256	63.457	63.096	0.247	0.0	0.1	0.0
5280	63.456	63.096	0.246	0.0	0.1	0.0
5304	63.455	63.096	0.245	0.0	0.1	0.0
5328	63.454	63.096	0.244	0.0	0.1	0.0
5352	63.452	63.096	0.242	0.0	0.1	0.0
5376	63.451	63.096	0.241	0.0	0.1	0.0
5400	63.450	63.096	0.240	0.0	0.1	0.0
5424	63.448	63.096	0.238	0.0	0.1	0.0
5448	63.447	63.096	0.237	0.0	0.1	0.0
5472	63.445	63.096	0.235	0.0	0.1	0.0
5496	63.444	63.096	0.234	0.0	0.1	0.0
5520	63.442	63.096	0.232	0.0	0.1	0.0
5544	63.440	63.096	0.230	0.0	0.1	0.0
5568	63.439	63.096	0.229	0.0	0.1	0.0
5592	63.437	63.096	0.227	0.0	0.1	0.0
5616	63.435	63.096	0.225	0.0	0.1	0.0
5640	63.433	63.096	0.223	0.0	0.1	0.0
5664	63.432	63.096	0.222	0.0	0.1	0.0
5688	63.430	63.096	0.220	0.0	0.1	0.0
5712	63.428	63.096	0.218	0.0	0.1	0.0
5736	63.426	63.096	0.216	0.0	0.1	0.0
5760	63.424	63.096	0.214	0.0	0.1	0.0
5784	63.422	63.096	0.212	0.0	0.1	0.0
5808	63.421	63.096	0.211	0.0	0.1	0.0
5832	63.419	63.096	0.209	0.0	0.1	0.0
5856	63.417	63.096	0.207	0.0	0.1	0.0
5880	63.415	63.096	0.205	0.0	0.1	0.0
5904	63.413	63.096	0.203	0.0	0.1	0.0
5928	63.411	63.096	0.201	0.0	0.1	0.0
5952	63.409	63.096	0.199	0.0	0.1	0.0
5976	63.407	63.096	0.197	0.0	0.1	0.0
6000	63.405	63.096	0.195	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.403	63.096	0.193	0.0	0.1	0.0
6048	63.401	63.096	0.191	0.0	0.1	0.0
6072	63.399	63.096	0.189	0.0	0.1	0.0
6096	63.398	63.096	0.188	0.0	0.1	0.0
6120	63.396	63.096	0.186	0.0	0.1	0.0
6144	63.394	63.096	0.184	0.0	0.1	0.0
6168	63.392	63.096	0.182	0.0	0.1	0.0
6192	63.390	63.096	0.180	0.0	0.1	0.0
6216	63.388	63.096	0.178	0.0	0.1	0.0
6240	63.386	63.096	0.176	0.0	0.1	0.0
6264	63.384	63.096	0.174	0.0	0.1	0.0
6288	63.382	63.096	0.172	0.0	0.1	0.0
6312	63.380	63.096	0.170	0.0	0.1	0.0
6336	63.378	63.096	0.168	0.0	0.1	0.0
6360	63.376	63.096	0.166	0.0	0.1	0.0
6384	63.374	63.096	0.164	0.0	0.1	0.0
6408	63.372	63.096	0.162	0.0	0.1	0.0
6432	63.370	63.096	0.160	0.0	0.1	0.0
6456	63.368	63.096	0.158	0.0	0.1	0.0
6480	63.367	63.096	0.157	0.0	0.1	0.0
6504	63.365	63.096	0.155	0.0	0.1	0.0
6528	63.363	63.096	0.153	0.0	0.1	0.0
6552	63.361	63.096	0.151	0.0	0.1	0.0
6576	63.359	63.096	0.149	0.0	0.1	0.0
6600	63.357	63.096	0.147	0.0	0.1	0.0
6624	63.355	63.096	0.145	0.0	0.1	0.0
6648	63.353	63.096	0.143	0.0	0.1	0.0
6672	63.351	63.096	0.141	0.0	0.1	0.0
6696	63.349	63.096	0.139	0.0	0.1	0.0
6720	63.347	63.096	0.137	0.0	0.1	0.0
6744	63.344	63.096	0.134	0.0	0.1	0.0
6768	63.341	63.096	0.131	0.0	0.1	0.0
6792	63.338	63.096	0.128	0.0	0.1	0.0
6816	63.335	63.096	0.125	0.0	0.1	0.0
6840	63.331	63.096	0.121	0.0	0.1	0.0
6864	63.327	63.096	0.117	0.0	0.1	0.0
6888	63.323	63.096	0.113	0.0	0.0	0.0
6912	63.318	63.096	0.108	0.0	0.0	0.0
6936	63.312	63.096	0.102	0.0	0.0	0.0
6960	63.304	63.096	0.094	0.0	0.0	0.0
6984	63.296	63.096	0.086	0.0	0.0	0.0
7008	63.287	63.096	0.077	0.0	0.0	0.0
7032	63.275	63.096	0.065	0.0	0.0	0.0
7056	63.264	63.096	0.054	0.0	0.0	0.0
7080	63.253	63.096	0.043	0.0	0.0	0.0
7104	63.252	63.096	0.042	0.0	0.0	0.0
7128	63.250	63.096	0.040	0.0	0.0	0.0
7152	63.256	63.096	0.046	0.0	0.0	0.0
7176	63.269	63.096	0.059	0.0	0.0	0.0
7200	63.274	63.096	0.064	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.276	63.096	0.066	0.0	0.0	0.0
7248	63.277	63.096	0.067	0.0	0.0	0.0
7272	63.276	63.096	0.066	0.0	0.0	0.0
7296	63.274	63.096	0.064	0.0	0.0	0.0
7320	63.271	63.096	0.061	0.0	0.0	0.0
7344	63.269	63.096	0.059	0.0	0.0	0.0
7368	63.266	63.096	0.056	0.0	0.0	0.0
7392	63.264	63.096	0.054	0.0	0.0	0.0
7416	63.261	63.096	0.051	0.0	0.0	0.0
7440	63.258	63.096	0.048	0.0	0.0	0.0
7464	63.255	63.096	0.045	0.0	0.0	0.0
7488	63.253	63.096	0.043	0.0	0.0	0.0
7512	63.250	63.096	0.040	0.0	0.0	0.0
7536	63.251	63.096	0.041	0.0	0.0	0.0
7560	63.250	63.096	0.040	0.0	0.0	0.0
7584	63.251	63.096	0.041	0.0	0.0	0.0
7608	63.250	63.096	0.040	0.0	0.0	0.0
7632	63.250	63.096	0.040	0.0	0.0	0.0
7656	63.249	63.096	0.039	0.0	0.0	0.0
7680	63.250	63.096	0.040	0.0	0.0	0.0
7704	63.251	63.096	0.041	0.0	0.0	0.0
7728	63.249	63.096	0.039	0.0	0.0	0.0
7752	63.250	63.096	0.040	0.0	0.0	0.0
7776	63.250	63.096	0.040	0.0	0.0	0.0
7800	63.249	63.096	0.039	0.0	0.0	0.0
7824	63.243	63.096	0.033	0.0	0.0	0.0
7848	63.234	63.096	0.024	0.0	0.0	0.0
7872	63.219	63.096	0.009	0.0	0.0	0.0
7896	63.203	63.096	-0.007	0.0	0.0	0.0
7920	63.187	63.096	-0.023	0.0	0.0	0.0
7944	63.169	63.096	-0.041	0.0	0.0	0.0
7968	63.149	63.096	-0.061	0.0	0.0	0.0
7992	63.133	63.096	-0.077	0.0	0.0	0.0
8016	63.123	63.096	-0.087	0.0	0.0	0.0
8040	63.118	63.096	-0.092	0.0	0.0	0.0
8064	63.113	63.096	-0.097	0.0	0.0	0.0
8088	63.111	63.096	-0.099	0.0	0.0	0.0
8112	63.109	63.096	-0.101	0.0	0.0	0.0
8136	63.108	63.096	-0.102	0.0	0.0	0.0
8160	63.107	63.096	-0.103	0.0	0.0	0.0
8184	63.106	63.096	-0.104	0.0	0.0	0.0
8208	63.105	63.096	-0.105	0.0	0.0	0.0
8232	63.105	63.096	-0.105	0.0	0.0	0.0
8256	63.104	63.096	-0.106	0.0	0.0	0.0
8280	63.104	63.096	-0.106	0.0	0.0	0.0
8304	63.103	63.096	-0.107	0.0	0.0	0.0
8328	63.103	63.096	-0.107	0.0	0.0	0.0
8352	63.103	63.096	-0.107	0.0	0.0	0.0
8376	63.103	63.096	-0.107	0.0	0.0	0.0
8400	63.102	63.096	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.102	63.096	-0.108	0.0	0.0	0.0
8448	63.102	63.096	-0.108	0.0	0.0	0.0
8472	63.102	63.096	-0.108	0.0	0.0	0.0
8496	63.102	63.096	-0.108	0.0	0.0	0.0
8520	63.102	63.096	-0.108	0.0	0.0	0.0
8544	63.102	63.096	-0.108	0.0	0.0	0.0
8568	63.102	63.096	-0.108	0.0	0.0	0.0
8592	63.101	63.096	-0.109	0.0	0.0	0.0
8616	63.101	63.096	-0.109	0.0	0.0	0.0
8640	63.101	63.096	-0.109	0.0	0.0	0.0
8664	63.101	63.096	-0.109	0.0	0.0	0.0
8688	63.101	63.096	-0.109	0.0	0.0	0.0
8712	63.101	63.096	-0.109	0.0	0.0	0.0
8736	63.101	63.096	-0.109	0.0	0.0	0.0
8760	63.101	63.096	-0.109	0.0	0.0	0.0
8784	63.101	63.096	-0.109	0.0	0.0	0.0
8808	63.101	63.096	-0.109	0.0	0.0	0.0
8832	63.101	63.096	-0.109	0.0	0.0	0.0
8856	63.101	63.096	-0.109	0.0	0.0	0.0
8880	63.101	63.096	-0.109	0.0	0.0	0.0
8904	63.101	63.096	-0.109	0.0	0.0	0.0
8928	63.101	63.096	-0.109	0.0	0.0	0.0
8952	63.101	63.096	-0.109	0.0	0.0	0.0
8976	63.101	63.096	-0.109	0.0	0.0	0.0
9000	63.101	63.096	-0.109	0.0	0.0	0.0
9024	63.101	63.096	-0.109	0.0	0.0	0.0
9048	63.101	63.096	-0.109	0.0	0.0	0.0
9072	63.101	63.096	-0.109	0.0	0.0	0.0
9096	63.101	63.096	-0.109	0.0	0.0	0.0
9120	63.101	63.096	-0.109	0.0	0.0	0.0
9144	63.101	63.096	-0.109	0.0	0.0	0.0
9168	63.101	63.096	-0.109	0.0	0.0	0.0
9192	63.101	63.096	-0.109	0.0	0.0	0.0
9216	63.101	63.096	-0.109	0.0	0.0	0.0
9240	63.101	63.096	-0.109	0.0	0.0	0.0
9264	63.101	63.096	-0.109	0.0	0.0	0.0
9288	63.100	63.096	-0.110	0.0	0.0	0.0
9312	63.100	63.096	-0.110	0.0	0.0	0.0
9336	63.100	63.096	-0.110	0.0	0.0	0.0
9360	63.100	63.096	-0.110	0.0	0.0	0.0
9384	63.100	63.096	-0.110	0.0	0.0	0.0
9408	63.100	63.096	-0.110	0.0	0.0	0.0
9432	63.100	63.096	-0.110	0.0	0.0	0.0
9456	63.100	63.096	-0.110	0.0	0.0	0.0
9480	63.100	63.096	-0.110	0.0	0.0	0.0
9504	63.100	63.096	-0.110	0.0	0.0	0.0
9528	63.100	63.096	-0.110	0.0	0.0	0.0
9552	63.100	63.096	-0.110	0.0	0.0	0.0
9576	63.100	63.096	-0.110	0.0	0.0	0.0
9600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.100	63.096	-0.110	0.0	0.0	0.0
9648	63.100	63.096	-0.110	0.0	0.0	0.0
9672	63.100	63.096	-0.110	0.0	0.0	0.0
9696	63.100	63.096	-0.110	0.0	0.0	0.0
9720	63.100	63.096	-0.110	0.0	0.0	0.0
9744	63.100	63.096	-0.110	0.0	0.0	0.0
9768	63.100	63.096	-0.110	0.0	0.0	0.0
9792	63.100	63.096	-0.110	0.0	0.0	0.0
9816	63.100	63.096	-0.110	0.0	0.0	0.0
9840	63.100	63.096	-0.110	0.0	0.0	0.0
9864	63.100	63.096	-0.110	0.0	0.0	0.0
9888	63.100	63.096	-0.110	0.0	0.0	0.0
9912	63.100	63.096	-0.110	0.0	0.0	0.0
9936	63.100	63.096	-0.110	0.0	0.0	0.0
9960	63.100	63.096	-0.110	0.0	0.0	0.0
9984	63.100	63.096	-0.110	0.0	0.0	0.0
10008	63.100	63.096	-0.110	0.0	0.0	0.0
10032	63.100	63.096	-0.110	0.0	0.0	0.0
10056	63.100	63.096	-0.110	0.0	0.0	0.0
10080	63.100	63.096	-0.110	0.0	0.0	0.0
10104	63.100	63.096	-0.110	0.0	0.0	0.0
10128	63.100	63.096	-0.110	0.0	0.0	0.0
10152	63.100	63.096	-0.110	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
7200 minute 100 year Winter
Average Rainfall Intensity 1.080 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	17280
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	8640
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 8640 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.1	OK
1.001	S1	63.537	-0.067	0.000	0.02	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.1	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.537	-0.018	0.000	0.03	0.0	0.2	OK
1.003	S4	63.536	0.176	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.481	0.271	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 8640 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.299	1296	0.374	2568	0.599	3840	2.339	5112	1.658
48	0.299	1320	0.384	2592	0.599	3864	2.339	5136	1.591
72	0.299	1344	0.384	2616	0.636	3888	2.339	5160	1.591
96	0.303	1368	0.384	2640	0.636	3912	2.564	5184	1.591
120	0.309	1392	0.387	2664	0.636	3936	2.564	5208	1.422
144	0.309	1416	0.393	2688	0.651	3960	2.564	5232	1.422
168	0.309	1440	0.393	2712	0.674	3984	2.661	5256	1.422
192	0.309	1464	0.393	2736	0.674	4008	2.807	5280	1.362
216	0.309	1488	0.401	2760	0.674	4032	2.807	5304	1.273
240	0.309	1512	0.402	2784	0.719	4056	2.807	5328	1.273
264	0.311	1536	0.402	2808	0.730	4080	3.017	5352	1.273
288	0.318	1560	0.404	2832	0.730	4104	3.069	5376	1.175
312	0.318	1584	0.412	2856	0.741	4128	3.069	5400	1.151
336	0.318	1608	0.412	2880	0.786	4152	3.125	5424	1.151
360	0.318	1632	0.412	2904	0.786	4176	3.350	5448	1.127
384	0.318	1656	0.417	2928	0.786	4200	3.350	5472	1.029
408	0.318	1680	0.421	2952	0.825	4224	3.350	5496	1.029
432	0.318	1704	0.421	2976	0.852	4248	3.541	5520	1.029
456	0.328	1728	0.421	3000	0.852	4272	3.668	5544	0.968
480	0.328	1752	0.430	3024	0.852	4296	3.668	5568	0.926
504	0.328	1776	0.430	3048	0.926	4320	3.668	5592	0.926
528	0.328	1800	0.430	3072	0.926	4344	3.668	5616	0.926
552	0.328	1824	0.438	3096	0.926	4368	3.668	5640	0.852
576	0.328	1848	0.449	3120	0.968	4392	3.668	5664	0.852
600	0.328	1872	0.449	3144	1.029	4416	3.541	5688	0.852
624	0.335	1896	0.449	3168	1.029	4440	3.350	5712	0.825
648	0.337	1920	0.457	3192	1.029	4464	3.350	5736	0.786
672	0.337	1944	0.459	3216	1.127	4488	3.350	5760	0.786
696	0.337	1968	0.459	3240	1.151	4512	3.125	5784	0.786
720	0.337	1992	0.462	3264	1.151	4536	3.069	5808	0.741
744	0.337	2016	0.477	3288	1.175	4560	3.069	5832	0.730
768	0.337	2040	0.477	3312	1.273	4584	3.017	5856	0.730
792	0.342	2064	0.477	3336	1.273	4608	2.807	5880	0.719
816	0.346	2088	0.483	3360	1.273	4632	2.807	5904	0.674
840	0.346	2112	0.487	3384	1.362	4656	2.807	5928	0.674
864	0.346	2136	0.487	3408	1.422	4680	2.661	5952	0.674
888	0.346	2160	0.487	3432	1.422	4704	2.564	5976	0.651
912	0.346	2184	0.505	3456	1.422	4728	2.564	6000	0.636
936	0.346	2208	0.505	3480	1.591	4752	2.564	6024	0.636
960	0.350	2232	0.505	3504	1.591	4776	2.339	6048	0.636
984	0.356	2256	0.513	3528	1.591	4800	2.339	6072	0.599
1008	0.356	2280	0.524	3552	1.658	4824	2.339	6096	0.599
1032	0.356	2304	0.524	3576	1.759	4848	2.257	6120	0.599
1056	0.356	2328	0.524	3600	1.759	4872	2.134	6144	0.588
1080	0.356	2352	0.539	3624	1.759	4896	2.134	6168	0.571
1104	0.356	2376	0.543	3648	1.909	4920	2.134	6192	0.571
1128	0.357	2400	0.543	3672	1.946	4944	1.984	6216	0.571
1152	0.365	2424	0.548	3696	1.946	4968	1.946	6240	0.548
1176	0.365	2448	0.571	3720	1.984	4992	1.946	6264	0.543
1200	0.365	2472	0.571	3744	2.134	5016	1.909	6288	0.543
1224	0.371	2496	0.571	3768	2.134	5040	1.759	6312	0.539
1248	0.374	2520	0.588	3792	2.134	5064	1.759	6336	0.524
1272	0.374	2544	0.599	3816	2.257	5088	1.759	6360	0.524

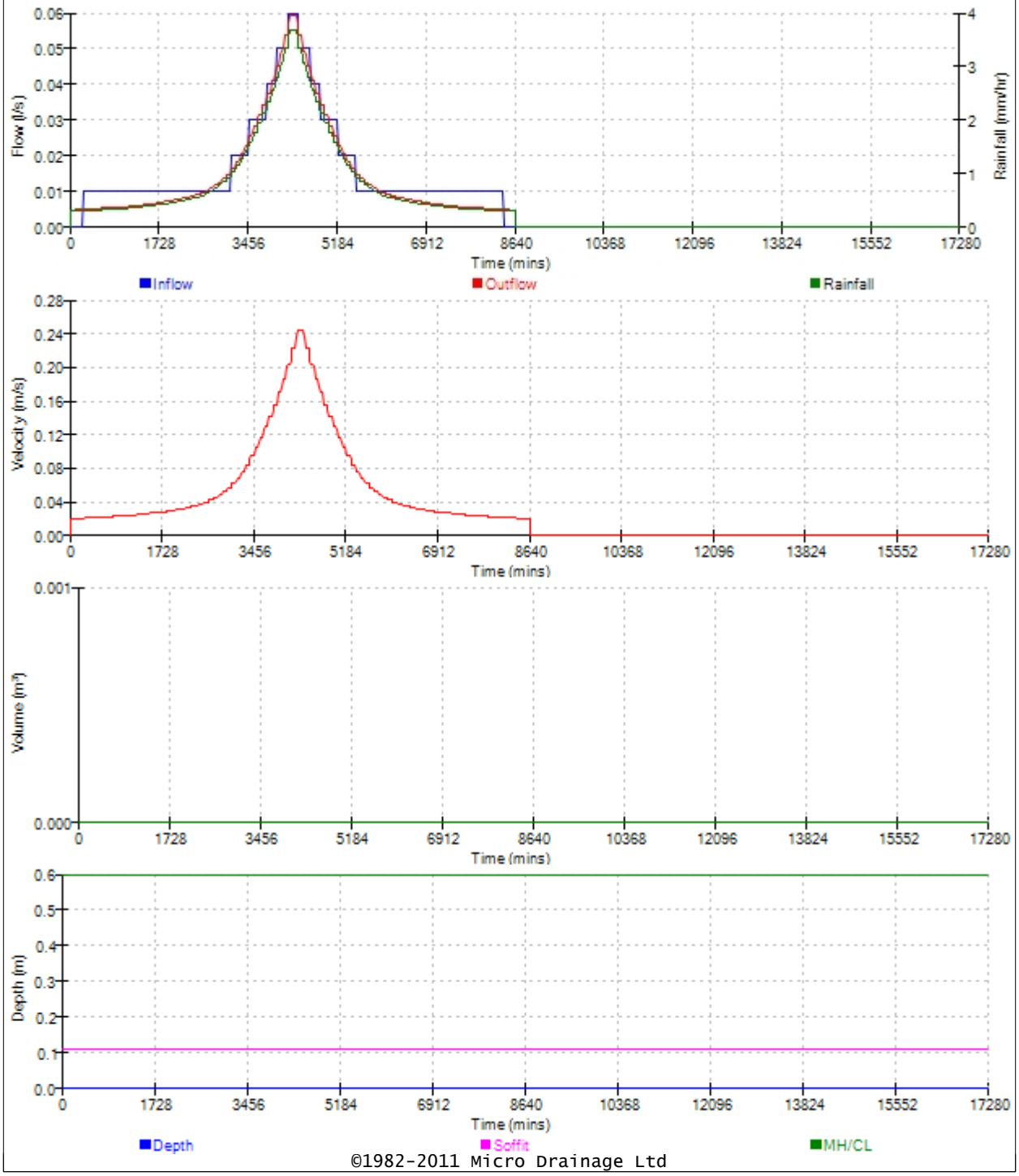
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Rainfall Hyetograph for 8640 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	0.524	6840	0.438	7296	0.384	7752	0.346	8208	0.328
6408	0.513	6864	0.430	7320	0.384	7776	0.346	8232	0.318
6432	0.505	6888	0.430	7344	0.384	7800	0.346	8256	0.318
6456	0.505	6912	0.430	7368	0.374	7824	0.346	8280	0.318
6480	0.505	6936	0.421	7392	0.374	7848	0.346	8304	0.318
6504	0.487	6960	0.421	7416	0.374	7872	0.342	8328	0.318
6528	0.487	6984	0.421	7440	0.371	7896	0.337	8352	0.318
6552	0.487	7008	0.417	7464	0.365	7920	0.337	8376	0.318
6576	0.483	7032	0.412	7488	0.365	7944	0.337	8400	0.311
6600	0.477	7056	0.412	7512	0.365	7968	0.337	8424	0.309
6624	0.477	7080	0.412	7536	0.357	7992	0.337	8448	0.309
6648	0.477	7104	0.404	7560	0.356	8016	0.337	8472	0.309
6672	0.462	7128	0.402	7584	0.356	8040	0.335	8496	0.309
6696	0.459	7152	0.402	7608	0.356	8064	0.328	8520	0.309
6720	0.459	7176	0.401	7632	0.356	8088	0.328	8544	0.309
6744	0.457	7200	0.393	7656	0.356	8112	0.328	8568	0.303
6768	0.449	7224	0.393	7680	0.356	8136	0.328	8592	0.299
6792	0.449	7248	0.393	7704	0.350	8160	0.328	8616	0.299
6816	0.449	7272	0.387	7728	0.346	8184	0.328	8640	0.299

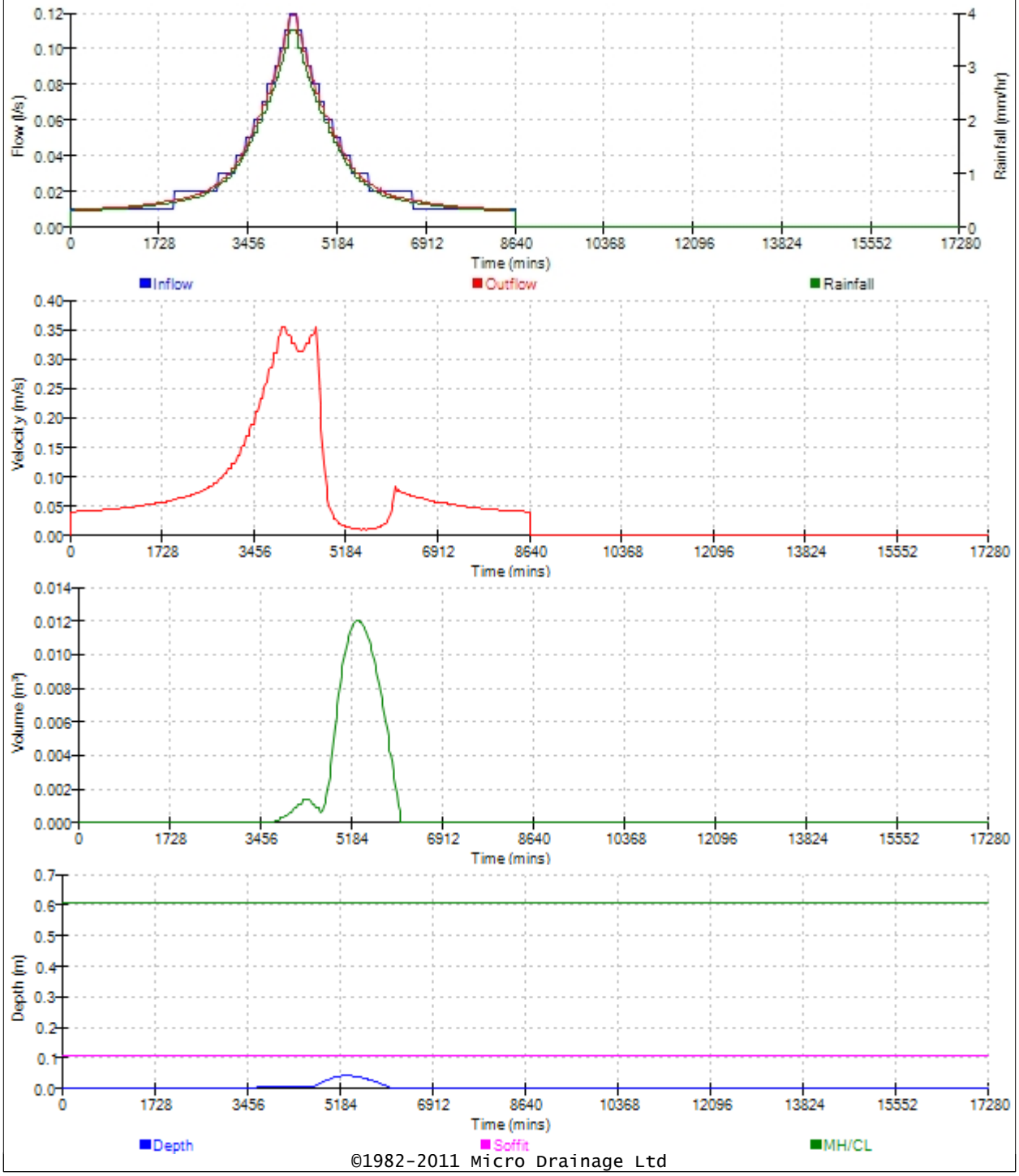
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Status: OK



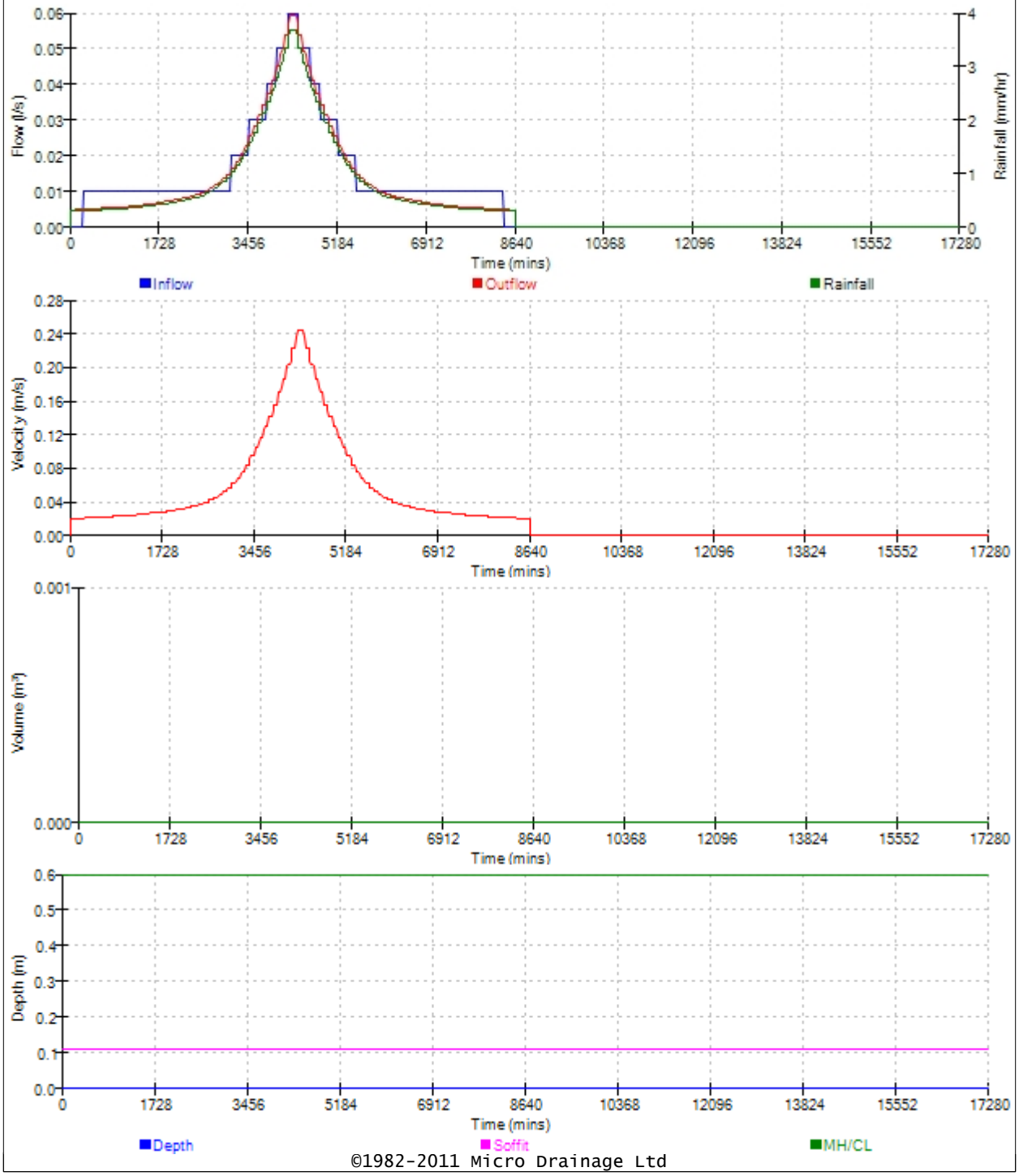
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Graphs for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Status: OK



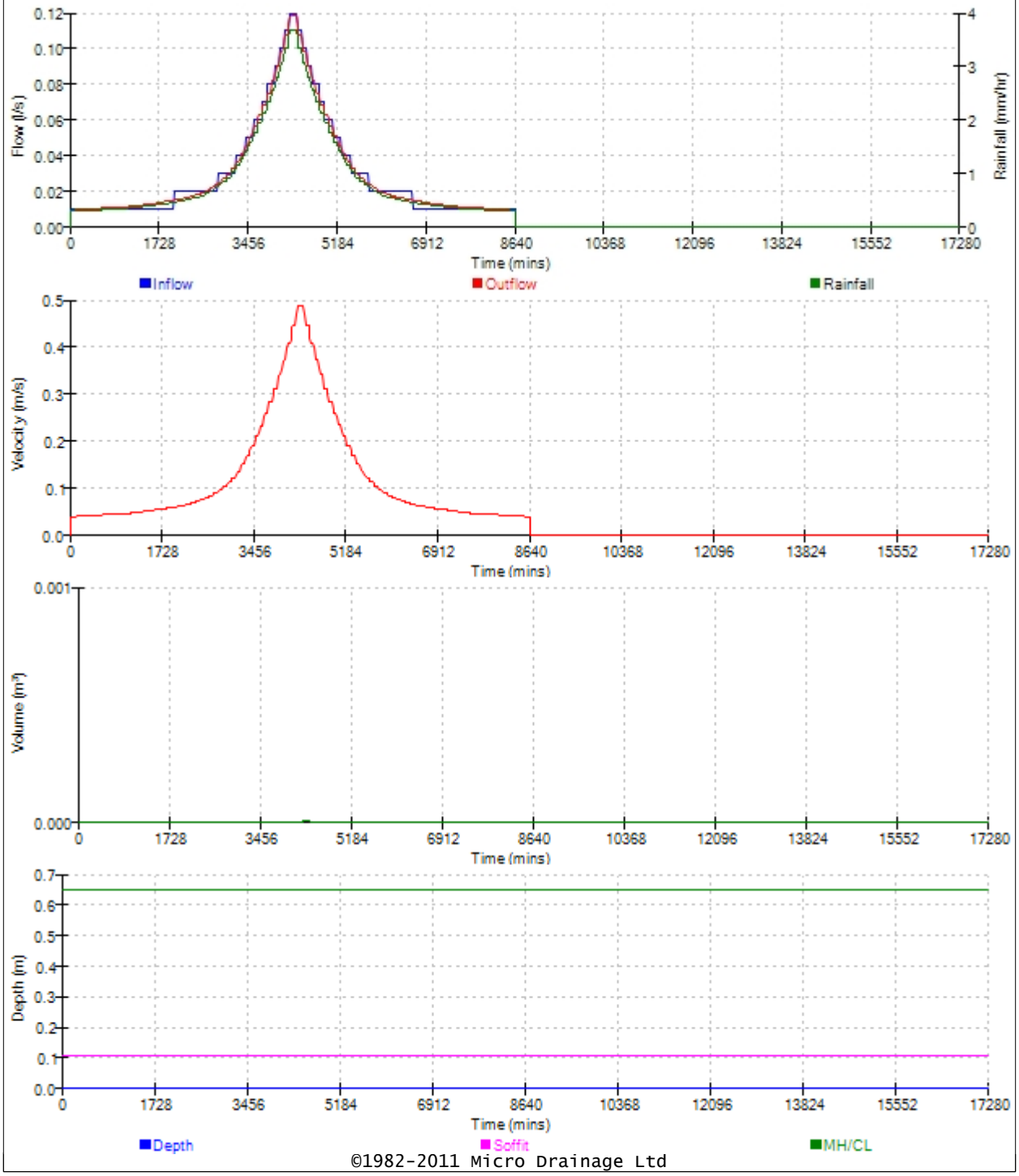
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Status: OK



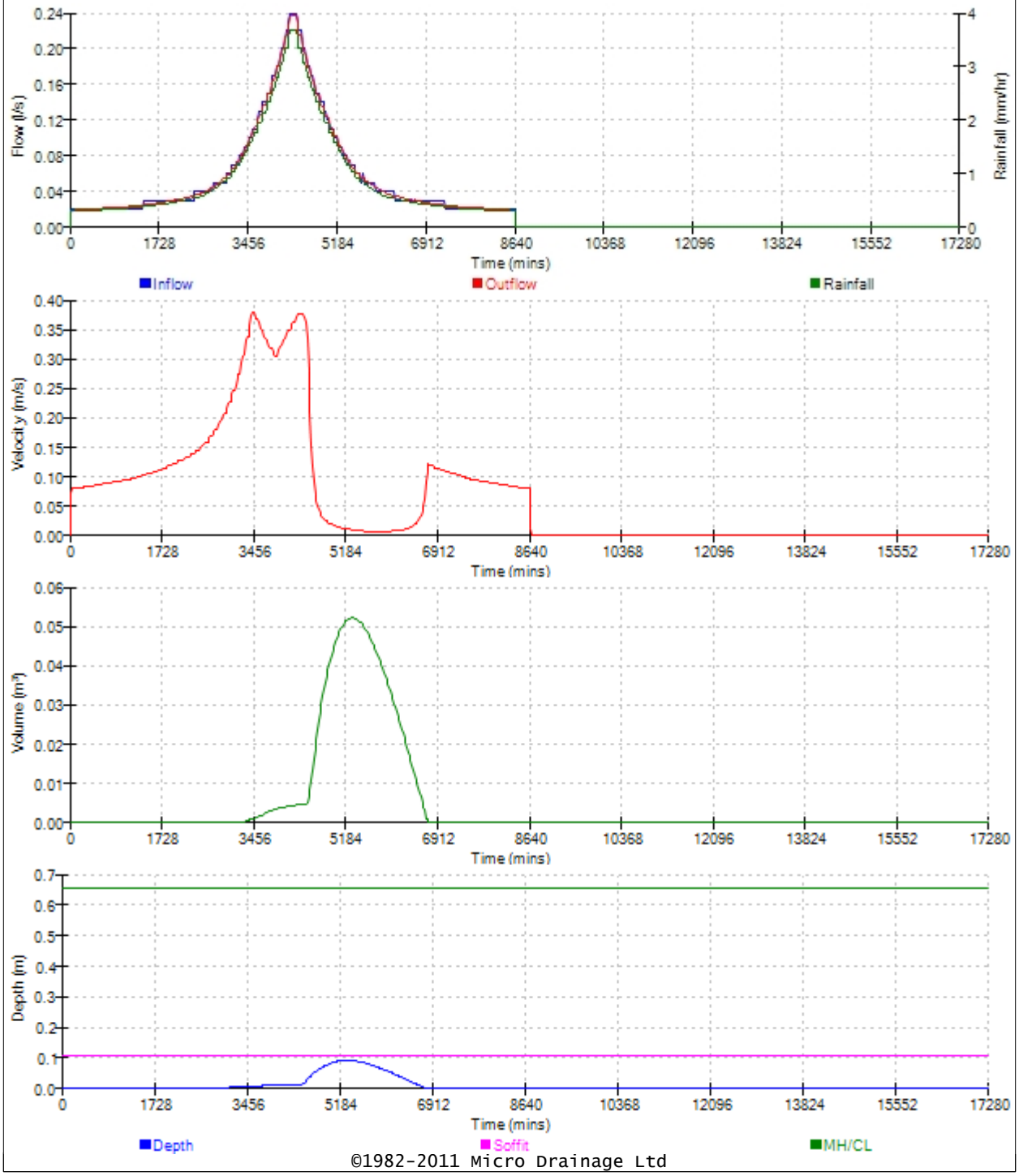
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Graphs for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Status: OK



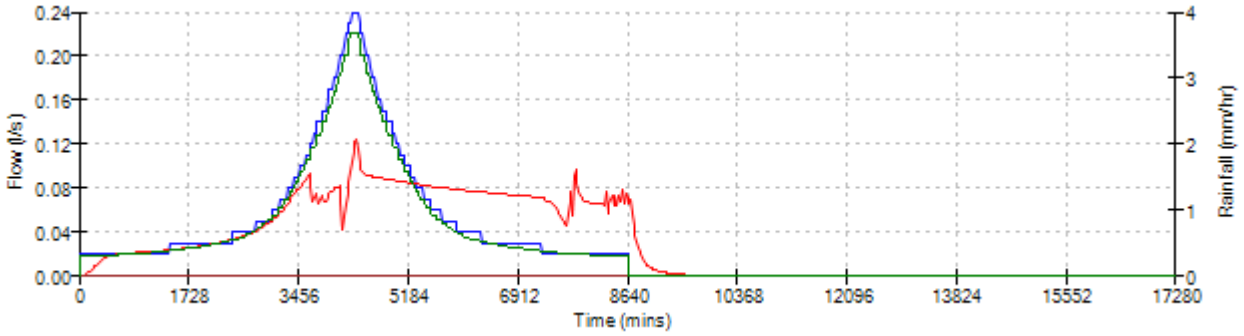
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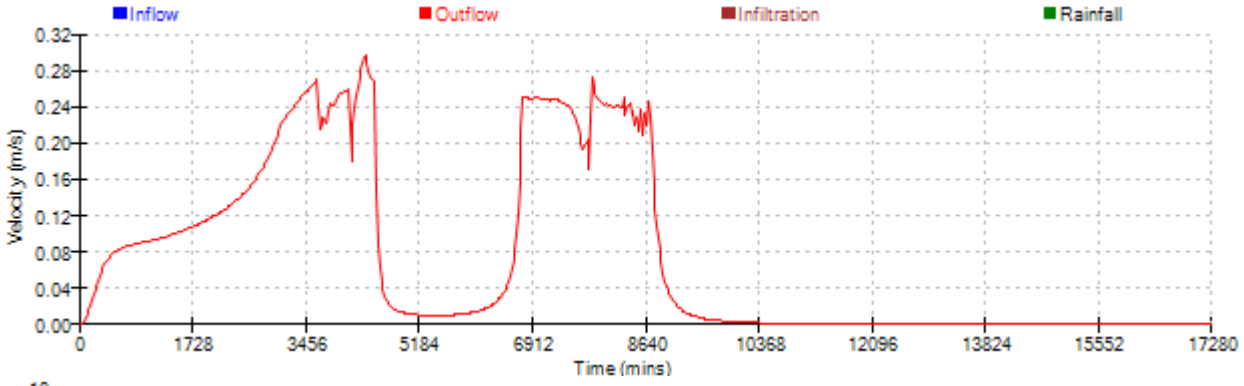
Graphs for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Status: OK

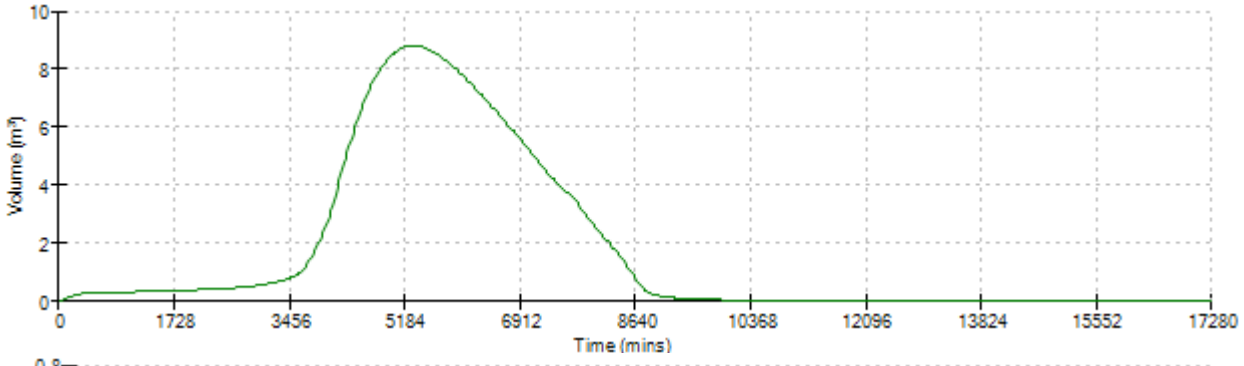


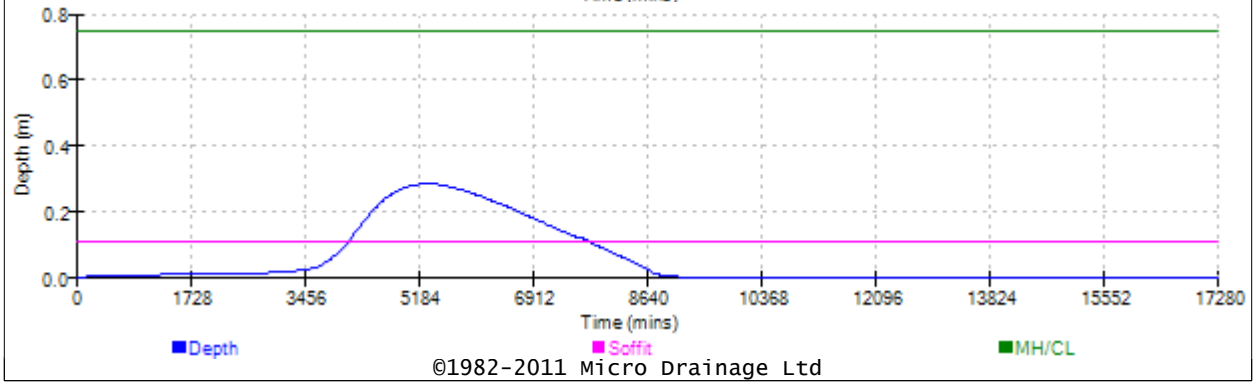
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Graphs for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Status: SURCHARGED



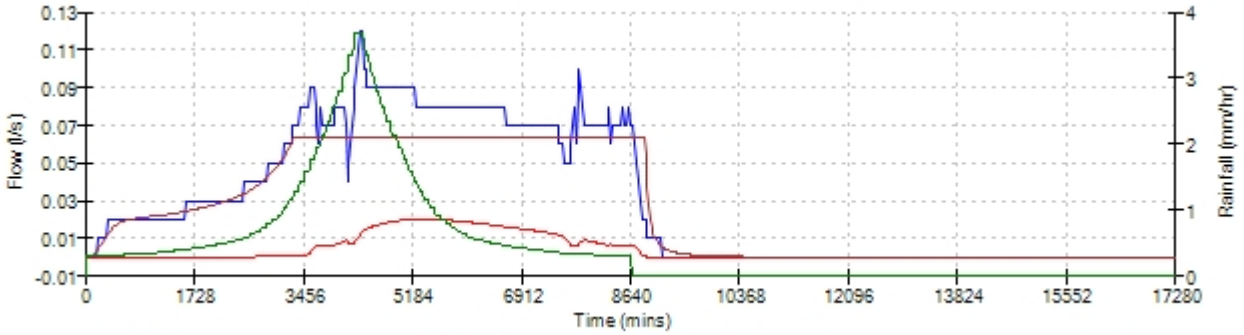


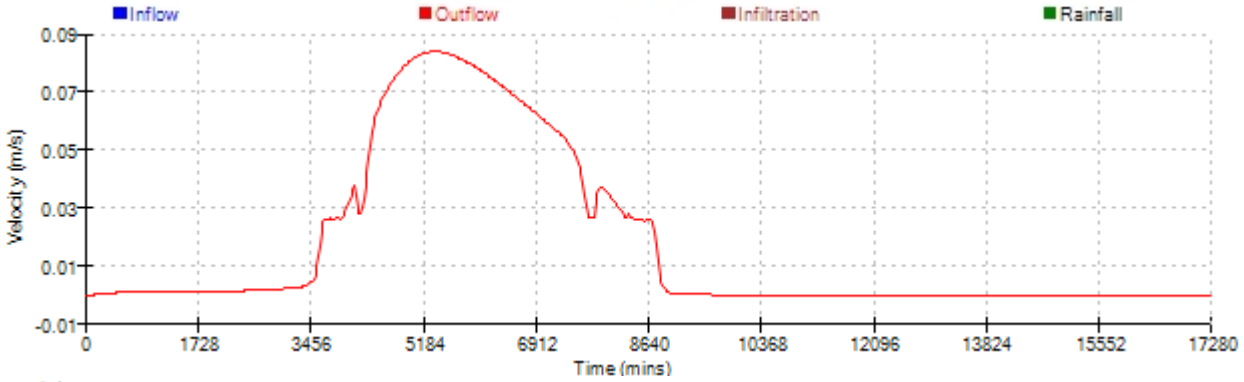


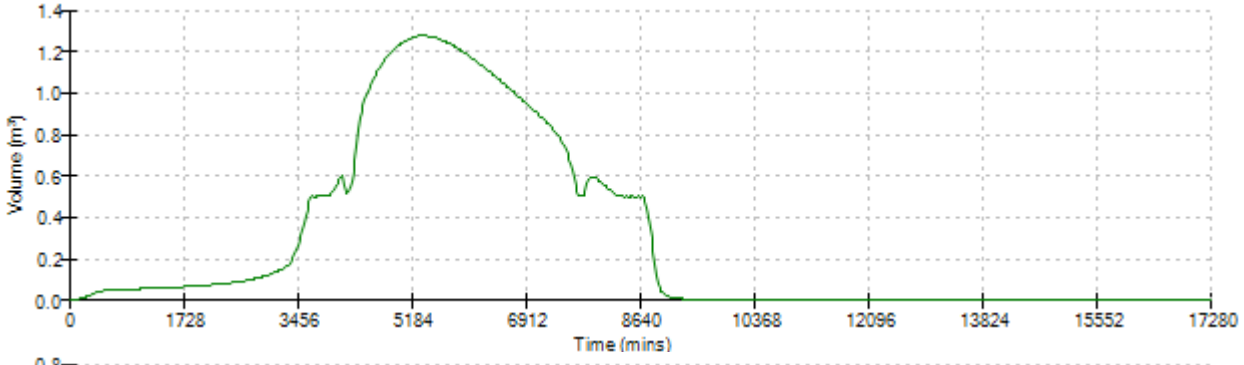


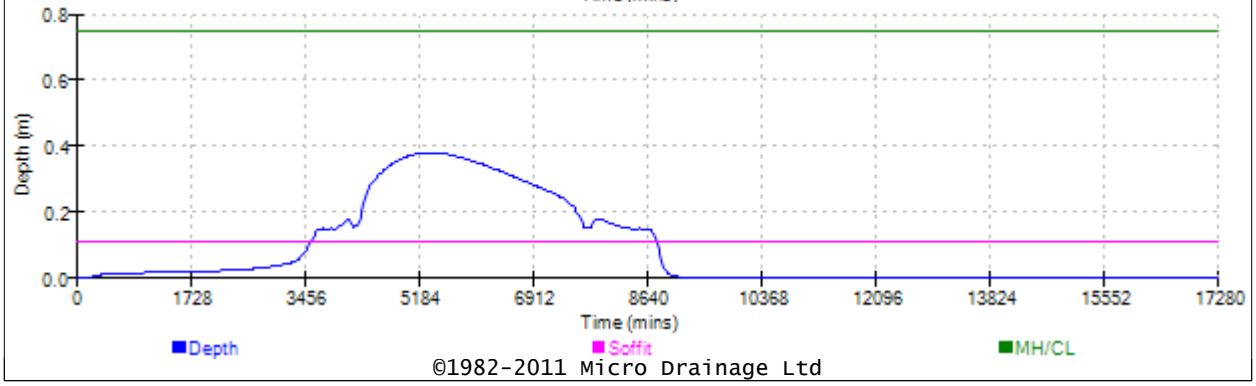
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.495	-0.110	0.0	0.0	0.0
264	65.400	63.495	-0.110	0.0	0.0	0.0
288	65.400	63.495	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.495	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.495	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.495	-0.110	0.0	0.0	0.0
1560	65.400	63.495	-0.110	0.0	0.0	0.0
1584	65.400	63.495	-0.110	0.0	0.0	0.0
1608	65.400	63.495	-0.110	0.0	0.0	0.0
1632	65.400	63.495	-0.110	0.0	0.0	0.0
1656	65.400	63.495	-0.110	0.0	0.0	0.0
1680	65.400	63.495	-0.110	0.0	0.0	0.0
1704	65.400	63.495	-0.110	0.0	0.0	0.0
1728	65.400	63.495	-0.110	0.0	0.0	0.0
1752	65.400	63.495	-0.110	0.0	0.0	0.0
1776	65.400	63.495	-0.110	0.0	0.0	0.0
1800	65.400	63.495	-0.110	0.0	0.0	0.0
1824	65.400	63.495	-0.110	0.0	0.0	0.0
1848	65.400	63.495	-0.110	0.0	0.0	0.0
1872	65.400	63.495	-0.110	0.0	0.0	0.0
1896	65.400	63.495	-0.110	0.0	0.0	0.0
1920	65.400	63.495	-0.110	0.0	0.0	0.0
1944	65.400	63.495	-0.110	0.0	0.0	0.0
1968	65.400	63.495	-0.110	0.0	0.0	0.0
1992	65.400	63.495	-0.110	0.0	0.0	0.0
2016	65.400	63.495	-0.110	0.0	0.0	0.0
2040	65.400	63.495	-0.110	0.0	0.0	0.0
2064	65.400	63.495	-0.110	0.0	0.0	0.0
2088	65.400	63.495	-0.110	0.0	0.0	0.0
2112	65.400	63.495	-0.110	0.0	0.0	0.0
2136	65.400	63.495	-0.110	0.0	0.0	0.0
2160	65.400	63.495	-0.110	0.0	0.0	0.0
2184	65.400	63.495	-0.110	0.0	0.0	0.0
2208	65.400	63.495	-0.110	0.0	0.0	0.0
2232	65.400	63.495	-0.110	0.0	0.0	0.0
2256	65.400	63.495	-0.110	0.0	0.0	0.0
2280	65.400	63.495	-0.110	0.0	0.0	0.0
2304	65.400	63.495	-0.110	0.0	0.0	0.0
2328	65.400	63.495	-0.110	0.0	0.0	0.0
2352	65.400	63.495	-0.110	0.0	0.0	0.0
2376	65.400	63.495	-0.110	0.0	0.0	0.0
2400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.495	-0.110	0.0	0.0	0.0
2448	65.400	63.496	-0.110	0.0	0.0	0.0
2472	65.400	63.496	-0.110	0.0	0.0	0.0
2496	65.400	63.496	-0.110	0.0	0.0	0.0
2520	65.400	63.496	-0.110	0.0	0.0	0.0
2544	65.400	63.496	-0.110	0.0	0.0	0.0
2568	65.400	63.496	-0.110	0.0	0.0	0.0
2592	65.400	63.496	-0.110	0.0	0.0	0.0
2616	65.400	63.496	-0.110	0.0	0.0	0.0
2640	65.400	63.496	-0.110	0.0	0.0	0.0
2664	65.400	63.496	-0.110	0.0	0.0	0.0
2688	65.400	63.496	-0.110	0.0	0.0	0.0
2712	65.400	63.496	-0.110	0.0	0.0	0.0
2736	65.400	63.496	-0.110	0.0	0.0	0.0
2760	65.400	63.496	-0.110	0.0	0.0	0.0
2784	65.400	63.496	-0.110	0.0	0.0	0.0
2808	65.400	63.496	-0.110	0.0	0.0	0.0
2832	65.400	63.496	-0.110	0.0	0.0	0.0
2856	65.400	63.496	-0.110	0.0	0.0	0.0
2880	65.400	63.496	-0.110	0.0	0.1	0.0
2904	65.400	63.496	-0.110	0.0	0.1	0.0
2928	65.400	63.496	-0.110	0.0	0.1	0.0
2952	65.400	63.496	-0.110	0.0	0.1	0.0
2976	65.400	63.496	-0.110	0.0	0.1	0.0
3000	65.400	63.496	-0.110	0.0	0.1	0.0
3024	65.400	63.496	-0.110	0.0	0.1	0.0
3048	65.400	63.496	-0.110	0.0	0.1	0.0
3072	65.400	63.496	-0.110	0.0	0.1	0.0
3096	65.400	63.496	-0.110	0.0	0.1	0.0
3120	65.400	63.497	-0.110	0.0	0.1	0.0
3144	65.400	63.497	-0.110	0.0	0.1	0.0
3168	65.400	63.497	-0.110	0.0	0.1	0.0
3192	65.400	63.497	-0.110	0.0	0.1	0.0
3216	65.400	63.497	-0.110	0.0	0.1	0.0
3240	65.400	63.497	-0.110	0.0	0.1	0.0
3264	65.400	63.497	-0.110	0.0	0.1	0.0
3288	65.400	63.497	-0.110	0.0	0.1	0.0
3312	65.400	63.497	-0.110	0.0	0.1	0.0
3336	65.400	63.497	-0.110	0.0	0.1	0.0
3360	65.400	63.497	-0.110	0.0	0.1	0.0
3384	65.400	63.498	-0.110	0.0	0.1	0.0
3408	65.400	63.498	-0.110	0.0	0.1	0.0
3432	65.400	63.498	-0.110	0.0	0.1	0.0
3456	65.400	63.498	-0.110	0.0	0.1	0.0
3480	65.401	63.498	-0.109	0.0	0.1	0.0
3504	65.401	63.498	-0.109	0.0	0.1	0.0
3528	65.401	63.498	-0.109	0.0	0.1	0.0
3552	65.401	63.498	-0.109	0.0	0.1	0.0
3576	65.401	63.499	-0.109	0.0	0.1	0.0
3600	65.401	63.499	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.499	-0.109	0.0	0.1	0.0
3648	65.401	63.499	-0.109	0.0	0.1	0.0
3672	65.401	63.499	-0.109	0.0	0.1	0.0
3696	65.401	63.499	-0.109	0.0	0.1	0.0
3720	65.401	63.499	-0.109	0.0	0.1	0.0
3744	65.401	63.499	-0.109	0.0	0.1	0.0
3768	65.401	63.499	-0.109	0.0	0.1	0.0
3792	65.401	63.499	-0.109	0.0	0.1	0.0
3816	65.401	63.500	-0.109	0.0	0.2	0.0
3840	65.401	63.500	-0.109	0.0	0.2	0.0
3864	65.401	63.500	-0.109	0.0	0.2	0.0
3888	65.401	63.500	-0.109	0.0	0.2	0.0
3912	65.401	63.501	-0.109	0.0	0.2	0.0
3936	65.401	63.501	-0.109	0.0	0.2	0.0
3960	65.401	63.501	-0.109	0.0	0.2	0.0
3984	65.401	63.501	-0.109	0.0	0.2	0.0
4008	65.401	63.501	-0.109	0.0	0.2	0.0
4032	65.401	63.501	-0.109	0.0	0.2	0.0
4056	65.401	63.501	-0.109	0.0	0.2	0.0
4080	65.401	63.502	-0.109	0.0	0.2	0.0
4104	65.401	63.502	-0.109	0.0	0.2	0.0
4128	65.401	63.502	-0.109	0.0	0.2	0.0
4152	65.401	63.502	-0.109	0.0	0.2	0.1
4176	65.401	63.502	-0.109	0.0	0.2	0.1
4200	65.401	63.502	-0.109	0.0	0.2	0.1
4224	65.401	63.502	-0.109	0.0	0.2	0.1
4248	65.401	63.503	-0.109	0.0	0.2	0.1
4272	65.401	63.503	-0.109	0.0	0.2	0.1
4296	65.401	63.503	-0.109	0.0	0.2	0.1
4320	65.401	63.503	-0.109	0.0	0.2	0.1
4344	65.401	63.503	-0.109	0.0	0.2	0.1
4368	65.401	63.503	-0.109	0.0	0.2	0.1
4392	65.401	63.503	-0.109	0.0	0.2	0.1
4416	65.401	63.503	-0.109	0.0	0.2	0.1
4440	65.401	63.502	-0.109	0.0	0.2	0.1
4464	65.401	63.502	-0.109	0.0	0.2	0.1
4488	65.401	63.502	-0.109	0.0	0.2	0.1
4512	65.401	63.502	-0.109	0.0	0.2	0.1
4536	65.401	63.502	-0.109	0.0	0.2	0.0
4560	65.401	63.502	-0.109	0.0	0.2	0.0
4584	65.401	63.502	-0.109	0.0	0.2	0.0
4608	65.401	63.501	-0.109	0.0	0.2	0.0
4632	65.401	63.501	-0.109	0.0	0.2	0.0
4656	65.401	63.502	-0.109	0.0	0.2	0.0
4680	65.401	63.503	-0.109	0.0	0.2	0.0
4704	65.401	63.504	-0.109	0.0	0.2	0.0
4728	65.401	63.505	-0.109	0.0	0.2	0.0
4752	65.401	63.506	-0.109	0.0	0.2	0.0
4776	65.401	63.508	-0.109	0.0	0.2	0.0
4800	65.401	63.510	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	63.512	-0.109	0.0	0.2	0.0
4848	65.401	63.515	-0.109	0.0	0.2	0.0
4872	65.401	63.517	-0.109	0.0	0.1	0.0
4896	65.401	63.519	-0.109	0.0	0.1	0.0
4920	65.401	63.521	-0.109	0.0	0.1	0.0
4944	65.401	63.523	-0.109	0.0	0.1	0.0
4968	65.401	63.525	-0.109	0.0	0.1	0.0
4992	65.401	63.527	-0.109	0.0	0.1	0.0
5016	65.401	63.528	-0.109	0.0	0.1	0.0
5040	65.401	63.530	-0.109	0.0	0.1	0.0
5064	65.401	63.531	-0.109	0.0	0.1	0.0
5088	65.401	63.532	-0.109	0.0	0.1	0.0
5112	65.401	63.533	-0.109	0.0	0.1	0.0
5136	65.401	63.534	-0.109	0.0	0.1	0.0
5160	65.401	63.535	-0.109	0.0	0.1	0.0
5184	65.401	63.535	-0.109	0.0	0.1	0.0
5208	65.400	63.536	-0.110	0.0	0.1	0.0
5232	65.400	63.536	-0.110	0.0	0.1	0.0
5256	65.400	63.537	-0.110	0.0	0.1	0.0
5280	65.400	63.537	-0.110	0.0	0.1	0.0
5304	65.400	63.537	-0.110	0.0	0.1	0.0
5328	65.400	63.537	-0.110	0.0	0.1	0.0
5352	65.400	63.537	-0.110	0.0	0.1	0.0
5376	65.400	63.536	-0.110	0.0	0.1	0.0
5400	65.400	63.536	-0.110	0.0	0.1	0.0
5424	65.400	63.536	-0.110	0.0	0.1	0.0
5448	65.400	63.535	-0.110	0.0	0.1	0.0
5472	65.400	63.535	-0.110	0.0	0.1	0.0
5496	65.400	63.534	-0.110	0.0	0.1	0.0
5520	65.400	63.533	-0.110	0.0	0.1	0.0
5544	65.400	63.532	-0.110	0.0	0.1	0.0
5568	65.400	63.531	-0.110	0.0	0.1	0.0
5592	65.400	63.530	-0.110	0.0	0.1	0.0
5616	65.400	63.530	-0.110	0.0	0.1	0.0
5640	65.400	63.528	-0.110	0.0	0.1	0.0
5664	65.400	63.527	-0.110	0.0	0.1	0.0
5688	65.400	63.526	-0.110	0.0	0.1	0.0
5712	65.400	63.525	-0.110	0.0	0.1	0.0
5736	65.400	63.524	-0.110	0.0	0.1	0.0
5760	65.400	63.522	-0.110	0.0	0.1	0.0
5784	65.400	63.521	-0.110	0.0	0.1	0.0
5808	65.400	63.520	-0.110	0.0	0.0	0.0
5832	65.400	63.518	-0.110	0.0	0.0	0.0
5856	65.400	63.517	-0.110	0.0	0.0	0.0
5880	65.400	63.515	-0.110	0.0	0.0	0.0
5904	65.400	63.512	-0.110	0.0	0.0	0.0
5928	65.400	63.512	-0.110	0.0	0.0	0.0
5952	65.400	63.511	-0.110	0.0	0.0	0.0
5976	65.400	63.508	-0.110	0.0	0.0	0.0
6000	65.400	63.507	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.506	-0.110	0.0	0.0	0.0
6048	65.400	63.505	-0.110	0.0	0.0	0.0
6072	65.400	63.502	-0.110	0.0	0.0	0.0
6096	65.400	63.501	-0.110	0.0	0.0	0.0
6120	65.400	63.498	-0.110	0.0	0.0	0.0
6144	65.400	63.498	-0.110	0.0	0.0	0.0
6168	65.400	63.498	-0.110	0.0	0.0	0.0
6192	65.400	63.497	-0.110	0.0	0.0	0.0
6216	65.400	63.497	-0.110	0.0	0.0	0.0
6240	65.400	63.496	-0.110	0.0	0.0	0.0
6264	65.400	63.496	-0.110	0.0	0.0	0.0
6288	65.400	63.496	-0.110	0.0	0.0	0.0
6312	65.400	63.496	-0.110	0.0	0.0	0.0
6336	65.400	63.496	-0.110	0.0	0.0	0.0
6360	65.400	63.495	-0.110	0.0	0.0	0.0
6384	65.400	63.495	-0.110	0.0	0.0	0.0
6408	65.400	63.495	-0.110	0.0	0.0	0.0
6432	65.400	63.495	-0.110	0.0	0.0	0.0
6456	65.400	63.495	-0.110	0.0	0.0	0.0
6480	65.400	63.495	-0.110	0.0	0.0	0.0
6504	65.400	63.495	-0.110	0.0	0.0	0.0
6528	65.400	63.495	-0.110	0.0	0.0	0.0
6552	65.400	63.495	-0.110	0.0	0.0	0.0
6576	65.400	63.495	-0.110	0.0	0.0	0.0
6600	65.400	63.495	-0.110	0.0	0.0	0.0
6624	65.400	63.495	-0.110	0.0	0.0	0.0
6648	65.400	63.495	-0.110	0.0	0.0	0.0
6672	65.400	63.495	-0.110	0.0	0.0	0.0
6696	65.400	63.495	-0.110	0.0	0.0	0.0
6720	65.400	63.495	-0.110	0.0	0.0	0.0
6744	65.400	63.495	-0.110	0.0	0.0	0.0
6768	65.400	63.495	-0.110	0.0	0.0	0.0
6792	65.400	63.495	-0.110	0.0	0.0	0.0
6816	65.400	63.495	-0.110	0.0	0.0	0.0
6840	65.400	63.495	-0.110	0.0	0.0	0.0
6864	65.400	63.495	-0.110	0.0	0.0	0.0
6888	65.400	63.495	-0.110	0.0	0.0	0.0
6912	65.400	63.495	-0.110	0.0	0.0	0.0
6936	65.400	63.495	-0.110	0.0	0.0	0.0
6960	65.400	63.495	-0.110	0.0	0.0	0.0
6984	65.400	63.495	-0.110	0.0	0.0	0.0
7008	65.400	63.495	-0.110	0.0	0.0	0.0
7032	65.400	63.495	-0.110	0.0	0.0	0.0
7056	65.400	63.495	-0.110	0.0	0.0	0.0
7080	65.400	63.495	-0.110	0.0	0.0	0.0
7104	65.400	63.495	-0.110	0.0	0.0	0.0
7128	65.400	63.495	-0.110	0.0	0.0	0.0
7152	65.400	63.495	-0.110	0.0	0.0	0.0
7176	65.400	63.495	-0.110	0.0	0.0	0.0
7200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.495	-0.110	0.0	0.0	0.0
7248	65.400	63.495	-0.110	0.0	0.0	0.0
7272	65.400	63.495	-0.110	0.0	0.0	0.0
7296	65.400	63.495	-0.110	0.0	0.0	0.0
7320	65.400	63.495	-0.110	0.0	0.0	0.0
7344	65.400	63.495	-0.110	0.0	0.0	0.0
7368	65.400	63.495	-0.110	0.0	0.0	0.0
7392	65.400	63.495	-0.110	0.0	0.0	0.0
7416	65.400	63.495	-0.110	0.0	0.0	0.0
7440	65.400	63.495	-0.110	0.0	0.0	0.0
7464	65.400	63.495	-0.110	0.0	0.0	0.0
7488	65.400	63.495	-0.110	0.0	0.0	0.0
7512	65.400	63.495	-0.110	0.0	0.0	0.0
7536	65.400	63.495	-0.110	0.0	0.0	0.0
7560	65.400	63.495	-0.110	0.0	0.0	0.0
7584	65.400	63.495	-0.110	0.0	0.0	0.0
7608	65.400	63.495	-0.110	0.0	0.0	0.0
7632	65.400	63.495	-0.110	0.0	0.0	0.0
7656	65.400	63.495	-0.110	0.0	0.0	0.0
7680	65.400	63.495	-0.110	0.0	0.0	0.0
7704	65.400	63.495	-0.110	0.0	0.0	0.0
7728	65.400	63.495	-0.110	0.0	0.0	0.0
7752	65.400	63.495	-0.110	0.0	0.0	0.0
7776	65.400	63.495	-0.110	0.0	0.0	0.0
7800	65.400	63.495	-0.110	0.0	0.0	0.0
7824	65.400	63.495	-0.110	0.0	0.0	0.0
7848	65.400	63.495	-0.110	0.0	0.0	0.0
7872	65.400	63.495	-0.110	0.0	0.0	0.0
7896	65.400	63.495	-0.110	0.0	0.0	0.0
7920	65.400	63.495	-0.110	0.0	0.0	0.0
7944	65.400	63.495	-0.110	0.0	0.0	0.0
7968	65.400	63.495	-0.110	0.0	0.0	0.0
7992	65.400	63.495	-0.110	0.0	0.0	0.0
8016	65.400	63.495	-0.110	0.0	0.0	0.0
8040	65.400	63.495	-0.110	0.0	0.0	0.0
8064	65.400	63.495	-0.110	0.0	0.0	0.0
8088	65.400	63.495	-0.110	0.0	0.0	0.0
8112	65.400	63.495	-0.110	0.0	0.0	0.0
8136	65.400	63.495	-0.110	0.0	0.0	0.0
8160	65.400	63.495	-0.110	0.0	0.0	0.0
8184	65.400	63.495	-0.110	0.0	0.0	0.0
8208	65.400	63.495	-0.110	0.0	0.0	0.0
8232	65.400	63.495	-0.110	0.0	0.0	0.0
8256	65.400	63.495	-0.110	0.0	0.0	0.0
8280	65.400	63.495	-0.110	0.0	0.0	0.0
8304	65.400	63.495	-0.110	0.0	0.0	0.0
8328	65.400	63.495	-0.110	0.0	0.0	0.0
8352	65.400	63.495	-0.110	0.0	0.0	0.0
8376	65.400	63.495	-0.110	0.0	0.0	0.0
8400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.495	-0.110	0.0	0.0	0.0
8448	65.400	63.495	-0.110	0.0	0.0	0.0
8472	65.400	63.495	-0.110	0.0	0.0	0.0
8496	65.400	63.495	-0.110	0.0	0.0	0.0
8520	65.400	63.495	-0.110	0.0	0.0	0.0
8544	65.400	63.495	-0.110	0.0	0.0	0.0
8568	65.400	63.495	-0.110	0.0	0.0	0.0
8592	65.400	63.495	-0.110	0.0	0.0	0.0
8616	65.400	63.495	-0.110	0.0	0.0	0.0
8640	65.400	63.495	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	63.494	-0.110	0.0	0.0	0.0
14448	65.400	63.494	-0.110	0.0	0.0	0.0
14472	65.400	63.494	-0.110	0.0	0.0	0.0
14496	65.400	63.494	-0.110	0.0	0.0	0.0
14520	65.400	63.494	-0.110	0.0	0.0	0.0
14544	65.400	63.494	-0.110	0.0	0.0	0.0
14568	65.400	63.494	-0.110	0.0	0.0	0.0
14592	65.400	63.494	-0.110	0.0	0.0	0.0
14616	65.400	63.494	-0.110	0.0	0.0	0.0
14640	65.400	63.494	-0.110	0.0	0.0	0.0
14664	65.400	63.494	-0.110	0.0	0.0	0.0
14688	65.400	63.494	-0.110	0.0	0.0	0.0
14712	65.400	63.494	-0.110	0.0	0.0	0.0
14736	65.400	63.494	-0.110	0.0	0.0	0.0
14760	65.400	63.494	-0.110	0.0	0.0	0.0
14784	65.400	63.494	-0.110	0.0	0.0	0.0
14808	65.400	63.494	-0.110	0.0	0.0	0.0
14832	65.400	63.494	-0.110	0.0	0.0	0.0
14856	65.400	63.494	-0.110	0.0	0.0	0.0
14880	65.400	63.494	-0.110	0.0	0.0	0.0
14904	65.400	63.494	-0.110	0.0	0.0	0.0
14928	65.400	63.494	-0.110	0.0	0.0	0.0
14952	65.400	63.494	-0.110	0.0	0.0	0.0
14976	65.400	63.494	-0.110	0.0	0.0	0.0
15000	65.400	63.494	-0.110	0.0	0.0	0.0
15024	65.400	63.494	-0.110	0.0	0.0	0.0
15048	65.400	63.494	-0.110	0.0	0.0	0.0
15072	65.400	63.494	-0.110	0.0	0.0	0.0
15096	65.400	63.494	-0.110	0.0	0.0	0.0
15120	65.400	63.494	-0.110	0.0	0.0	0.0
15144	65.400	63.494	-0.110	0.0	0.0	0.0
15168	65.400	63.494	-0.110	0.0	0.0	0.0
15192	65.400	63.494	-0.110	0.0	0.0	0.0
15216	65.400	63.494	-0.110	0.0	0.0	0.0
15240	65.400	63.494	-0.110	0.0	0.0	0.0
15264	65.400	63.494	-0.110	0.0	0.0	0.0
15288	65.400	63.494	-0.110	0.0	0.0	0.0
15312	65.400	63.494	-0.110	0.0	0.0	0.0
15336	65.400	63.494	-0.110	0.0	0.0	0.0
15360	65.400	63.494	-0.110	0.0	0.0	0.0
15384	65.400	63.494	-0.110	0.0	0.0	0.0
15408	65.400	63.494	-0.110	0.0	0.0	0.0
15432	65.400	63.494	-0.110	0.0	0.0	0.0
15456	65.400	63.494	-0.110	0.0	0.0	0.0
15480	65.400	63.494	-0.110	0.0	0.0	0.0
15504	65.400	63.494	-0.110	0.0	0.0	0.0
15528	65.400	63.494	-0.110	0.0	0.0	0.0
15552	65.400	63.494	-0.110	0.0	0.0	0.0
15576	65.400	63.494	-0.110	0.0	0.0	0.0
15600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	63.494	-0.110	0.0	0.0	0.0
15648	65.400	63.494	-0.110	0.0	0.0	0.0
15672	65.400	63.494	-0.110	0.0	0.0	0.0
15696	65.400	63.494	-0.110	0.0	0.0	0.0
15720	65.400	63.494	-0.110	0.0	0.0	0.0
15744	65.400	63.494	-0.110	0.0	0.0	0.0
15768	65.400	63.494	-0.110	0.0	0.0	0.0
15792	65.400	63.494	-0.110	0.0	0.0	0.0
15816	65.400	63.494	-0.110	0.0	0.0	0.0
15840	65.400	63.494	-0.110	0.0	0.0	0.0
15864	65.400	63.494	-0.110	0.0	0.0	0.0
15888	65.400	63.494	-0.110	0.0	0.0	0.0
15912	65.400	63.494	-0.110	0.0	0.0	0.0
15936	65.400	63.494	-0.110	0.0	0.0	0.0
15960	65.400	63.494	-0.110	0.0	0.0	0.0
15984	65.400	63.494	-0.110	0.0	0.0	0.0
16008	65.400	63.494	-0.110	0.0	0.0	0.0
16032	65.400	63.494	-0.110	0.0	0.0	0.0
16056	65.400	63.494	-0.110	0.0	0.0	0.0
16080	65.400	63.494	-0.110	0.0	0.0	0.0
16104	65.400	63.494	-0.110	0.0	0.0	0.0
16128	65.400	63.494	-0.110	0.0	0.0	0.0
16152	65.400	63.494	-0.110	0.0	0.0	0.0
16176	65.400	63.494	-0.110	0.0	0.0	0.0
16200	65.400	63.494	-0.110	0.0	0.0	0.0
16224	65.400	63.494	-0.110	0.0	0.0	0.0
16248	65.400	63.494	-0.110	0.0	0.0	0.0
16272	65.400	63.494	-0.110	0.0	0.0	0.0
16296	65.400	63.494	-0.110	0.0	0.0	0.0
16320	65.400	63.494	-0.110	0.0	0.0	0.0
16344	65.400	63.494	-0.110	0.0	0.0	0.0
16368	65.400	63.494	-0.110	0.0	0.0	0.0
16392	65.400	63.494	-0.110	0.0	0.0	0.0
16416	65.400	63.494	-0.110	0.0	0.0	0.0
16440	65.400	63.494	-0.110	0.0	0.0	0.0
16464	65.400	63.494	-0.110	0.0	0.0	0.0
16488	65.400	63.494	-0.110	0.0	0.0	0.0
16512	65.400	63.494	-0.110	0.0	0.0	0.0
16536	65.400	63.494	-0.110	0.0	0.0	0.0
16560	65.400	63.494	-0.110	0.0	0.0	0.0
16584	65.400	63.494	-0.110	0.0	0.0	0.0
16608	65.400	63.494	-0.110	0.0	0.0	0.0
16632	65.400	63.494	-0.110	0.0	0.0	0.0
16656	65.400	63.494	-0.110	0.0	0.0	0.0
16680	65.400	63.494	-0.110	0.0	0.0	0.0
16704	65.400	63.494	-0.110	0.0	0.0	0.0
16728	65.400	63.494	-0.110	0.0	0.0	0.0
16752	65.400	63.494	-0.110	0.0	0.0	0.0
16776	65.400	63.494	-0.110	0.0	0.0	0.0
16800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	63.494	-0.110	0.0	0.0	0.0
16848	65.400	63.494	-0.110	0.0	0.0	0.0
16872	65.400	63.494	-0.110	0.0	0.0	0.0
16896	65.400	63.494	-0.110	0.0	0.0	0.0
16920	65.400	63.494	-0.110	0.0	0.0	0.0
16944	65.400	63.494	-0.110	0.0	0.0	0.0
16968	65.400	63.494	-0.110	0.0	0.0	0.0
16992	65.400	63.494	-0.110	0.0	0.0	0.0
17016	65.400	63.494	-0.110	0.0	0.0	0.0
17040	65.400	63.494	-0.110	0.0	0.0	0.0
17064	65.400	63.494	-0.110	0.0	0.0	0.0
17088	65.400	63.494	-0.110	0.0	0.0	0.0
17112	65.400	63.494	-0.110	0.0	0.0	0.0
17136	65.400	63.494	-0.110	0.0	0.0	0.0
17160	65.400	63.494	-0.110	0.0	0.0	0.0
17184	65.400	63.494	-0.110	0.0	0.0	0.0
17208	65.400	63.494	-0.110	0.0	0.0	0.0
17232	65.400	63.494	-0.110	0.0	0.0	0.0
17256	65.400	63.494	-0.110	0.0	0.0	0.0
17280	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.446	-0.109	0.0	0.0	0.0
48	63.495	63.446	-0.109	0.0	0.0	0.0
72	63.495	63.446	-0.109	0.0	0.0	0.0
96	63.495	63.446	-0.109	0.0	0.0	0.0
120	63.495	63.446	-0.109	0.0	0.0	0.0
144	63.495	63.446	-0.109	0.0	0.0	0.0
168	63.495	63.446	-0.109	0.0	0.0	0.0
192	63.495	63.446	-0.109	0.0	0.0	0.0
216	63.495	63.446	-0.109	0.0	0.0	0.0
240	63.495	63.446	-0.109	0.0	0.0	0.0
264	63.495	63.446	-0.109	0.0	0.0	0.0
288	63.495	63.446	-0.109	0.0	0.0	0.0
312	63.495	63.446	-0.109	0.0	0.0	0.0
336	63.495	63.446	-0.109	0.0	0.0	0.0
360	63.495	63.446	-0.109	0.0	0.0	0.0
384	63.495	63.446	-0.109	0.0	0.0	0.0
408	63.495	63.446	-0.109	0.0	0.0	0.0
432	63.495	63.446	-0.109	0.0	0.0	0.0
456	63.495	63.446	-0.109	0.0	0.0	0.0
480	63.495	63.446	-0.109	0.0	0.0	0.0
504	63.495	63.446	-0.109	0.0	0.0	0.0
528	63.495	63.446	-0.109	0.0	0.0	0.0
552	63.495	63.446	-0.109	0.0	0.0	0.0
576	63.495	63.446	-0.109	0.0	0.0	0.0
600	63.495	63.446	-0.109	0.0	0.0	0.0
624	63.495	63.446	-0.109	0.0	0.0	0.0
648	63.495	63.446	-0.109	0.0	0.0	0.0
672	63.495	63.446	-0.109	0.0	0.0	0.0
696	63.495	63.446	-0.109	0.0	0.0	0.0
720	63.495	63.446	-0.109	0.0	0.0	0.0
744	63.495	63.446	-0.109	0.0	0.0	0.0
768	63.495	63.446	-0.109	0.0	0.0	0.0
792	63.495	63.446	-0.109	0.0	0.0	0.0
816	63.495	63.446	-0.109	0.0	0.0	0.0
840	63.495	63.446	-0.109	0.0	0.0	0.0
864	63.495	63.446	-0.109	0.0	0.0	0.0
888	63.495	63.446	-0.109	0.0	0.0	0.0
912	63.495	63.446	-0.109	0.0	0.0	0.0
936	63.495	63.446	-0.109	0.0	0.0	0.0
960	63.495	63.446	-0.109	0.0	0.0	0.0
984	63.495	63.446	-0.109	0.0	0.0	0.0
1008	63.495	63.446	-0.109	0.0	0.0	0.0
1032	63.495	63.446	-0.109	0.0	0.0	0.0
1056	63.495	63.446	-0.109	0.0	0.0	0.0
1080	63.495	63.446	-0.109	0.0	0.0	0.0
1104	63.495	63.446	-0.109	0.0	0.0	0.0
1128	63.495	63.446	-0.109	0.0	0.0	0.0
1152	63.495	63.446	-0.109	0.0	0.0	0.0
1176	63.495	63.446	-0.109	0.0	0.0	0.0
1200	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.446	-0.109	0.0	0.0	0.0
1248	63.495	63.446	-0.109	0.0	0.0	0.0
1272	63.495	63.446	-0.109	0.0	0.0	0.0
1296	63.495	63.446	-0.109	0.0	0.0	0.0
1320	63.495	63.446	-0.109	0.0	0.1	0.0
1344	63.495	63.446	-0.109	0.0	0.1	0.0
1368	63.495	63.446	-0.109	0.0	0.1	0.0
1392	63.495	63.446	-0.109	0.0	0.1	0.0
1416	63.495	63.446	-0.109	0.0	0.1	0.0
1440	63.495	63.446	-0.109	0.0	0.1	0.0
1464	63.495	63.446	-0.109	0.0	0.1	0.0
1488	63.495	63.446	-0.109	0.0	0.1	0.0
1512	63.495	63.446	-0.109	0.0	0.1	0.0
1536	63.495	63.446	-0.109	0.0	0.1	0.0
1560	63.495	63.446	-0.109	0.0	0.1	0.0
1584	63.495	63.446	-0.109	0.0	0.1	0.0
1608	63.495	63.446	-0.109	0.0	0.1	0.0
1632	63.495	63.446	-0.109	0.0	0.1	0.0
1656	63.495	63.446	-0.109	0.0	0.1	0.0
1680	63.495	63.446	-0.109	0.0	0.1	0.0
1704	63.495	63.446	-0.109	0.0	0.1	0.0
1728	63.495	63.446	-0.109	0.0	0.1	0.0
1752	63.495	63.446	-0.109	0.0	0.1	0.0
1776	63.495	63.446	-0.109	0.0	0.1	0.0
1800	63.495	63.446	-0.109	0.0	0.1	0.0
1824	63.495	63.446	-0.109	0.0	0.1	0.0
1848	63.495	63.446	-0.109	0.0	0.1	0.0
1872	63.495	63.446	-0.109	0.0	0.1	0.0
1896	63.495	63.446	-0.109	0.0	0.1	0.0
1920	63.495	63.446	-0.109	0.0	0.1	0.0
1944	63.495	63.446	-0.109	0.0	0.1	0.0
1968	63.495	63.446	-0.109	0.0	0.1	0.0
1992	63.495	63.446	-0.109	0.0	0.1	0.0
2016	63.495	63.446	-0.109	0.0	0.1	0.0
2040	63.495	63.446	-0.109	0.0	0.1	0.0
2064	63.495	63.446	-0.109	0.0	0.1	0.0
2088	63.495	63.446	-0.109	0.0	0.1	0.0
2112	63.495	63.446	-0.109	0.0	0.1	0.0
2136	63.495	63.446	-0.109	0.0	0.1	0.0
2160	63.495	63.446	-0.109	0.0	0.1	0.0
2184	63.495	63.446	-0.109	0.0	0.1	0.0
2208	63.495	63.446	-0.109	0.0	0.1	0.0
2232	63.495	63.446	-0.109	0.0	0.1	0.0
2256	63.495	63.447	-0.109	0.0	0.1	0.0
2280	63.495	63.447	-0.109	0.0	0.1	0.0
2304	63.495	63.447	-0.109	0.0	0.1	0.0
2328	63.495	63.447	-0.109	0.0	0.1	0.0
2352	63.495	63.447	-0.109	0.0	0.1	0.0
2376	63.495	63.447	-0.109	0.0	0.1	0.0
2400	63.495	63.447	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.495	63.447	-0.109	0.0	0.1	0.0
2448	63.496	63.447	-0.109	0.0	0.1	0.0
2472	63.496	63.447	-0.109	0.0	0.1	0.0
2496	63.496	63.447	-0.109	0.0	0.1	0.0
2520	63.496	63.447	-0.109	0.0	0.1	0.0
2544	63.496	63.447	-0.109	0.0	0.1	0.0
2568	63.496	63.447	-0.109	0.0	0.1	0.0
2592	63.496	63.447	-0.109	0.0	0.1	0.0
2616	63.496	63.447	-0.108	0.0	0.1	0.0
2640	63.496	63.447	-0.108	0.0	0.1	0.0
2664	63.496	63.447	-0.108	0.0	0.1	0.0
2688	63.496	63.447	-0.108	0.0	0.1	0.0
2712	63.496	63.447	-0.108	0.0	0.1	0.0
2736	63.496	63.447	-0.108	0.0	0.1	0.0
2760	63.496	63.447	-0.108	0.0	0.1	0.0
2784	63.496	63.447	-0.108	0.0	0.1	0.0
2808	63.496	63.448	-0.108	0.0	0.1	0.0
2832	63.496	63.448	-0.108	0.0	0.1	0.0
2856	63.496	63.448	-0.108	0.0	0.1	0.0
2880	63.496	63.448	-0.108	0.0	0.1	0.0
2904	63.496	63.448	-0.108	0.0	0.1	0.0
2928	63.496	63.448	-0.108	0.0	0.1	0.0
2952	63.496	63.448	-0.108	0.0	0.1	0.0
2976	63.496	63.448	-0.108	0.0	0.1	0.0
3000	63.496	63.448	-0.108	0.0	0.1	0.0
3024	63.496	63.448	-0.108	0.0	0.1	0.0
3048	63.496	63.448	-0.108	0.0	0.1	0.0
3072	63.496	63.448	-0.108	0.0	0.1	0.0
3096	63.496	63.448	-0.108	0.0	0.1	0.0
3120	63.497	63.449	-0.108	0.0	0.1	0.0
3144	63.497	63.449	-0.107	0.0	0.1	0.0
3168	63.497	63.449	-0.107	0.0	0.1	0.0
3192	63.497	63.449	-0.107	0.0	0.1	0.0
3216	63.497	63.449	-0.107	0.0	0.1	0.0
3240	63.497	63.450	-0.107	0.0	0.2	0.0
3264	63.497	63.450	-0.107	0.0	0.2	0.0
3288	63.497	63.450	-0.107	0.0	0.2	0.0
3312	63.497	63.450	-0.107	0.0	0.2	0.0
3336	63.497	63.450	-0.107	0.0	0.2	0.0
3360	63.497	63.450	-0.107	0.0	0.2	0.0
3384	63.498	63.451	-0.107	0.0	0.2	0.0
3408	63.498	63.451	-0.106	0.0	0.2	0.0
3432	63.498	63.451	-0.106	0.0	0.2	0.0
3456	63.498	63.451	-0.106	0.0	0.2	0.0
3480	63.498	63.452	-0.106	0.0	0.2	0.1
3504	63.498	63.452	-0.106	0.0	0.2	0.1
3528	63.498	63.452	-0.106	0.0	0.2	0.1
3552	63.498	63.452	-0.106	0.0	0.2	0.1
3576	63.499	63.452	-0.106	0.0	0.2	0.1
3600	63.499	63.452	-0.106	0.0	0.2	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.499	63.452	-0.106	0.0	0.2	0.1
3648	63.499	63.453	-0.105	0.0	0.3	0.1
3672	63.499	63.453	-0.105	0.0	0.3	0.1
3696	63.499	63.453	-0.105	0.0	0.3	0.1
3720	63.499	63.453	-0.105	0.0	0.3	0.1
3744	63.499	63.454	-0.105	0.0	0.3	0.1
3768	63.499	63.454	-0.105	0.0	0.3	0.1
3792	63.499	63.454	-0.105	0.0	0.3	0.1
3816	63.500	63.455	-0.104	0.0	0.3	0.1
3840	63.500	63.455	-0.104	0.0	0.3	0.1
3864	63.500	63.455	-0.104	0.0	0.3	0.1
3888	63.500	63.455	-0.104	0.0	0.3	0.1
3912	63.501	63.455	-0.104	0.0	0.3	0.1
3936	63.501	63.455	-0.104	0.0	0.3	0.1
3960	63.501	63.455	-0.104	0.0	0.3	0.1
3984	63.501	63.456	-0.103	0.0	0.4	0.1
4008	63.501	63.456	-0.103	0.0	0.4	0.1
4032	63.501	63.456	-0.103	0.0	0.4	0.1
4056	63.501	63.456	-0.103	0.0	0.4	0.1
4080	63.502	63.456	-0.102	0.0	0.3	0.1
4104	63.502	63.456	-0.102	0.0	0.3	0.1
4128	63.502	63.456	-0.102	0.0	0.3	0.1
4152	63.502	63.456	-0.102	0.0	0.3	0.1
4176	63.502	63.457	-0.102	0.0	0.3	0.1
4200	63.502	63.457	-0.102	0.0	0.3	0.1
4224	63.502	63.457	-0.102	0.0	0.3	0.1
4248	63.503	63.457	-0.101	0.0	0.3	0.1
4272	63.503	63.457	-0.101	0.0	0.3	0.1
4296	63.503	63.457	-0.101	0.0	0.3	0.1
4320	63.503	63.457	-0.101	0.0	0.3	0.1
4344	63.503	63.457	-0.101	0.0	0.3	0.1
4368	63.503	63.457	-0.101	0.0	0.3	0.1
4392	63.503	63.457	-0.101	0.0	0.3	0.1
4416	63.503	63.457	-0.101	0.0	0.3	0.1
4440	63.502	63.457	-0.102	0.0	0.3	0.1
4464	63.502	63.458	-0.102	0.0	0.3	0.1
4488	63.502	63.460	-0.102	0.0	0.3	0.1
4512	63.502	63.463	-0.102	0.0	0.3	0.1
4536	63.502	63.467	-0.102	0.0	0.3	0.1
4560	63.502	63.472	-0.102	0.0	0.3	0.1
4584	63.502	63.477	-0.102	0.0	0.3	0.1
4608	63.501	63.481	-0.103	0.0	0.4	0.1
4632	63.501	63.485	-0.103	0.0	0.4	0.1
4656	63.502	63.489	-0.102	0.0	0.3	0.1
4680	63.503	63.493	-0.101	0.0	0.3	0.1
4704	63.504	63.496	-0.100	0.0	0.2	0.1
4728	63.505	63.500	-0.099	0.0	0.2	0.1
4752	63.506	63.503	-0.098	0.0	0.2	0.1
4776	63.508	63.506	-0.096	0.0	0.1	0.1
4800	63.510	63.509	-0.094	0.0	0.1	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.512	63.512	-0.092	0.0	0.1	0.1
4848	63.515	63.514	-0.089	0.0	0.1	0.1
4872	63.517	63.517	-0.087	0.0	0.1	0.1
4896	63.519	63.519	-0.085	0.0	0.0	0.1
4920	63.521	63.521	-0.083	0.0	0.0	0.1
4944	63.523	63.523	-0.081	0.0	0.0	0.1
4968	63.525	63.525	-0.079	0.0	0.0	0.1
4992	63.527	63.526	-0.078	0.0	0.0	0.1
5016	63.528	63.528	-0.076	0.0	0.0	0.1
5040	63.530	63.529	-0.075	0.0	0.0	0.1
5064	63.531	63.531	-0.073	0.0	0.0	0.1
5088	63.532	63.532	-0.072	0.0	0.0	0.1
5112	63.533	63.533	-0.071	0.0	0.0	0.1
5136	63.534	63.534	-0.070	0.0	0.0	0.1
5160	63.535	63.534	-0.069	0.0	0.0	0.1
5184	63.535	63.535	-0.069	0.0	0.0	0.1
5208	63.536	63.536	-0.068	0.0	0.0	0.0
5232	63.536	63.536	-0.068	0.0	0.0	0.0
5256	63.537	63.536	-0.068	0.0	0.0	0.0
5280	63.537	63.537	-0.067	0.0	0.0	0.0
5304	63.537	63.537	-0.067	0.0	0.0	0.0
5328	63.537	63.537	-0.067	0.0	0.0	0.0
5352	63.537	63.536	-0.067	0.0	0.0	0.0
5376	63.536	63.536	-0.068	0.0	0.0	0.0
5400	63.536	63.536	-0.068	0.0	0.0	0.0
5424	63.536	63.535	-0.068	0.0	0.0	0.0
5448	63.535	63.535	-0.069	0.0	0.0	0.0
5472	63.535	63.534	-0.070	0.0	0.0	0.0
5496	63.534	63.534	-0.070	0.0	0.0	0.0
5520	63.533	63.533	-0.071	0.0	0.0	0.0
5544	63.532	63.532	-0.072	0.0	0.0	0.0
5568	63.531	63.531	-0.073	0.0	0.0	0.0
5592	63.530	63.530	-0.074	0.0	0.0	0.0
5616	63.530	63.529	-0.075	0.0	0.0	0.0
5640	63.528	63.528	-0.076	0.0	0.0	0.0
5664	63.527	63.527	-0.077	0.0	0.0	0.0
5688	63.526	63.526	-0.078	0.0	0.0	0.0
5712	63.525	63.525	-0.079	0.0	0.0	0.0
5736	63.524	63.523	-0.081	0.0	0.0	0.0
5760	63.522	63.522	-0.082	0.0	0.0	0.0
5784	63.521	63.521	-0.083	0.0	0.0	0.0
5808	63.520	63.519	-0.085	0.0	0.0	0.0
5832	63.518	63.518	-0.086	0.0	0.0	0.0
5856	63.517	63.517	-0.087	0.0	0.0	0.0
5880	63.515	63.515	-0.089	0.0	0.0	0.0
5904	63.512	63.514	-0.092	0.0	0.0	0.0
5928	63.512	63.512	-0.092	0.0	0.0	0.0
5952	63.511	63.510	-0.093	0.0	0.0	0.0
5976	63.508	63.509	-0.096	0.0	0.0	0.0
6000	63.507	63.507	-0.097	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.506	63.505	-0.098	0.0	0.0	0.0
6048	63.505	63.504	-0.100	0.0	0.0	0.0
6072	63.502	63.502	-0.102	0.0	0.1	0.0
6096	63.501	63.500	-0.103	0.0	0.1	0.0
6120	63.498	63.498	-0.106	0.0	0.1	0.0
6144	63.498	63.497	-0.106	0.0	0.1	0.0
6168	63.498	63.495	-0.107	0.0	0.1	0.0
6192	63.497	63.493	-0.107	0.0	0.1	0.0
6216	63.497	63.491	-0.108	0.0	0.1	0.0
6240	63.496	63.489	-0.108	0.0	0.1	0.0
6264	63.496	63.487	-0.108	0.0	0.1	0.0
6288	63.496	63.485	-0.108	0.0	0.1	0.0
6312	63.496	63.483	-0.108	0.0	0.1	0.0
6336	63.496	63.481	-0.109	0.0	0.1	0.0
6360	63.495	63.480	-0.109	0.0	0.1	0.0
6384	63.495	63.478	-0.109	0.0	0.1	0.0
6408	63.495	63.476	-0.109	0.0	0.1	0.0
6432	63.495	63.474	-0.109	0.0	0.1	0.0
6456	63.495	63.472	-0.109	0.0	0.1	0.0
6480	63.495	63.470	-0.109	0.0	0.1	0.0
6504	63.495	63.468	-0.109	0.0	0.1	0.0
6528	63.495	63.466	-0.109	0.0	0.1	0.0
6552	63.495	63.464	-0.109	0.0	0.1	0.0
6576	63.495	63.462	-0.109	0.0	0.1	0.0
6600	63.495	63.460	-0.109	0.0	0.1	0.0
6624	63.495	63.458	-0.109	0.0	0.1	0.0
6648	63.495	63.456	-0.109	0.0	0.1	0.0
6672	63.495	63.455	-0.109	0.0	0.1	0.0
6696	63.495	63.451	-0.109	0.0	0.1	0.0
6720	63.495	63.451	-0.109	0.0	0.1	0.0
6744	63.495	63.449	-0.109	0.0	0.1	0.0
6768	63.495	63.448	-0.109	0.0	0.1	0.0
6792	63.495	63.448	-0.109	0.0	0.1	0.0
6816	63.495	63.447	-0.109	0.0	0.1	0.0
6840	63.495	63.447	-0.109	0.0	0.1	0.0
6864	63.495	63.446	-0.109	0.0	0.1	0.0
6888	63.495	63.446	-0.109	0.0	0.1	0.0
6912	63.495	63.446	-0.109	0.0	0.1	0.0
6936	63.495	63.446	-0.109	0.0	0.1	0.0
6960	63.495	63.446	-0.109	0.0	0.1	0.0
6984	63.495	63.446	-0.109	0.0	0.1	0.0
7008	63.495	63.446	-0.109	0.0	0.1	0.0
7032	63.495	63.446	-0.109	0.0	0.1	0.0
7056	63.495	63.446	-0.109	0.0	0.1	0.0
7080	63.495	63.446	-0.109	0.0	0.1	0.0
7104	63.495	63.446	-0.109	0.0	0.1	0.0
7128	63.495	63.446	-0.109	0.0	0.1	0.0
7152	63.495	63.446	-0.109	0.0	0.1	0.0
7176	63.495	63.446	-0.109	0.0	0.1	0.0
7200	63.495	63.446	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.495	63.446	-0.109	0.0	0.1	0.0
7248	63.495	63.446	-0.109	0.0	0.1	0.0
7272	63.495	63.446	-0.109	0.0	0.1	0.0
7296	63.495	63.446	-0.109	0.0	0.1	0.0
7320	63.495	63.446	-0.109	0.0	0.1	0.0
7344	63.495	63.446	-0.109	0.0	0.1	0.0
7368	63.495	63.446	-0.109	0.0	0.0	0.0
7392	63.495	63.446	-0.109	0.0	0.0	0.0
7416	63.495	63.446	-0.109	0.0	0.0	0.0
7440	63.495	63.446	-0.109	0.0	0.0	0.0
7464	63.495	63.446	-0.109	0.0	0.0	0.0
7488	63.495	63.446	-0.109	0.0	0.0	0.0
7512	63.495	63.446	-0.109	0.0	0.0	0.0
7536	63.495	63.446	-0.109	0.0	0.0	0.0
7560	63.495	63.446	-0.109	0.0	0.0	0.0
7584	63.495	63.446	-0.109	0.0	0.0	0.0
7608	63.495	63.446	-0.109	0.0	0.0	0.0
7632	63.495	63.446	-0.109	0.0	0.0	0.0
7656	63.495	63.446	-0.109	0.0	0.0	0.0
7680	63.495	63.446	-0.109	0.0	0.0	0.0
7704	63.495	63.446	-0.109	0.0	0.0	0.0
7728	63.495	63.446	-0.109	0.0	0.0	0.0
7752	63.495	63.446	-0.109	0.0	0.0	0.0
7776	63.495	63.446	-0.109	0.0	0.0	0.0
7800	63.495	63.446	-0.109	0.0	0.0	0.0
7824	63.495	63.446	-0.109	0.0	0.0	0.0
7848	63.495	63.446	-0.109	0.0	0.0	0.0
7872	63.495	63.446	-0.109	0.0	0.0	0.0
7896	63.495	63.446	-0.109	0.0	0.0	0.0
7920	63.495	63.446	-0.109	0.0	0.0	0.0
7944	63.495	63.446	-0.109	0.0	0.0	0.0
7968	63.495	63.446	-0.109	0.0	0.0	0.0
7992	63.495	63.446	-0.109	0.0	0.0	0.0
8016	63.495	63.446	-0.109	0.0	0.0	0.0
8040	63.495	63.446	-0.109	0.0	0.0	0.0
8064	63.495	63.446	-0.109	0.0	0.0	0.0
8088	63.495	63.446	-0.109	0.0	0.0	0.0
8112	63.495	63.446	-0.109	0.0	0.0	0.0
8136	63.495	63.446	-0.109	0.0	0.0	0.0
8160	63.495	63.446	-0.109	0.0	0.0	0.0
8184	63.495	63.446	-0.109	0.0	0.0	0.0
8208	63.495	63.446	-0.109	0.0	0.0	0.0
8232	63.495	63.446	-0.109	0.0	0.0	0.0
8256	63.495	63.446	-0.109	0.0	0.0	0.0
8280	63.495	63.446	-0.109	0.0	0.0	0.0
8304	63.495	63.446	-0.109	0.0	0.0	0.0
8328	63.495	63.446	-0.109	0.0	0.0	0.0
8352	63.495	63.446	-0.109	0.0	0.0	0.0
8376	63.495	63.446	-0.109	0.0	0.0	0.0
8400	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.495	63.446	-0.109	0.0	0.0	0.0
8448	63.495	63.446	-0.109	0.0	0.0	0.0
8472	63.495	63.446	-0.109	0.0	0.0	0.0
8496	63.495	63.446	-0.109	0.0	0.0	0.0
8520	63.495	63.446	-0.109	0.0	0.0	0.0
8544	63.495	63.446	-0.109	0.0	0.0	0.0
8568	63.495	63.446	-0.109	0.0	0.0	0.0
8592	63.495	63.446	-0.109	0.0	0.0	0.0
8616	63.495	63.446	-0.109	0.0	0.0	0.0
8640	63.495	63.446	-0.109	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.494	63.444	-0.110	0.0	0.0	0.0
14448	63.494	63.444	-0.110	0.0	0.0	0.0
14472	63.494	63.444	-0.110	0.0	0.0	0.0
14496	63.494	63.444	-0.110	0.0	0.0	0.0
14520	63.494	63.444	-0.110	0.0	0.0	0.0
14544	63.494	63.444	-0.110	0.0	0.0	0.0
14568	63.494	63.444	-0.110	0.0	0.0	0.0
14592	63.494	63.444	-0.110	0.0	0.0	0.0
14616	63.494	63.444	-0.110	0.0	0.0	0.0
14640	63.494	63.444	-0.110	0.0	0.0	0.0
14664	63.494	63.444	-0.110	0.0	0.0	0.0
14688	63.494	63.444	-0.110	0.0	0.0	0.0
14712	63.494	63.444	-0.110	0.0	0.0	0.0
14736	63.494	63.444	-0.110	0.0	0.0	0.0
14760	63.494	63.444	-0.110	0.0	0.0	0.0
14784	63.494	63.444	-0.110	0.0	0.0	0.0
14808	63.494	63.444	-0.110	0.0	0.0	0.0
14832	63.494	63.444	-0.110	0.0	0.0	0.0
14856	63.494	63.444	-0.110	0.0	0.0	0.0
14880	63.494	63.444	-0.110	0.0	0.0	0.0
14904	63.494	63.444	-0.110	0.0	0.0	0.0
14928	63.494	63.444	-0.110	0.0	0.0	0.0
14952	63.494	63.444	-0.110	0.0	0.0	0.0
14976	63.494	63.444	-0.110	0.0	0.0	0.0
15000	63.494	63.444	-0.110	0.0	0.0	0.0
15024	63.494	63.444	-0.110	0.0	0.0	0.0
15048	63.494	63.444	-0.110	0.0	0.0	0.0
15072	63.494	63.444	-0.110	0.0	0.0	0.0
15096	63.494	63.444	-0.110	0.0	0.0	0.0
15120	63.494	63.444	-0.110	0.0	0.0	0.0
15144	63.494	63.444	-0.110	0.0	0.0	0.0
15168	63.494	63.444	-0.110	0.0	0.0	0.0
15192	63.494	63.444	-0.110	0.0	0.0	0.0
15216	63.494	63.444	-0.110	0.0	0.0	0.0
15240	63.494	63.444	-0.110	0.0	0.0	0.0
15264	63.494	63.444	-0.110	0.0	0.0	0.0
15288	63.494	63.444	-0.110	0.0	0.0	0.0
15312	63.494	63.444	-0.110	0.0	0.0	0.0
15336	63.494	63.444	-0.110	0.0	0.0	0.0
15360	63.494	63.444	-0.110	0.0	0.0	0.0
15384	63.494	63.444	-0.110	0.0	0.0	0.0
15408	63.494	63.444	-0.110	0.0	0.0	0.0
15432	63.494	63.444	-0.110	0.0	0.0	0.0
15456	63.494	63.444	-0.110	0.0	0.0	0.0
15480	63.494	63.444	-0.110	0.0	0.0	0.0
15504	63.494	63.444	-0.110	0.0	0.0	0.0
15528	63.494	63.444	-0.110	0.0	0.0	0.0
15552	63.494	63.444	-0.110	0.0	0.0	0.0
15576	63.494	63.444	-0.110	0.0	0.0	0.0
15600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.494	63.444	-0.110	0.0	0.0	0.0
15648	63.494	63.444	-0.110	0.0	0.0	0.0
15672	63.494	63.444	-0.110	0.0	0.0	0.0
15696	63.494	63.444	-0.110	0.0	0.0	0.0
15720	63.494	63.444	-0.110	0.0	0.0	0.0
15744	63.494	63.444	-0.110	0.0	0.0	0.0
15768	63.494	63.444	-0.110	0.0	0.0	0.0
15792	63.494	63.444	-0.110	0.0	0.0	0.0
15816	63.494	63.444	-0.110	0.0	0.0	0.0
15840	63.494	63.444	-0.110	0.0	0.0	0.0
15864	63.494	63.444	-0.110	0.0	0.0	0.0
15888	63.494	63.444	-0.110	0.0	0.0	0.0
15912	63.494	63.444	-0.110	0.0	0.0	0.0
15936	63.494	63.444	-0.110	0.0	0.0	0.0
15960	63.494	63.444	-0.110	0.0	0.0	0.0
15984	63.494	63.444	-0.110	0.0	0.0	0.0
16008	63.494	63.444	-0.110	0.0	0.0	0.0
16032	63.494	63.444	-0.110	0.0	0.0	0.0
16056	63.494	63.444	-0.110	0.0	0.0	0.0
16080	63.494	63.444	-0.110	0.0	0.0	0.0
16104	63.494	63.444	-0.110	0.0	0.0	0.0
16128	63.494	63.444	-0.110	0.0	0.0	0.0
16152	63.494	63.444	-0.110	0.0	0.0	0.0
16176	63.494	63.444	-0.110	0.0	0.0	0.0
16200	63.494	63.444	-0.110	0.0	0.0	0.0
16224	63.494	63.444	-0.110	0.0	0.0	0.0
16248	63.494	63.444	-0.110	0.0	0.0	0.0
16272	63.494	63.444	-0.110	0.0	0.0	0.0
16296	63.494	63.444	-0.110	0.0	0.0	0.0
16320	63.494	63.444	-0.110	0.0	0.0	0.0
16344	63.494	63.444	-0.110	0.0	0.0	0.0
16368	63.494	63.444	-0.110	0.0	0.0	0.0
16392	63.494	63.444	-0.110	0.0	0.0	0.0
16416	63.494	63.444	-0.110	0.0	0.0	0.0
16440	63.494	63.444	-0.110	0.0	0.0	0.0
16464	63.494	63.444	-0.110	0.0	0.0	0.0
16488	63.494	63.444	-0.110	0.0	0.0	0.0
16512	63.494	63.444	-0.110	0.0	0.0	0.0
16536	63.494	63.444	-0.110	0.0	0.0	0.0
16560	63.494	63.444	-0.110	0.0	0.0	0.0
16584	63.494	63.444	-0.110	0.0	0.0	0.0
16608	63.494	63.444	-0.110	0.0	0.0	0.0
16632	63.494	63.444	-0.110	0.0	0.0	0.0
16656	63.494	63.444	-0.110	0.0	0.0	0.0
16680	63.494	63.444	-0.110	0.0	0.0	0.0
16704	63.494	63.444	-0.110	0.0	0.0	0.0
16728	63.494	63.444	-0.110	0.0	0.0	0.0
16752	63.494	63.444	-0.110	0.0	0.0	0.0
16776	63.494	63.444	-0.110	0.0	0.0	0.0
16800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.494	63.444	-0.110	0.0	0.0	0.0
16848	63.494	63.444	-0.110	0.0	0.0	0.0
16872	63.494	63.444	-0.110	0.0	0.0	0.0
16896	63.494	63.444	-0.110	0.0	0.0	0.0
16920	63.494	63.444	-0.110	0.0	0.0	0.0
16944	63.494	63.444	-0.110	0.0	0.0	0.0
16968	63.494	63.444	-0.110	0.0	0.0	0.0
16992	63.494	63.444	-0.110	0.0	0.0	0.0
17016	63.494	63.444	-0.110	0.0	0.0	0.0
17040	63.494	63.444	-0.110	0.0	0.0	0.0
17064	63.494	63.444	-0.110	0.0	0.0	0.0
17088	63.494	63.444	-0.110	0.0	0.0	0.0
17112	63.494	63.444	-0.110	0.0	0.0	0.0
17136	63.494	63.444	-0.110	0.0	0.0	0.0
17160	63.494	63.444	-0.110	0.0	0.0	0.0
17184	63.494	63.444	-0.110	0.0	0.0	0.0
17208	63.494	63.444	-0.110	0.0	0.0	0.0
17232	63.494	63.444	-0.110	0.0	0.0	0.0
17256	63.494	63.444	-0.110	0.0	0.0	0.0
17280	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.1	0.0
2904	65.400	65.000	-0.110	0.0	0.1	0.0
2928	65.400	65.000	-0.110	0.0	0.1	0.0
2952	65.400	65.000	-0.110	0.0	0.1	0.0
2976	65.400	65.000	-0.110	0.0	0.1	0.0
3000	65.400	65.000	-0.110	0.0	0.1	0.0
3024	65.400	65.000	-0.110	0.0	0.1	0.0
3048	65.400	65.001	-0.110	0.0	0.1	0.0
3072	65.400	65.001	-0.110	0.0	0.1	0.0
3096	65.400	65.001	-0.110	0.0	0.1	0.0
3120	65.400	65.001	-0.110	0.0	0.1	0.0
3144	65.400	65.001	-0.110	0.0	0.1	0.0
3168	65.400	65.001	-0.110	0.0	0.1	0.0
3192	65.400	65.001	-0.110	0.0	0.1	0.0
3216	65.400	65.001	-0.110	0.0	0.1	0.0
3240	65.400	65.001	-0.110	0.0	0.1	0.0
3264	65.400	65.001	-0.110	0.0	0.1	0.0
3288	65.400	65.001	-0.110	0.0	0.1	0.0
3312	65.401	65.001	-0.109	0.0	0.1	0.0
3336	65.401	65.001	-0.109	0.0	0.1	0.0
3360	65.401	65.001	-0.109	0.0	0.1	0.0
3384	65.401	65.001	-0.109	0.0	0.1	0.0
3408	65.401	65.001	-0.109	0.0	0.1	0.0
3432	65.401	65.001	-0.109	0.0	0.1	0.0
3456	65.401	65.001	-0.109	0.0	0.1	0.0
3480	65.401	65.001	-0.109	0.0	0.1	0.0
3504	65.401	65.001	-0.109	0.0	0.1	0.0
3528	65.401	65.001	-0.109	0.0	0.1	0.0
3552	65.401	65.001	-0.109	0.0	0.1	0.0
3576	65.401	65.001	-0.109	0.0	0.1	0.0
3600	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	65.001	-0.109	0.0	0.1	0.0
3648	65.401	65.001	-0.109	0.0	0.1	0.0
3672	65.401	65.001	-0.109	0.0	0.1	0.0
3696	65.401	65.001	-0.109	0.0	0.1	0.0
3720	65.401	65.001	-0.109	0.0	0.1	0.0
3744	65.401	65.001	-0.109	0.0	0.1	0.0
3768	65.401	65.001	-0.109	0.0	0.1	0.0
3792	65.401	65.001	-0.109	0.0	0.1	0.0
3816	65.401	65.001	-0.109	0.0	0.2	0.0
3840	65.401	65.001	-0.109	0.0	0.2	0.0
3864	65.401	65.001	-0.109	0.0	0.2	0.0
3888	65.401	65.001	-0.109	0.0	0.2	0.0
3912	65.401	65.001	-0.109	0.0	0.2	0.0
3936	65.401	65.001	-0.109	0.0	0.2	0.0
3960	65.401	65.001	-0.109	0.0	0.2	0.0
3984	65.401	65.002	-0.109	0.0	0.2	0.0
4008	65.401	65.002	-0.109	0.0	0.2	0.0
4032	65.401	65.002	-0.109	0.0	0.2	0.0
4056	65.401	65.002	-0.109	0.0	0.2	0.0
4080	65.401	65.002	-0.109	0.0	0.2	0.0
4104	65.401	65.002	-0.109	0.0	0.2	0.0
4128	65.401	65.002	-0.109	0.0	0.2	0.0
4152	65.401	65.002	-0.109	0.0	0.2	0.1
4176	65.401	65.002	-0.109	0.0	0.2	0.1
4200	65.401	65.002	-0.109	0.0	0.2	0.1
4224	65.401	65.002	-0.109	0.0	0.2	0.1
4248	65.401	65.002	-0.109	0.0	0.2	0.1
4272	65.401	65.002	-0.109	0.0	0.2	0.1
4296	65.401	65.002	-0.109	0.0	0.2	0.1
4320	65.401	65.002	-0.109	0.0	0.2	0.1
4344	65.401	65.002	-0.109	0.0	0.2	0.1
4368	65.401	65.002	-0.109	0.0	0.2	0.1
4392	65.401	65.002	-0.109	0.0	0.2	0.1
4416	65.401	65.002	-0.109	0.0	0.2	0.1
4440	65.401	65.002	-0.109	0.0	0.2	0.1
4464	65.401	65.002	-0.109	0.0	0.2	0.1
4488	65.401	65.002	-0.109	0.0	0.2	0.1
4512	65.401	65.002	-0.109	0.0	0.2	0.1
4536	65.401	65.002	-0.109	0.0	0.2	0.0
4560	65.401	65.002	-0.109	0.0	0.2	0.0
4584	65.401	65.002	-0.109	0.0	0.2	0.0
4608	65.401	65.002	-0.109	0.0	0.2	0.0
4632	65.401	65.002	-0.109	0.0	0.2	0.0
4656	65.401	65.002	-0.109	0.0	0.2	0.0
4680	65.401	65.002	-0.109	0.0	0.2	0.0
4704	65.401	65.001	-0.109	0.0	0.2	0.0
4728	65.401	65.001	-0.109	0.0	0.2	0.0
4752	65.401	65.001	-0.109	0.0	0.2	0.0
4776	65.401	65.001	-0.109	0.0	0.2	0.0
4800	65.401	65.001	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	65.001	-0.109	0.0	0.2	0.0
4848	65.401	65.001	-0.109	0.0	0.2	0.0
4872	65.401	65.001	-0.109	0.0	0.1	0.0
4896	65.401	65.001	-0.109	0.0	0.1	0.0
4920	65.401	65.001	-0.109	0.0	0.1	0.0
4944	65.401	65.001	-0.109	0.0	0.1	0.0
4968	65.401	65.001	-0.109	0.0	0.1	0.0
4992	65.401	65.001	-0.109	0.0	0.1	0.0
5016	65.401	65.001	-0.109	0.0	0.1	0.0
5040	65.401	65.001	-0.109	0.0	0.1	0.0
5064	65.401	65.001	-0.109	0.0	0.1	0.0
5088	65.401	65.001	-0.109	0.0	0.1	0.0
5112	65.401	65.001	-0.109	0.0	0.1	0.0
5136	65.401	65.001	-0.109	0.0	0.1	0.0
5160	65.401	65.001	-0.109	0.0	0.1	0.0
5184	65.401	65.001	-0.109	0.0	0.1	0.0
5208	65.401	65.001	-0.109	0.0	0.1	0.0
5232	65.401	65.001	-0.109	0.0	0.1	0.0
5256	65.401	65.001	-0.109	0.0	0.1	0.0
5280	65.401	65.001	-0.109	0.0	0.1	0.0
5304	65.401	65.001	-0.109	0.0	0.1	0.0
5328	65.401	65.001	-0.109	0.0	0.1	0.0
5352	65.401	65.001	-0.109	0.0	0.1	0.0
5376	65.400	65.001	-0.110	0.0	0.1	0.0
5400	65.400	65.001	-0.110	0.0	0.1	0.0
5424	65.400	65.001	-0.110	0.0	0.1	0.0
5448	65.400	65.001	-0.110	0.0	0.1	0.0
5472	65.400	65.001	-0.110	0.0	0.1	0.0
5496	65.400	65.001	-0.110	0.0	0.1	0.0
5520	65.400	65.001	-0.110	0.0	0.1	0.0
5544	65.400	65.001	-0.110	0.0	0.1	0.0
5568	65.400	65.001	-0.110	0.0	0.1	0.0
5592	65.400	65.001	-0.110	0.0	0.1	0.0
5616	65.400	65.001	-0.110	0.0	0.1	0.0
5640	65.400	65.000	-0.110	0.0	0.1	0.0
5664	65.400	65.000	-0.110	0.0	0.1	0.0
5688	65.400	65.000	-0.110	0.0	0.1	0.0
5712	65.400	65.000	-0.110	0.0	0.1	0.0
5736	65.400	65.000	-0.110	0.0	0.1	0.0
5760	65.400	65.000	-0.110	0.0	0.1	0.0
5784	65.400	65.000	-0.110	0.0	0.1	0.0
5808	65.400	65.000	-0.110	0.0	0.0	0.0
5832	65.400	65.000	-0.110	0.0	0.0	0.0
5856	65.400	65.000	-0.110	0.0	0.0	0.0
5880	65.400	65.000	-0.110	0.0	0.0	0.0
5904	65.400	65.000	-0.110	0.0	0.0	0.0
5928	65.400	65.000	-0.110	0.0	0.0	0.0
5952	65.400	65.000	-0.110	0.0	0.0	0.0
5976	65.400	65.000	-0.110	0.0	0.0	0.0
6000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.000	-0.110	0.0	0.0	0.0
6048	65.400	65.000	-0.110	0.0	0.0	0.0
6072	65.400	65.000	-0.110	0.0	0.0	0.0
6096	65.400	65.000	-0.110	0.0	0.0	0.0
6120	65.400	65.000	-0.110	0.0	0.0	0.0
6144	65.400	65.000	-0.110	0.0	0.0	0.0
6168	65.400	65.000	-0.110	0.0	0.0	0.0
6192	65.400	65.000	-0.110	0.0	0.0	0.0
6216	65.400	65.000	-0.110	0.0	0.0	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	65.000	-0.110	0.0	0.0	0.0
14448	65.400	65.000	-0.110	0.0	0.0	0.0
14472	65.400	65.000	-0.110	0.0	0.0	0.0
14496	65.400	65.000	-0.110	0.0	0.0	0.0
14520	65.400	65.000	-0.110	0.0	0.0	0.0
14544	65.400	65.000	-0.110	0.0	0.0	0.0
14568	65.400	65.000	-0.110	0.0	0.0	0.0
14592	65.400	65.000	-0.110	0.0	0.0	0.0
14616	65.400	65.000	-0.110	0.0	0.0	0.0
14640	65.400	65.000	-0.110	0.0	0.0	0.0
14664	65.400	65.000	-0.110	0.0	0.0	0.0
14688	65.400	65.000	-0.110	0.0	0.0	0.0
14712	65.400	65.000	-0.110	0.0	0.0	0.0
14736	65.400	65.000	-0.110	0.0	0.0	0.0
14760	65.400	65.000	-0.110	0.0	0.0	0.0
14784	65.400	65.000	-0.110	0.0	0.0	0.0
14808	65.400	65.000	-0.110	0.0	0.0	0.0
14832	65.400	65.000	-0.110	0.0	0.0	0.0
14856	65.400	65.000	-0.110	0.0	0.0	0.0
14880	65.400	65.000	-0.110	0.0	0.0	0.0
14904	65.400	65.000	-0.110	0.0	0.0	0.0
14928	65.400	65.000	-0.110	0.0	0.0	0.0
14952	65.400	65.000	-0.110	0.0	0.0	0.0
14976	65.400	65.000	-0.110	0.0	0.0	0.0
15000	65.400	65.000	-0.110	0.0	0.0	0.0
15024	65.400	65.000	-0.110	0.0	0.0	0.0
15048	65.400	65.000	-0.110	0.0	0.0	0.0
15072	65.400	65.000	-0.110	0.0	0.0	0.0
15096	65.400	65.000	-0.110	0.0	0.0	0.0
15120	65.400	65.000	-0.110	0.0	0.0	0.0
15144	65.400	65.000	-0.110	0.0	0.0	0.0
15168	65.400	65.000	-0.110	0.0	0.0	0.0
15192	65.400	65.000	-0.110	0.0	0.0	0.0
15216	65.400	65.000	-0.110	0.0	0.0	0.0
15240	65.400	65.000	-0.110	0.0	0.0	0.0
15264	65.400	65.000	-0.110	0.0	0.0	0.0
15288	65.400	65.000	-0.110	0.0	0.0	0.0
15312	65.400	65.000	-0.110	0.0	0.0	0.0
15336	65.400	65.000	-0.110	0.0	0.0	0.0
15360	65.400	65.000	-0.110	0.0	0.0	0.0
15384	65.400	65.000	-0.110	0.0	0.0	0.0
15408	65.400	65.000	-0.110	0.0	0.0	0.0
15432	65.400	65.000	-0.110	0.0	0.0	0.0
15456	65.400	65.000	-0.110	0.0	0.0	0.0
15480	65.400	65.000	-0.110	0.0	0.0	0.0
15504	65.400	65.000	-0.110	0.0	0.0	0.0
15528	65.400	65.000	-0.110	0.0	0.0	0.0
15552	65.400	65.000	-0.110	0.0	0.0	0.0
15576	65.400	65.000	-0.110	0.0	0.0	0.0
15600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	65.000	-0.110	0.0	0.0	0.0
15648	65.400	65.000	-0.110	0.0	0.0	0.0
15672	65.400	65.000	-0.110	0.0	0.0	0.0
15696	65.400	65.000	-0.110	0.0	0.0	0.0
15720	65.400	65.000	-0.110	0.0	0.0	0.0
15744	65.400	65.000	-0.110	0.0	0.0	0.0
15768	65.400	65.000	-0.110	0.0	0.0	0.0
15792	65.400	65.000	-0.110	0.0	0.0	0.0
15816	65.400	65.000	-0.110	0.0	0.0	0.0
15840	65.400	65.000	-0.110	0.0	0.0	0.0
15864	65.400	65.000	-0.110	0.0	0.0	0.0
15888	65.400	65.000	-0.110	0.0	0.0	0.0
15912	65.400	65.000	-0.110	0.0	0.0	0.0
15936	65.400	65.000	-0.110	0.0	0.0	0.0
15960	65.400	65.000	-0.110	0.0	0.0	0.0
15984	65.400	65.000	-0.110	0.0	0.0	0.0
16008	65.400	65.000	-0.110	0.0	0.0	0.0
16032	65.400	65.000	-0.110	0.0	0.0	0.0
16056	65.400	65.000	-0.110	0.0	0.0	0.0
16080	65.400	65.000	-0.110	0.0	0.0	0.0
16104	65.400	65.000	-0.110	0.0	0.0	0.0
16128	65.400	65.000	-0.110	0.0	0.0	0.0
16152	65.400	65.000	-0.110	0.0	0.0	0.0
16176	65.400	65.000	-0.110	0.0	0.0	0.0
16200	65.400	65.000	-0.110	0.0	0.0	0.0
16224	65.400	65.000	-0.110	0.0	0.0	0.0
16248	65.400	65.000	-0.110	0.0	0.0	0.0
16272	65.400	65.000	-0.110	0.0	0.0	0.0
16296	65.400	65.000	-0.110	0.0	0.0	0.0
16320	65.400	65.000	-0.110	0.0	0.0	0.0
16344	65.400	65.000	-0.110	0.0	0.0	0.0
16368	65.400	65.000	-0.110	0.0	0.0	0.0
16392	65.400	65.000	-0.110	0.0	0.0	0.0
16416	65.400	65.000	-0.110	0.0	0.0	0.0
16440	65.400	65.000	-0.110	0.0	0.0	0.0
16464	65.400	65.000	-0.110	0.0	0.0	0.0
16488	65.400	65.000	-0.110	0.0	0.0	0.0
16512	65.400	65.000	-0.110	0.0	0.0	0.0
16536	65.400	65.000	-0.110	0.0	0.0	0.0
16560	65.400	65.000	-0.110	0.0	0.0	0.0
16584	65.400	65.000	-0.110	0.0	0.0	0.0
16608	65.400	65.000	-0.110	0.0	0.0	0.0
16632	65.400	65.000	-0.110	0.0	0.0	0.0
16656	65.400	65.000	-0.110	0.0	0.0	0.0
16680	65.400	65.000	-0.110	0.0	0.0	0.0
16704	65.400	65.000	-0.110	0.0	0.0	0.0
16728	65.400	65.000	-0.110	0.0	0.0	0.0
16752	65.400	65.000	-0.110	0.0	0.0	0.0
16776	65.400	65.000	-0.110	0.0	0.0	0.0
16800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	65.000	-0.110	0.0	0.0	0.0
16848	65.400	65.000	-0.110	0.0	0.0	0.0
16872	65.400	65.000	-0.110	0.0	0.0	0.0
16896	65.400	65.000	-0.110	0.0	0.0	0.0
16920	65.400	65.000	-0.110	0.0	0.0	0.0
16944	65.400	65.000	-0.110	0.0	0.0	0.0
16968	65.400	65.000	-0.110	0.0	0.0	0.0
16992	65.400	65.000	-0.110	0.0	0.0	0.0
17016	65.400	65.000	-0.110	0.0	0.0	0.0
17040	65.400	65.000	-0.110	0.0	0.0	0.0
17064	65.400	65.000	-0.110	0.0	0.0	0.0
17088	65.400	65.000	-0.110	0.0	0.0	0.0
17112	65.400	65.000	-0.110	0.0	0.0	0.0
17136	65.400	65.000	-0.110	0.0	0.0	0.0
17160	65.400	65.000	-0.110	0.0	0.0	0.0
17184	65.400	65.000	-0.110	0.0	0.0	0.0
17208	65.400	65.000	-0.110	0.0	0.0	0.0
17232	65.400	65.000	-0.110	0.0	0.0	0.0
17256	65.400	65.000	-0.110	0.0	0.0	0.0
17280	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.446	-0.110	0.0	0.0	0.0
48	65.000	63.446	-0.110	0.0	0.0	0.0
72	65.000	63.446	-0.110	0.0	0.0	0.0
96	65.000	63.446	-0.110	0.0	0.0	0.0
120	65.000	63.446	-0.110	0.0	0.0	0.0
144	65.000	63.446	-0.110	0.0	0.0	0.0
168	65.000	63.446	-0.110	0.0	0.0	0.0
192	65.000	63.446	-0.110	0.0	0.0	0.0
216	65.000	63.446	-0.110	0.0	0.0	0.0
240	65.000	63.446	-0.110	0.0	0.0	0.0
264	65.000	63.446	-0.110	0.0	0.0	0.0
288	65.000	63.446	-0.110	0.0	0.0	0.0
312	65.000	63.446	-0.110	0.0	0.0	0.0
336	65.000	63.446	-0.110	0.0	0.0	0.0
360	65.000	63.446	-0.110	0.0	0.0	0.0
384	65.000	63.446	-0.110	0.0	0.0	0.0
408	65.000	63.446	-0.110	0.0	0.0	0.0
432	65.000	63.446	-0.110	0.0	0.0	0.0
456	65.000	63.446	-0.110	0.0	0.0	0.0
480	65.000	63.446	-0.110	0.0	0.0	0.0
504	65.000	63.446	-0.110	0.0	0.0	0.0
528	65.000	63.446	-0.110	0.0	0.0	0.0
552	65.000	63.446	-0.110	0.0	0.0	0.0
576	65.000	63.446	-0.110	0.0	0.0	0.0
600	65.000	63.446	-0.110	0.0	0.0	0.0
624	65.000	63.446	-0.110	0.0	0.0	0.0
648	65.000	63.446	-0.110	0.0	0.0	0.0
672	65.000	63.446	-0.110	0.0	0.0	0.0
696	65.000	63.446	-0.110	0.0	0.0	0.0
720	65.000	63.446	-0.110	0.0	0.0	0.0
744	65.000	63.446	-0.110	0.0	0.0	0.0
768	65.000	63.446	-0.110	0.0	0.0	0.0
792	65.000	63.446	-0.110	0.0	0.0	0.0
816	65.000	63.446	-0.110	0.0	0.0	0.0
840	65.000	63.446	-0.110	0.0	0.0	0.0
864	65.000	63.446	-0.110	0.0	0.0	0.0
888	65.000	63.446	-0.110	0.0	0.0	0.0
912	65.000	63.446	-0.110	0.0	0.0	0.0
936	65.000	63.446	-0.110	0.0	0.0	0.0
960	65.000	63.446	-0.110	0.0	0.0	0.0
984	65.000	63.446	-0.110	0.0	0.0	0.0
1008	65.000	63.446	-0.110	0.0	0.0	0.0
1032	65.000	63.446	-0.110	0.0	0.0	0.0
1056	65.000	63.446	-0.110	0.0	0.0	0.0
1080	65.000	63.446	-0.110	0.0	0.0	0.0
1104	65.000	63.446	-0.110	0.0	0.0	0.0
1128	65.000	63.446	-0.110	0.0	0.0	0.0
1152	65.000	63.446	-0.110	0.0	0.0	0.0
1176	65.000	63.446	-0.110	0.0	0.0	0.0
1200	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.446	-0.110	0.0	0.0	0.0
1248	65.000	63.446	-0.110	0.0	0.0	0.0
1272	65.000	63.446	-0.110	0.0	0.0	0.0
1296	65.000	63.446	-0.110	0.0	0.0	0.0
1320	65.000	63.446	-0.110	0.0	0.1	0.0
1344	65.000	63.446	-0.110	0.0	0.1	0.0
1368	65.000	63.446	-0.110	0.0	0.1	0.0
1392	65.000	63.446	-0.110	0.0	0.1	0.0
1416	65.000	63.446	-0.110	0.0	0.1	0.0
1440	65.000	63.446	-0.110	0.0	0.1	0.0
1464	65.000	63.446	-0.110	0.0	0.1	0.0
1488	65.000	63.446	-0.110	0.0	0.1	0.0
1512	65.000	63.446	-0.110	0.0	0.1	0.0
1536	65.000	63.446	-0.110	0.0	0.1	0.0
1560	65.000	63.446	-0.110	0.0	0.1	0.0
1584	65.000	63.446	-0.110	0.0	0.1	0.0
1608	65.000	63.446	-0.110	0.0	0.1	0.0
1632	65.000	63.446	-0.110	0.0	0.1	0.0
1656	65.000	63.446	-0.110	0.0	0.1	0.0
1680	65.000	63.446	-0.110	0.0	0.1	0.0
1704	65.000	63.446	-0.110	0.0	0.1	0.0
1728	65.000	63.446	-0.110	0.0	0.1	0.0
1752	65.000	63.446	-0.110	0.0	0.1	0.0
1776	65.000	63.446	-0.110	0.0	0.1	0.0
1800	65.000	63.446	-0.110	0.0	0.1	0.0
1824	65.000	63.446	-0.110	0.0	0.1	0.0
1848	65.000	63.446	-0.110	0.0	0.1	0.0
1872	65.000	63.446	-0.110	0.0	0.1	0.0
1896	65.000	63.446	-0.110	0.0	0.1	0.0
1920	65.000	63.446	-0.110	0.0	0.1	0.0
1944	65.000	63.446	-0.110	0.0	0.1	0.0
1968	65.000	63.446	-0.110	0.0	0.1	0.0
1992	65.000	63.446	-0.110	0.0	0.1	0.0
2016	65.000	63.446	-0.110	0.0	0.1	0.0
2040	65.000	63.446	-0.110	0.0	0.1	0.0
2064	65.000	63.446	-0.110	0.0	0.1	0.0
2088	65.000	63.446	-0.110	0.0	0.1	0.0
2112	65.000	63.446	-0.110	0.0	0.1	0.0
2136	65.000	63.446	-0.110	0.0	0.1	0.0
2160	65.000	63.446	-0.110	0.0	0.1	0.0
2184	65.000	63.446	-0.110	0.0	0.1	0.0
2208	65.000	63.446	-0.110	0.0	0.1	0.0
2232	65.000	63.446	-0.110	0.0	0.1	0.0
2256	65.000	63.447	-0.110	0.0	0.1	0.0
2280	65.000	63.447	-0.110	0.0	0.1	0.0
2304	65.000	63.447	-0.110	0.0	0.1	0.0
2328	65.000	63.447	-0.110	0.0	0.1	0.0
2352	65.000	63.447	-0.110	0.0	0.1	0.0
2376	65.000	63.447	-0.110	0.0	0.1	0.0
2400	65.000	63.447	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.447	-0.110	0.0	0.1	0.0
2448	65.000	63.447	-0.110	0.0	0.1	0.0
2472	65.000	63.447	-0.110	0.0	0.1	0.0
2496	65.000	63.447	-0.110	0.0	0.1	0.0
2520	65.000	63.447	-0.110	0.0	0.1	0.0
2544	65.000	63.447	-0.110	0.0	0.1	0.0
2568	65.000	63.447	-0.110	0.0	0.1	0.0
2592	65.000	63.447	-0.110	0.0	0.1	0.0
2616	65.000	63.447	-0.110	0.0	0.1	0.0
2640	65.000	63.447	-0.110	0.0	0.1	0.0
2664	65.000	63.447	-0.110	0.0	0.1	0.0
2688	65.000	63.447	-0.110	0.0	0.1	0.0
2712	65.000	63.447	-0.110	0.0	0.1	0.0
2736	65.000	63.447	-0.110	0.0	0.1	0.0
2760	65.000	63.447	-0.110	0.0	0.1	0.0
2784	65.000	63.447	-0.110	0.0	0.1	0.0
2808	65.000	63.448	-0.110	0.0	0.1	0.0
2832	65.000	63.448	-0.110	0.0	0.1	0.0
2856	65.000	63.448	-0.110	0.0	0.1	0.0
2880	65.000	63.448	-0.110	0.0	0.1	0.0
2904	65.000	63.448	-0.110	0.0	0.1	0.0
2928	65.000	63.448	-0.110	0.0	0.1	0.0
2952	65.000	63.448	-0.110	0.0	0.1	0.0
2976	65.000	63.448	-0.110	0.0	0.1	0.0
3000	65.000	63.448	-0.110	0.0	0.1	0.0
3024	65.000	63.448	-0.110	0.0	0.1	0.0
3048	65.001	63.448	-0.109	0.0	0.1	0.0
3072	65.001	63.448	-0.109	0.0	0.1	0.0
3096	65.001	63.448	-0.109	0.0	0.1	0.0
3120	65.001	63.449	-0.109	0.0	0.1	0.0
3144	65.001	63.449	-0.109	0.0	0.1	0.0
3168	65.001	63.449	-0.109	0.0	0.1	0.0
3192	65.001	63.449	-0.109	0.0	0.1	0.0
3216	65.001	63.449	-0.109	0.0	0.1	0.0
3240	65.001	63.450	-0.109	0.0	0.2	0.0
3264	65.001	63.450	-0.109	0.0	0.2	0.0
3288	65.001	63.450	-0.109	0.0	0.2	0.0
3312	65.001	63.450	-0.109	0.0	0.2	0.0
3336	65.001	63.450	-0.109	0.0	0.2	0.0
3360	65.001	63.450	-0.109	0.0	0.2	0.0
3384	65.001	63.451	-0.109	0.0	0.2	0.0
3408	65.001	63.451	-0.109	0.0	0.2	0.0
3432	65.001	63.451	-0.109	0.0	0.2	0.0
3456	65.001	63.451	-0.109	0.0	0.2	0.0
3480	65.001	63.452	-0.109	0.0	0.2	0.1
3504	65.001	63.452	-0.109	0.0	0.2	0.1
3528	65.001	63.452	-0.109	0.0	0.2	0.1
3552	65.001	63.452	-0.109	0.0	0.2	0.1
3576	65.001	63.452	-0.109	0.0	0.2	0.1
3600	65.001	63.452	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.001	63.452	-0.109	0.0	0.2	0.1
3648	65.001	63.453	-0.109	0.0	0.3	0.1
3672	65.001	63.453	-0.109	0.0	0.3	0.1
3696	65.001	63.453	-0.109	0.0	0.3	0.1
3720	65.001	63.453	-0.109	0.0	0.3	0.1
3744	65.001	63.454	-0.109	0.0	0.3	0.1
3768	65.001	63.454	-0.109	0.0	0.3	0.1
3792	65.001	63.454	-0.109	0.0	0.3	0.1
3816	65.001	63.455	-0.109	0.0	0.3	0.1
3840	65.001	63.455	-0.109	0.0	0.3	0.1
3864	65.001	63.455	-0.109	0.0	0.3	0.1
3888	65.001	63.455	-0.109	0.0	0.3	0.1
3912	65.001	63.455	-0.109	0.0	0.3	0.1
3936	65.001	63.455	-0.109	0.0	0.3	0.1
3960	65.001	63.455	-0.109	0.0	0.3	0.1
3984	65.002	63.456	-0.108	0.0	0.4	0.1
4008	65.002	63.456	-0.108	0.0	0.4	0.1
4032	65.002	63.456	-0.108	0.0	0.4	0.1
4056	65.002	63.456	-0.108	0.0	0.4	0.1
4080	65.002	63.456	-0.108	0.0	0.4	0.1
4104	65.002	63.456	-0.108	0.0	0.4	0.1
4128	65.002	63.456	-0.108	0.0	0.4	0.1
4152	65.002	63.456	-0.108	0.0	0.4	0.1
4176	65.002	63.457	-0.108	0.0	0.4	0.1
4200	65.002	63.457	-0.108	0.0	0.4	0.1
4224	65.002	63.457	-0.108	0.0	0.4	0.1
4248	65.002	63.457	-0.108	0.0	0.5	0.1
4272	65.002	63.457	-0.108	0.0	0.5	0.1
4296	65.002	63.457	-0.108	0.0	0.5	0.1
4320	65.002	63.457	-0.108	0.0	0.5	0.1
4344	65.002	63.457	-0.108	0.0	0.5	0.1
4368	65.002	63.457	-0.108	0.0	0.5	0.1
4392	65.002	63.457	-0.108	0.0	0.5	0.1
4416	65.002	63.457	-0.108	0.0	0.5	0.1
4440	65.002	63.457	-0.108	0.0	0.4	0.1
4464	65.002	63.458	-0.108	0.0	0.4	0.1
4488	65.002	63.460	-0.108	0.0	0.4	0.1
4512	65.002	63.463	-0.108	0.0	0.4	0.1
4536	65.002	63.467	-0.108	0.0	0.4	0.1
4560	65.002	63.472	-0.108	0.0	0.4	0.1
4584	65.002	63.477	-0.108	0.0	0.4	0.1
4608	65.002	63.481	-0.108	0.0	0.4	0.1
4632	65.002	63.485	-0.108	0.0	0.4	0.1
4656	65.002	63.489	-0.108	0.0	0.4	0.1
4680	65.002	63.493	-0.108	0.0	0.4	0.1
4704	65.001	63.496	-0.109	0.0	0.3	0.1
4728	65.001	63.500	-0.109	0.0	0.3	0.1
4752	65.001	63.503	-0.109	0.0	0.3	0.1
4776	65.001	63.506	-0.109	0.0	0.3	0.1
4800	65.001	63.509	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.001	63.512	-0.109	0.0	0.3	0.1
4848	65.001	63.514	-0.109	0.0	0.3	0.1
4872	65.001	63.517	-0.109	0.0	0.3	0.1
4896	65.001	63.519	-0.109	0.0	0.3	0.1
4920	65.001	63.521	-0.109	0.0	0.3	0.1
4944	65.001	63.523	-0.109	0.0	0.3	0.1
4968	65.001	63.525	-0.109	0.0	0.3	0.1
4992	65.001	63.526	-0.109	0.0	0.3	0.1
5016	65.001	63.528	-0.109	0.0	0.3	0.1
5040	65.001	63.529	-0.109	0.0	0.2	0.1
5064	65.001	63.531	-0.109	0.0	0.2	0.1
5088	65.001	63.532	-0.109	0.0	0.2	0.1
5112	65.001	63.533	-0.109	0.0	0.2	0.1
5136	65.001	63.534	-0.109	0.0	0.2	0.1
5160	65.001	63.534	-0.109	0.0	0.2	0.1
5184	65.001	63.535	-0.109	0.0	0.2	0.1
5208	65.001	63.536	-0.109	0.0	0.2	0.0
5232	65.001	63.536	-0.109	0.0	0.2	0.0
5256	65.001	63.536	-0.109	0.0	0.2	0.0
5280	65.001	63.537	-0.109	0.0	0.2	0.0
5304	65.001	63.537	-0.109	0.0	0.2	0.0
5328	65.001	63.537	-0.109	0.0	0.2	0.0
5352	65.001	63.536	-0.109	0.0	0.2	0.0
5376	65.001	63.536	-0.109	0.0	0.2	0.0
5400	65.001	63.536	-0.109	0.0	0.2	0.0
5424	65.001	63.535	-0.109	0.0	0.2	0.0
5448	65.001	63.535	-0.109	0.0	0.2	0.0
5472	65.001	63.534	-0.109	0.0	0.1	0.0
5496	65.001	63.534	-0.109	0.0	0.1	0.0
5520	65.001	63.533	-0.109	0.0	0.1	0.0
5544	65.001	63.532	-0.109	0.0	0.1	0.0
5568	65.001	63.531	-0.109	0.0	0.1	0.0
5592	65.001	63.530	-0.109	0.0	0.1	0.0
5616	65.001	63.529	-0.109	0.0	0.1	0.0
5640	65.000	63.528	-0.110	0.0	0.1	0.0
5664	65.000	63.527	-0.110	0.0	0.1	0.0
5688	65.000	63.526	-0.110	0.0	0.1	0.0
5712	65.000	63.525	-0.110	0.0	0.1	0.0
5736	65.000	63.523	-0.110	0.0	0.1	0.0
5760	65.000	63.522	-0.110	0.0	0.1	0.0
5784	65.000	63.521	-0.110	0.0	0.1	0.0
5808	65.000	63.519	-0.110	0.0	0.1	0.0
5832	65.000	63.518	-0.110	0.0	0.1	0.0
5856	65.000	63.517	-0.110	0.0	0.1	0.0
5880	65.000	63.515	-0.110	0.0	0.1	0.0
5904	65.000	63.514	-0.110	0.0	0.1	0.0
5928	65.000	63.512	-0.110	0.0	0.1	0.0
5952	65.000	63.510	-0.110	0.0	0.1	0.0
5976	65.000	63.509	-0.110	0.0	0.1	0.0
6000	65.000	63.507	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.000	63.505	-0.110	0.0	0.1	0.0
6048	65.000	63.504	-0.110	0.0	0.1	0.0
6072	65.000	63.502	-0.110	0.0	0.1	0.0
6096	65.000	63.500	-0.110	0.0	0.1	0.0
6120	65.000	63.498	-0.110	0.0	0.1	0.0
6144	65.000	63.497	-0.110	0.0	0.1	0.0
6168	65.000	63.495	-0.110	0.0	0.1	0.0
6192	65.000	63.493	-0.110	0.0	0.1	0.0
6216	65.000	63.491	-0.110	0.0	0.1	0.0
6240	65.000	63.489	-0.110	0.0	0.1	0.0
6264	65.000	63.487	-0.110	0.0	0.1	0.0
6288	65.000	63.485	-0.110	0.0	0.1	0.0
6312	65.000	63.483	-0.110	0.0	0.1	0.0
6336	65.000	63.481	-0.110	0.0	0.1	0.0
6360	65.000	63.480	-0.110	0.0	0.1	0.0
6384	65.000	63.478	-0.110	0.0	0.1	0.0
6408	65.000	63.476	-0.110	0.0	0.1	0.0
6432	65.000	63.474	-0.110	0.0	0.1	0.0
6456	65.000	63.472	-0.110	0.0	0.1	0.0
6480	65.000	63.470	-0.110	0.0	0.1	0.0
6504	65.000	63.468	-0.110	0.0	0.1	0.0
6528	65.000	63.466	-0.110	0.0	0.1	0.0
6552	65.000	63.464	-0.110	0.0	0.1	0.0
6576	65.000	63.462	-0.110	0.0	0.1	0.0
6600	65.000	63.460	-0.110	0.0	0.1	0.0
6624	65.000	63.458	-0.110	0.0	0.1	0.0
6648	65.000	63.456	-0.110	0.0	0.1	0.0
6672	65.000	63.455	-0.110	0.0	0.1	0.0
6696	65.000	63.451	-0.110	0.0	0.1	0.0
6720	65.000	63.451	-0.110	0.0	0.1	0.0
6744	65.000	63.449	-0.110	0.0	0.1	0.0
6768	65.000	63.448	-0.110	0.0	0.1	0.0
6792	65.000	63.448	-0.110	0.0	0.1	0.0
6816	65.000	63.447	-0.110	0.0	0.1	0.0
6840	65.000	63.447	-0.110	0.0	0.1	0.0
6864	65.000	63.446	-0.110	0.0	0.1	0.0
6888	65.000	63.446	-0.110	0.0	0.1	0.0
6912	65.000	63.446	-0.110	0.0	0.1	0.0
6936	65.000	63.446	-0.110	0.0	0.1	0.0
6960	65.000	63.446	-0.110	0.0	0.1	0.0
6984	65.000	63.446	-0.110	0.0	0.1	0.0
7008	65.000	63.446	-0.110	0.0	0.1	0.0
7032	65.000	63.446	-0.110	0.0	0.1	0.0
7056	65.000	63.446	-0.110	0.0	0.1	0.0
7080	65.000	63.446	-0.110	0.0	0.1	0.0
7104	65.000	63.446	-0.110	0.0	0.1	0.0
7128	65.000	63.446	-0.110	0.0	0.1	0.0
7152	65.000	63.446	-0.110	0.0	0.1	0.0
7176	65.000	63.446	-0.110	0.0	0.1	0.0
7200	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.446	-0.110	0.0	0.1	0.0
7248	65.000	63.446	-0.110	0.0	0.1	0.0
7272	65.000	63.446	-0.110	0.0	0.1	0.0
7296	65.000	63.446	-0.110	0.0	0.1	0.0
7320	65.000	63.446	-0.110	0.0	0.1	0.0
7344	65.000	63.446	-0.110	0.0	0.1	0.0
7368	65.000	63.446	-0.110	0.0	0.0	0.0
7392	65.000	63.446	-0.110	0.0	0.0	0.0
7416	65.000	63.446	-0.110	0.0	0.0	0.0
7440	65.000	63.446	-0.110	0.0	0.0	0.0
7464	65.000	63.446	-0.110	0.0	0.0	0.0
7488	65.000	63.446	-0.110	0.0	0.0	0.0
7512	65.000	63.446	-0.110	0.0	0.0	0.0
7536	65.000	63.446	-0.110	0.0	0.0	0.0
7560	65.000	63.446	-0.110	0.0	0.0	0.0
7584	65.000	63.446	-0.110	0.0	0.0	0.0
7608	65.000	63.446	-0.110	0.0	0.0	0.0
7632	65.000	63.446	-0.110	0.0	0.0	0.0
7656	65.000	63.446	-0.110	0.0	0.0	0.0
7680	65.000	63.446	-0.110	0.0	0.0	0.0
7704	65.000	63.446	-0.110	0.0	0.0	0.0
7728	65.000	63.446	-0.110	0.0	0.0	0.0
7752	65.000	63.446	-0.110	0.0	0.0	0.0
7776	65.000	63.446	-0.110	0.0	0.0	0.0
7800	65.000	63.446	-0.110	0.0	0.0	0.0
7824	65.000	63.446	-0.110	0.0	0.0	0.0
7848	65.000	63.446	-0.110	0.0	0.0	0.0
7872	65.000	63.446	-0.110	0.0	0.0	0.0
7896	65.000	63.446	-0.110	0.0	0.0	0.0
7920	65.000	63.446	-0.110	0.0	0.0	0.0
7944	65.000	63.446	-0.110	0.0	0.0	0.0
7968	65.000	63.446	-0.110	0.0	0.0	0.0
7992	65.000	63.446	-0.110	0.0	0.0	0.0
8016	65.000	63.446	-0.110	0.0	0.0	0.0
8040	65.000	63.446	-0.110	0.0	0.0	0.0
8064	65.000	63.446	-0.110	0.0	0.0	0.0
8088	65.000	63.446	-0.110	0.0	0.0	0.0
8112	65.000	63.446	-0.110	0.0	0.0	0.0
8136	65.000	63.446	-0.110	0.0	0.0	0.0
8160	65.000	63.446	-0.110	0.0	0.0	0.0
8184	65.000	63.446	-0.110	0.0	0.0	0.0
8208	65.000	63.446	-0.110	0.0	0.0	0.0
8232	65.000	63.446	-0.110	0.0	0.0	0.0
8256	65.000	63.446	-0.110	0.0	0.0	0.0
8280	65.000	63.446	-0.110	0.0	0.0	0.0
8304	65.000	63.446	-0.110	0.0	0.0	0.0
8328	65.000	63.446	-0.110	0.0	0.0	0.0
8352	65.000	63.446	-0.110	0.0	0.0	0.0
8376	65.000	63.446	-0.110	0.0	0.0	0.0
8400	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.446	-0.110	0.0	0.0	0.0
8448	65.000	63.446	-0.110	0.0	0.0	0.0
8472	65.000	63.446	-0.110	0.0	0.0	0.0
8496	65.000	63.446	-0.110	0.0	0.0	0.0
8520	65.000	63.446	-0.110	0.0	0.0	0.0
8544	65.000	63.446	-0.110	0.0	0.0	0.0
8568	65.000	63.446	-0.110	0.0	0.0	0.0
8592	65.000	63.446	-0.110	0.0	0.0	0.0
8616	65.000	63.446	-0.110	0.0	0.0	0.0
8640	65.000	63.446	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.000	63.444	-0.110	0.0	0.0	0.0
14448	65.000	63.444	-0.110	0.0	0.0	0.0
14472	65.000	63.444	-0.110	0.0	0.0	0.0
14496	65.000	63.444	-0.110	0.0	0.0	0.0
14520	65.000	63.444	-0.110	0.0	0.0	0.0
14544	65.000	63.444	-0.110	0.0	0.0	0.0
14568	65.000	63.444	-0.110	0.0	0.0	0.0
14592	65.000	63.444	-0.110	0.0	0.0	0.0
14616	65.000	63.444	-0.110	0.0	0.0	0.0
14640	65.000	63.444	-0.110	0.0	0.0	0.0
14664	65.000	63.444	-0.110	0.0	0.0	0.0
14688	65.000	63.444	-0.110	0.0	0.0	0.0
14712	65.000	63.444	-0.110	0.0	0.0	0.0
14736	65.000	63.444	-0.110	0.0	0.0	0.0
14760	65.000	63.444	-0.110	0.0	0.0	0.0
14784	65.000	63.444	-0.110	0.0	0.0	0.0
14808	65.000	63.444	-0.110	0.0	0.0	0.0
14832	65.000	63.444	-0.110	0.0	0.0	0.0
14856	65.000	63.444	-0.110	0.0	0.0	0.0
14880	65.000	63.444	-0.110	0.0	0.0	0.0
14904	65.000	63.444	-0.110	0.0	0.0	0.0
14928	65.000	63.444	-0.110	0.0	0.0	0.0
14952	65.000	63.444	-0.110	0.0	0.0	0.0
14976	65.000	63.444	-0.110	0.0	0.0	0.0
15000	65.000	63.444	-0.110	0.0	0.0	0.0
15024	65.000	63.444	-0.110	0.0	0.0	0.0
15048	65.000	63.444	-0.110	0.0	0.0	0.0
15072	65.000	63.444	-0.110	0.0	0.0	0.0
15096	65.000	63.444	-0.110	0.0	0.0	0.0
15120	65.000	63.444	-0.110	0.0	0.0	0.0
15144	65.000	63.444	-0.110	0.0	0.0	0.0
15168	65.000	63.444	-0.110	0.0	0.0	0.0
15192	65.000	63.444	-0.110	0.0	0.0	0.0
15216	65.000	63.444	-0.110	0.0	0.0	0.0
15240	65.000	63.444	-0.110	0.0	0.0	0.0
15264	65.000	63.444	-0.110	0.0	0.0	0.0
15288	65.000	63.444	-0.110	0.0	0.0	0.0
15312	65.000	63.444	-0.110	0.0	0.0	0.0
15336	65.000	63.444	-0.110	0.0	0.0	0.0
15360	65.000	63.444	-0.110	0.0	0.0	0.0
15384	65.000	63.444	-0.110	0.0	0.0	0.0
15408	65.000	63.444	-0.110	0.0	0.0	0.0
15432	65.000	63.444	-0.110	0.0	0.0	0.0
15456	65.000	63.444	-0.110	0.0	0.0	0.0
15480	65.000	63.444	-0.110	0.0	0.0	0.0
15504	65.000	63.444	-0.110	0.0	0.0	0.0
15528	65.000	63.444	-0.110	0.0	0.0	0.0
15552	65.000	63.444	-0.110	0.0	0.0	0.0
15576	65.000	63.444	-0.110	0.0	0.0	0.0
15600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.000	63.444	-0.110	0.0	0.0	0.0
15648	65.000	63.444	-0.110	0.0	0.0	0.0
15672	65.000	63.444	-0.110	0.0	0.0	0.0
15696	65.000	63.444	-0.110	0.0	0.0	0.0
15720	65.000	63.444	-0.110	0.0	0.0	0.0
15744	65.000	63.444	-0.110	0.0	0.0	0.0
15768	65.000	63.444	-0.110	0.0	0.0	0.0
15792	65.000	63.444	-0.110	0.0	0.0	0.0
15816	65.000	63.444	-0.110	0.0	0.0	0.0
15840	65.000	63.444	-0.110	0.0	0.0	0.0
15864	65.000	63.444	-0.110	0.0	0.0	0.0
15888	65.000	63.444	-0.110	0.0	0.0	0.0
15912	65.000	63.444	-0.110	0.0	0.0	0.0
15936	65.000	63.444	-0.110	0.0	0.0	0.0
15960	65.000	63.444	-0.110	0.0	0.0	0.0
15984	65.000	63.444	-0.110	0.0	0.0	0.0
16008	65.000	63.444	-0.110	0.0	0.0	0.0
16032	65.000	63.444	-0.110	0.0	0.0	0.0
16056	65.000	63.444	-0.110	0.0	0.0	0.0
16080	65.000	63.444	-0.110	0.0	0.0	0.0
16104	65.000	63.444	-0.110	0.0	0.0	0.0
16128	65.000	63.444	-0.110	0.0	0.0	0.0
16152	65.000	63.444	-0.110	0.0	0.0	0.0
16176	65.000	63.444	-0.110	0.0	0.0	0.0
16200	65.000	63.444	-0.110	0.0	0.0	0.0
16224	65.000	63.444	-0.110	0.0	0.0	0.0
16248	65.000	63.444	-0.110	0.0	0.0	0.0
16272	65.000	63.444	-0.110	0.0	0.0	0.0
16296	65.000	63.444	-0.110	0.0	0.0	0.0
16320	65.000	63.444	-0.110	0.0	0.0	0.0
16344	65.000	63.444	-0.110	0.0	0.0	0.0
16368	65.000	63.444	-0.110	0.0	0.0	0.0
16392	65.000	63.444	-0.110	0.0	0.0	0.0
16416	65.000	63.444	-0.110	0.0	0.0	0.0
16440	65.000	63.444	-0.110	0.0	0.0	0.0
16464	65.000	63.444	-0.110	0.0	0.0	0.0
16488	65.000	63.444	-0.110	0.0	0.0	0.0
16512	65.000	63.444	-0.110	0.0	0.0	0.0
16536	65.000	63.444	-0.110	0.0	0.0	0.0
16560	65.000	63.444	-0.110	0.0	0.0	0.0
16584	65.000	63.444	-0.110	0.0	0.0	0.0
16608	65.000	63.444	-0.110	0.0	0.0	0.0
16632	65.000	63.444	-0.110	0.0	0.0	0.0
16656	65.000	63.444	-0.110	0.0	0.0	0.0
16680	65.000	63.444	-0.110	0.0	0.0	0.0
16704	65.000	63.444	-0.110	0.0	0.0	0.0
16728	65.000	63.444	-0.110	0.0	0.0	0.0
16752	65.000	63.444	-0.110	0.0	0.0	0.0
16776	65.000	63.444	-0.110	0.0	0.0	0.0
16800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.000	63.444	-0.110	0.0	0.0	0.0
16848	65.000	63.444	-0.110	0.0	0.0	0.0
16872	65.000	63.444	-0.110	0.0	0.0	0.0
16896	65.000	63.444	-0.110	0.0	0.0	0.0
16920	65.000	63.444	-0.110	0.0	0.0	0.0
16944	65.000	63.444	-0.110	0.0	0.0	0.0
16968	65.000	63.444	-0.110	0.0	0.0	0.0
16992	65.000	63.444	-0.110	0.0	0.0	0.0
17016	65.000	63.444	-0.110	0.0	0.0	0.0
17040	65.000	63.444	-0.110	0.0	0.0	0.0
17064	65.000	63.444	-0.110	0.0	0.0	0.0
17088	65.000	63.444	-0.110	0.0	0.0	0.0
17112	65.000	63.444	-0.110	0.0	0.0	0.0
17136	65.000	63.444	-0.110	0.0	0.0	0.0
17160	65.000	63.444	-0.110	0.0	0.0	0.0
17184	65.000	63.444	-0.110	0.0	0.0	0.0
17208	65.000	63.444	-0.110	0.0	0.0	0.0
17232	65.000	63.444	-0.110	0.0	0.0	0.0
17256	65.000	63.444	-0.110	0.0	0.0	0.0
17280	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.446	63.251	-0.109	0.0	0.1	0.0
48	63.446	63.252	-0.109	0.0	0.1	0.0
72	63.446	63.252	-0.109	0.0	0.1	0.0
96	63.446	63.253	-0.109	0.0	0.1	0.0
120	63.446	63.254	-0.109	0.0	0.1	0.0
144	63.446	63.255	-0.109	0.0	0.1	0.0
168	63.446	63.255	-0.109	0.0	0.1	0.0
192	63.446	63.256	-0.109	0.0	0.1	0.0
216	63.446	63.257	-0.109	0.0	0.1	0.0
240	63.446	63.257	-0.109	0.0	0.1	0.0
264	63.446	63.258	-0.109	0.0	0.1	0.0
288	63.446	63.258	-0.109	0.0	0.1	0.0
312	63.446	63.258	-0.109	0.0	0.1	0.0
336	63.446	63.259	-0.109	0.0	0.1	0.0
360	63.446	63.259	-0.109	0.0	0.1	0.0
384	63.446	63.259	-0.109	0.0	0.1	0.0
408	63.446	63.259	-0.109	0.0	0.1	0.0
432	63.446	63.259	-0.109	0.0	0.1	0.0
456	63.446	63.260	-0.108	0.0	0.1	0.0
480	63.446	63.260	-0.108	0.0	0.1	0.0
504	63.446	63.260	-0.108	0.0	0.1	0.0
528	63.446	63.260	-0.108	0.0	0.1	0.0
552	63.446	63.260	-0.108	0.0	0.1	0.0
576	63.446	63.260	-0.108	0.0	0.1	0.0
600	63.446	63.260	-0.108	0.0	0.1	0.0
624	63.446	63.260	-0.108	0.0	0.1	0.0
648	63.446	63.260	-0.108	0.0	0.1	0.0
672	63.446	63.260	-0.108	0.0	0.1	0.0
696	63.446	63.260	-0.108	0.0	0.1	0.0
720	63.446	63.260	-0.108	0.0	0.1	0.0
744	63.446	63.260	-0.108	0.0	0.1	0.0
768	63.446	63.260	-0.108	0.0	0.1	0.0
792	63.446	63.260	-0.108	0.0	0.1	0.0
816	63.446	63.261	-0.108	0.0	0.1	0.0
840	63.446	63.261	-0.108	0.0	0.1	0.0
864	63.446	63.261	-0.108	0.0	0.1	0.0
888	63.446	63.261	-0.108	0.0	0.1	0.0
912	63.446	63.261	-0.108	0.0	0.1	0.0
936	63.446	63.261	-0.108	0.0	0.1	0.0
960	63.446	63.261	-0.108	0.0	0.1	0.0
984	63.446	63.261	-0.108	0.0	0.1	0.0
1008	63.446	63.261	-0.108	0.0	0.1	0.0
1032	63.446	63.261	-0.108	0.0	0.1	0.0
1056	63.446	63.261	-0.108	0.0	0.1	0.0
1080	63.446	63.261	-0.108	0.0	0.1	0.0
1104	63.446	63.261	-0.108	0.0	0.1	0.0
1128	63.446	63.261	-0.108	0.0	0.1	0.0
1152	63.446	63.261	-0.108	0.0	0.1	0.0
1176	63.446	63.261	-0.108	0.0	0.1	0.0
1200	63.446	63.261	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.446	63.261	-0.108	0.0	0.1	0.0
1248	63.446	63.261	-0.108	0.0	0.1	0.0
1272	63.446	63.261	-0.108	0.0	0.1	0.0
1296	63.446	63.261	-0.108	0.0	0.1	0.0
1320	63.446	63.261	-0.108	0.0	0.1	0.0
1344	63.446	63.261	-0.108	0.0	0.1	0.0
1368	63.446	63.261	-0.108	0.0	0.1	0.0
1392	63.446	63.261	-0.108	0.0	0.1	0.0
1416	63.446	63.261	-0.108	0.0	0.1	0.0
1440	63.446	63.261	-0.108	0.0	0.1	0.0
1464	63.446	63.262	-0.108	0.0	0.1	0.0
1488	63.446	63.262	-0.108	0.0	0.1	0.0
1512	63.446	63.262	-0.108	0.0	0.1	0.0
1536	63.446	63.262	-0.108	0.0	0.1	0.0
1560	63.446	63.262	-0.108	0.0	0.1	0.0
1584	63.446	63.262	-0.108	0.0	0.1	0.0
1608	63.446	63.262	-0.108	0.0	0.1	0.0
1632	63.446	63.262	-0.108	0.0	0.1	0.0
1656	63.446	63.262	-0.108	0.0	0.1	0.0
1680	63.446	63.262	-0.108	0.0	0.1	0.0
1704	63.446	63.262	-0.108	0.0	0.1	0.0
1728	63.446	63.262	-0.108	0.0	0.1	0.0
1752	63.446	63.262	-0.108	0.0	0.1	0.0
1776	63.446	63.262	-0.108	0.0	0.1	0.0
1800	63.446	63.262	-0.108	0.0	0.1	0.0
1824	63.446	63.262	-0.108	0.0	0.1	0.0
1848	63.446	63.262	-0.108	0.0	0.1	0.0
1872	63.446	63.263	-0.108	0.0	0.1	0.0
1896	63.446	63.263	-0.108	0.0	0.1	0.0
1920	63.446	63.263	-0.108	0.0	0.1	0.0
1944	63.446	63.263	-0.108	0.0	0.1	0.0
1968	63.446	63.263	-0.108	0.0	0.1	0.0
1992	63.446	63.263	-0.108	0.0	0.1	0.0
2016	63.446	63.263	-0.108	0.0	0.1	0.0
2040	63.446	63.263	-0.108	0.0	0.1	0.0
2064	63.446	63.263	-0.108	0.0	0.1	0.0
2088	63.446	63.263	-0.108	0.0	0.1	0.0
2112	63.446	63.263	-0.108	0.0	0.1	0.0
2136	63.446	63.263	-0.108	0.0	0.1	0.0
2160	63.446	63.263	-0.108	0.0	0.1	0.0
2184	63.446	63.264	-0.108	0.0	0.1	0.0
2208	63.446	63.264	-0.108	0.0	0.1	0.0
2232	63.446	63.264	-0.108	0.0	0.1	0.0
2256	63.447	63.264	-0.108	0.0	0.1	0.0
2280	63.447	63.264	-0.108	0.0	0.1	0.0
2304	63.447	63.264	-0.108	0.0	0.1	0.0
2328	63.447	63.264	-0.108	0.0	0.1	0.0
2352	63.447	63.264	-0.107	0.0	0.1	0.0
2376	63.447	63.264	-0.107	0.0	0.1	0.0
2400	63.447	63.264	-0.107	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.447	63.264	-0.107	0.0	0.1	0.0
2448	63.447	63.264	-0.107	0.0	0.2	0.0
2472	63.447	63.265	-0.107	0.0	0.2	0.0
2496	63.447	63.265	-0.107	0.0	0.2	0.0
2520	63.447	63.265	-0.107	0.0	0.2	0.0
2544	63.447	63.265	-0.107	0.0	0.2	0.0
2568	63.447	63.265	-0.107	0.0	0.2	0.0
2592	63.447	63.265	-0.107	0.0	0.2	0.0
2616	63.447	63.265	-0.107	0.0	0.2	0.0
2640	63.447	63.265	-0.107	0.0	0.2	0.0
2664	63.447	63.266	-0.107	0.0	0.2	0.0
2688	63.447	63.266	-0.107	0.0	0.2	0.0
2712	63.447	63.266	-0.107	0.0	0.2	0.0
2736	63.447	63.266	-0.107	0.0	0.2	0.0
2760	63.447	63.266	-0.107	0.0	0.2	0.0
2784	63.447	63.266	-0.107	0.0	0.2	0.0
2808	63.448	63.266	-0.107	0.0	0.2	0.0
2832	63.448	63.267	-0.107	0.0	0.2	0.0
2856	63.448	63.267	-0.107	0.0	0.2	0.0
2880	63.448	63.267	-0.106	0.0	0.2	0.0
2904	63.448	63.267	-0.106	0.0	0.2	0.1
2928	63.448	63.268	-0.106	0.0	0.2	0.1
2952	63.448	63.268	-0.106	0.0	0.2	0.1
2976	63.448	63.268	-0.106	0.0	0.2	0.1
3000	63.448	63.268	-0.106	0.0	0.2	0.1
3024	63.448	63.268	-0.106	0.0	0.2	0.1
3048	63.448	63.269	-0.106	0.0	0.2	0.1
3072	63.448	63.269	-0.106	0.0	0.2	0.1
3096	63.448	63.269	-0.106	0.0	0.2	0.1
3120	63.449	63.270	-0.105	0.0	0.3	0.1
3144	63.449	63.270	-0.105	0.0	0.3	0.1
3168	63.449	63.270	-0.105	0.0	0.3	0.1
3192	63.449	63.271	-0.105	0.0	0.3	0.1
3216	63.449	63.271	-0.105	0.0	0.3	0.1
3240	63.450	63.272	-0.105	0.0	0.3	0.1
3264	63.450	63.272	-0.105	0.0	0.3	0.1
3288	63.450	63.272	-0.104	0.0	0.3	0.1
3312	63.450	63.273	-0.104	0.0	0.3	0.1
3336	63.450	63.273	-0.104	0.0	0.3	0.1
3360	63.450	63.274	-0.104	0.0	0.3	0.1
3384	63.451	63.274	-0.104	0.0	0.4	0.1
3408	63.451	63.275	-0.103	0.0	0.4	0.1
3432	63.451	63.276	-0.103	0.0	0.4	0.1
3456	63.451	63.276	-0.103	0.0	0.4	0.1
3480	63.452	63.277	-0.103	0.0	0.4	0.1
3504	63.452	63.278	-0.103	0.0	0.4	0.1
3528	63.452	63.279	-0.103	0.0	0.4	0.1
3552	63.452	63.279	-0.102	0.0	0.4	0.1
3576	63.452	63.280	-0.102	0.0	0.4	0.1
3600	63.452	63.282	-0.102	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.452	63.283	-0.102	0.0	0.3	0.1
3648	63.453	63.284	-0.101	0.0	0.3	0.1
3672	63.453	63.287	-0.101	0.0	0.3	0.1
3696	63.453	63.289	-0.101	0.0	0.3	0.1
3720	63.453	63.292	-0.101	0.0	0.3	0.1
3744	63.454	63.295	-0.100	0.0	0.3	0.1
3768	63.454	63.298	-0.100	0.0	0.3	0.1
3792	63.454	63.301	-0.100	0.0	0.3	0.1
3816	63.455	63.304	-0.099	0.0	0.3	0.1
3840	63.455	63.308	-0.099	0.0	0.3	0.1
3864	63.455	63.312	-0.099	0.0	0.3	0.2
3888	63.455	63.316	-0.099	0.0	0.3	0.2
3912	63.455	63.319	-0.099	0.0	0.3	0.2
3936	63.455	63.324	-0.099	0.0	0.3	0.2
3960	63.455	63.328	-0.099	0.0	0.3	0.2
3984	63.456	63.332	-0.099	0.0	0.3	0.2
4008	63.456	63.337	-0.098	0.0	0.3	0.2
4032	63.456	63.341	-0.098	0.0	0.3	0.2
4056	63.456	63.346	-0.098	0.0	0.3	0.2
4080	63.456	63.351	-0.098	0.0	0.3	0.2
4104	63.456	63.356	-0.098	0.0	0.3	0.2
4128	63.456	63.362	-0.098	0.0	0.3	0.2
4152	63.456	63.371	-0.098	0.0	0.4	0.2
4176	63.457	63.378	-0.098	0.0	0.4	0.2
4200	63.457	63.385	-0.098	0.0	0.4	0.2
4224	63.457	63.392	-0.098	0.0	0.4	0.2
4248	63.457	63.399	-0.097	0.0	0.4	0.2
4272	63.457	63.405	-0.097	0.0	0.4	0.2
4296	63.457	63.411	-0.097	0.0	0.4	0.2
4320	63.457	63.417	-0.097	0.0	0.4	0.2
4344	63.457	63.423	-0.097	0.0	0.4	0.2
4368	63.457	63.428	-0.097	0.0	0.4	0.2
4392	63.457	63.434	-0.097	0.0	0.4	0.2
4416	63.457	63.440	-0.097	0.0	0.4	0.2
4440	63.457	63.445	-0.097	0.0	0.4	0.2
4464	63.458	63.451	-0.096	0.0	0.3	0.2
4488	63.460	63.456	-0.094	0.0	0.3	0.2
4512	63.463	63.461	-0.091	0.0	0.2	0.2
4536	63.467	63.466	-0.087	0.0	0.2	0.2
4560	63.472	63.471	-0.082	0.0	0.1	0.2
4584	63.477	63.476	-0.078	0.0	0.1	0.2
4608	63.481	63.480	-0.073	0.0	0.1	0.2
4632	63.485	63.484	-0.069	0.0	0.1	0.2
4656	63.489	63.489	-0.065	0.0	0.1	0.2
4680	63.493	63.492	-0.061	0.0	0.0	0.2
4704	63.496	63.496	-0.058	0.0	0.0	0.2
4728	63.500	63.499	-0.054	0.0	0.0	0.2
4752	63.503	63.503	-0.051	0.0	0.0	0.2
4776	63.506	63.506	-0.048	0.0	0.0	0.2
4800	63.509	63.508	-0.045	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.512	63.511	-0.042	0.0	0.0	0.1
4848	63.514	63.514	-0.040	0.0	0.0	0.1
4872	63.517	63.516	-0.037	0.0	0.0	0.1
4896	63.519	63.518	-0.036	0.0	0.0	0.1
4920	63.521	63.520	-0.033	0.0	0.0	0.1
4944	63.523	63.522	-0.031	0.0	0.0	0.1
4968	63.525	63.524	-0.030	0.0	0.0	0.1
4992	63.526	63.526	-0.028	0.0	0.0	0.1
5016	63.528	63.528	-0.026	0.0	0.0	0.1
5040	63.529	63.529	-0.025	0.0	0.0	0.1
5064	63.531	63.530	-0.024	0.0	0.0	0.1
5088	63.532	63.531	-0.022	0.0	0.0	0.1
5112	63.533	63.532	-0.021	0.0	0.0	0.1
5136	63.534	63.533	-0.020	0.0	0.0	0.1
5160	63.534	63.534	-0.020	0.0	0.0	0.1
5184	63.535	63.535	-0.019	0.0	0.0	0.1
5208	63.536	63.535	-0.018	0.0	0.0	0.1
5232	63.536	63.536	-0.018	0.0	0.0	0.1
5256	63.536	63.536	-0.018	0.0	0.0	0.1
5280	63.537	63.536	-0.018	0.0	0.0	0.1
5304	63.537	63.536	-0.018	0.0	0.0	0.1
5328	63.537	63.536	-0.018	0.0	0.0	0.1
5352	63.536	63.536	-0.018	0.0	0.0	0.1
5376	63.536	63.536	-0.018	0.0	0.0	0.1
5400	63.536	63.536	-0.018	0.0	0.0	0.1
5424	63.535	63.535	-0.019	0.0	0.0	0.1
5448	63.535	63.535	-0.019	0.0	0.0	0.1
5472	63.534	63.534	-0.020	0.0	0.0	0.1
5496	63.534	63.534	-0.020	0.0	0.0	0.1
5520	63.533	63.533	-0.021	0.0	0.0	0.1
5544	63.532	63.532	-0.022	0.0	0.0	0.1
5568	63.531	63.531	-0.023	0.0	0.0	0.1
5592	63.530	63.530	-0.024	0.0	0.0	0.1
5616	63.529	63.529	-0.025	0.0	0.0	0.1
5640	63.528	63.528	-0.026	0.0	0.0	0.1
5664	63.527	63.527	-0.027	0.0	0.0	0.1
5688	63.526	63.526	-0.028	0.0	0.0	0.1
5712	63.525	63.525	-0.029	0.0	0.0	0.1
5736	63.523	63.523	-0.031	0.0	0.0	0.1
5760	63.522	63.522	-0.032	0.0	0.0	0.1
5784	63.521	63.521	-0.033	0.0	0.0	0.1
5808	63.519	63.519	-0.035	0.0	0.0	0.0
5832	63.518	63.518	-0.036	0.0	0.0	0.0
5856	63.517	63.516	-0.038	0.0	0.0	0.0
5880	63.515	63.515	-0.039	0.0	0.0	0.0
5904	63.514	63.513	-0.041	0.0	0.0	0.0
5928	63.512	63.512	-0.042	0.0	0.0	0.0
5952	63.510	63.510	-0.044	0.0	0.0	0.0
5976	63.509	63.509	-0.045	0.0	0.0	0.0
6000	63.507	63.507	-0.047	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.505	63.505	-0.049	0.0	0.0	0.0
6048	63.504	63.504	-0.050	0.0	0.0	0.0
6072	63.502	63.502	-0.052	0.0	0.0	0.0
6096	63.500	63.500	-0.054	0.0	0.0	0.0
6120	63.498	63.498	-0.056	0.0	0.0	0.0
6144	63.497	63.496	-0.058	0.0	0.0	0.0
6168	63.495	63.495	-0.059	0.0	0.0	0.0
6192	63.493	63.493	-0.061	0.0	0.0	0.0
6216	63.491	63.491	-0.063	0.0	0.0	0.0
6240	63.489	63.489	-0.065	0.0	0.0	0.0
6264	63.487	63.487	-0.067	0.0	0.0	0.0
6288	63.485	63.485	-0.069	0.0	0.0	0.0
6312	63.483	63.483	-0.071	0.0	0.0	0.0
6336	63.481	63.481	-0.073	0.0	0.0	0.0
6360	63.480	63.479	-0.075	0.0	0.0	0.0
6384	63.478	63.477	-0.077	0.0	0.0	0.0
6408	63.476	63.476	-0.079	0.0	0.0	0.0
6432	63.474	63.474	-0.080	0.0	0.0	0.0
6456	63.472	63.472	-0.082	0.0	0.0	0.0
6480	63.470	63.470	-0.084	0.0	0.0	0.0
6504	63.468	63.468	-0.086	0.0	0.0	0.0
6528	63.466	63.466	-0.088	0.0	0.0	0.0
6552	63.464	63.464	-0.090	0.0	0.0	0.0
6576	63.462	63.462	-0.092	0.0	0.0	0.0
6600	63.460	63.459	-0.094	0.0	0.0	0.0
6624	63.458	63.457	-0.096	0.0	0.0	0.0
6648	63.456	63.455	-0.098	0.0	0.1	0.0
6672	63.455	63.453	-0.099	0.0	0.1	0.0
6696	63.451	63.451	-0.104	0.0	0.1	0.0
6720	63.451	63.449	-0.104	0.0	0.1	0.0
6744	63.449	63.447	-0.105	0.0	0.1	0.0
6768	63.448	63.445	-0.106	0.0	0.1	0.0
6792	63.448	63.443	-0.107	0.0	0.1	0.0
6816	63.447	63.441	-0.107	0.0	0.1	0.0
6840	63.447	63.439	-0.107	0.0	0.1	0.0
6864	63.446	63.437	-0.108	0.0	0.1	0.0
6888	63.446	63.434	-0.108	0.0	0.1	0.0
6912	63.446	63.432	-0.108	0.0	0.1	0.0
6936	63.446	63.430	-0.108	0.0	0.1	0.0
6960	63.446	63.428	-0.108	0.0	0.1	0.0
6984	63.446	63.426	-0.108	0.0	0.1	0.0
7008	63.446	63.424	-0.108	0.0	0.1	0.0
7032	63.446	63.421	-0.108	0.0	0.1	0.0
7056	63.446	63.419	-0.108	0.0	0.1	0.0
7080	63.446	63.417	-0.108	0.0	0.1	0.0
7104	63.446	63.415	-0.108	0.0	0.1	0.0
7128	63.446	63.413	-0.108	0.0	0.1	0.0
7152	63.446	63.411	-0.108	0.0	0.1	0.0
7176	63.446	63.408	-0.108	0.0	0.1	0.0
7200	63.446	63.406	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.446	63.404	-0.108	0.0	0.1	0.0
7248	63.446	63.402	-0.108	0.0	0.1	0.0
7272	63.446	63.400	-0.108	0.0	0.1	0.0
7296	63.446	63.398	-0.108	0.0	0.1	0.0
7320	63.446	63.395	-0.108	0.0	0.1	0.0
7344	63.446	63.393	-0.108	0.0	0.1	0.0
7368	63.446	63.391	-0.108	0.0	0.1	0.0
7392	63.446	63.389	-0.108	0.0	0.1	0.0
7416	63.446	63.387	-0.108	0.0	0.1	0.0
7440	63.446	63.385	-0.108	0.0	0.1	0.0
7464	63.446	63.383	-0.108	0.0	0.1	0.0
7488	63.446	63.381	-0.108	0.0	0.1	0.0
7512	63.446	63.379	-0.108	0.0	0.1	0.0
7536	63.446	63.378	-0.108	0.0	0.1	0.0
7560	63.446	63.376	-0.108	0.0	0.1	0.0
7584	63.446	63.375	-0.108	0.0	0.1	0.0
7608	63.446	63.373	-0.108	0.0	0.1	0.0
7632	63.446	63.372	-0.108	0.0	0.1	0.0
7656	63.446	63.370	-0.108	0.0	0.1	0.0
7680	63.446	63.369	-0.108	0.0	0.1	0.0
7704	63.446	63.368	-0.108	0.0	0.1	0.0
7728	63.446	63.366	-0.108	0.0	0.1	0.0
7752	63.446	63.363	-0.108	0.0	0.1	0.0
7776	63.446	63.361	-0.108	0.0	0.1	0.0
7800	63.446	63.358	-0.108	0.0	0.1	0.0
7824	63.446	63.355	-0.108	0.0	0.1	0.0
7848	63.446	63.352	-0.108	0.0	0.1	0.0
7872	63.446	63.349	-0.108	0.0	0.1	0.0
7896	63.446	63.347	-0.108	0.0	0.1	0.0
7920	63.446	63.345	-0.108	0.0	0.1	0.0
7944	63.446	63.343	-0.108	0.0	0.1	0.0
7968	63.446	63.341	-0.108	0.0	0.1	0.0
7992	63.446	63.338	-0.108	0.0	0.1	0.0
8016	63.446	63.336	-0.108	0.0	0.1	0.0
8040	63.446	63.334	-0.108	0.0	0.1	0.0
8064	63.446	63.332	-0.108	0.0	0.1	0.0
8088	63.446	63.330	-0.108	0.0	0.1	0.0
8112	63.446	63.328	-0.108	0.0	0.1	0.0
8136	63.446	63.326	-0.108	0.0	0.1	0.0
8160	63.446	63.324	-0.108	0.0	0.1	0.0
8184	63.446	63.321	-0.108	0.0	0.1	0.0
8208	63.446	63.319	-0.108	0.0	0.1	0.0
8232	63.446	63.317	-0.109	0.0	0.1	0.0
8256	63.446	63.315	-0.109	0.0	0.1	0.0
8280	63.446	63.313	-0.109	0.0	0.1	0.0
8304	63.446	63.310	-0.109	0.0	0.1	0.0
8328	63.446	63.308	-0.109	0.0	0.1	0.0
8352	63.446	63.306	-0.109	0.0	0.1	0.0
8376	63.446	63.304	-0.109	0.0	0.1	0.0
8400	63.446	63.302	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.446	63.299	-0.109	0.0	0.1	0.0
8448	63.446	63.297	-0.109	0.0	0.1	0.0
8472	63.446	63.295	-0.109	0.0	0.1	0.0
8496	63.446	63.292	-0.109	0.0	0.1	0.0
8520	63.446	63.290	-0.109	0.0	0.1	0.0
8544	63.446	63.288	-0.109	0.0	0.1	0.0
8568	63.446	63.285	-0.109	0.0	0.1	0.0
8592	63.446	63.283	-0.109	0.0	0.1	0.0
8616	63.446	63.280	-0.109	0.0	0.1	0.0
8640	63.446	63.277	-0.109	0.0	0.1	0.0
8664	63.444	63.274	-0.110	0.0	0.0	0.0
8688	63.444	63.271	-0.110	0.0	0.0	0.0
8712	63.444	63.269	-0.110	0.0	0.0	0.0
8736	63.444	63.267	-0.110	0.0	0.0	0.0
8760	63.444	63.264	-0.110	0.0	0.0	0.0
8784	63.444	63.263	-0.110	0.0	0.0	0.0
8808	63.444	63.262	-0.110	0.0	0.0	0.0
8832	63.444	63.261	-0.110	0.0	0.0	0.0
8856	63.444	63.260	-0.110	0.0	0.0	0.0
8880	63.444	63.259	-0.110	0.0	0.0	0.0
8904	63.444	63.258	-0.110	0.0	0.0	0.0
8928	63.444	63.258	-0.110	0.0	0.0	0.0
8952	63.444	63.257	-0.110	0.0	0.0	0.0
8976	63.444	63.257	-0.110	0.0	0.0	0.0
9000	63.444	63.256	-0.110	0.0	0.0	0.0
9024	63.444	63.256	-0.110	0.0	0.0	0.0
9048	63.444	63.256	-0.110	0.0	0.0	0.0
9072	63.444	63.255	-0.110	0.0	0.0	0.0
9096	63.444	63.255	-0.110	0.0	0.0	0.0
9120	63.444	63.255	-0.110	0.0	0.0	0.0
9144	63.444	63.255	-0.110	0.0	0.0	0.0
9168	63.444	63.255	-0.110	0.0	0.0	0.0
9192	63.444	63.254	-0.110	0.0	0.0	0.0
9216	63.444	63.254	-0.110	0.0	0.0	0.0
9240	63.444	63.254	-0.110	0.0	0.0	0.0
9264	63.444	63.254	-0.110	0.0	0.0	0.0
9288	63.444	63.254	-0.110	0.0	0.0	0.0
9312	63.444	63.254	-0.110	0.0	0.0	0.0
9336	63.444	63.254	-0.110	0.0	0.0	0.0
9360	63.444	63.253	-0.110	0.0	0.0	0.0
9384	63.444	63.253	-0.110	0.0	0.0	0.0
9408	63.444	63.253	-0.110	0.0	0.0	0.0
9432	63.444	63.253	-0.110	0.0	0.0	0.0
9456	63.444	63.253	-0.110	0.0	0.0	0.0
9480	63.444	63.253	-0.110	0.0	0.0	0.0
9504	63.444	63.253	-0.110	0.0	0.0	0.0
9528	63.444	63.253	-0.110	0.0	0.0	0.0
9552	63.444	63.253	-0.110	0.0	0.0	0.0
9576	63.444	63.253	-0.110	0.0	0.0	0.0
9600	63.444	63.253	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.252	-0.110	0.0	0.0	0.0
9648	63.444	63.252	-0.110	0.0	0.0	0.0
9672	63.444	63.252	-0.110	0.0	0.0	0.0
9696	63.444	63.252	-0.110	0.0	0.0	0.0
9720	63.444	63.252	-0.110	0.0	0.0	0.0
9744	63.444	63.252	-0.110	0.0	0.0	0.0
9768	63.444	63.252	-0.110	0.0	0.0	0.0
9792	63.444	63.252	-0.110	0.0	0.0	0.0
9816	63.444	63.252	-0.110	0.0	0.0	0.0
9840	63.444	63.252	-0.110	0.0	0.0	0.0
9864	63.444	63.252	-0.110	0.0	0.0	0.0
9888	63.444	63.252	-0.110	0.0	0.0	0.0
9912	63.444	63.252	-0.110	0.0	0.0	0.0
9936	63.444	63.252	-0.110	0.0	0.0	0.0
9960	63.444	63.252	-0.110	0.0	0.0	0.0
9984	63.444	63.252	-0.110	0.0	0.0	0.0
10008	63.444	63.252	-0.110	0.0	0.0	0.0
10032	63.444	63.252	-0.110	0.0	0.0	0.0
10056	63.444	63.252	-0.110	0.0	0.0	0.0
10080	63.444	63.252	-0.110	0.0	0.0	0.0
10104	63.444	63.252	-0.110	0.0	0.0	0.0
10128	63.444	63.252	-0.110	0.0	0.0	0.0
10152	63.444	63.252	-0.110	0.0	0.0	0.0
10176	63.444	63.252	-0.110	0.0	0.0	0.0
10200	63.444	63.252	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.251	-0.110	0.0	0.0	0.0
12408	63.444	63.251	-0.110	0.0	0.0	0.0
12432	63.444	63.251	-0.110	0.0	0.0	0.0
12456	63.444	63.251	-0.110	0.0	0.0	0.0
12480	63.444	63.251	-0.110	0.0	0.0	0.0
12504	63.444	63.251	-0.110	0.0	0.0	0.0
12528	63.444	63.251	-0.110	0.0	0.0	0.0
12552	63.444	63.251	-0.110	0.0	0.0	0.0
12576	63.444	63.251	-0.110	0.0	0.0	0.0
12600	63.444	63.251	-0.110	0.0	0.0	0.0
12624	63.444	63.251	-0.110	0.0	0.0	0.0
12648	63.444	63.251	-0.110	0.0	0.0	0.0
12672	63.444	63.251	-0.110	0.0	0.0	0.0
12696	63.444	63.251	-0.110	0.0	0.0	0.0
12720	63.444	63.251	-0.110	0.0	0.0	0.0
12744	63.444	63.251	-0.110	0.0	0.0	0.0
12768	63.444	63.251	-0.110	0.0	0.0	0.0
12792	63.444	63.251	-0.110	0.0	0.0	0.0
12816	63.444	63.251	-0.110	0.0	0.0	0.0
12840	63.444	63.251	-0.110	0.0	0.0	0.0
12864	63.444	63.251	-0.110	0.0	0.0	0.0
12888	63.444	63.251	-0.110	0.0	0.0	0.0
12912	63.444	63.251	-0.110	0.0	0.0	0.0
12936	63.444	63.251	-0.110	0.0	0.0	0.0
12960	63.444	63.251	-0.110	0.0	0.0	0.0
12984	63.444	63.251	-0.110	0.0	0.0	0.0
13008	63.444	63.251	-0.110	0.0	0.0	0.0
13032	63.444	63.251	-0.110	0.0	0.0	0.0
13056	63.444	63.251	-0.110	0.0	0.0	0.0
13080	63.444	63.251	-0.110	0.0	0.0	0.0
13104	63.444	63.251	-0.110	0.0	0.0	0.0
13128	63.444	63.251	-0.110	0.0	0.0	0.0
13152	63.444	63.251	-0.110	0.0	0.0	0.0
13176	63.444	63.251	-0.110	0.0	0.0	0.0
13200	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.251	-0.110	0.0	0.0	0.0
13248	63.444	63.251	-0.110	0.0	0.0	0.0
13272	63.444	63.250	-0.110	0.0	0.0	0.0
13296	63.444	63.250	-0.110	0.0	0.0	0.0
13320	63.444	63.250	-0.110	0.0	0.0	0.0
13344	63.444	63.250	-0.110	0.0	0.0	0.0
13368	63.444	63.250	-0.110	0.0	0.0	0.0
13392	63.444	63.250	-0.110	0.0	0.0	0.0
13416	63.444	63.250	-0.110	0.0	0.0	0.0
13440	63.444	63.250	-0.110	0.0	0.0	0.0
13464	63.444	63.250	-0.110	0.0	0.0	0.0
13488	63.444	63.250	-0.110	0.0	0.0	0.0
13512	63.444	63.250	-0.110	0.0	0.0	0.0
13536	63.444	63.250	-0.110	0.0	0.0	0.0
13560	63.444	63.250	-0.110	0.0	0.0	0.0
13584	63.444	63.250	-0.110	0.0	0.0	0.0
13608	63.444	63.250	-0.110	0.0	0.0	0.0
13632	63.444	63.250	-0.110	0.0	0.0	0.0
13656	63.444	63.250	-0.110	0.0	0.0	0.0
13680	63.444	63.250	-0.110	0.0	0.0	0.0
13704	63.444	63.250	-0.110	0.0	0.0	0.0
13728	63.444	63.250	-0.110	0.0	0.0	0.0
13752	63.444	63.250	-0.110	0.0	0.0	0.0
13776	63.444	63.250	-0.110	0.0	0.0	0.0
13800	63.444	63.250	-0.110	0.0	0.0	0.0
13824	63.444	63.250	-0.110	0.0	0.0	0.0
13848	63.444	63.250	-0.110	0.0	0.0	0.0
13872	63.444	63.250	-0.110	0.0	0.0	0.0
13896	63.444	63.250	-0.110	0.0	0.0	0.0
13920	63.444	63.250	-0.110	0.0	0.0	0.0
13944	63.444	63.250	-0.110	0.0	0.0	0.0
13968	63.444	63.250	-0.110	0.0	0.0	0.0
13992	63.444	63.250	-0.110	0.0	0.0	0.0
14016	63.444	63.250	-0.110	0.0	0.0	0.0
14040	63.444	63.250	-0.110	0.0	0.0	0.0
14064	63.444	63.250	-0.110	0.0	0.0	0.0
14088	63.444	63.250	-0.110	0.0	0.0	0.0
14112	63.444	63.250	-0.110	0.0	0.0	0.0
14136	63.444	63.250	-0.110	0.0	0.0	0.0
14160	63.444	63.250	-0.110	0.0	0.0	0.0
14184	63.444	63.250	-0.110	0.0	0.0	0.0
14208	63.444	63.250	-0.110	0.0	0.0	0.0
14232	63.444	63.250	-0.110	0.0	0.0	0.0
14256	63.444	63.250	-0.110	0.0	0.0	0.0
14280	63.444	63.250	-0.110	0.0	0.0	0.0
14304	63.444	63.250	-0.110	0.0	0.0	0.0
14328	63.444	63.250	-0.110	0.0	0.0	0.0
14352	63.444	63.250	-0.110	0.0	0.0	0.0
14376	63.444	63.250	-0.110	0.0	0.0	0.0
14400	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.444	63.250	-0.110	0.0	0.0	0.0
14448	63.444	63.250	-0.110	0.0	0.0	0.0
14472	63.444	63.250	-0.110	0.0	0.0	0.0
14496	63.444	63.250	-0.110	0.0	0.0	0.0
14520	63.444	63.250	-0.110	0.0	0.0	0.0
14544	63.444	63.250	-0.110	0.0	0.0	0.0
14568	63.444	63.250	-0.110	0.0	0.0	0.0
14592	63.444	63.250	-0.110	0.0	0.0	0.0
14616	63.444	63.250	-0.110	0.0	0.0	0.0
14640	63.444	63.250	-0.110	0.0	0.0	0.0
14664	63.444	63.250	-0.110	0.0	0.0	0.0
14688	63.444	63.250	-0.110	0.0	0.0	0.0
14712	63.444	63.250	-0.110	0.0	0.0	0.0
14736	63.444	63.250	-0.110	0.0	0.0	0.0
14760	63.444	63.250	-0.110	0.0	0.0	0.0
14784	63.444	63.250	-0.110	0.0	0.0	0.0
14808	63.444	63.250	-0.110	0.0	0.0	0.0
14832	63.444	63.250	-0.110	0.0	0.0	0.0
14856	63.444	63.250	-0.110	0.0	0.0	0.0
14880	63.444	63.250	-0.110	0.0	0.0	0.0
14904	63.444	63.250	-0.110	0.0	0.0	0.0
14928	63.444	63.250	-0.110	0.0	0.0	0.0
14952	63.444	63.250	-0.110	0.0	0.0	0.0
14976	63.444	63.250	-0.110	0.0	0.0	0.0
15000	63.444	63.250	-0.110	0.0	0.0	0.0
15024	63.444	63.250	-0.110	0.0	0.0	0.0
15048	63.444	63.250	-0.110	0.0	0.0	0.0
15072	63.444	63.250	-0.110	0.0	0.0	0.0
15096	63.444	63.250	-0.110	0.0	0.0	0.0
15120	63.444	63.250	-0.110	0.0	0.0	0.0
15144	63.444	63.250	-0.110	0.0	0.0	0.0
15168	63.444	63.250	-0.110	0.0	0.0	0.0
15192	63.444	63.250	-0.110	0.0	0.0	0.0
15216	63.444	63.250	-0.110	0.0	0.0	0.0
15240	63.444	63.250	-0.110	0.0	0.0	0.0
15264	63.444	63.250	-0.110	0.0	0.0	0.0
15288	63.444	63.250	-0.110	0.0	0.0	0.0
15312	63.444	63.250	-0.110	0.0	0.0	0.0
15336	63.444	63.250	-0.110	0.0	0.0	0.0
15360	63.444	63.250	-0.110	0.0	0.0	0.0
15384	63.444	63.250	-0.110	0.0	0.0	0.0
15408	63.444	63.250	-0.110	0.0	0.0	0.0
15432	63.444	63.250	-0.110	0.0	0.0	0.0
15456	63.444	63.250	-0.110	0.0	0.0	0.0
15480	63.444	63.250	-0.110	0.0	0.0	0.0
15504	63.444	63.250	-0.110	0.0	0.0	0.0
15528	63.444	63.250	-0.110	0.0	0.0	0.0
15552	63.444	63.250	-0.110	0.0	0.0	0.0
15576	63.444	63.250	-0.110	0.0	0.0	0.0
15600	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.444	63.250	-0.110	0.0	0.0	0.0
15648	63.444	63.250	-0.110	0.0	0.0	0.0
15672	63.444	63.250	-0.110	0.0	0.0	0.0
15696	63.444	63.250	-0.110	0.0	0.0	0.0
15720	63.444	63.250	-0.110	0.0	0.0	0.0
15744	63.444	63.250	-0.110	0.0	0.0	0.0
15768	63.444	63.250	-0.110	0.0	0.0	0.0
15792	63.444	63.250	-0.110	0.0	0.0	0.0
15816	63.444	63.250	-0.110	0.0	0.0	0.0
15840	63.444	63.250	-0.110	0.0	0.0	0.0
15864	63.444	63.250	-0.110	0.0	0.0	0.0
15888	63.444	63.250	-0.110	0.0	0.0	0.0
15912	63.444	63.250	-0.110	0.0	0.0	0.0
15936	63.444	63.250	-0.110	0.0	0.0	0.0
15960	63.444	63.250	-0.110	0.0	0.0	0.0
15984	63.444	63.250	-0.110	0.0	0.0	0.0
16008	63.444	63.250	-0.110	0.0	0.0	0.0
16032	63.444	63.250	-0.110	0.0	0.0	0.0
16056	63.444	63.250	-0.110	0.0	0.0	0.0
16080	63.444	63.250	-0.110	0.0	0.0	0.0
16104	63.444	63.250	-0.110	0.0	0.0	0.0
16128	63.444	63.250	-0.110	0.0	0.0	0.0
16152	63.444	63.250	-0.110	0.0	0.0	0.0
16176	63.444	63.250	-0.110	0.0	0.0	0.0
16200	63.444	63.250	-0.110	0.0	0.0	0.0
16224	63.444	63.250	-0.110	0.0	0.0	0.0
16248	63.444	63.250	-0.110	0.0	0.0	0.0
16272	63.444	63.250	-0.110	0.0	0.0	0.0
16296	63.444	63.250	-0.110	0.0	0.0	0.0
16320	63.444	63.250	-0.110	0.0	0.0	0.0
16344	63.444	63.250	-0.110	0.0	0.0	0.0
16368	63.444	63.250	-0.110	0.0	0.0	0.0
16392	63.444	63.250	-0.110	0.0	0.0	0.0
16416	63.444	63.250	-0.110	0.0	0.0	0.0
16440	63.444	63.250	-0.110	0.0	0.0	0.0
16464	63.444	63.250	-0.110	0.0	0.0	0.0
16488	63.444	63.250	-0.110	0.0	0.0	0.0
16512	63.444	63.250	-0.110	0.0	0.0	0.0
16536	63.444	63.250	-0.110	0.0	0.0	0.0
16560	63.444	63.250	-0.110	0.0	0.0	0.0
16584	63.444	63.250	-0.110	0.0	0.0	0.0
16608	63.444	63.250	-0.110	0.0	0.0	0.0
16632	63.444	63.250	-0.110	0.0	0.0	0.0
16656	63.444	63.250	-0.110	0.0	0.0	0.0
16680	63.444	63.250	-0.110	0.0	0.0	0.0
16704	63.444	63.250	-0.110	0.0	0.0	0.0
16728	63.444	63.250	-0.110	0.0	0.0	0.0
16752	63.444	63.250	-0.110	0.0	0.0	0.0
16776	63.444	63.250	-0.110	0.0	0.0	0.0
16800	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.444	63.250	-0.110	0.0	0.0	0.0
16848	63.444	63.250	-0.110	0.0	0.0	0.0
16872	63.444	63.250	-0.110	0.0	0.0	0.0
16896	63.444	63.250	-0.110	0.0	0.0	0.0
16920	63.444	63.250	-0.110	0.0	0.0	0.0
16944	63.444	63.250	-0.110	0.0	0.0	0.0
16968	63.444	63.250	-0.110	0.0	0.0	0.0
16992	63.444	63.250	-0.110	0.0	0.0	0.0
17016	63.444	63.250	-0.110	0.0	0.0	0.0
17040	63.444	63.250	-0.110	0.0	0.0	0.0
17064	63.444	63.250	-0.110	0.0	0.0	0.0
17088	63.444	63.250	-0.110	0.0	0.0	0.0
17112	63.444	63.250	-0.110	0.0	0.0	0.0
17136	63.444	63.250	-0.110	0.0	0.0	0.0
17160	63.444	63.250	-0.110	0.0	0.0	0.0
17184	63.444	63.250	-0.110	0.0	0.0	0.0
17208	63.444	63.250	-0.110	0.0	0.0	0.0
17232	63.444	63.250	-0.110	0.0	0.0	0.0
17256	63.444	63.250	-0.110	0.0	0.0	0.0
17280	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.252	63.100	-0.108	0.0	0.0	0.0
72	63.252	63.100	-0.108	0.0	0.0	0.0
96	63.253	63.101	-0.107	0.0	0.0	0.0
120	63.254	63.101	-0.106	0.0	0.0	0.0
144	63.255	63.102	-0.105	0.0	0.0	0.0
168	63.255	63.103	-0.105	0.0	0.0	0.0
192	63.256	63.104	-0.104	0.0	0.0	0.0
216	63.257	63.105	-0.103	0.0	0.0	0.0
240	63.257	63.106	-0.103	0.0	0.0	0.0
264	63.258	63.107	-0.102	0.0	0.0	0.0
288	63.258	63.107	-0.102	0.0	0.0	0.0
312	63.258	63.108	-0.102	0.0	0.1	0.0
336	63.259	63.109	-0.101	0.0	0.1	0.0
360	63.259	63.110	-0.101	0.0	0.1	0.0
384	63.259	63.111	-0.101	0.0	0.1	0.0
408	63.259	63.112	-0.101	0.0	0.1	0.0
432	63.259	63.113	-0.101	0.0	0.1	0.0
456	63.260	63.113	-0.100	0.0	0.1	0.0
480	63.260	63.114	-0.100	0.0	0.1	0.0
504	63.260	63.114	-0.100	0.0	0.1	0.0
528	63.260	63.115	-0.100	0.0	0.1	0.0
552	63.260	63.115	-0.100	0.0	0.1	0.0
576	63.260	63.115	-0.100	0.0	0.1	0.0
600	63.260	63.115	-0.100	0.0	0.1	0.0
624	63.260	63.115	-0.100	0.0	0.1	0.0
648	63.260	63.116	-0.100	0.0	0.1	0.0
672	63.260	63.116	-0.100	0.0	0.1	0.0
696	63.260	63.116	-0.100	0.0	0.1	0.0
720	63.260	63.116	-0.100	0.0	0.1	0.0
744	63.260	63.116	-0.100	0.0	0.1	0.0
768	63.260	63.116	-0.100	0.0	0.1	0.0
792	63.260	63.116	-0.100	0.0	0.1	0.0
816	63.261	63.116	-0.099	0.0	0.1	0.0
840	63.261	63.117	-0.099	0.0	0.1	0.0
864	63.261	63.117	-0.099	0.0	0.1	0.0
888	63.261	63.117	-0.099	0.0	0.1	0.0
912	63.261	63.117	-0.099	0.0	0.1	0.0
936	63.261	63.117	-0.099	0.0	0.1	0.0
960	63.261	63.117	-0.099	0.0	0.1	0.0
984	63.261	63.117	-0.099	0.0	0.1	0.0
1008	63.261	63.117	-0.099	0.0	0.1	0.0
1032	63.261	63.117	-0.099	0.0	0.1	0.0
1056	63.261	63.117	-0.099	0.0	0.1	0.0
1080	63.261	63.117	-0.099	0.0	0.1	0.0
1104	63.261	63.117	-0.099	0.0	0.1	0.0
1128	63.261	63.117	-0.099	0.0	0.1	0.0
1152	63.261	63.118	-0.099	0.0	0.1	0.0
1176	63.261	63.118	-0.099	0.0	0.1	0.0
1200	63.261	63.118	-0.099	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.261	63.118	-0.099	0.0	0.1	0.0
1248	63.261	63.118	-0.099	0.0	0.1	0.0
1272	63.261	63.118	-0.099	0.0	0.1	0.0
1296	63.261	63.118	-0.099	0.0	0.1	0.0
1320	63.261	63.118	-0.099	0.0	0.1	0.0
1344	63.261	63.118	-0.099	0.0	0.1	0.0
1368	63.261	63.118	-0.099	0.0	0.1	0.0
1392	63.261	63.118	-0.099	0.0	0.1	0.0
1416	63.261	63.119	-0.099	0.0	0.1	0.0
1440	63.261	63.119	-0.099	0.0	0.1	0.0
1464	63.262	63.119	-0.098	0.0	0.1	0.0
1488	63.262	63.119	-0.098	0.0	0.1	0.0
1512	63.262	63.119	-0.098	0.0	0.1	0.0
1536	63.262	63.119	-0.098	0.0	0.1	0.0
1560	63.262	63.119	-0.098	0.0	0.1	0.0
1584	63.262	63.119	-0.098	0.0	0.1	0.0
1608	63.262	63.120	-0.098	0.0	0.1	0.0
1632	63.262	63.120	-0.098	0.0	0.1	0.0
1656	63.262	63.120	-0.098	0.0	0.1	0.0
1680	63.262	63.120	-0.098	0.0	0.1	0.0
1704	63.262	63.120	-0.098	0.0	0.1	0.0
1728	63.262	63.120	-0.098	0.0	0.1	0.0
1752	63.262	63.120	-0.098	0.0	0.1	0.0
1776	63.262	63.120	-0.098	0.0	0.1	0.0
1800	63.262	63.121	-0.098	0.0	0.1	0.0
1824	63.262	63.121	-0.098	0.0	0.1	0.0
1848	63.262	63.121	-0.098	0.0	0.1	0.0
1872	63.263	63.121	-0.097	0.0	0.1	0.0
1896	63.263	63.121	-0.097	0.0	0.1	0.0
1920	63.263	63.121	-0.097	0.0	0.1	0.0
1944	63.263	63.122	-0.097	0.0	0.1	0.0
1968	63.263	63.122	-0.097	0.0	0.1	0.0
1992	63.263	63.122	-0.097	0.0	0.1	0.0
2016	63.263	63.122	-0.097	0.0	0.1	0.0
2040	63.263	63.122	-0.097	0.0	0.1	0.0
2064	63.263	63.122	-0.097	0.0	0.1	0.0
2088	63.263	63.123	-0.097	0.0	0.1	0.0
2112	63.263	63.123	-0.097	0.0	0.1	0.0
2136	63.263	63.123	-0.097	0.0	0.1	0.0
2160	63.263	63.123	-0.097	0.0	0.1	0.0
2184	63.264	63.123	-0.096	0.0	0.1	0.0
2208	63.264	63.124	-0.096	0.0	0.1	0.0
2232	63.264	63.124	-0.096	0.0	0.1	0.0
2256	63.264	63.124	-0.096	0.0	0.1	0.0
2280	63.264	63.124	-0.096	0.0	0.1	0.0
2304	63.264	63.125	-0.096	0.0	0.1	0.0
2328	63.264	63.125	-0.096	0.0	0.1	0.0
2352	63.264	63.125	-0.096	0.0	0.1	0.0
2376	63.264	63.125	-0.096	0.0	0.1	0.0
2400	63.264	63.126	-0.096	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.264	63.126	-0.096	0.0	0.1	0.0
2448	63.264	63.126	-0.096	0.0	0.1	0.0
2472	63.265	63.126	-0.095	0.0	0.1	0.0
2496	63.265	63.127	-0.095	0.0	0.1	0.0
2520	63.265	63.127	-0.095	0.0	0.1	0.0
2544	63.265	63.127	-0.095	0.0	0.1	0.0
2568	63.265	63.128	-0.095	0.0	0.1	0.0
2592	63.265	63.128	-0.095	0.0	0.2	0.0
2616	63.265	63.128	-0.095	0.0	0.2	0.0
2640	63.265	63.129	-0.095	0.0	0.2	0.0
2664	63.266	63.129	-0.094	0.0	0.2	0.0
2688	63.266	63.130	-0.094	0.0	0.2	0.0
2712	63.266	63.130	-0.094	0.0	0.2	0.0
2736	63.266	63.131	-0.094	0.0	0.2	0.0
2760	63.266	63.131	-0.094	0.0	0.2	0.0
2784	63.266	63.131	-0.094	0.0	0.2	0.0
2808	63.266	63.132	-0.094	0.0	0.2	0.0
2832	63.267	63.133	-0.093	0.0	0.2	0.0
2856	63.267	63.133	-0.093	0.0	0.2	0.0
2880	63.267	63.134	-0.093	0.0	0.2	0.0
2904	63.267	63.135	-0.093	0.0	0.2	0.0
2928	63.268	63.135	-0.092	0.0	0.2	0.0
2952	63.268	63.136	-0.092	0.0	0.2	0.0
2976	63.268	63.137	-0.092	0.0	0.2	0.0
3000	63.268	63.137	-0.092	0.0	0.2	0.0
3024	63.268	63.138	-0.092	0.0	0.2	0.1
3048	63.269	63.139	-0.091	0.0	0.2	0.1
3072	63.269	63.140	-0.091	0.0	0.2	0.1
3096	63.269	63.141	-0.091	0.0	0.2	0.1
3120	63.270	63.142	-0.090	0.0	0.2	0.1
3144	63.270	63.143	-0.090	0.0	0.2	0.1
3168	63.270	63.144	-0.090	0.0	0.2	0.1
3192	63.271	63.145	-0.089	0.0	0.2	0.1
3216	63.271	63.146	-0.089	0.0	0.2	0.1
3240	63.272	63.147	-0.088	0.0	0.2	0.1
3264	63.272	63.149	-0.088	0.0	0.2	0.1
3288	63.272	63.150	-0.088	0.0	0.2	0.1
3312	63.273	63.152	-0.087	0.0	0.2	0.1
3336	63.273	63.155	-0.087	0.0	0.2	0.1
3360	63.274	63.158	-0.086	0.0	0.2	0.1
3384	63.274	63.163	-0.086	0.0	0.3	0.1
3408	63.275	63.168	-0.085	0.0	0.3	0.1
3432	63.276	63.174	-0.084	0.0	0.3	0.1
3456	63.276	63.180	-0.084	0.0	0.3	0.1
3480	63.277	63.187	-0.083	0.0	0.3	0.1
3504	63.278	63.195	-0.082	0.0	0.3	0.1
3528	63.279	63.204	-0.081	0.0	0.3	0.1
3552	63.279	63.212	-0.081	0.0	0.3	0.1
3576	63.280	63.222	-0.080	0.0	0.3	0.1
3600	63.282	63.231	-0.078	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.283	63.243	-0.077	0.0	0.3	0.1
3648	63.284	63.250	-0.076	0.0	0.2	0.1
3672	63.287	63.250	-0.073	0.0	0.2	0.1
3696	63.289	63.249	-0.071	0.0	0.2	0.1
3720	63.292	63.251	-0.068	0.0	0.2	0.1
3744	63.295	63.250	-0.065	0.0	0.2	0.1
3768	63.298	63.250	-0.062	0.0	0.2	0.1
3792	63.301	63.250	-0.059	0.0	0.2	0.1
3816	63.304	63.250	-0.056	0.0	0.2	0.1
3840	63.308	63.251	-0.052	0.0	0.2	0.1
3864	63.312	63.252	-0.048	0.0	0.2	0.1
3888	63.316	63.250	-0.044	0.0	0.2	0.1
3912	63.319	63.251	-0.041	0.0	0.2	0.1
3936	63.324	63.252	-0.036	0.0	0.3	0.1
3960	63.328	63.255	-0.032	0.0	0.3	0.1
3984	63.332	63.258	-0.028	0.0	0.3	0.1
4008	63.337	63.262	-0.023	0.0	0.3	0.1
4032	63.341	63.265	-0.019	0.0	0.3	0.1
4056	63.346	63.269	-0.014	0.0	0.3	0.1
4080	63.351	63.274	-0.009	0.0	0.3	0.1
4104	63.356	63.278	-0.004	0.0	0.3	0.1
4128	63.362	63.281	0.002	0.0	0.2	0.1
4152	63.371	63.265	0.011	0.0	0.2	0.0
4176	63.378	63.258	0.018	0.0	0.2	0.1
4200	63.385	63.255	0.025	0.0	0.2	0.1
4224	63.392	63.257	0.032	0.0	0.3	0.1
4248	63.399	63.263	0.039	0.0	0.3	0.1
4272	63.405	63.273	0.045	0.0	0.3	0.1
4296	63.411	63.286	0.051	0.0	0.3	0.1
4320	63.417	63.303	0.057	0.0	0.3	0.1
4344	63.423	63.325	0.063	0.0	0.3	0.1
4368	63.428	63.346	0.068	0.0	0.3	0.1
4392	63.434	63.362	0.074	0.0	0.3	0.1
4416	63.440	63.374	0.080	0.0	0.3	0.1
4440	63.445	63.382	0.085	0.0	0.3	0.1
4464	63.451	63.388	0.091	0.0	0.3	0.1
4488	63.456	63.395	0.096	0.0	0.3	0.1
4512	63.461	63.400	0.101	0.0	0.3	0.1
4536	63.466	63.406	0.106	0.0	0.1	0.1
4560	63.471	63.411	0.111	0.0	0.1	0.1
4584	63.476	63.416	0.116	0.0	0.1	0.1
4608	63.480	63.420	0.120	0.0	0.0	0.1
4632	63.484	63.425	0.124	0.0	0.0	0.1
4656	63.489	63.429	0.129	0.0	0.0	0.1
4680	63.492	63.433	0.132	0.0	0.0	0.1
4704	63.496	63.436	0.136	0.0	0.0	0.1
4728	63.499	63.440	0.139	0.0	0.0	0.1
4752	63.503	63.443	0.143	0.0	0.0	0.1
4776	63.506	63.447	0.146	0.0	0.0	0.1
4800	63.508	63.450	0.148	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.511	63.453	0.151	0.0	0.0	0.1
4848	63.514	63.455	0.154	0.0	0.0	0.1
4872	63.516	63.458	0.156	0.0	0.0	0.1
4896	63.518	63.460	0.158	0.0	0.0	0.1
4920	63.520	63.462	0.160	0.0	0.0	0.1
4944	63.522	63.464	0.162	0.0	0.0	0.1
4968	63.524	63.466	0.164	0.0	0.0	0.1
4992	63.526	63.468	0.166	0.0	0.0	0.1
5016	63.528	63.470	0.168	0.0	0.0	0.1
5040	63.529	63.472	0.169	0.0	0.0	0.1
5064	63.530	63.473	0.170	0.0	0.0	0.1
5088	63.531	63.474	0.171	0.0	0.0	0.1
5112	63.532	63.476	0.172	0.0	0.0	0.1
5136	63.533	63.477	0.173	0.0	0.0	0.1
5160	63.534	63.478	0.174	0.0	0.0	0.1
5184	63.535	63.478	0.175	0.0	0.0	0.1
5208	63.535	63.479	0.175	0.0	0.0	0.1
5232	63.536	63.480	0.176	0.0	0.0	0.1
5256	63.536	63.480	0.176	0.0	0.0	0.1
5280	63.536	63.481	0.176	0.0	0.0	0.1
5304	63.536	63.481	0.176	0.0	0.0	0.1
5328	63.536	63.481	0.176	0.0	0.0	0.1
5352	63.536	63.481	0.176	0.0	0.0	0.1
5376	63.536	63.481	0.176	0.0	0.0	0.1
5400	63.536	63.481	0.176	0.0	0.0	0.1
5424	63.535	63.480	0.175	0.0	0.0	0.1
5448	63.535	63.480	0.175	0.0	0.0	0.1
5472	63.534	63.480	0.174	0.0	0.0	0.1
5496	63.534	63.479	0.174	0.0	0.0	0.1
5520	63.533	63.479	0.173	0.0	0.0	0.1
5544	63.532	63.478	0.172	0.0	0.0	0.1
5568	63.531	63.477	0.171	0.0	0.0	0.1
5592	63.530	63.476	0.170	0.0	0.0	0.1
5616	63.529	63.475	0.169	0.0	0.0	0.1
5640	63.528	63.475	0.168	0.0	0.0	0.1
5664	63.527	63.474	0.167	0.0	0.0	0.1
5688	63.526	63.472	0.166	0.0	0.0	0.1
5712	63.525	63.471	0.165	0.0	0.0	0.1
5736	63.523	63.470	0.163	0.0	0.0	0.1
5760	63.522	63.469	0.162	0.0	0.0	0.1
5784	63.521	63.468	0.161	0.0	0.0	0.1
5808	63.519	63.466	0.159	0.0	0.0	0.1
5832	63.518	63.465	0.158	0.0	0.0	0.1
5856	63.516	63.464	0.156	0.0	0.0	0.1
5880	63.515	63.462	0.155	0.0	0.0	0.1
5904	63.513	63.461	0.153	0.0	0.0	0.1
5928	63.512	63.460	0.152	0.0	0.0	0.1
5952	63.510	63.458	0.150	0.0	0.0	0.1
5976	63.509	63.456	0.149	0.0	0.0	0.1
6000	63.507	63.455	0.147	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.505	63.453	0.145	0.0	0.0	0.1
6048	63.504	63.452	0.144	0.0	0.0	0.1
6072	63.502	63.450	0.142	0.0	0.0	0.1
6096	63.500	63.448	0.140	0.0	0.0	0.1
6120	63.498	63.447	0.138	0.0	0.0	0.1
6144	63.496	63.445	0.136	0.0	0.0	0.1
6168	63.495	63.443	0.135	0.0	0.0	0.1
6192	63.493	63.442	0.133	0.0	0.0	0.1
6216	63.491	63.440	0.131	0.0	0.0	0.1
6240	63.489	63.438	0.129	0.0	0.0	0.1
6264	63.487	63.436	0.127	0.0	0.0	0.1
6288	63.485	63.434	0.125	0.0	0.0	0.1
6312	63.483	63.433	0.123	0.0	0.0	0.1
6336	63.481	63.431	0.121	0.0	0.0	0.1
6360	63.479	63.429	0.119	0.0	0.0	0.1
6384	63.477	63.427	0.117	0.0	0.0	0.1
6408	63.476	63.425	0.116	0.0	0.0	0.1
6432	63.474	63.423	0.114	0.0	0.0	0.1
6456	63.472	63.421	0.112	0.0	0.0	0.1
6480	63.470	63.419	0.110	0.0	0.0	0.1
6504	63.468	63.417	0.108	0.0	0.0	0.1
6528	63.466	63.416	0.106	0.0	0.0	0.1
6552	63.464	63.414	0.104	0.0	0.0	0.1
6576	63.462	63.412	0.102	0.0	0.1	0.1
6600	63.459	63.410	0.099	0.0	0.1	0.1
6624	63.457	63.408	0.097	0.0	0.1	0.1
6648	63.455	63.406	0.095	0.0	0.1	0.1
6672	63.453	63.404	0.093	0.0	0.1	0.1
6696	63.451	63.402	0.091	0.0	0.1	0.1
6720	63.449	63.400	0.089	0.0	0.2	0.1
6744	63.447	63.398	0.087	0.0	0.2	0.1
6768	63.445	63.396	0.085	0.0	0.3	0.1
6792	63.443	63.394	0.083	0.0	0.3	0.1
6816	63.441	63.392	0.081	0.0	0.3	0.1
6840	63.439	63.390	0.079	0.0	0.2	0.1
6864	63.437	63.388	0.077	0.0	0.2	0.1
6888	63.434	63.386	0.074	0.0	0.2	0.1
6912	63.432	63.384	0.072	0.0	0.2	0.1
6936	63.430	63.381	0.070	0.0	0.2	0.1
6960	63.428	63.379	0.068	0.0	0.3	0.1
6984	63.426	63.377	0.066	0.0	0.3	0.1
7008	63.424	63.375	0.064	0.0	0.2	0.1
7032	63.421	63.373	0.061	0.0	0.2	0.1
7056	63.419	63.371	0.059	0.0	0.2	0.1
7080	63.417	63.369	0.057	0.0	0.2	0.1
7104	63.415	63.367	0.055	0.0	0.2	0.1
7128	63.413	63.365	0.053	0.0	0.2	0.1
7152	63.411	63.363	0.051	0.0	0.2	0.1
7176	63.408	63.361	0.048	0.0	0.2	0.1
7200	63.406	63.359	0.046	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.404	63.356	0.044	0.0	0.2	0.1
7248	63.402	63.354	0.042	0.0	0.2	0.1
7272	63.400	63.352	0.040	0.0	0.2	0.1
7296	63.398	63.350	0.038	0.0	0.2	0.1
7320	63.395	63.348	0.035	0.0	0.2	0.1
7344	63.393	63.345	0.033	0.0	0.2	0.1
7368	63.391	63.342	0.031	0.0	0.2	0.1
7392	63.389	63.338	0.029	0.0	0.2	0.1
7416	63.387	63.335	0.027	0.0	0.2	0.1
7440	63.385	63.331	0.025	0.0	0.2	0.1
7464	63.383	63.328	0.023	0.0	0.2	0.1
7488	63.381	63.323	0.021	0.0	0.2	0.1
7512	63.379	63.318	0.019	0.0	0.2	0.1
7536	63.378	63.312	0.018	0.0	0.2	0.1
7560	63.376	63.305	0.016	0.0	0.2	0.1
7584	63.375	63.297	0.015	0.0	0.2	0.1
7608	63.373	63.288	0.013	0.0	0.2	0.1
7632	63.372	63.278	0.012	0.0	0.2	0.1
7656	63.370	63.267	0.010	0.0	0.2	0.0
7680	63.369	63.257	0.009	0.0	0.2	0.0
7704	63.368	63.252	0.008	0.0	0.2	0.1
7728	63.366	63.251	0.006	0.0	0.2	0.1
7752	63.363	63.251	0.003	0.0	0.2	0.1
7776	63.361	63.251	0.001	0.0	0.2	0.1
7800	63.358	63.259	-0.002	0.0	0.2	0.1
7824	63.355	63.270	-0.005	0.0	0.3	0.1
7848	63.352	63.275	-0.008	0.0	0.3	0.1
7872	63.349	63.278	-0.011	0.0	0.3	0.1
7896	63.347	63.279	-0.013	0.0	0.2	0.1
7920	63.345	63.279	-0.015	0.0	0.2	0.1
7944	63.343	63.278	-0.017	0.0	0.2	0.1
7968	63.341	63.276	-0.019	0.0	0.2	0.1
7992	63.338	63.274	-0.022	0.0	0.2	0.1
8016	63.336	63.273	-0.024	0.0	0.2	0.1
8040	63.334	63.271	-0.026	0.0	0.2	0.1
8064	63.332	63.269	-0.028	0.0	0.2	0.1
8088	63.330	63.267	-0.030	0.0	0.2	0.1
8112	63.328	63.265	-0.032	0.0	0.2	0.1
8136	63.326	63.263	-0.034	0.0	0.2	0.1
8160	63.324	63.261	-0.036	0.0	0.2	0.1
8184	63.321	63.259	-0.039	0.0	0.2	0.1
8208	63.319	63.257	-0.041	0.0	0.2	0.1
8232	63.317	63.255	-0.043	0.0	0.2	0.1
8256	63.315	63.253	-0.045	0.0	0.2	0.1
8280	63.313	63.251	-0.047	0.0	0.2	0.1
8304	63.310	63.252	-0.050	0.0	0.2	0.1
8328	63.308	63.253	-0.052	0.0	0.2	0.1
8352	63.306	63.251	-0.054	0.0	0.2	0.1
8376	63.304	63.251	-0.056	0.0	0.2	0.1
8400	63.302	63.250	-0.058	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.299	63.250	-0.061	0.0	0.2	0.1
8448	63.297	63.250	-0.063	0.0	0.2	0.1
8472	63.295	63.250	-0.065	0.0	0.2	0.1
8496	63.292	63.249	-0.068	0.0	0.2	0.1
8520	63.290	63.251	-0.070	0.0	0.2	0.1
8544	63.288	63.250	-0.072	0.0	0.2	0.1
8568	63.285	63.248	-0.075	0.0	0.2	0.1
8592	63.283	63.249	-0.077	0.0	0.2	0.1
8616	63.280	63.250	-0.080	0.0	0.2	0.1
8640	63.277	63.249	-0.083	0.0	0.2	0.1
8664	63.274	63.250	-0.086	0.0	0.2	0.1
8688	63.271	63.247	-0.089	0.0	0.2	0.1
8712	63.269	63.243	-0.091	0.0	0.2	0.1
8736	63.267	63.235	-0.093	0.0	0.2	0.0
8760	63.264	63.221	-0.096	0.0	0.2	0.0
8784	63.263	63.206	-0.097	0.0	0.1	0.0
8808	63.262	63.190	-0.098	0.0	0.1	0.0
8832	63.261	63.172	-0.099	0.0	0.1	0.0
8856	63.260	63.153	-0.100	0.0	0.1	0.0
8880	63.259	63.135	-0.101	0.0	0.1	0.0
8904	63.258	63.125	-0.102	0.0	0.1	0.0
8928	63.258	63.119	-0.102	0.0	0.0	0.0
8952	63.257	63.114	-0.103	0.0	0.0	0.0
8976	63.257	63.112	-0.103	0.0	0.0	0.0
9000	63.256	63.110	-0.104	0.0	0.0	0.0
9024	63.256	63.108	-0.104	0.0	0.0	0.0
9048	63.256	63.107	-0.104	0.0	0.0	0.0
9072	63.255	63.106	-0.105	0.0	0.0	0.0
9096	63.255	63.105	-0.105	0.0	0.0	0.0
9120	63.255	63.105	-0.105	0.0	0.0	0.0
9144	63.255	63.104	-0.105	0.0	0.0	0.0
9168	63.255	63.104	-0.105	0.0	0.0	0.0
9192	63.254	63.103	-0.106	0.0	0.0	0.0
9216	63.254	63.103	-0.106	0.0	0.0	0.0
9240	63.254	63.103	-0.106	0.0	0.0	0.0
9264	63.254	63.103	-0.106	0.0	0.0	0.0
9288	63.254	63.102	-0.106	0.0	0.0	0.0
9312	63.254	63.102	-0.106	0.0	0.0	0.0
9336	63.254	63.102	-0.106	0.0	0.0	0.0
9360	63.253	63.102	-0.107	0.0	0.0	0.0
9384	63.253	63.102	-0.107	0.0	0.0	0.0
9408	63.253	63.102	-0.107	0.0	0.0	0.0
9432	63.253	63.102	-0.107	0.0	0.0	0.0
9456	63.253	63.102	-0.107	0.0	0.0	0.0
9480	63.253	63.101	-0.107	0.0	0.0	0.0
9504	63.253	63.101	-0.107	0.0	0.0	0.0
9528	63.253	63.101	-0.107	0.0	0.0	0.0
9552	63.253	63.101	-0.107	0.0	0.0	0.0
9576	63.253	63.101	-0.107	0.0	0.0	0.0
9600	63.253	63.101	-0.107	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.252	63.101	-0.108	0.0	0.0	0.0
9648	63.252	63.101	-0.108	0.0	0.0	0.0
9672	63.252	63.101	-0.108	0.0	0.0	0.0
9696	63.252	63.101	-0.108	0.0	0.0	0.0
9720	63.252	63.101	-0.108	0.0	0.0	0.0
9744	63.252	63.101	-0.108	0.0	0.0	0.0
9768	63.252	63.101	-0.108	0.0	0.0	0.0
9792	63.252	63.101	-0.108	0.0	0.0	0.0
9816	63.252	63.101	-0.108	0.0	0.0	0.0
9840	63.252	63.101	-0.108	0.0	0.0	0.0
9864	63.252	63.101	-0.108	0.0	0.0	0.0
9888	63.252	63.101	-0.108	0.0	0.0	0.0
9912	63.252	63.101	-0.108	0.0	0.0	0.0
9936	63.252	63.101	-0.108	0.0	0.0	0.0
9960	63.252	63.101	-0.108	0.0	0.0	0.0
9984	63.252	63.101	-0.108	0.0	0.0	0.0
10008	63.252	63.101	-0.108	0.0	0.0	0.0
10032	63.252	63.101	-0.108	0.0	0.0	0.0
10056	63.252	63.101	-0.108	0.0	0.0	0.0
10080	63.252	63.101	-0.108	0.0	0.0	0.0
10104	63.252	63.101	-0.108	0.0	0.0	0.0
10128	63.252	63.101	-0.108	0.0	0.0	0.0
10152	63.252	63.101	-0.108	0.0	0.0	0.0
10176	63.252	63.100	-0.108	0.0	0.0	0.0
10200	63.252	63.100	-0.108	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.251	63.100	-0.109	0.0	0.0	0.0
12408	63.251	63.100	-0.109	0.0	0.0	0.0
12432	63.251	63.100	-0.109	0.0	0.0	0.0
12456	63.251	63.100	-0.109	0.0	0.0	0.0
12480	63.251	63.100	-0.109	0.0	0.0	0.0
12504	63.251	63.100	-0.109	0.0	0.0	0.0
12528	63.251	63.100	-0.109	0.0	0.0	0.0
12552	63.251	63.100	-0.109	0.0	0.0	0.0
12576	63.251	63.100	-0.109	0.0	0.0	0.0
12600	63.251	63.100	-0.109	0.0	0.0	0.0
12624	63.251	63.100	-0.109	0.0	0.0	0.0
12648	63.251	63.100	-0.109	0.0	0.0	0.0
12672	63.251	63.100	-0.109	0.0	0.0	0.0
12696	63.251	63.100	-0.109	0.0	0.0	0.0
12720	63.251	63.100	-0.109	0.0	0.0	0.0
12744	63.251	63.100	-0.109	0.0	0.0	0.0
12768	63.251	63.100	-0.109	0.0	0.0	0.0
12792	63.251	63.100	-0.109	0.0	0.0	0.0
12816	63.251	63.100	-0.109	0.0	0.0	0.0
12840	63.251	63.100	-0.109	0.0	0.0	0.0
12864	63.251	63.100	-0.109	0.0	0.0	0.0
12888	63.251	63.100	-0.109	0.0	0.0	0.0
12912	63.251	63.100	-0.109	0.0	0.0	0.0
12936	63.251	63.100	-0.109	0.0	0.0	0.0
12960	63.251	63.100	-0.109	0.0	0.0	0.0
12984	63.251	63.100	-0.109	0.0	0.0	0.0
13008	63.251	63.100	-0.109	0.0	0.0	0.0
13032	63.251	63.100	-0.109	0.0	0.0	0.0
13056	63.251	63.100	-0.109	0.0	0.0	0.0
13080	63.251	63.100	-0.109	0.0	0.0	0.0
13104	63.251	63.100	-0.109	0.0	0.0	0.0
13128	63.251	63.100	-0.109	0.0	0.0	0.0
13152	63.251	63.100	-0.109	0.0	0.0	0.0
13176	63.251	63.100	-0.109	0.0	0.0	0.0
13200	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.251	63.100	-0.109	0.0	0.0	0.0
13248	63.251	63.100	-0.109	0.0	0.0	0.0
13272	63.250	63.100	-0.110	0.0	0.0	0.0
13296	63.250	63.100	-0.110	0.0	0.0	0.0
13320	63.250	63.100	-0.110	0.0	0.0	0.0
13344	63.250	63.100	-0.110	0.0	0.0	0.0
13368	63.250	63.100	-0.110	0.0	0.0	0.0
13392	63.250	63.100	-0.110	0.0	0.0	0.0
13416	63.250	63.100	-0.110	0.0	0.0	0.0
13440	63.250	63.100	-0.110	0.0	0.0	0.0
13464	63.250	63.100	-0.110	0.0	0.0	0.0
13488	63.250	63.100	-0.110	0.0	0.0	0.0
13512	63.250	63.100	-0.110	0.0	0.0	0.0
13536	63.250	63.100	-0.110	0.0	0.0	0.0
13560	63.250	63.100	-0.110	0.0	0.0	0.0
13584	63.250	63.100	-0.110	0.0	0.0	0.0
13608	63.250	63.100	-0.110	0.0	0.0	0.0
13632	63.250	63.100	-0.110	0.0	0.0	0.0
13656	63.250	63.100	-0.110	0.0	0.0	0.0
13680	63.250	63.100	-0.110	0.0	0.0	0.0
13704	63.250	63.100	-0.110	0.0	0.0	0.0
13728	63.250	63.100	-0.110	0.0	0.0	0.0
13752	63.250	63.100	-0.110	0.0	0.0	0.0
13776	63.250	63.100	-0.110	0.0	0.0	0.0
13800	63.250	63.100	-0.110	0.0	0.0	0.0
13824	63.250	63.100	-0.110	0.0	0.0	0.0
13848	63.250	63.100	-0.110	0.0	0.0	0.0
13872	63.250	63.100	-0.110	0.0	0.0	0.0
13896	63.250	63.100	-0.110	0.0	0.0	0.0
13920	63.250	63.100	-0.110	0.0	0.0	0.0
13944	63.250	63.100	-0.110	0.0	0.0	0.0
13968	63.250	63.100	-0.110	0.0	0.0	0.0
13992	63.250	63.100	-0.110	0.0	0.0	0.0
14016	63.250	63.100	-0.110	0.0	0.0	0.0
14040	63.250	63.100	-0.110	0.0	0.0	0.0
14064	63.250	63.100	-0.110	0.0	0.0	0.0
14088	63.250	63.100	-0.110	0.0	0.0	0.0
14112	63.250	63.100	-0.110	0.0	0.0	0.0
14136	63.250	63.100	-0.110	0.0	0.0	0.0
14160	63.250	63.100	-0.110	0.0	0.0	0.0
14184	63.250	63.100	-0.110	0.0	0.0	0.0
14208	63.250	63.100	-0.110	0.0	0.0	0.0
14232	63.250	63.100	-0.110	0.0	0.0	0.0
14256	63.250	63.100	-0.110	0.0	0.0	0.0
14280	63.250	63.100	-0.110	0.0	0.0	0.0
14304	63.250	63.100	-0.110	0.0	0.0	0.0
14328	63.250	63.100	-0.110	0.0	0.0	0.0
14352	63.250	63.100	-0.110	0.0	0.0	0.0
14376	63.250	63.100	-0.110	0.0	0.0	0.0
14400	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.250	63.100	-0.110	0.0	0.0	0.0
14448	63.250	63.100	-0.110	0.0	0.0	0.0
14472	63.250	63.100	-0.110	0.0	0.0	0.0
14496	63.250	63.100	-0.110	0.0	0.0	0.0
14520	63.250	63.100	-0.110	0.0	0.0	0.0
14544	63.250	63.100	-0.110	0.0	0.0	0.0
14568	63.250	63.100	-0.110	0.0	0.0	0.0
14592	63.250	63.100	-0.110	0.0	0.0	0.0
14616	63.250	63.100	-0.110	0.0	0.0	0.0
14640	63.250	63.100	-0.110	0.0	0.0	0.0
14664	63.250	63.100	-0.110	0.0	0.0	0.0
14688	63.250	63.100	-0.110	0.0	0.0	0.0
14712	63.250	63.100	-0.110	0.0	0.0	0.0
14736	63.250	63.100	-0.110	0.0	0.0	0.0
14760	63.250	63.100	-0.110	0.0	0.0	0.0
14784	63.250	63.100	-0.110	0.0	0.0	0.0
14808	63.250	63.100	-0.110	0.0	0.0	0.0
14832	63.250	63.100	-0.110	0.0	0.0	0.0
14856	63.250	63.100	-0.110	0.0	0.0	0.0
14880	63.250	63.100	-0.110	0.0	0.0	0.0
14904	63.250	63.100	-0.110	0.0	0.0	0.0
14928	63.250	63.100	-0.110	0.0	0.0	0.0
14952	63.250	63.100	-0.110	0.0	0.0	0.0
14976	63.250	63.100	-0.110	0.0	0.0	0.0
15000	63.250	63.100	-0.110	0.0	0.0	0.0
15024	63.250	63.100	-0.110	0.0	0.0	0.0
15048	63.250	63.100	-0.110	0.0	0.0	0.0
15072	63.250	63.100	-0.110	0.0	0.0	0.0
15096	63.250	63.100	-0.110	0.0	0.0	0.0
15120	63.250	63.100	-0.110	0.0	0.0	0.0
15144	63.250	63.100	-0.110	0.0	0.0	0.0
15168	63.250	63.100	-0.110	0.0	0.0	0.0
15192	63.250	63.100	-0.110	0.0	0.0	0.0
15216	63.250	63.100	-0.110	0.0	0.0	0.0
15240	63.250	63.100	-0.110	0.0	0.0	0.0
15264	63.250	63.100	-0.110	0.0	0.0	0.0
15288	63.250	63.100	-0.110	0.0	0.0	0.0
15312	63.250	63.100	-0.110	0.0	0.0	0.0
15336	63.250	63.100	-0.110	0.0	0.0	0.0
15360	63.250	63.100	-0.110	0.0	0.0	0.0
15384	63.250	63.100	-0.110	0.0	0.0	0.0
15408	63.250	63.100	-0.110	0.0	0.0	0.0
15432	63.250	63.100	-0.110	0.0	0.0	0.0
15456	63.250	63.100	-0.110	0.0	0.0	0.0
15480	63.250	63.100	-0.110	0.0	0.0	0.0
15504	63.250	63.100	-0.110	0.0	0.0	0.0
15528	63.250	63.100	-0.110	0.0	0.0	0.0
15552	63.250	63.100	-0.110	0.0	0.0	0.0
15576	63.250	63.100	-0.110	0.0	0.0	0.0
15600	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.250	63.100	-0.110	0.0	0.0	0.0
15648	63.250	63.100	-0.110	0.0	0.0	0.0
15672	63.250	63.100	-0.110	0.0	0.0	0.0
15696	63.250	63.100	-0.110	0.0	0.0	0.0
15720	63.250	63.100	-0.110	0.0	0.0	0.0
15744	63.250	63.100	-0.110	0.0	0.0	0.0
15768	63.250	63.100	-0.110	0.0	0.0	0.0
15792	63.250	63.100	-0.110	0.0	0.0	0.0
15816	63.250	63.100	-0.110	0.0	0.0	0.0
15840	63.250	63.100	-0.110	0.0	0.0	0.0
15864	63.250	63.100	-0.110	0.0	0.0	0.0
15888	63.250	63.100	-0.110	0.0	0.0	0.0
15912	63.250	63.100	-0.110	0.0	0.0	0.0
15936	63.250	63.100	-0.110	0.0	0.0	0.0
15960	63.250	63.100	-0.110	0.0	0.0	0.0
15984	63.250	63.100	-0.110	0.0	0.0	0.0
16008	63.250	63.100	-0.110	0.0	0.0	0.0
16032	63.250	63.100	-0.110	0.0	0.0	0.0
16056	63.250	63.100	-0.110	0.0	0.0	0.0
16080	63.250	63.100	-0.110	0.0	0.0	0.0
16104	63.250	63.100	-0.110	0.0	0.0	0.0
16128	63.250	63.100	-0.110	0.0	0.0	0.0
16152	63.250	63.100	-0.110	0.0	0.0	0.0
16176	63.250	63.100	-0.110	0.0	0.0	0.0
16200	63.250	63.100	-0.110	0.0	0.0	0.0
16224	63.250	63.100	-0.110	0.0	0.0	0.0
16248	63.250	63.100	-0.110	0.0	0.0	0.0
16272	63.250	63.100	-0.110	0.0	0.0	0.0
16296	63.250	63.100	-0.110	0.0	0.0	0.0
16320	63.250	63.100	-0.110	0.0	0.0	0.0
16344	63.250	63.100	-0.110	0.0	0.0	0.0
16368	63.250	63.100	-0.110	0.0	0.0	0.0
16392	63.250	63.100	-0.110	0.0	0.0	0.0
16416	63.250	63.100	-0.110	0.0	0.0	0.0
16440	63.250	63.100	-0.110	0.0	0.0	0.0
16464	63.250	63.100	-0.110	0.0	0.0	0.0
16488	63.250	63.100	-0.110	0.0	0.0	0.0
16512	63.250	63.100	-0.110	0.0	0.0	0.0
16536	63.250	63.100	-0.110	0.0	0.0	0.0
16560	63.250	63.100	-0.110	0.0	0.0	0.0
16584	63.250	63.100	-0.110	0.0	0.0	0.0
16608	63.250	63.100	-0.110	0.0	0.0	0.0
16632	63.250	63.100	-0.110	0.0	0.0	0.0
16656	63.250	63.100	-0.110	0.0	0.0	0.0
16680	63.250	63.100	-0.110	0.0	0.0	0.0
16704	63.250	63.100	-0.110	0.0	0.0	0.0
16728	63.250	63.100	-0.110	0.0	0.0	0.0
16752	63.250	63.100	-0.110	0.0	0.0	0.0
16776	63.250	63.100	-0.110	0.0	0.0	0.0
16800	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.250	63.100	-0.110	0.0	0.0	0.0
16848	63.250	63.100	-0.110	0.0	0.0	0.0
16872	63.250	63.100	-0.110	0.0	0.0	0.0
16896	63.250	63.100	-0.110	0.0	0.0	0.0
16920	63.250	63.100	-0.110	0.0	0.0	0.0
16944	63.250	63.100	-0.110	0.0	0.0	0.0
16968	63.250	63.100	-0.110	0.0	0.0	0.0
16992	63.250	63.100	-0.110	0.0	0.0	0.0
17016	63.250	63.100	-0.110	0.0	0.0	0.0
17040	63.250	63.100	-0.110	0.0	0.0	0.0
17064	63.250	63.100	-0.110	0.0	0.0	0.0
17088	63.250	63.100	-0.110	0.0	0.0	0.0
17112	63.250	63.100	-0.110	0.0	0.0	0.0
17136	63.250	63.100	-0.110	0.0	0.0	0.0
17160	63.250	63.100	-0.110	0.0	0.0	0.0
17184	63.250	63.100	-0.110	0.0	0.0	0.0
17208	63.250	63.100	-0.110	0.0	0.0	0.0
17232	63.250	63.100	-0.110	0.0	0.0	0.0
17256	63.250	63.100	-0.110	0.0	0.0	0.0
17280	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.101	63.096	-0.109	0.0	0.0	0.0
120	63.101	63.096	-0.109	0.0	0.0	0.0
144	63.102	63.096	-0.108	0.0	0.0	0.0
168	63.103	63.096	-0.107	0.0	0.0	0.0
192	63.104	63.096	-0.106	0.0	0.0	0.0
216	63.105	63.096	-0.105	0.0	0.0	0.0
240	63.106	63.096	-0.104	0.0	0.0	0.0
264	63.107	63.096	-0.103	0.0	0.0	0.0
288	63.107	63.096	-0.103	0.0	0.0	0.0
312	63.108	63.096	-0.102	0.0	0.0	0.0
336	63.109	63.096	-0.101	0.0	0.0	0.0
360	63.110	63.096	-0.100	0.0	0.0	0.0
384	63.111	63.096	-0.099	0.0	0.0	0.0
408	63.112	63.096	-0.098	0.0	0.0	0.0
432	63.113	63.096	-0.097	0.0	0.0	0.0
456	63.113	63.096	-0.097	0.0	0.0	0.0
480	63.114	63.096	-0.096	0.0	0.0	0.0
504	63.114	63.096	-0.096	0.0	0.0	0.0
528	63.115	63.096	-0.095	0.0	0.0	0.0
552	63.115	63.096	-0.095	0.0	0.0	0.0
576	63.115	63.096	-0.095	0.0	0.0	0.0
600	63.115	63.096	-0.095	0.0	0.0	0.0
624	63.115	63.096	-0.095	0.0	0.0	0.0
648	63.116	63.096	-0.094	0.0	0.0	0.0
672	63.116	63.096	-0.094	0.0	0.0	0.0
696	63.116	63.096	-0.094	0.0	0.0	0.0
720	63.116	63.096	-0.094	0.0	0.0	0.0
744	63.116	63.096	-0.094	0.0	0.0	0.0
768	63.116	63.096	-0.094	0.0	0.0	0.0
792	63.116	63.096	-0.094	0.0	0.0	0.0
816	63.116	63.096	-0.094	0.0	0.0	0.0
840	63.117	63.096	-0.093	0.0	0.0	0.0
864	63.117	63.096	-0.093	0.0	0.0	0.0
888	63.117	63.096	-0.093	0.0	0.0	0.0
912	63.117	63.096	-0.093	0.0	0.0	0.0
936	63.117	63.096	-0.093	0.0	0.0	0.0
960	63.117	63.096	-0.093	0.0	0.0	0.0
984	63.117	63.096	-0.093	0.0	0.0	0.0
1008	63.117	63.096	-0.093	0.0	0.0	0.0
1032	63.117	63.096	-0.093	0.0	0.0	0.0
1056	63.117	63.096	-0.093	0.0	0.0	0.0
1080	63.117	63.096	-0.093	0.0	0.0	0.0
1104	63.117	63.096	-0.093	0.0	0.0	0.0
1128	63.117	63.096	-0.093	0.0	0.0	0.0
1152	63.118	63.096	-0.092	0.0	0.0	0.0
1176	63.118	63.096	-0.092	0.0	0.0	0.0
1200	63.118	63.096	-0.092	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.118	63.096	-0.092	0.0	0.0	0.0
1248	63.118	63.096	-0.092	0.0	0.0	0.0
1272	63.118	63.096	-0.092	0.0	0.0	0.0
1296	63.118	63.096	-0.092	0.0	0.0	0.0
1320	63.118	63.096	-0.092	0.0	0.0	0.0
1344	63.118	63.096	-0.092	0.0	0.0	0.0
1368	63.118	63.096	-0.092	0.0	0.0	0.0
1392	63.118	63.096	-0.092	0.0	0.0	0.0
1416	63.119	63.096	-0.091	0.0	0.0	0.0
1440	63.119	63.096	-0.091	0.0	0.0	0.0
1464	63.119	63.096	-0.091	0.0	0.0	0.0
1488	63.119	63.096	-0.091	0.0	0.0	0.0
1512	63.119	63.096	-0.091	0.0	0.0	0.0
1536	63.119	63.096	-0.091	0.0	0.0	0.0
1560	63.119	63.096	-0.091	0.0	0.0	0.0
1584	63.119	63.096	-0.091	0.0	0.0	0.0
1608	63.120	63.096	-0.090	0.0	0.0	0.0
1632	63.120	63.096	-0.090	0.0	0.0	0.0
1656	63.120	63.096	-0.090	0.0	0.0	0.0
1680	63.120	63.096	-0.090	0.0	0.0	0.0
1704	63.120	63.096	-0.090	0.0	0.0	0.0
1728	63.120	63.096	-0.090	0.0	0.0	0.0
1752	63.120	63.096	-0.090	0.0	0.0	0.0
1776	63.120	63.096	-0.090	0.0	0.0	0.0
1800	63.121	63.096	-0.089	0.0	0.0	0.0
1824	63.121	63.096	-0.089	0.0	0.0	0.0
1848	63.121	63.096	-0.089	0.0	0.0	0.0
1872	63.121	63.096	-0.089	0.0	0.0	0.0
1896	63.121	63.096	-0.089	0.0	0.0	0.0
1920	63.121	63.096	-0.089	0.0	0.0	0.0
1944	63.122	63.096	-0.088	0.0	0.0	0.0
1968	63.122	63.096	-0.088	0.0	0.0	0.0
1992	63.122	63.096	-0.088	0.0	0.0	0.0
2016	63.122	63.096	-0.088	0.0	0.0	0.0
2040	63.122	63.096	-0.088	0.0	0.0	0.0
2064	63.122	63.096	-0.088	0.0	0.0	0.0
2088	63.123	63.096	-0.087	0.0	0.0	0.0
2112	63.123	63.096	-0.087	0.0	0.0	0.0
2136	63.123	63.096	-0.087	0.0	0.0	0.0
2160	63.123	63.096	-0.087	0.0	0.0	0.0
2184	63.123	63.096	-0.087	0.0	0.0	0.0
2208	63.124	63.096	-0.086	0.0	0.0	0.0
2232	63.124	63.096	-0.086	0.0	0.0	0.0
2256	63.124	63.096	-0.086	0.0	0.0	0.0
2280	63.124	63.096	-0.086	0.0	0.0	0.0
2304	63.125	63.096	-0.085	0.0	0.0	0.0
2328	63.125	63.096	-0.085	0.0	0.0	0.0
2352	63.125	63.096	-0.085	0.0	0.0	0.0
2376	63.125	63.096	-0.085	0.0	0.0	0.0
2400	63.126	63.096	-0.084	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.126	63.096	-0.084	0.0	0.0	0.0
2448	63.126	63.096	-0.084	0.0	0.0	0.0
2472	63.126	63.096	-0.084	0.0	0.0	0.0
2496	63.127	63.096	-0.083	0.0	0.0	0.0
2520	63.127	63.096	-0.083	0.0	0.0	0.0
2544	63.127	63.096	-0.083	0.0	0.0	0.0
2568	63.128	63.096	-0.082	0.0	0.0	0.0
2592	63.128	63.096	-0.082	0.0	0.0	0.0
2616	63.128	63.096	-0.082	0.0	0.0	0.0
2640	63.129	63.096	-0.081	0.0	0.0	0.0
2664	63.129	63.096	-0.081	0.0	0.0	0.0
2688	63.130	63.096	-0.080	0.0	0.0	0.0
2712	63.130	63.096	-0.080	0.0	0.0	0.0
2736	63.131	63.096	-0.079	0.0	0.0	0.0
2760	63.131	63.096	-0.079	0.0	0.0	0.0
2784	63.131	63.096	-0.079	0.0	0.0	0.0
2808	63.132	63.096	-0.078	0.0	0.0	0.0
2832	63.133	63.096	-0.077	0.0	0.0	0.0
2856	63.133	63.096	-0.077	0.0	0.0	0.0
2880	63.134	63.096	-0.076	0.0	0.0	0.0
2904	63.135	63.096	-0.075	0.0	0.0	0.0
2928	63.135	63.096	-0.075	0.0	0.0	0.0
2952	63.136	63.096	-0.074	0.0	0.0	0.0
2976	63.137	63.096	-0.073	0.0	0.0	0.0
3000	63.137	63.096	-0.073	0.0	0.0	0.0
3024	63.138	63.096	-0.072	0.0	0.0	0.0
3048	63.139	63.096	-0.071	0.0	0.0	0.0
3072	63.140	63.096	-0.070	0.0	0.0	0.0
3096	63.141	63.096	-0.069	0.0	0.0	0.0
3120	63.142	63.096	-0.068	0.0	0.0	0.0
3144	63.143	63.096	-0.067	0.0	0.0	0.0
3168	63.144	63.096	-0.066	0.0	0.0	0.0
3192	63.145	63.096	-0.065	0.0	0.0	0.0
3216	63.146	63.096	-0.064	0.0	0.0	0.0
3240	63.147	63.096	-0.063	0.0	0.0	0.0
3264	63.149	63.096	-0.061	0.0	0.0	0.0
3288	63.150	63.096	-0.060	0.0	0.0	0.0
3312	63.152	63.096	-0.058	0.0	0.0	0.0
3336	63.155	63.096	-0.055	0.0	0.0	0.0
3360	63.158	63.096	-0.052	0.0	0.0	0.0
3384	63.163	63.096	-0.047	0.0	0.0	0.0
3408	63.168	63.096	-0.042	0.0	0.0	0.0
3432	63.174	63.096	-0.036	0.0	0.0	0.0
3456	63.180	63.096	-0.030	0.0	0.0	0.0
3480	63.187	63.096	-0.023	0.0	0.0	0.0
3504	63.195	63.096	-0.015	0.0	0.0	0.0
3528	63.204	63.096	-0.006	0.0	0.0	0.0
3552	63.212	63.096	0.002	0.0	0.0	0.0
3576	63.222	63.096	0.012	0.0	0.0	0.0
3600	63.231	63.096	0.021	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.243	63.096	0.033	0.0	0.0	0.0
3648	63.250	63.096	0.040	0.0	0.0	0.0
3672	63.250	63.096	0.040	0.0	0.0	0.0
3696	63.249	63.096	0.039	0.0	0.0	0.0
3720	63.251	63.096	0.041	0.0	0.0	0.0
3744	63.250	63.096	0.040	0.0	0.0	0.0
3768	63.250	63.096	0.040	0.0	0.0	0.0
3792	63.250	63.096	0.040	0.0	0.0	0.0
3816	63.250	63.096	0.040	0.0	0.0	0.0
3840	63.251	63.096	0.041	0.0	0.0	0.0
3864	63.252	63.096	0.042	0.0	0.0	0.0
3888	63.250	63.096	0.040	0.0	0.0	0.0
3912	63.251	63.096	0.041	0.0	0.0	0.0
3936	63.252	63.096	0.042	0.0	0.0	0.0
3960	63.255	63.096	0.045	0.0	0.0	0.0
3984	63.258	63.096	0.048	0.0	0.0	0.0
4008	63.262	63.096	0.052	0.0	0.0	0.0
4032	63.265	63.096	0.055	0.0	0.0	0.0
4056	63.269	63.096	0.059	0.0	0.0	0.0
4080	63.274	63.096	0.064	0.0	0.0	0.0
4104	63.278	63.096	0.068	0.0	0.0	0.0
4128	63.281	63.096	0.071	0.0	0.0	0.0
4152	63.265	63.096	0.055	0.0	0.0	0.0
4176	63.258	63.096	0.048	0.0	0.0	0.0
4200	63.255	63.096	0.045	0.0	0.0	0.0
4224	63.257	63.096	0.047	0.0	0.0	0.0
4248	63.263	63.096	0.053	0.0	0.0	0.0
4272	63.273	63.096	0.063	0.0	0.0	0.0
4296	63.286	63.096	0.076	0.0	0.0	0.0
4320	63.303	63.096	0.093	0.0	0.0	0.0
4344	63.325	63.096	0.115	0.0	0.0	0.0
4368	63.346	63.096	0.136	0.0	0.1	0.0
4392	63.362	63.096	0.152	0.0	0.1	0.0
4416	63.374	63.096	0.164	0.0	0.1	0.0
4440	63.382	63.096	0.172	0.0	0.1	0.0
4464	63.388	63.096	0.178	0.0	0.1	0.0
4488	63.395	63.096	0.185	0.0	0.1	0.0
4512	63.400	63.096	0.190	0.0	0.1	0.0
4536	63.406	63.096	0.196	0.0	0.1	0.0
4560	63.411	63.096	0.201	0.0	0.1	0.0
4584	63.416	63.096	0.206	0.0	0.1	0.0
4608	63.420	63.096	0.210	0.0	0.1	0.0
4632	63.425	63.096	0.215	0.0	0.1	0.0
4656	63.429	63.096	0.219	0.0	0.1	0.0
4680	63.433	63.096	0.223	0.0	0.1	0.0
4704	63.436	63.096	0.226	0.0	0.1	0.0
4728	63.440	63.096	0.230	0.0	0.1	0.0
4752	63.443	63.096	0.233	0.0	0.1	0.0
4776	63.447	63.096	0.237	0.0	0.1	0.0
4800	63.450	63.096	0.240	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.453	63.096	0.243	0.0	0.1	0.0
4848	63.455	63.096	0.245	0.0	0.1	0.0
4872	63.458	63.096	0.248	0.0	0.1	0.0
4896	63.460	63.096	0.250	0.0	0.1	0.0
4920	63.462	63.096	0.252	0.0	0.1	0.0
4944	63.464	63.096	0.254	0.0	0.1	0.0
4968	63.466	63.096	0.256	0.0	0.1	0.0
4992	63.468	63.096	0.258	0.0	0.1	0.0
5016	63.470	63.096	0.260	0.0	0.1	0.0
5040	63.472	63.096	0.262	0.0	0.1	0.0
5064	63.473	63.096	0.263	0.0	0.1	0.0
5088	63.474	63.096	0.264	0.0	0.1	0.0
5112	63.476	63.096	0.266	0.0	0.1	0.0
5136	63.477	63.096	0.267	0.0	0.1	0.0
5160	63.478	63.096	0.268	0.0	0.1	0.0
5184	63.478	63.096	0.268	0.0	0.1	0.0
5208	63.479	63.096	0.269	0.0	0.1	0.0
5232	63.480	63.096	0.270	0.0	0.1	0.0
5256	63.480	63.096	0.270	0.0	0.1	0.0
5280	63.481	63.096	0.271	0.0	0.1	0.0
5304	63.481	63.096	0.271	0.0	0.1	0.0
5328	63.481	63.096	0.271	0.0	0.1	0.0
5352	63.481	63.096	0.271	0.0	0.1	0.0
5376	63.481	63.096	0.271	0.0	0.1	0.0
5400	63.481	63.096	0.271	0.0	0.1	0.0
5424	63.480	63.096	0.270	0.0	0.1	0.0
5448	63.480	63.096	0.270	0.0	0.1	0.0
5472	63.480	63.096	0.270	0.0	0.1	0.0
5496	63.479	63.096	0.269	0.0	0.1	0.0
5520	63.479	63.096	0.269	0.0	0.1	0.0
5544	63.478	63.096	0.268	0.0	0.1	0.0
5568	63.477	63.096	0.267	0.0	0.1	0.0
5592	63.476	63.096	0.266	0.0	0.1	0.0
5616	63.475	63.096	0.265	0.0	0.1	0.0
5640	63.475	63.096	0.265	0.0	0.1	0.0
5664	63.474	63.096	0.264	0.0	0.1	0.0
5688	63.472	63.096	0.262	0.0	0.1	0.0
5712	63.471	63.096	0.261	0.0	0.1	0.0
5736	63.470	63.096	0.260	0.0	0.1	0.0
5760	63.469	63.096	0.259	0.0	0.1	0.0
5784	63.468	63.096	0.258	0.0	0.1	0.0
5808	63.466	63.096	0.256	0.0	0.1	0.0
5832	63.465	63.096	0.255	0.0	0.1	0.0
5856	63.464	63.096	0.254	0.0	0.1	0.0
5880	63.462	63.096	0.252	0.0	0.1	0.0
5904	63.461	63.096	0.251	0.0	0.1	0.0
5928	63.460	63.096	0.250	0.0	0.1	0.0
5952	63.458	63.096	0.248	0.0	0.1	0.0
5976	63.456	63.096	0.246	0.0	0.1	0.0
6000	63.455	63.096	0.245	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.453	63.096	0.243	0.0	0.1	0.0
6048	63.452	63.096	0.242	0.0	0.1	0.0
6072	63.450	63.096	0.240	0.0	0.1	0.0
6096	63.448	63.096	0.238	0.0	0.1	0.0
6120	63.447	63.096	0.237	0.0	0.1	0.0
6144	63.445	63.096	0.235	0.0	0.1	0.0
6168	63.443	63.096	0.233	0.0	0.1	0.0
6192	63.442	63.096	0.232	0.0	0.1	0.0
6216	63.440	63.096	0.230	0.0	0.1	0.0
6240	63.438	63.096	0.228	0.0	0.1	0.0
6264	63.436	63.096	0.226	0.0	0.1	0.0
6288	63.434	63.096	0.224	0.0	0.1	0.0
6312	63.433	63.096	0.223	0.0	0.1	0.0
6336	63.431	63.096	0.221	0.0	0.1	0.0
6360	63.429	63.096	0.219	0.0	0.1	0.0
6384	63.427	63.096	0.217	0.0	0.1	0.0
6408	63.425	63.096	0.215	0.0	0.1	0.0
6432	63.423	63.096	0.213	0.0	0.1	0.0
6456	63.421	63.096	0.211	0.0	0.1	0.0
6480	63.419	63.096	0.209	0.0	0.1	0.0
6504	63.417	63.096	0.207	0.0	0.1	0.0
6528	63.416	63.096	0.206	0.0	0.1	0.0
6552	63.414	63.096	0.204	0.0	0.1	0.0
6576	63.412	63.096	0.202	0.0	0.1	0.0
6600	63.410	63.096	0.200	0.0	0.1	0.0
6624	63.408	63.096	0.198	0.0	0.1	0.0
6648	63.406	63.096	0.196	0.0	0.1	0.0
6672	63.404	63.096	0.194	0.0	0.1	0.0
6696	63.402	63.096	0.192	0.0	0.1	0.0
6720	63.400	63.096	0.190	0.0	0.1	0.0
6744	63.398	63.096	0.188	0.0	0.1	0.0
6768	63.396	63.096	0.186	0.0	0.1	0.0
6792	63.394	63.096	0.184	0.0	0.1	0.0
6816	63.392	63.096	0.182	0.0	0.1	0.0
6840	63.390	63.096	0.180	0.0	0.1	0.0
6864	63.388	63.096	0.178	0.0	0.1	0.0
6888	63.386	63.096	0.176	0.0	0.1	0.0
6912	63.384	63.096	0.174	0.0	0.1	0.0
6936	63.381	63.096	0.171	0.0	0.1	0.0
6960	63.379	63.096	0.169	0.0	0.1	0.0
6984	63.377	63.096	0.167	0.0	0.1	0.0
7008	63.375	63.096	0.165	0.0	0.1	0.0
7032	63.373	63.096	0.163	0.0	0.1	0.0
7056	63.371	63.096	0.161	0.0	0.1	0.0
7080	63.369	63.096	0.159	0.0	0.1	0.0
7104	63.367	63.096	0.157	0.0	0.1	0.0
7128	63.365	63.096	0.155	0.0	0.1	0.0
7152	63.363	63.096	0.153	0.0	0.1	0.0
7176	63.361	63.096	0.151	0.0	0.1	0.0
7200	63.359	63.096	0.149	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.356	63.096	0.146	0.0	0.1	0.0
7248	63.354	63.096	0.144	0.0	0.1	0.0
7272	63.352	63.096	0.142	0.0	0.1	0.0
7296	63.350	63.096	0.140	0.0	0.1	0.0
7320	63.348	63.096	0.138	0.0	0.1	0.0
7344	63.345	63.096	0.135	0.0	0.1	0.0
7368	63.342	63.096	0.132	0.0	0.1	0.0
7392	63.338	63.096	0.128	0.0	0.1	0.0
7416	63.335	63.096	0.125	0.0	0.1	0.0
7440	63.331	63.096	0.121	0.0	0.1	0.0
7464	63.328	63.096	0.118	0.0	0.1	0.0
7488	63.323	63.096	0.113	0.0	0.0	0.0
7512	63.318	63.096	0.108	0.0	0.0	0.0
7536	63.312	63.096	0.102	0.0	0.0	0.0
7560	63.305	63.096	0.095	0.0	0.0	0.0
7584	63.297	63.096	0.087	0.0	0.0	0.0
7608	63.288	63.096	0.078	0.0	0.0	0.0
7632	63.278	63.096	0.068	0.0	0.0	0.0
7656	63.267	63.096	0.057	0.0	0.0	0.0
7680	63.257	63.096	0.047	0.0	0.0	0.0
7704	63.252	63.096	0.042	0.0	0.0	0.0
7728	63.251	63.096	0.041	0.0	0.0	0.0
7752	63.251	63.096	0.041	0.0	0.0	0.0
7776	63.251	63.096	0.041	0.0	0.0	0.0
7800	63.259	63.096	0.049	0.0	0.0	0.0
7824	63.270	63.096	0.060	0.0	0.0	0.0
7848	63.275	63.096	0.065	0.0	0.0	0.0
7872	63.278	63.096	0.068	0.0	0.0	0.0
7896	63.279	63.096	0.069	0.0	0.0	0.0
7920	63.279	63.096	0.069	0.0	0.0	0.0
7944	63.278	63.096	0.068	0.0	0.0	0.0
7968	63.276	63.096	0.066	0.0	0.0	0.0
7992	63.274	63.096	0.064	0.0	0.0	0.0
8016	63.273	63.096	0.063	0.0	0.0	0.0
8040	63.271	63.096	0.061	0.0	0.0	0.0
8064	63.269	63.096	0.059	0.0	0.0	0.0
8088	63.267	63.096	0.057	0.0	0.0	0.0
8112	63.265	63.096	0.055	0.0	0.0	0.0
8136	63.263	63.096	0.053	0.0	0.0	0.0
8160	63.261	63.096	0.051	0.0	0.0	0.0
8184	63.259	63.096	0.049	0.0	0.0	0.0
8208	63.257	63.096	0.047	0.0	0.0	0.0
8232	63.255	63.096	0.045	0.0	0.0	0.0
8256	63.253	63.096	0.043	0.0	0.0	0.0
8280	63.251	63.096	0.041	0.0	0.0	0.0
8304	63.252	63.096	0.042	0.0	0.0	0.0
8328	63.253	63.096	0.043	0.0	0.0	0.0
8352	63.251	63.096	0.041	0.0	0.0	0.0
8376	63.251	63.096	0.041	0.0	0.0	0.0
8400	63.250	63.096	0.040	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.250	63.096	0.040	0.0	0.0	0.0
8448	63.250	63.096	0.040	0.0	0.0	0.0
8472	63.250	63.096	0.040	0.0	0.0	0.0
8496	63.249	63.096	0.039	0.0	0.0	0.0
8520	63.251	63.096	0.041	0.0	0.0	0.0
8544	63.250	63.096	0.040	0.0	0.0	0.0
8568	63.248	63.096	0.038	0.0	0.0	0.0
8592	63.249	63.096	0.039	0.0	0.0	0.0
8616	63.250	63.096	0.040	0.0	0.0	0.0
8640	63.249	63.096	0.039	0.0	0.0	0.0
8664	63.250	63.096	0.040	0.0	0.0	0.0
8688	63.247	63.096	0.037	0.0	0.0	0.0
8712	63.243	63.096	0.033	0.0	0.0	0.0
8736	63.235	63.096	0.025	0.0	0.0	0.0
8760	63.221	63.096	0.011	0.0	0.0	0.0
8784	63.206	63.096	-0.004	0.0	0.0	0.0
8808	63.190	63.096	-0.020	0.0	0.0	0.0
8832	63.172	63.096	-0.038	0.0	0.0	0.0
8856	63.153	63.096	-0.057	0.0	0.0	0.0
8880	63.135	63.096	-0.075	0.0	0.0	0.0
8904	63.125	63.096	-0.085	0.0	0.0	0.0
8928	63.119	63.096	-0.091	0.0	0.0	0.0
8952	63.114	63.096	-0.096	0.0	0.0	0.0
8976	63.112	63.096	-0.098	0.0	0.0	0.0
9000	63.110	63.096	-0.100	0.0	0.0	0.0
9024	63.108	63.096	-0.102	0.0	0.0	0.0
9048	63.107	63.096	-0.103	0.0	0.0	0.0
9072	63.106	63.096	-0.104	0.0	0.0	0.0
9096	63.105	63.096	-0.105	0.0	0.0	0.0
9120	63.105	63.096	-0.105	0.0	0.0	0.0
9144	63.104	63.096	-0.106	0.0	0.0	0.0
9168	63.104	63.096	-0.106	0.0	0.0	0.0
9192	63.103	63.096	-0.107	0.0	0.0	0.0
9216	63.103	63.096	-0.107	0.0	0.0	0.0
9240	63.103	63.096	-0.107	0.0	0.0	0.0
9264	63.103	63.096	-0.107	0.0	0.0	0.0
9288	63.102	63.096	-0.108	0.0	0.0	0.0
9312	63.102	63.096	-0.108	0.0	0.0	0.0
9336	63.102	63.096	-0.108	0.0	0.0	0.0
9360	63.102	63.096	-0.108	0.0	0.0	0.0
9384	63.102	63.096	-0.108	0.0	0.0	0.0
9408	63.102	63.096	-0.108	0.0	0.0	0.0
9432	63.102	63.096	-0.108	0.0	0.0	0.0
9456	63.102	63.096	-0.108	0.0	0.0	0.0
9480	63.101	63.096	-0.109	0.0	0.0	0.0
9504	63.101	63.096	-0.109	0.0	0.0	0.0
9528	63.101	63.096	-0.109	0.0	0.0	0.0
9552	63.101	63.096	-0.109	0.0	0.0	0.0
9576	63.101	63.096	-0.109	0.0	0.0	0.0
9600	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.101	63.096	-0.109	0.0	0.0	0.0
9648	63.101	63.096	-0.109	0.0	0.0	0.0
9672	63.101	63.096	-0.109	0.0	0.0	0.0
9696	63.101	63.096	-0.109	0.0	0.0	0.0
9720	63.101	63.096	-0.109	0.0	0.0	0.0
9744	63.101	63.096	-0.109	0.0	0.0	0.0
9768	63.101	63.096	-0.109	0.0	0.0	0.0
9792	63.101	63.096	-0.109	0.0	0.0	0.0
9816	63.101	63.096	-0.109	0.0	0.0	0.0
9840	63.101	63.096	-0.109	0.0	0.0	0.0
9864	63.101	63.096	-0.109	0.0	0.0	0.0
9888	63.101	63.096	-0.109	0.0	0.0	0.0
9912	63.101	63.096	-0.109	0.0	0.0	0.0
9936	63.101	63.096	-0.109	0.0	0.0	0.0
9960	63.101	63.096	-0.109	0.0	0.0	0.0
9984	63.101	63.096	-0.109	0.0	0.0	0.0
10008	63.101	63.096	-0.109	0.0	0.0	0.0
10032	63.101	63.096	-0.109	0.0	0.0	0.0
10056	63.101	63.096	-0.109	0.0	0.0	0.0
10080	63.101	63.096	-0.109	0.0	0.0	0.0
10104	63.101	63.096	-0.109	0.0	0.0	0.0
10128	63.101	63.096	-0.109	0.0	0.0	0.0
10152	63.101	63.096	-0.109	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.100	63.096	-0.110	0.0	0.0	0.0
14448	63.100	63.096	-0.110	0.0	0.0	0.0
14472	63.100	63.096	-0.110	0.0	0.0	0.0
14496	63.100	63.096	-0.110	0.0	0.0	0.0
14520	63.100	63.096	-0.110	0.0	0.0	0.0
14544	63.100	63.096	-0.110	0.0	0.0	0.0
14568	63.100	63.096	-0.110	0.0	0.0	0.0
14592	63.100	63.096	-0.110	0.0	0.0	0.0
14616	63.100	63.096	-0.110	0.0	0.0	0.0
14640	63.100	63.096	-0.110	0.0	0.0	0.0
14664	63.100	63.096	-0.110	0.0	0.0	0.0
14688	63.100	63.096	-0.110	0.0	0.0	0.0
14712	63.100	63.096	-0.110	0.0	0.0	0.0
14736	63.100	63.096	-0.110	0.0	0.0	0.0
14760	63.100	63.096	-0.110	0.0	0.0	0.0
14784	63.100	63.096	-0.110	0.0	0.0	0.0
14808	63.100	63.096	-0.110	0.0	0.0	0.0
14832	63.100	63.096	-0.110	0.0	0.0	0.0
14856	63.100	63.096	-0.110	0.0	0.0	0.0
14880	63.100	63.096	-0.110	0.0	0.0	0.0
14904	63.100	63.096	-0.110	0.0	0.0	0.0
14928	63.100	63.096	-0.110	0.0	0.0	0.0
14952	63.100	63.096	-0.110	0.0	0.0	0.0
14976	63.100	63.096	-0.110	0.0	0.0	0.0
15000	63.100	63.096	-0.110	0.0	0.0	0.0
15024	63.100	63.096	-0.110	0.0	0.0	0.0
15048	63.100	63.096	-0.110	0.0	0.0	0.0
15072	63.100	63.096	-0.110	0.0	0.0	0.0
15096	63.100	63.096	-0.110	0.0	0.0	0.0
15120	63.100	63.096	-0.110	0.0	0.0	0.0
15144	63.100	63.096	-0.110	0.0	0.0	0.0
15168	63.100	63.096	-0.110	0.0	0.0	0.0
15192	63.100	63.096	-0.110	0.0	0.0	0.0
15216	63.100	63.096	-0.110	0.0	0.0	0.0
15240	63.100	63.096	-0.110	0.0	0.0	0.0
15264	63.100	63.096	-0.110	0.0	0.0	0.0
15288	63.100	63.096	-0.110	0.0	0.0	0.0
15312	63.100	63.096	-0.110	0.0	0.0	0.0
15336	63.100	63.096	-0.110	0.0	0.0	0.0
15360	63.100	63.096	-0.110	0.0	0.0	0.0
15384	63.100	63.096	-0.110	0.0	0.0	0.0
15408	63.100	63.096	-0.110	0.0	0.0	0.0
15432	63.100	63.096	-0.110	0.0	0.0	0.0
15456	63.100	63.096	-0.110	0.0	0.0	0.0
15480	63.100	63.096	-0.110	0.0	0.0	0.0
15504	63.100	63.096	-0.110	0.0	0.0	0.0
15528	63.100	63.096	-0.110	0.0	0.0	0.0
15552	63.100	63.096	-0.110	0.0	0.0	0.0
15576	63.100	63.096	-0.110	0.0	0.0	0.0
15600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.100	63.096	-0.110	0.0	0.0	0.0
15648	63.100	63.096	-0.110	0.0	0.0	0.0
15672	63.100	63.096	-0.110	0.0	0.0	0.0
15696	63.100	63.096	-0.110	0.0	0.0	0.0
15720	63.100	63.096	-0.110	0.0	0.0	0.0
15744	63.100	63.096	-0.110	0.0	0.0	0.0
15768	63.100	63.096	-0.110	0.0	0.0	0.0
15792	63.100	63.096	-0.110	0.0	0.0	0.0
15816	63.100	63.096	-0.110	0.0	0.0	0.0
15840	63.100	63.096	-0.110	0.0	0.0	0.0
15864	63.100	63.096	-0.110	0.0	0.0	0.0
15888	63.100	63.096	-0.110	0.0	0.0	0.0
15912	63.100	63.096	-0.110	0.0	0.0	0.0
15936	63.100	63.096	-0.110	0.0	0.0	0.0
15960	63.100	63.096	-0.110	0.0	0.0	0.0
15984	63.100	63.096	-0.110	0.0	0.0	0.0
16008	63.100	63.096	-0.110	0.0	0.0	0.0
16032	63.100	63.096	-0.110	0.0	0.0	0.0
16056	63.100	63.096	-0.110	0.0	0.0	0.0
16080	63.100	63.096	-0.110	0.0	0.0	0.0
16104	63.100	63.096	-0.110	0.0	0.0	0.0
16128	63.100	63.096	-0.110	0.0	0.0	0.0
16152	63.100	63.096	-0.110	0.0	0.0	0.0
16176	63.100	63.096	-0.110	0.0	0.0	0.0
16200	63.100	63.096	-0.110	0.0	0.0	0.0
16224	63.100	63.096	-0.110	0.0	0.0	0.0
16248	63.100	63.096	-0.110	0.0	0.0	0.0
16272	63.100	63.096	-0.110	0.0	0.0	0.0
16296	63.100	63.096	-0.110	0.0	0.0	0.0
16320	63.100	63.096	-0.110	0.0	0.0	0.0
16344	63.100	63.096	-0.110	0.0	0.0	0.0
16368	63.100	63.096	-0.110	0.0	0.0	0.0
16392	63.100	63.096	-0.110	0.0	0.0	0.0
16416	63.100	63.096	-0.110	0.0	0.0	0.0
16440	63.100	63.096	-0.110	0.0	0.0	0.0
16464	63.100	63.096	-0.110	0.0	0.0	0.0
16488	63.100	63.096	-0.110	0.0	0.0	0.0
16512	63.100	63.096	-0.110	0.0	0.0	0.0
16536	63.100	63.096	-0.110	0.0	0.0	0.0
16560	63.100	63.096	-0.110	0.0	0.0	0.0
16584	63.100	63.096	-0.110	0.0	0.0	0.0
16608	63.100	63.096	-0.110	0.0	0.0	0.0
16632	63.100	63.096	-0.110	0.0	0.0	0.0
16656	63.100	63.096	-0.110	0.0	0.0	0.0
16680	63.100	63.096	-0.110	0.0	0.0	0.0
16704	63.100	63.096	-0.110	0.0	0.0	0.0
16728	63.100	63.096	-0.110	0.0	0.0	0.0
16752	63.100	63.096	-0.110	0.0	0.0	0.0
16776	63.100	63.096	-0.110	0.0	0.0	0.0
16800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Summer
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.100	63.096	-0.110	0.0	0.0	0.0
16848	63.100	63.096	-0.110	0.0	0.0	0.0
16872	63.100	63.096	-0.110	0.0	0.0	0.0
16896	63.100	63.096	-0.110	0.0	0.0	0.0
16920	63.100	63.096	-0.110	0.0	0.0	0.0
16944	63.100	63.096	-0.110	0.0	0.0	0.0
16968	63.100	63.096	-0.110	0.0	0.0	0.0
16992	63.100	63.096	-0.110	0.0	0.0	0.0
17016	63.100	63.096	-0.110	0.0	0.0	0.0
17040	63.100	63.096	-0.110	0.0	0.0	0.0
17064	63.100	63.096	-0.110	0.0	0.0	0.0
17088	63.100	63.096	-0.110	0.0	0.0	0.0
17112	63.100	63.096	-0.110	0.0	0.0	0.0
17136	63.100	63.096	-0.110	0.0	0.0	0.0
17160	63.100	63.096	-0.110	0.0	0.0	0.0
17184	63.100	63.096	-0.110	0.0	0.0	0.0
17208	63.100	63.096	-0.110	0.0	0.0	0.0
17232	63.100	63.096	-0.110	0.0	0.0	0.0
17256	63.100	63.096	-0.110	0.0	0.0	0.0
17280	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	17280
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	8640
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 8640 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.0	OK
1.001	S1	63.500	-0.104	0.000	0.01	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.0	OK
2.001	S2	65.001	-0.109	0.000	0.00	0.0	0.1	OK
1.002	S3	63.488	-0.066	0.000	0.02	0.0	0.2	OK
1.003	S4	63.487	0.127	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.434	0.224	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 8640 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.031	1296	0.416	2568	0.825	3840	2.098	5112	1.794
48	0.031	1320	0.416	2592	0.825	3864	2.098	5136	1.758
72	0.031	1344	0.416	2616	0.893	3888	2.098	5160	1.758
96	0.067	1368	0.416	2640	0.893	3912	2.170	5184	1.758
120	0.120	1392	0.417	2664	0.893	3936	2.170	5208	1.665
144	0.120	1416	0.418	2688	0.922	3960	2.170	5232	1.665
168	0.120	1440	0.418	2712	0.965	3984	2.196	5256	1.665
192	0.179	1464	0.418	2736	0.965	4008	2.235	5280	1.628
216	0.194	1488	0.422	2760	0.965	4032	2.235	5304	1.572
240	0.194	1512	0.423	2784	1.027	4056	2.235	5328	1.572
264	0.206	1536	0.423	2808	1.042	4080	2.279	5352	1.572
288	0.254	1560	0.424	2832	1.042	4104	2.290	5376	1.498
312	0.254	1584	0.430	2856	1.059	4128	2.290	5400	1.479
336	0.254	1608	0.430	2880	1.124	4152	2.299	5424	1.479
360	0.283	1632	0.430	2904	1.124	4176	2.334	5448	1.461
384	0.302	1656	0.437	2928	1.124	4200	2.334	5472	1.387
408	0.302	1680	0.441	2952	1.175	4224	2.334	5496	1.387
432	0.302	1704	0.441	2976	1.209	4248	2.354	5520	1.387
456	0.339	1728	0.441	3000	1.209	4272	2.367	5544	1.333
480	0.339	1752	0.457	3024	1.209	4296	2.367	5568	1.297
504	0.339	1776	0.457	3048	1.297	4320	2.367	5592	1.297
528	0.350	1800	0.457	3072	1.297	4344	2.367	5616	1.297
552	0.367	1824	0.465	3096	1.297	4368	2.367	5640	1.209
576	0.367	1848	0.476	3120	1.333	4392	2.367	5664	1.209
600	0.367	1872	0.476	3144	1.387	4416	2.354	5688	1.209
624	0.384	1896	0.476	3168	1.387	4440	2.334	5712	1.175
648	0.388	1920	0.496	3192	1.387	4464	2.334	5736	1.124
672	0.388	1944	0.501	3216	1.461	4488	2.334	5760	1.124
696	0.390	1968	0.501	3240	1.479	4512	2.299	5784	1.124
720	0.402	1992	0.507	3264	1.479	4536	2.290	5808	1.059
744	0.402	2016	0.531	3288	1.498	4560	2.290	5832	1.042
768	0.402	2040	0.531	3312	1.572	4584	2.279	5856	1.042
792	0.407	2064	0.531	3336	1.572	4608	2.235	5880	1.027
816	0.410	2088	0.552	3360	1.572	4632	2.235	5904	0.965
840	0.410	2112	0.566	3384	1.628	4656	2.235	5928	0.965
864	0.410	2136	0.566	3408	1.665	4680	2.196	5952	0.965
888	0.415	2160	0.566	3432	1.665	4704	2.170	5976	0.922
912	0.415	2184	0.607	3456	1.665	4728	2.170	6000	0.893
936	0.415	2208	0.607	3480	1.758	4752	2.170	6024	0.893
960	0.416	2232	0.607	3504	1.758	4776	2.098	6048	0.893
984	0.417	2256	0.625	3528	1.758	4800	2.098	6072	0.825
1008	0.417	2280	0.653	3552	1.794	4824	2.098	6096	0.825
1032	0.417	2304	0.653	3576	1.848	4848	2.067	6120	0.825
1056	0.417	2328	0.653	3600	1.848	4872	2.020	6144	0.800
1080	0.417	2352	0.694	3624	1.848	4896	2.020	6168	0.762
1104	0.417	2376	0.705	3648	1.918	4920	2.020	6192	0.762
1128	0.417	2400	0.705	3672	1.936	4944	1.953	6216	0.762
1152	0.416	2424	0.716	3696	1.936	4968	1.936	6240	0.716
1176	0.416	2448	0.762	3720	1.953	4992	1.936	6264	0.705
1200	0.416	2472	0.762	3744	2.020	5016	1.918	6288	0.705
1224	0.416	2496	0.762	3768	2.020	5040	1.848	6312	0.694
1248	0.416	2520	0.800	3792	2.020	5064	1.848	6336	0.653
1272	0.416	2544	0.825	3816	2.067	5088	1.848	6360	0.653

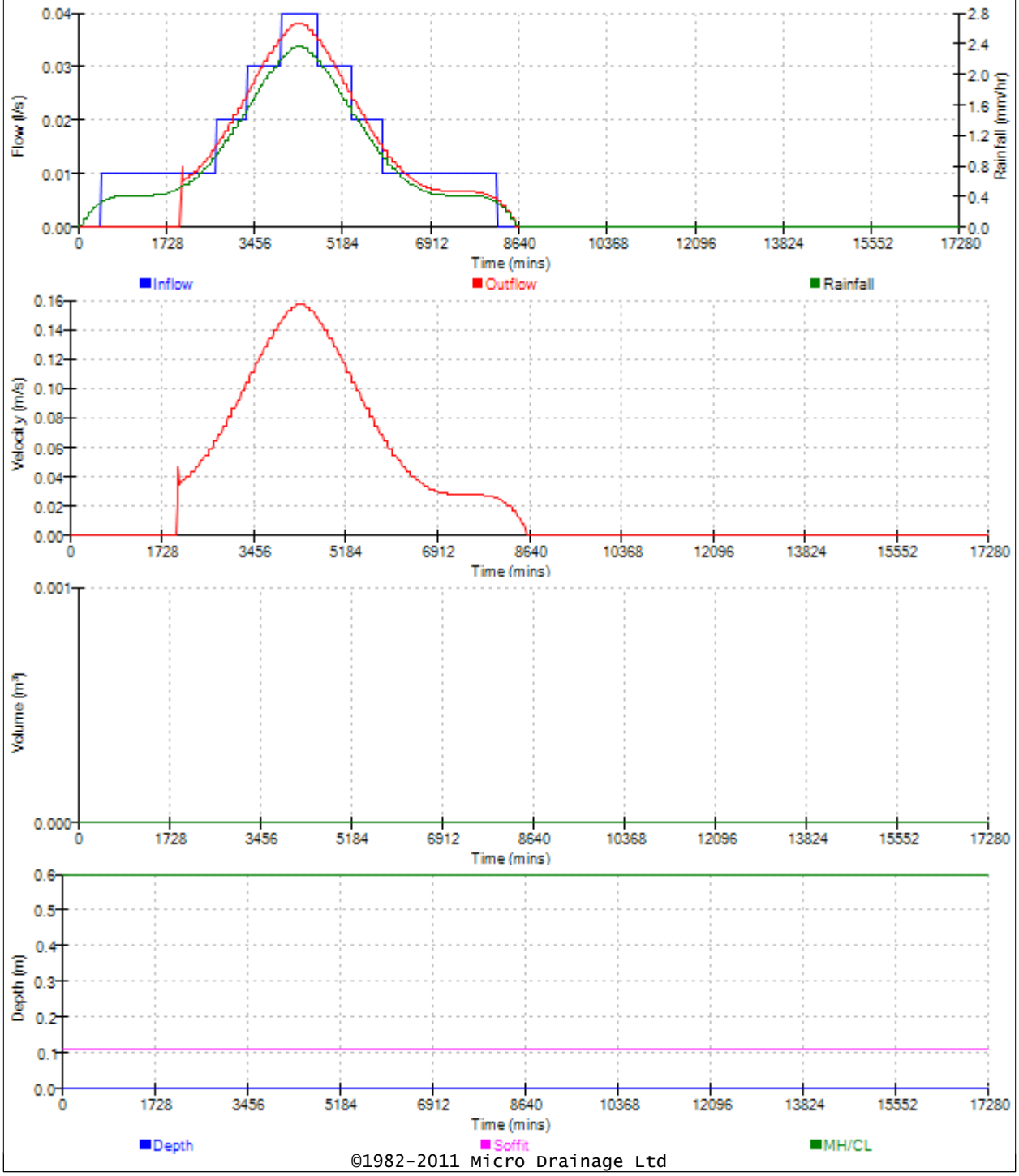
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Rainfall Hyetograph for 8640 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	0.653	6840	0.465	7296	0.416	7752	0.415	8208	0.339
6408	0.625	6864	0.457	7320	0.416	7776	0.415	8232	0.302
6432	0.607	6888	0.457	7344	0.416	7800	0.410	8256	0.302
6456	0.607	6912	0.457	7368	0.416	7824	0.410	8280	0.302
6480	0.607	6936	0.441	7392	0.416	7848	0.410	8304	0.283
6504	0.566	6960	0.441	7416	0.416	7872	0.407	8328	0.254
6528	0.566	6984	0.441	7440	0.416	7896	0.402	8352	0.254
6552	0.566	7008	0.437	7464	0.416	7920	0.402	8376	0.254
6576	0.552	7032	0.430	7488	0.416	7944	0.402	8400	0.206
6600	0.531	7056	0.430	7512	0.416	7968	0.390	8424	0.194
6624	0.531	7080	0.430	7536	0.417	7992	0.388	8448	0.194
6648	0.531	7104	0.424	7560	0.417	8016	0.388	8472	0.179
6672	0.507	7128	0.423	7584	0.417	8040	0.384	8496	0.120
6696	0.501	7152	0.423	7608	0.417	8064	0.367	8520	0.120
6720	0.501	7176	0.422	7632	0.417	8088	0.367	8544	0.120
6744	0.496	7200	0.418	7656	0.417	8112	0.367	8568	0.067
6768	0.476	7224	0.418	7680	0.417	8136	0.350	8592	0.031
6792	0.476	7248	0.418	7704	0.416	8160	0.339	8616	0.031
6816	0.476	7272	0.417	7728	0.415	8184	0.339	8640	0.031

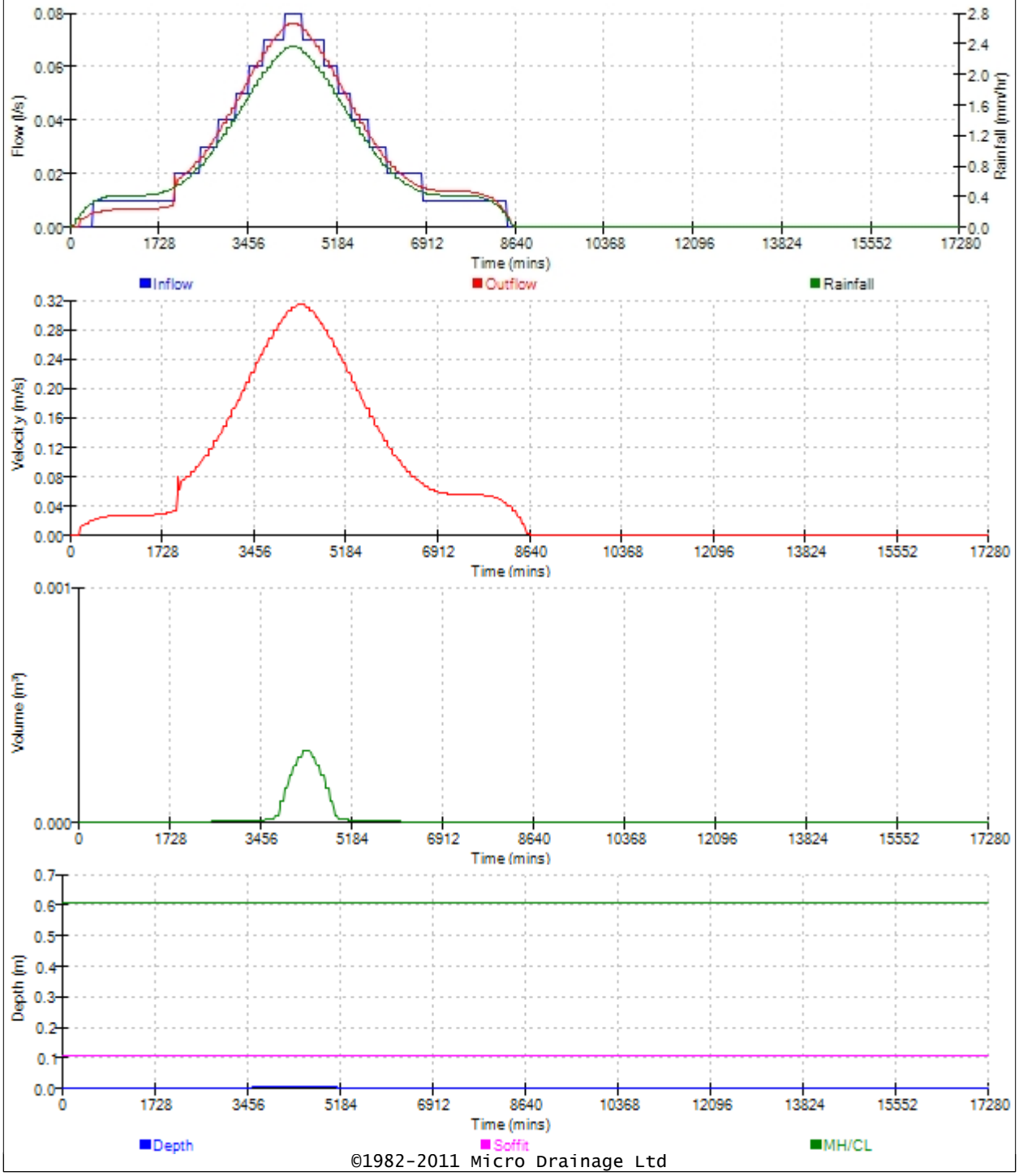
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Status: OK



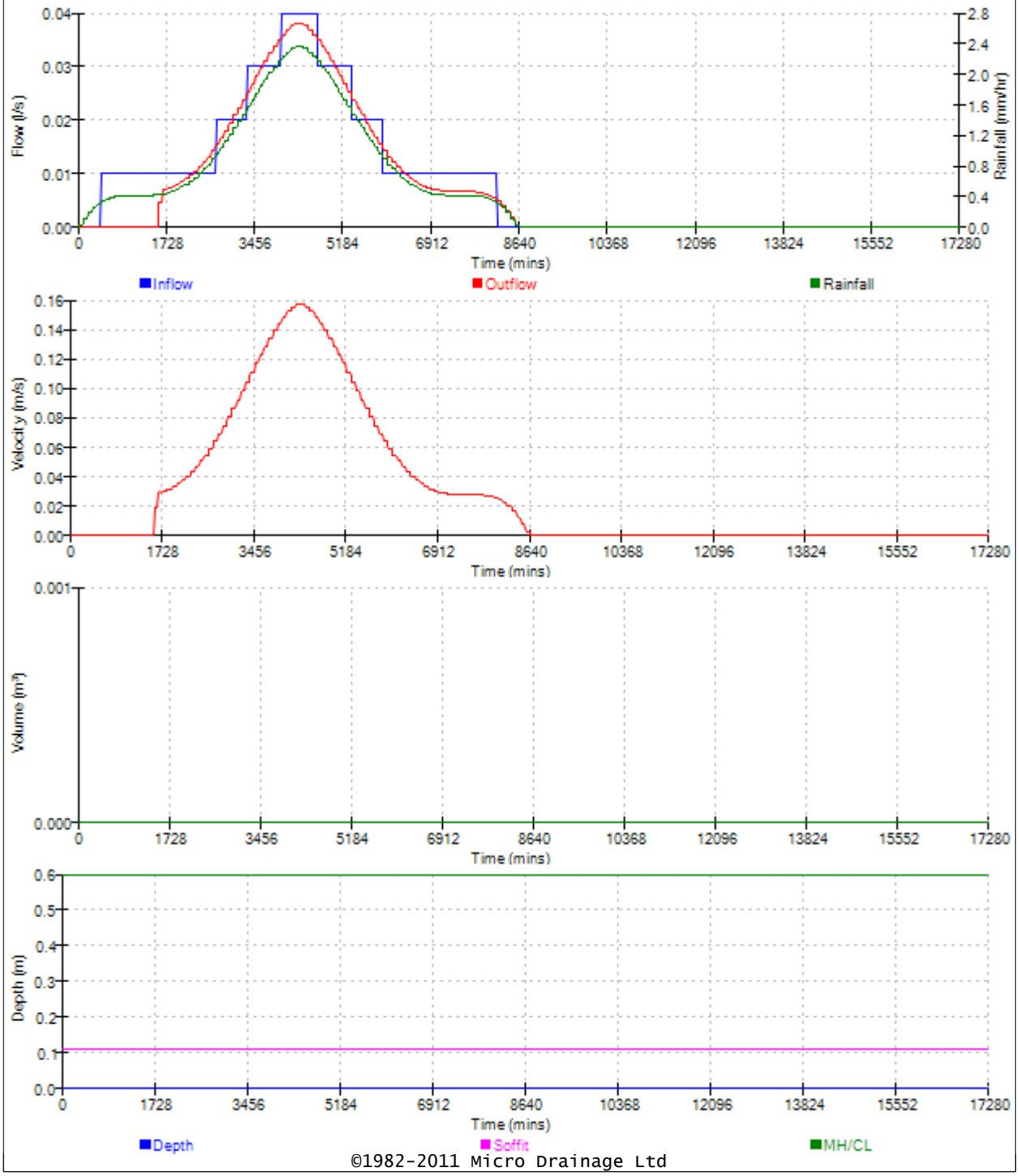
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Graphs for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Status: OK



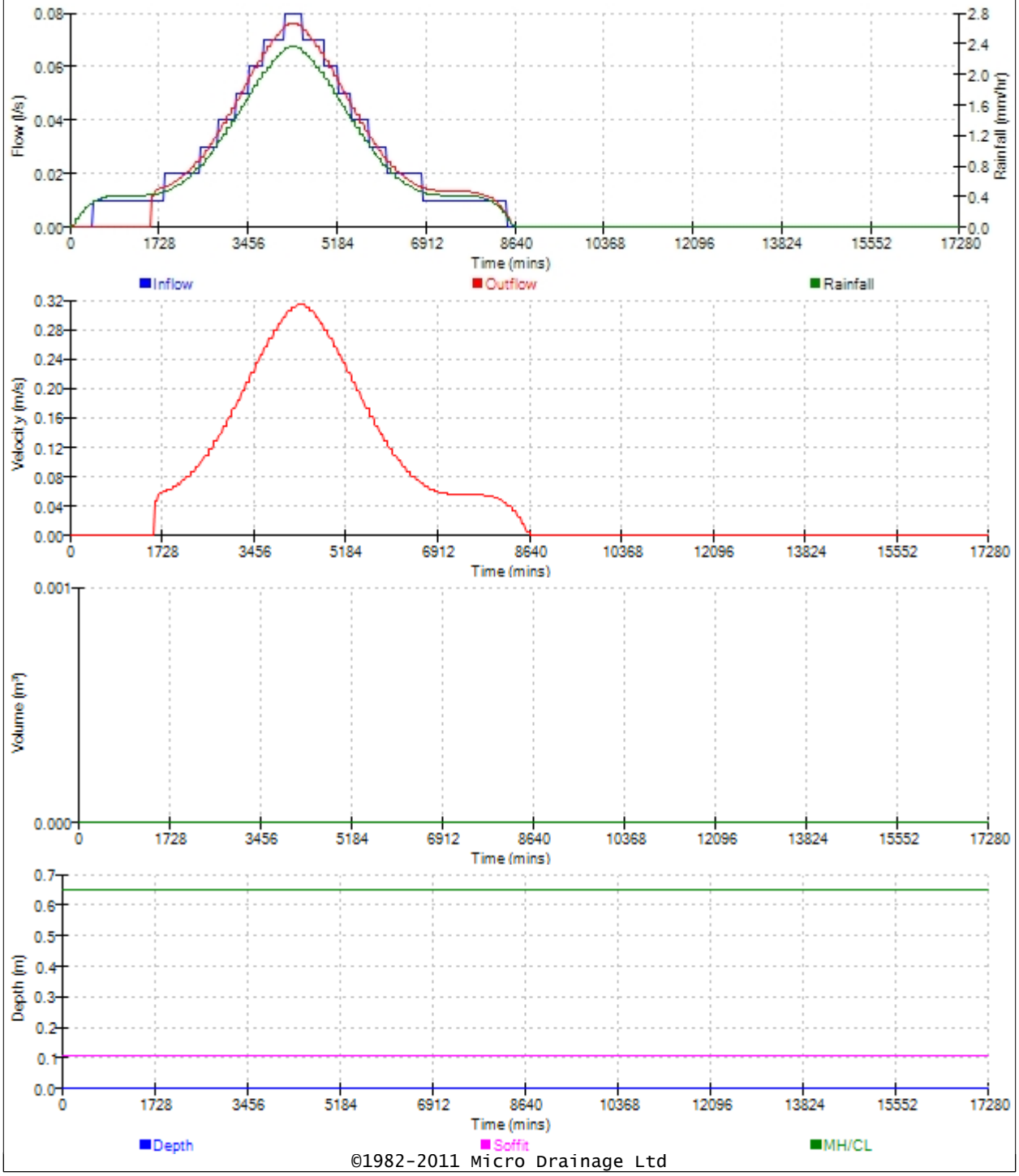
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Status: OK



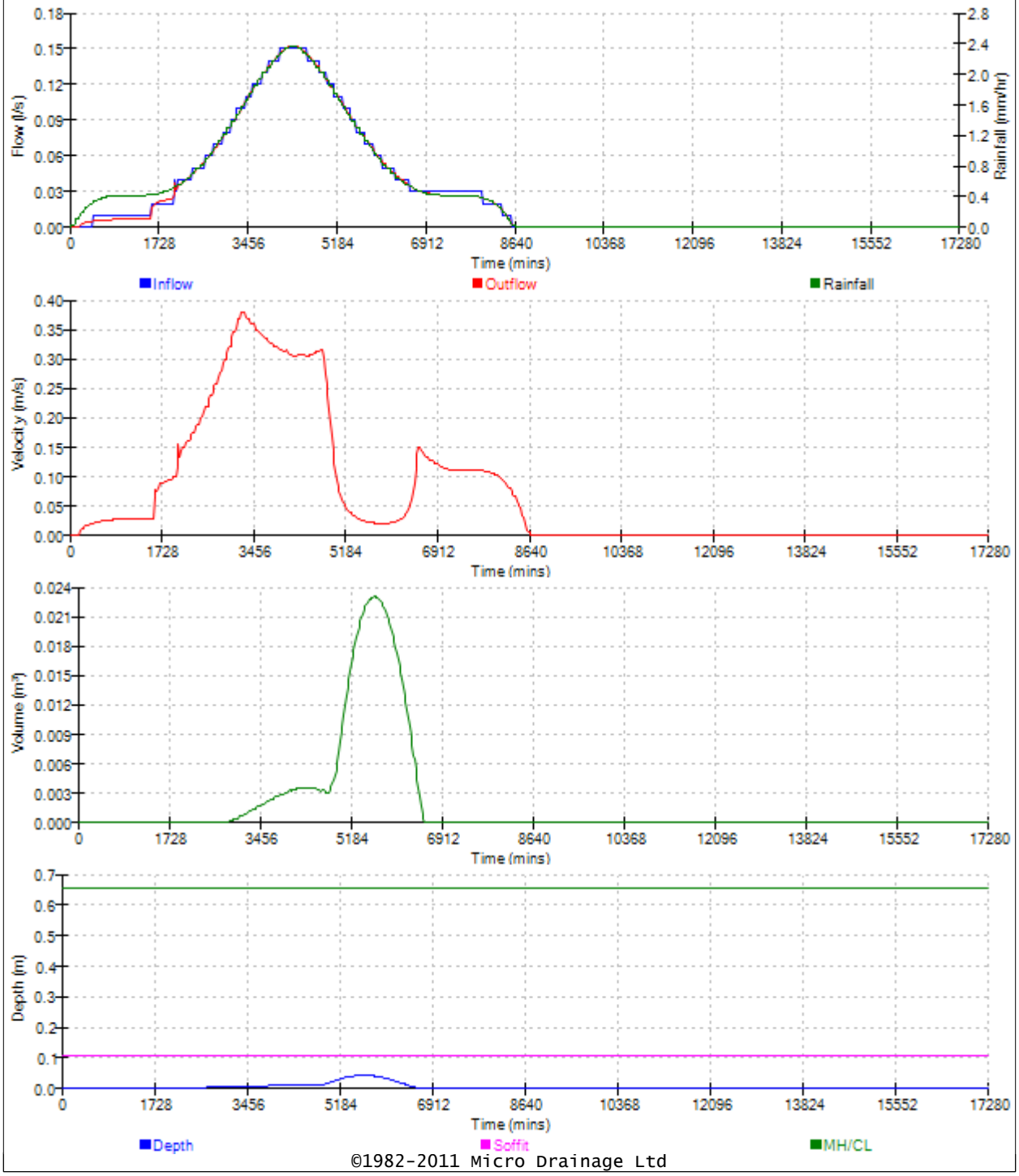
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Graphs for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Status: OK



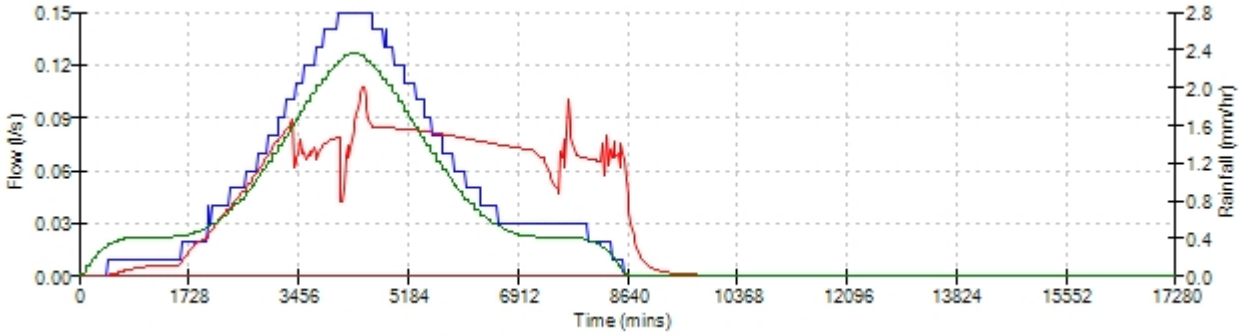
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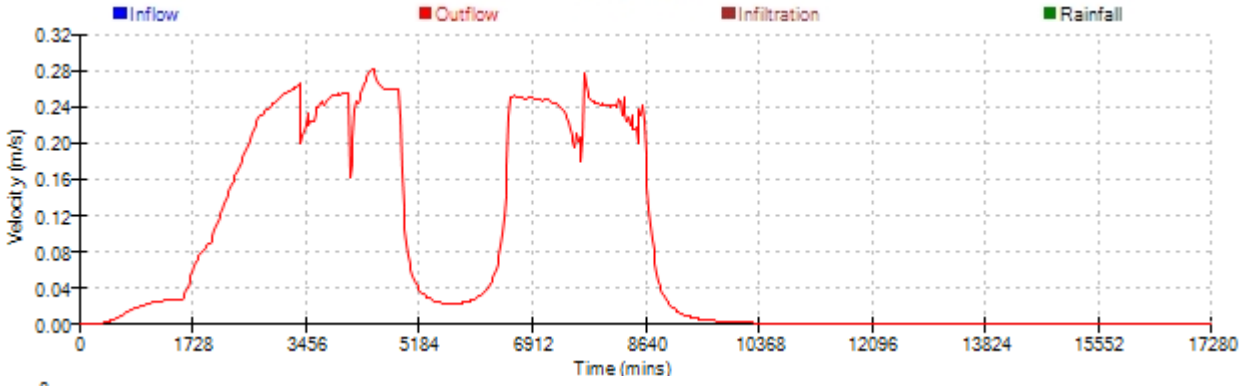
Graphs for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Status: OK

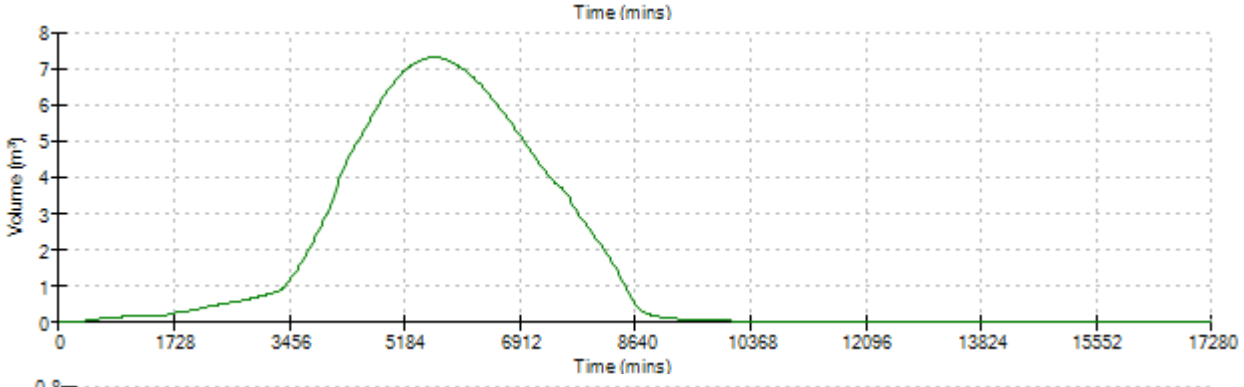


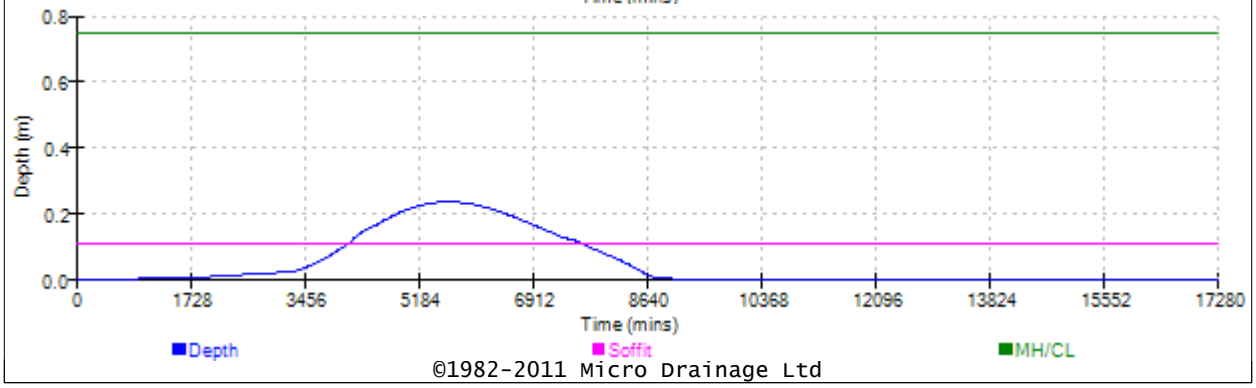
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Graphs for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Status: SURCHARGED



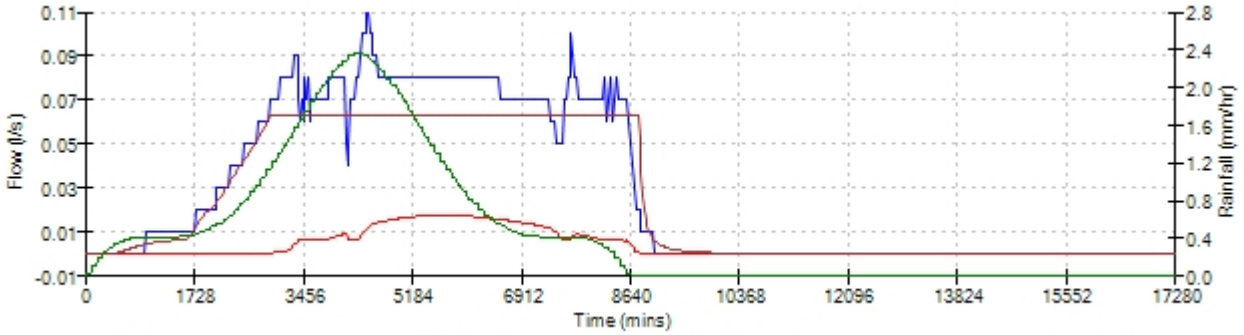


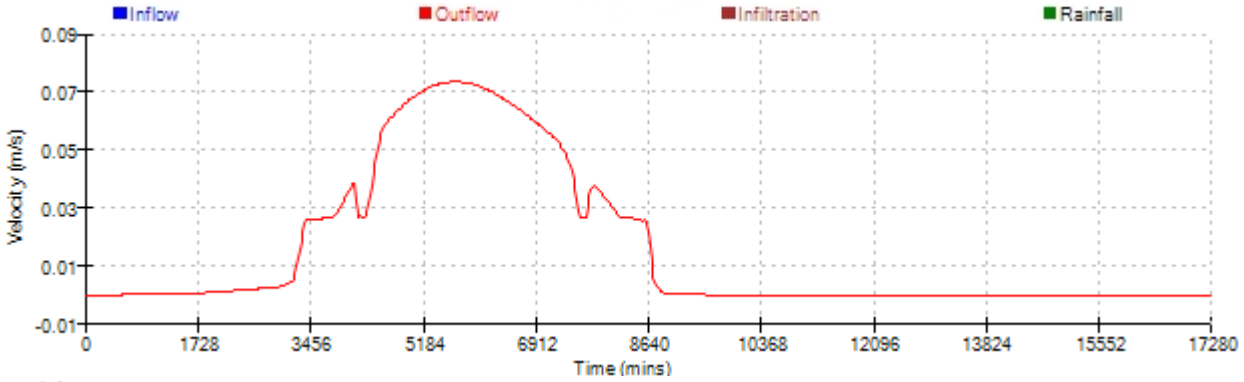


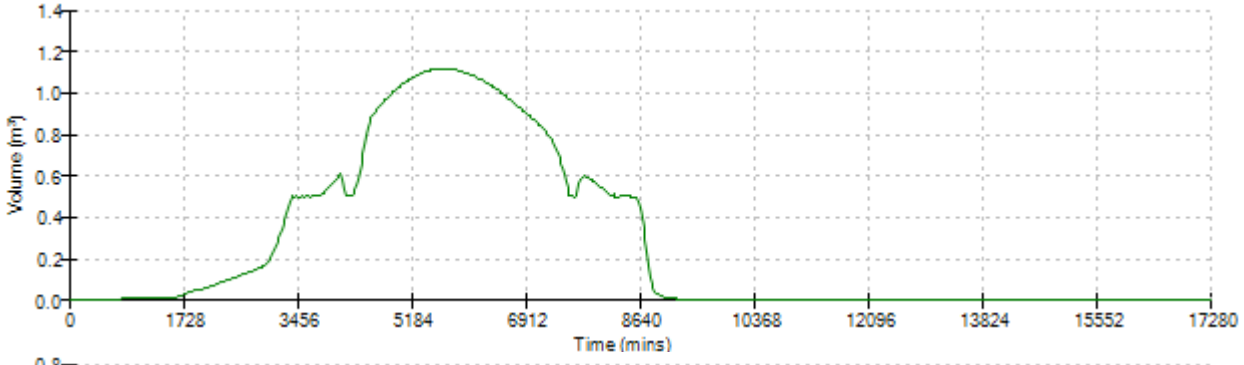


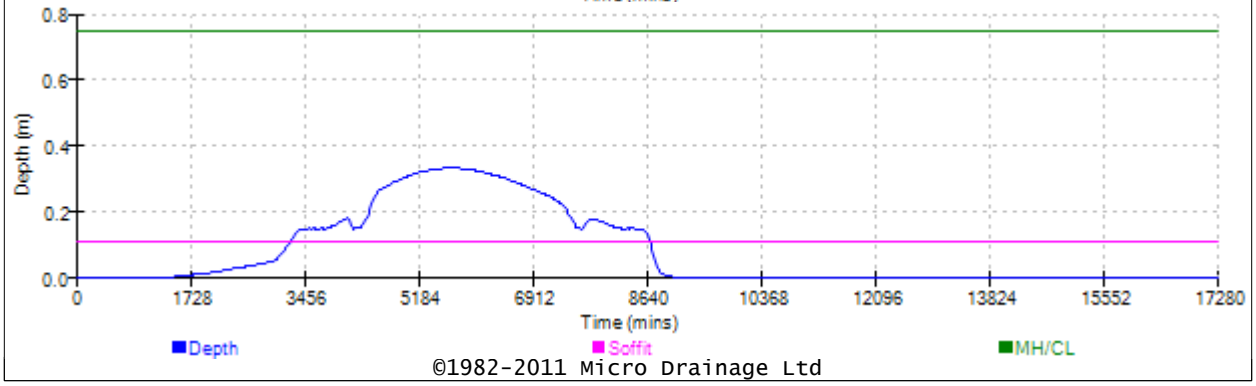
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.494	-0.110	0.0	0.0	0.0
96	65.400	63.494	-0.110	0.0	0.0	0.0
120	65.400	63.494	-0.110	0.0	0.0	0.0
144	65.400	63.494	-0.110	0.0	0.0	0.0
168	65.400	63.494	-0.110	0.0	0.0	0.0
192	65.400	63.494	-0.110	0.0	0.0	0.0
216	65.400	63.494	-0.110	0.0	0.0	0.0
240	65.400	63.494	-0.110	0.0	0.0	0.0
264	65.400	63.494	-0.110	0.0	0.0	0.0
288	65.400	63.494	-0.110	0.0	0.0	0.0
312	65.400	63.494	-0.110	0.0	0.0	0.0
336	65.400	63.494	-0.110	0.0	0.0	0.0
360	65.400	63.494	-0.110	0.0	0.0	0.0
384	65.400	63.494	-0.110	0.0	0.0	0.0
408	65.400	63.494	-0.110	0.0	0.0	0.0
432	65.400	63.494	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.495	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.495	-0.110	0.0	0.0	0.0
1560	65.400	63.495	-0.110	0.0	0.0	0.0
1584	65.400	63.495	-0.110	0.0	0.0	0.0
1608	65.400	63.495	-0.110	0.0	0.0	0.0
1632	65.400	63.495	-0.110	0.0	0.0	0.0
1656	65.400	63.495	-0.110	0.0	0.0	0.0
1680	65.400	63.495	-0.110	0.0	0.0	0.0
1704	65.400	63.495	-0.110	0.0	0.0	0.0
1728	65.400	63.495	-0.110	0.0	0.0	0.0
1752	65.400	63.495	-0.110	0.0	0.0	0.0
1776	65.400	63.495	-0.110	0.0	0.0	0.0
1800	65.400	63.495	-0.110	0.0	0.0	0.0
1824	65.400	63.495	-0.110	0.0	0.0	0.0
1848	65.400	63.495	-0.110	0.0	0.0	0.0
1872	65.400	63.495	-0.110	0.0	0.0	0.0
1896	65.400	63.495	-0.110	0.0	0.0	0.0
1920	65.400	63.495	-0.110	0.0	0.0	0.0
1944	65.400	63.495	-0.110	0.0	0.0	0.0
1968	65.400	63.495	-0.110	0.0	0.0	0.0
1992	65.400	63.495	-0.110	0.0	0.0	0.0
2016	65.400	63.496	-0.110	0.0	0.0	0.0
2040	65.400	63.495	-0.110	0.0	0.0	0.0
2064	65.400	63.495	-0.110	0.0	0.0	0.0
2088	65.400	63.496	-0.110	0.0	0.0	0.0
2112	65.400	63.496	-0.110	0.0	0.0	0.0
2136	65.400	63.496	-0.110	0.0	0.0	0.0
2160	65.400	63.496	-0.110	0.0	0.0	0.0
2184	65.400	63.496	-0.110	0.0	0.0	0.0
2208	65.400	63.496	-0.110	0.0	0.0	0.0
2232	65.400	63.496	-0.110	0.0	0.0	0.0
2256	65.400	63.496	-0.110	0.0	0.0	0.0
2280	65.400	63.496	-0.110	0.0	0.0	0.0
2304	65.400	63.496	-0.110	0.0	0.0	0.0
2328	65.400	63.496	-0.110	0.0	0.0	0.0
2352	65.400	63.496	-0.110	0.0	0.0	0.0
2376	65.400	63.496	-0.110	0.0	0.0	0.0
2400	65.400	63.496	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.496	-0.110	0.0	0.0	0.0
2448	65.400	63.496	-0.110	0.0	0.1	0.0
2472	65.400	63.496	-0.110	0.0	0.1	0.0
2496	65.400	63.496	-0.110	0.0	0.1	0.0
2520	65.400	63.496	-0.110	0.0	0.1	0.0
2544	65.400	63.496	-0.110	0.0	0.1	0.0
2568	65.400	63.496	-0.110	0.0	0.1	0.0
2592	65.400	63.496	-0.110	0.0	0.1	0.0
2616	65.400	63.496	-0.110	0.0	0.1	0.0
2640	65.400	63.496	-0.110	0.0	0.1	0.0
2664	65.400	63.496	-0.110	0.0	0.1	0.0
2688	65.400	63.496	-0.110	0.0	0.1	0.0
2712	65.400	63.497	-0.110	0.0	0.1	0.0
2736	65.400	63.497	-0.110	0.0	0.1	0.0
2760	65.400	63.497	-0.110	0.0	0.1	0.0
2784	65.400	63.497	-0.110	0.0	0.1	0.0
2808	65.400	63.497	-0.110	0.0	0.1	0.0
2832	65.400	63.497	-0.110	0.0	0.1	0.0
2856	65.400	63.497	-0.110	0.0	0.1	0.0
2880	65.400	63.497	-0.110	0.0	0.1	0.0
2904	65.400	63.497	-0.110	0.0	0.1	0.0
2928	65.400	63.497	-0.110	0.0	0.1	0.0
2952	65.400	63.497	-0.110	0.0	0.1	0.0
2976	65.400	63.497	-0.110	0.0	0.1	0.0
3000	65.400	63.497	-0.110	0.0	0.1	0.0
3024	65.400	63.497	-0.110	0.0	0.1	0.0
3048	65.400	63.497	-0.110	0.0	0.1	0.0
3072	65.400	63.497	-0.110	0.0	0.1	0.0
3096	65.400	63.497	-0.110	0.0	0.1	0.0
3120	65.400	63.497	-0.110	0.0	0.1	0.0
3144	65.400	63.498	-0.110	0.0	0.1	0.0
3168	65.400	63.498	-0.110	0.0	0.1	0.0
3192	65.400	63.498	-0.110	0.0	0.1	0.0
3216	65.400	63.498	-0.110	0.0	0.1	0.0
3240	65.400	63.498	-0.110	0.0	0.1	0.0
3264	65.400	63.498	-0.110	0.0	0.1	0.0
3288	65.400	63.498	-0.110	0.0	0.1	0.0
3312	65.401	63.498	-0.109	0.0	0.1	0.0
3336	65.401	63.498	-0.109	0.0	0.1	0.0
3360	65.401	63.498	-0.109	0.0	0.1	0.0
3384	65.401	63.498	-0.109	0.0	0.1	0.0
3408	65.401	63.498	-0.109	0.0	0.1	0.0
3432	65.401	63.498	-0.109	0.0	0.1	0.0
3456	65.401	63.498	-0.109	0.0	0.1	0.0
3480	65.401	63.499	-0.109	0.0	0.1	0.0
3504	65.401	63.499	-0.109	0.0	0.1	0.0
3528	65.401	63.499	-0.109	0.0	0.1	0.0
3552	65.401	63.499	-0.109	0.0	0.1	0.0
3576	65.401	63.499	-0.109	0.0	0.1	0.0
3600	65.401	63.499	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	63.499	-0.109	0.0	0.1	0.0
3648	65.401	63.499	-0.109	0.0	0.1	0.0
3672	65.401	63.499	-0.109	0.0	0.1	0.0
3696	65.401	63.499	-0.109	0.0	0.1	0.0
3720	65.401	63.499	-0.109	0.0	0.1	0.0
3744	65.401	63.499	-0.109	0.0	0.1	0.0
3768	65.401	63.499	-0.109	0.0	0.1	0.0
3792	65.401	63.499	-0.109	0.0	0.1	0.0
3816	65.401	63.499	-0.109	0.0	0.1	0.0
3840	65.401	63.499	-0.109	0.0	0.1	0.0
3864	65.401	63.499	-0.109	0.0	0.1	0.0
3888	65.401	63.499	-0.109	0.0	0.1	0.0
3912	65.401	63.500	-0.109	0.0	0.1	0.0
3936	65.401	63.500	-0.109	0.0	0.1	0.0
3960	65.401	63.500	-0.109	0.0	0.1	0.0
3984	65.401	63.500	-0.109	0.0	0.1	0.0
4008	65.401	63.500	-0.109	0.0	0.1	0.0
4032	65.401	63.500	-0.109	0.0	0.1	0.0
4056	65.401	63.500	-0.109	0.0	0.1	0.0
4080	65.401	63.500	-0.109	0.0	0.2	0.0
4104	65.401	63.500	-0.109	0.0	0.2	0.0
4128	65.401	63.500	-0.109	0.0	0.2	0.0
4152	65.401	63.500	-0.109	0.0	0.2	0.0
4176	65.401	63.500	-0.109	0.0	0.2	0.0
4200	65.401	63.500	-0.109	0.0	0.2	0.0
4224	65.401	63.500	-0.109	0.0	0.2	0.0
4248	65.401	63.500	-0.109	0.0	0.2	0.0
4272	65.401	63.500	-0.109	0.0	0.2	0.0
4296	65.401	63.500	-0.109	0.0	0.2	0.0
4320	65.401	63.500	-0.109	0.0	0.2	0.0
4344	65.401	63.500	-0.109	0.0	0.2	0.0
4368	65.401	63.500	-0.109	0.0	0.2	0.0
4392	65.401	63.500	-0.109	0.0	0.2	0.0
4416	65.401	63.500	-0.109	0.0	0.2	0.0
4440	65.401	63.500	-0.109	0.0	0.2	0.0
4464	65.401	63.500	-0.109	0.0	0.2	0.0
4488	65.401	63.500	-0.109	0.0	0.2	0.0
4512	65.401	63.500	-0.109	0.0	0.2	0.0
4536	65.401	63.500	-0.109	0.0	0.2	0.0
4560	65.401	63.500	-0.109	0.0	0.2	0.0
4584	65.401	63.500	-0.109	0.0	0.2	0.0
4608	65.401	63.500	-0.109	0.0	0.1	0.0
4632	65.401	63.500	-0.109	0.0	0.1	0.0
4656	65.401	63.500	-0.109	0.0	0.1	0.0
4680	65.401	63.500	-0.109	0.0	0.1	0.0
4704	65.401	63.500	-0.109	0.0	0.1	0.0
4728	65.401	63.500	-0.109	0.0	0.1	0.0
4752	65.401	63.500	-0.109	0.0	0.1	0.0
4776	65.401	63.499	-0.109	0.0	0.1	0.0
4800	65.401	63.499	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	63.499	-0.109	0.0	0.1	0.0
4848	65.401	63.499	-0.109	0.0	0.1	0.0
4872	65.401	63.499	-0.109	0.0	0.1	0.0
4896	65.401	63.499	-0.109	0.0	0.1	0.0
4920	65.401	63.499	-0.109	0.0	0.1	0.0
4944	65.401	63.499	-0.109	0.0	0.1	0.0
4968	65.401	63.499	-0.109	0.0	0.1	0.0
4992	65.401	63.499	-0.109	0.0	0.1	0.0
5016	65.401	63.499	-0.109	0.0	0.1	0.0
5040	65.401	63.499	-0.109	0.0	0.1	0.0
5064	65.401	63.499	-0.109	0.0	0.1	0.0
5088	65.401	63.499	-0.109	0.0	0.1	0.0
5112	65.401	63.499	-0.109	0.0	0.1	0.0
5136	65.401	63.499	-0.109	0.0	0.1	0.0
5160	65.401	63.499	-0.109	0.0	0.1	0.0
5184	65.401	63.499	-0.109	0.0	0.1	0.0
5208	65.401	63.498	-0.109	0.0	0.1	0.0
5232	65.401	63.498	-0.109	0.0	0.1	0.0
5256	65.401	63.498	-0.109	0.0	0.1	0.0
5280	65.401	63.498	-0.109	0.0	0.1	0.0
5304	65.401	63.498	-0.109	0.0	0.1	0.0
5328	65.401	63.498	-0.109	0.0	0.1	0.0
5352	65.401	63.498	-0.109	0.0	0.1	0.0
5376	65.400	63.498	-0.110	0.0	0.1	0.0
5400	65.400	63.498	-0.110	0.0	0.1	0.0
5424	65.400	63.498	-0.110	0.0	0.1	0.0
5448	65.400	63.498	-0.110	0.0	0.1	0.0
5472	65.400	63.498	-0.110	0.0	0.1	0.0
5496	65.400	63.498	-0.110	0.0	0.1	0.0
5520	65.400	63.498	-0.110	0.0	0.1	0.0
5544	65.400	63.498	-0.110	0.0	0.1	0.0
5568	65.400	63.498	-0.110	0.0	0.1	0.0
5592	65.400	63.498	-0.110	0.0	0.1	0.0
5616	65.400	63.498	-0.110	0.0	0.1	0.0
5640	65.400	63.498	-0.110	0.0	0.1	0.0
5664	65.400	63.498	-0.110	0.0	0.1	0.0
5688	65.400	63.498	-0.110	0.0	0.1	0.0
5712	65.400	63.498	-0.110	0.0	0.1	0.0
5736	65.400	63.498	-0.110	0.0	0.1	0.0
5760	65.400	63.498	-0.110	0.0	0.1	0.0
5784	65.400	63.498	-0.110	0.0	0.1	0.0
5808	65.400	63.497	-0.110	0.0	0.1	0.0
5832	65.400	63.497	-0.110	0.0	0.1	0.0
5856	65.400	63.497	-0.110	0.0	0.1	0.0
5880	65.400	63.497	-0.110	0.0	0.1	0.0
5904	65.400	63.497	-0.110	0.0	0.1	0.0
5928	65.400	63.497	-0.110	0.0	0.1	0.0
5952	65.400	63.497	-0.110	0.0	0.1	0.0
5976	65.400	63.497	-0.110	0.0	0.1	0.0
6000	65.400	63.496	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.496	-0.110	0.0	0.1	0.0
6048	65.400	63.496	-0.110	0.0	0.1	0.0
6072	65.400	63.496	-0.110	0.0	0.1	0.0
6096	65.400	63.496	-0.110	0.0	0.1	0.0
6120	65.400	63.496	-0.110	0.0	0.1	0.0
6144	65.400	63.496	-0.110	0.0	0.1	0.0
6168	65.400	63.496	-0.110	0.0	0.1	0.0
6192	65.400	63.496	-0.110	0.0	0.1	0.0
6216	65.400	63.496	-0.110	0.0	0.1	0.0
6240	65.400	63.496	-0.110	0.0	0.0	0.0
6264	65.400	63.496	-0.110	0.0	0.0	0.0
6288	65.400	63.496	-0.110	0.0	0.0	0.0
6312	65.400	63.496	-0.110	0.0	0.0	0.0
6336	65.400	63.496	-0.110	0.0	0.0	0.0
6360	65.400	63.496	-0.110	0.0	0.0	0.0
6384	65.400	63.496	-0.110	0.0	0.0	0.0
6408	65.400	63.496	-0.110	0.0	0.0	0.0
6432	65.400	63.496	-0.110	0.0	0.0	0.0
6456	65.400	63.496	-0.110	0.0	0.0	0.0
6480	65.400	63.496	-0.110	0.0	0.0	0.0
6504	65.400	63.496	-0.110	0.0	0.0	0.0
6528	65.400	63.496	-0.110	0.0	0.0	0.0
6552	65.400	63.496	-0.110	0.0	0.0	0.0
6576	65.400	63.495	-0.110	0.0	0.0	0.0
6600	65.400	63.495	-0.110	0.0	0.0	0.0
6624	65.400	63.495	-0.110	0.0	0.0	0.0
6648	65.400	63.495	-0.110	0.0	0.0	0.0
6672	65.400	63.495	-0.110	0.0	0.0	0.0
6696	65.400	63.495	-0.110	0.0	0.0	0.0
6720	65.400	63.495	-0.110	0.0	0.0	0.0
6744	65.400	63.495	-0.110	0.0	0.0	0.0
6768	65.400	63.495	-0.110	0.0	0.0	0.0
6792	65.400	63.495	-0.110	0.0	0.0	0.0
6816	65.400	63.495	-0.110	0.0	0.0	0.0
6840	65.400	63.495	-0.110	0.0	0.0	0.0
6864	65.400	63.495	-0.110	0.0	0.0	0.0
6888	65.400	63.495	-0.110	0.0	0.0	0.0
6912	65.400	63.495	-0.110	0.0	0.0	0.0
6936	65.400	63.495	-0.110	0.0	0.0	0.0
6960	65.400	63.495	-0.110	0.0	0.0	0.0
6984	65.400	63.495	-0.110	0.0	0.0	0.0
7008	65.400	63.495	-0.110	0.0	0.0	0.0
7032	65.400	63.495	-0.110	0.0	0.0	0.0
7056	65.400	63.495	-0.110	0.0	0.0	0.0
7080	65.400	63.495	-0.110	0.0	0.0	0.0
7104	65.400	63.495	-0.110	0.0	0.0	0.0
7128	65.400	63.495	-0.110	0.0	0.0	0.0
7152	65.400	63.495	-0.110	0.0	0.0	0.0
7176	65.400	63.495	-0.110	0.0	0.0	0.0
7200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.495	-0.110	0.0	0.0	0.0
7248	65.400	63.495	-0.110	0.0	0.0	0.0
7272	65.400	63.495	-0.110	0.0	0.0	0.0
7296	65.400	63.495	-0.110	0.0	0.0	0.0
7320	65.400	63.495	-0.110	0.0	0.0	0.0
7344	65.400	63.495	-0.110	0.0	0.0	0.0
7368	65.400	63.495	-0.110	0.0	0.0	0.0
7392	65.400	63.495	-0.110	0.0	0.0	0.0
7416	65.400	63.495	-0.110	0.0	0.0	0.0
7440	65.400	63.495	-0.110	0.0	0.0	0.0
7464	65.400	63.495	-0.110	0.0	0.0	0.0
7488	65.400	63.495	-0.110	0.0	0.0	0.0
7512	65.400	63.495	-0.110	0.0	0.0	0.0
7536	65.400	63.495	-0.110	0.0	0.0	0.0
7560	65.400	63.495	-0.110	0.0	0.0	0.0
7584	65.400	63.495	-0.110	0.0	0.0	0.0
7608	65.400	63.495	-0.110	0.0	0.0	0.0
7632	65.400	63.495	-0.110	0.0	0.0	0.0
7656	65.400	63.495	-0.110	0.0	0.0	0.0
7680	65.400	63.495	-0.110	0.0	0.0	0.0
7704	65.400	63.495	-0.110	0.0	0.0	0.0
7728	65.400	63.495	-0.110	0.0	0.0	0.0
7752	65.400	63.495	-0.110	0.0	0.0	0.0
7776	65.400	63.495	-0.110	0.0	0.0	0.0
7800	65.400	63.495	-0.110	0.0	0.0	0.0
7824	65.400	63.495	-0.110	0.0	0.0	0.0
7848	65.400	63.495	-0.110	0.0	0.0	0.0
7872	65.400	63.495	-0.110	0.0	0.0	0.0
7896	65.400	63.495	-0.110	0.0	0.0	0.0
7920	65.400	63.495	-0.110	0.0	0.0	0.0
7944	65.400	63.495	-0.110	0.0	0.0	0.0
7968	65.400	63.495	-0.110	0.0	0.0	0.0
7992	65.400	63.495	-0.110	0.0	0.0	0.0
8016	65.400	63.495	-0.110	0.0	0.0	0.0
8040	65.400	63.495	-0.110	0.0	0.0	0.0
8064	65.400	63.495	-0.110	0.0	0.0	0.0
8088	65.400	63.495	-0.110	0.0	0.0	0.0
8112	65.400	63.495	-0.110	0.0	0.0	0.0
8136	65.400	63.495	-0.110	0.0	0.0	0.0
8160	65.400	63.495	-0.110	0.0	0.0	0.0
8184	65.400	63.495	-0.110	0.0	0.0	0.0
8208	65.400	63.495	-0.110	0.0	0.0	0.0
8232	65.400	63.495	-0.110	0.0	0.0	0.0
8256	65.400	63.495	-0.110	0.0	0.0	0.0
8280	65.400	63.495	-0.110	0.0	0.0	0.0
8304	65.400	63.495	-0.110	0.0	0.0	0.0
8328	65.400	63.495	-0.110	0.0	0.0	0.0
8352	65.400	63.495	-0.110	0.0	0.0	0.0
8376	65.400	63.495	-0.110	0.0	0.0	0.0
8400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.495	-0.110	0.0	0.0	0.0
8448	65.400	63.495	-0.110	0.0	0.0	0.0
8472	65.400	63.495	-0.110	0.0	0.0	0.0
8496	65.400	63.494	-0.110	0.0	0.0	0.0
8520	65.400	63.494	-0.110	0.0	0.0	0.0
8544	65.400	63.494	-0.110	0.0	0.0	0.0
8568	65.400	63.494	-0.110	0.0	0.0	0.0
8592	65.400	63.494	-0.110	0.0	0.0	0.0
8616	65.400	63.494	-0.110	0.0	0.0	0.0
8640	65.400	63.494	-0.110	0.0	0.0	0.0
8664	65.400	63.494	-0.110	0.0	0.0	0.0
8688	65.400	63.494	-0.110	0.0	0.0	0.0
8712	65.400	63.494	-0.110	0.0	0.0	0.0
8736	65.400	63.494	-0.110	0.0	0.0	0.0
8760	65.400	63.494	-0.110	0.0	0.0	0.0
8784	65.400	63.494	-0.110	0.0	0.0	0.0
8808	65.400	63.494	-0.110	0.0	0.0	0.0
8832	65.400	63.494	-0.110	0.0	0.0	0.0
8856	65.400	63.494	-0.110	0.0	0.0	0.0
8880	65.400	63.494	-0.110	0.0	0.0	0.0
8904	65.400	63.494	-0.110	0.0	0.0	0.0
8928	65.400	63.494	-0.110	0.0	0.0	0.0
8952	65.400	63.494	-0.110	0.0	0.0	0.0
8976	65.400	63.494	-0.110	0.0	0.0	0.0
9000	65.400	63.494	-0.110	0.0	0.0	0.0
9024	65.400	63.494	-0.110	0.0	0.0	0.0
9048	65.400	63.494	-0.110	0.0	0.0	0.0
9072	65.400	63.494	-0.110	0.0	0.0	0.0
9096	65.400	63.494	-0.110	0.0	0.0	0.0
9120	65.400	63.494	-0.110	0.0	0.0	0.0
9144	65.400	63.494	-0.110	0.0	0.0	0.0
9168	65.400	63.494	-0.110	0.0	0.0	0.0
9192	65.400	63.494	-0.110	0.0	0.0	0.0
9216	65.400	63.494	-0.110	0.0	0.0	0.0
9240	65.400	63.494	-0.110	0.0	0.0	0.0
9264	65.400	63.494	-0.110	0.0	0.0	0.0
9288	65.400	63.494	-0.110	0.0	0.0	0.0
9312	65.400	63.494	-0.110	0.0	0.0	0.0
9336	65.400	63.494	-0.110	0.0	0.0	0.0
9360	65.400	63.494	-0.110	0.0	0.0	0.0
9384	65.400	63.494	-0.110	0.0	0.0	0.0
9408	65.400	63.494	-0.110	0.0	0.0	0.0
9432	65.400	63.494	-0.110	0.0	0.0	0.0
9456	65.400	63.494	-0.110	0.0	0.0	0.0
9480	65.400	63.494	-0.110	0.0	0.0	0.0
9504	65.400	63.494	-0.110	0.0	0.0	0.0
9528	65.400	63.494	-0.110	0.0	0.0	0.0
9552	65.400	63.494	-0.110	0.0	0.0	0.0
9576	65.400	63.494	-0.110	0.0	0.0	0.0
9600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.494	-0.110	0.0	0.0	0.0
9648	65.400	63.494	-0.110	0.0	0.0	0.0
9672	65.400	63.494	-0.110	0.0	0.0	0.0
9696	65.400	63.494	-0.110	0.0	0.0	0.0
9720	65.400	63.494	-0.110	0.0	0.0	0.0
9744	65.400	63.494	-0.110	0.0	0.0	0.0
9768	65.400	63.494	-0.110	0.0	0.0	0.0
9792	65.400	63.494	-0.110	0.0	0.0	0.0
9816	65.400	63.494	-0.110	0.0	0.0	0.0
9840	65.400	63.494	-0.110	0.0	0.0	0.0
9864	65.400	63.494	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	63.494	-0.110	0.0	0.0	0.0
14448	65.400	63.494	-0.110	0.0	0.0	0.0
14472	65.400	63.494	-0.110	0.0	0.0	0.0
14496	65.400	63.494	-0.110	0.0	0.0	0.0
14520	65.400	63.494	-0.110	0.0	0.0	0.0
14544	65.400	63.494	-0.110	0.0	0.0	0.0
14568	65.400	63.494	-0.110	0.0	0.0	0.0
14592	65.400	63.494	-0.110	0.0	0.0	0.0
14616	65.400	63.494	-0.110	0.0	0.0	0.0
14640	65.400	63.494	-0.110	0.0	0.0	0.0
14664	65.400	63.494	-0.110	0.0	0.0	0.0
14688	65.400	63.494	-0.110	0.0	0.0	0.0
14712	65.400	63.494	-0.110	0.0	0.0	0.0
14736	65.400	63.494	-0.110	0.0	0.0	0.0
14760	65.400	63.494	-0.110	0.0	0.0	0.0
14784	65.400	63.494	-0.110	0.0	0.0	0.0
14808	65.400	63.494	-0.110	0.0	0.0	0.0
14832	65.400	63.494	-0.110	0.0	0.0	0.0
14856	65.400	63.494	-0.110	0.0	0.0	0.0
14880	65.400	63.494	-0.110	0.0	0.0	0.0
14904	65.400	63.494	-0.110	0.0	0.0	0.0
14928	65.400	63.494	-0.110	0.0	0.0	0.0
14952	65.400	63.494	-0.110	0.0	0.0	0.0
14976	65.400	63.494	-0.110	0.0	0.0	0.0
15000	65.400	63.494	-0.110	0.0	0.0	0.0
15024	65.400	63.494	-0.110	0.0	0.0	0.0
15048	65.400	63.494	-0.110	0.0	0.0	0.0
15072	65.400	63.494	-0.110	0.0	0.0	0.0
15096	65.400	63.494	-0.110	0.0	0.0	0.0
15120	65.400	63.494	-0.110	0.0	0.0	0.0
15144	65.400	63.494	-0.110	0.0	0.0	0.0
15168	65.400	63.494	-0.110	0.0	0.0	0.0
15192	65.400	63.494	-0.110	0.0	0.0	0.0
15216	65.400	63.494	-0.110	0.0	0.0	0.0
15240	65.400	63.494	-0.110	0.0	0.0	0.0
15264	65.400	63.494	-0.110	0.0	0.0	0.0
15288	65.400	63.494	-0.110	0.0	0.0	0.0
15312	65.400	63.494	-0.110	0.0	0.0	0.0
15336	65.400	63.494	-0.110	0.0	0.0	0.0
15360	65.400	63.494	-0.110	0.0	0.0	0.0
15384	65.400	63.494	-0.110	0.0	0.0	0.0
15408	65.400	63.494	-0.110	0.0	0.0	0.0
15432	65.400	63.494	-0.110	0.0	0.0	0.0
15456	65.400	63.494	-0.110	0.0	0.0	0.0
15480	65.400	63.494	-0.110	0.0	0.0	0.0
15504	65.400	63.494	-0.110	0.0	0.0	0.0
15528	65.400	63.494	-0.110	0.0	0.0	0.0
15552	65.400	63.494	-0.110	0.0	0.0	0.0
15576	65.400	63.494	-0.110	0.0	0.0	0.0
15600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	63.494	-0.110	0.0	0.0	0.0
15648	65.400	63.494	-0.110	0.0	0.0	0.0
15672	65.400	63.494	-0.110	0.0	0.0	0.0
15696	65.400	63.494	-0.110	0.0	0.0	0.0
15720	65.400	63.494	-0.110	0.0	0.0	0.0
15744	65.400	63.494	-0.110	0.0	0.0	0.0
15768	65.400	63.494	-0.110	0.0	0.0	0.0
15792	65.400	63.494	-0.110	0.0	0.0	0.0
15816	65.400	63.494	-0.110	0.0	0.0	0.0
15840	65.400	63.494	-0.110	0.0	0.0	0.0
15864	65.400	63.494	-0.110	0.0	0.0	0.0
15888	65.400	63.494	-0.110	0.0	0.0	0.0
15912	65.400	63.494	-0.110	0.0	0.0	0.0
15936	65.400	63.494	-0.110	0.0	0.0	0.0
15960	65.400	63.494	-0.110	0.0	0.0	0.0
15984	65.400	63.494	-0.110	0.0	0.0	0.0
16008	65.400	63.494	-0.110	0.0	0.0	0.0
16032	65.400	63.494	-0.110	0.0	0.0	0.0
16056	65.400	63.494	-0.110	0.0	0.0	0.0
16080	65.400	63.494	-0.110	0.0	0.0	0.0
16104	65.400	63.494	-0.110	0.0	0.0	0.0
16128	65.400	63.494	-0.110	0.0	0.0	0.0
16152	65.400	63.494	-0.110	0.0	0.0	0.0
16176	65.400	63.494	-0.110	0.0	0.0	0.0
16200	65.400	63.494	-0.110	0.0	0.0	0.0
16224	65.400	63.494	-0.110	0.0	0.0	0.0
16248	65.400	63.494	-0.110	0.0	0.0	0.0
16272	65.400	63.494	-0.110	0.0	0.0	0.0
16296	65.400	63.494	-0.110	0.0	0.0	0.0
16320	65.400	63.494	-0.110	0.0	0.0	0.0
16344	65.400	63.494	-0.110	0.0	0.0	0.0
16368	65.400	63.494	-0.110	0.0	0.0	0.0
16392	65.400	63.494	-0.110	0.0	0.0	0.0
16416	65.400	63.494	-0.110	0.0	0.0	0.0
16440	65.400	63.494	-0.110	0.0	0.0	0.0
16464	65.400	63.494	-0.110	0.0	0.0	0.0
16488	65.400	63.494	-0.110	0.0	0.0	0.0
16512	65.400	63.494	-0.110	0.0	0.0	0.0
16536	65.400	63.494	-0.110	0.0	0.0	0.0
16560	65.400	63.494	-0.110	0.0	0.0	0.0
16584	65.400	63.494	-0.110	0.0	0.0	0.0
16608	65.400	63.494	-0.110	0.0	0.0	0.0
16632	65.400	63.494	-0.110	0.0	0.0	0.0
16656	65.400	63.494	-0.110	0.0	0.0	0.0
16680	65.400	63.494	-0.110	0.0	0.0	0.0
16704	65.400	63.494	-0.110	0.0	0.0	0.0
16728	65.400	63.494	-0.110	0.0	0.0	0.0
16752	65.400	63.494	-0.110	0.0	0.0	0.0
16776	65.400	63.494	-0.110	0.0	0.0	0.0
16800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	63.494	-0.110	0.0	0.0	0.0
16848	65.400	63.494	-0.110	0.0	0.0	0.0
16872	65.400	63.494	-0.110	0.0	0.0	0.0
16896	65.400	63.494	-0.110	0.0	0.0	0.0
16920	65.400	63.494	-0.110	0.0	0.0	0.0
16944	65.400	63.494	-0.110	0.0	0.0	0.0
16968	65.400	63.494	-0.110	0.0	0.0	0.0
16992	65.400	63.494	-0.110	0.0	0.0	0.0
17016	65.400	63.494	-0.110	0.0	0.0	0.0
17040	65.400	63.494	-0.110	0.0	0.0	0.0
17064	65.400	63.494	-0.110	0.0	0.0	0.0
17088	65.400	63.494	-0.110	0.0	0.0	0.0
17112	65.400	63.494	-0.110	0.0	0.0	0.0
17136	65.400	63.494	-0.110	0.0	0.0	0.0
17160	65.400	63.494	-0.110	0.0	0.0	0.0
17184	65.400	63.494	-0.110	0.0	0.0	0.0
17208	65.400	63.494	-0.110	0.0	0.0	0.0
17232	65.400	63.494	-0.110	0.0	0.0	0.0
17256	65.400	63.494	-0.110	0.0	0.0	0.0
17280	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
72	63.494	63.444	-0.110	0.0	0.0	0.0
96	63.494	63.444	-0.110	0.0	0.0	0.0
120	63.494	63.444	-0.110	0.0	0.0	0.0
144	63.494	63.444	-0.110	0.0	0.0	0.0
168	63.494	63.444	-0.110	0.0	0.0	0.0
192	63.494	63.444	-0.110	0.0	0.0	0.0
216	63.494	63.444	-0.110	0.0	0.0	0.0
240	63.494	63.444	-0.110	0.0	0.0	0.0
264	63.494	63.444	-0.110	0.0	0.0	0.0
288	63.494	63.444	-0.110	0.0	0.0	0.0
312	63.494	63.444	-0.110	0.0	0.0	0.0
336	63.494	63.444	-0.110	0.0	0.0	0.0
360	63.494	63.444	-0.110	0.0	0.0	0.0
384	63.494	63.444	-0.110	0.0	0.0	0.0
408	63.494	63.444	-0.110	0.0	0.0	0.0
432	63.494	63.444	-0.110	0.0	0.0	0.0
456	63.495	63.445	-0.110	0.0	0.0	0.0
480	63.495	63.445	-0.110	0.0	0.0	0.0
504	63.495	63.445	-0.110	0.0	0.0	0.0
528	63.495	63.445	-0.110	0.0	0.0	0.0
552	63.495	63.445	-0.110	0.0	0.0	0.0
576	63.495	63.445	-0.110	0.0	0.0	0.0
600	63.495	63.445	-0.110	0.0	0.0	0.0
624	63.495	63.445	-0.110	0.0	0.0	0.0
648	63.495	63.445	-0.110	0.0	0.0	0.0
672	63.495	63.445	-0.110	0.0	0.0	0.0
696	63.495	63.445	-0.110	0.0	0.0	0.0
720	63.495	63.445	-0.109	0.0	0.0	0.0
744	63.495	63.445	-0.109	0.0	0.0	0.0
768	63.495	63.445	-0.109	0.0	0.0	0.0
792	63.495	63.445	-0.109	0.0	0.0	0.0
816	63.495	63.445	-0.109	0.0	0.0	0.0
840	63.495	63.445	-0.109	0.0	0.0	0.0
864	63.495	63.445	-0.109	0.0	0.0	0.0
888	63.495	63.445	-0.109	0.0	0.0	0.0
912	63.495	63.445	-0.109	0.0	0.0	0.0
936	63.495	63.445	-0.109	0.0	0.0	0.0
960	63.495	63.445	-0.109	0.0	0.0	0.0
984	63.495	63.445	-0.109	0.0	0.0	0.0
1008	63.495	63.445	-0.109	0.0	0.0	0.0
1032	63.495	63.445	-0.109	0.0	0.0	0.0
1056	63.495	63.445	-0.109	0.0	0.0	0.0
1080	63.495	63.445	-0.109	0.0	0.0	0.0
1104	63.495	63.445	-0.109	0.0	0.0	0.0
1128	63.495	63.445	-0.109	0.0	0.0	0.0
1152	63.495	63.445	-0.109	0.0	0.0	0.0
1176	63.495	63.445	-0.109	0.0	0.0	0.0
1200	63.495	63.445	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.445	-0.109	0.0	0.0	0.0
1248	63.495	63.445	-0.109	0.0	0.0	0.0
1272	63.495	63.445	-0.109	0.0	0.0	0.0
1296	63.495	63.445	-0.109	0.0	0.0	0.0
1320	63.495	63.445	-0.109	0.0	0.0	0.0
1344	63.495	63.445	-0.109	0.0	0.0	0.0
1368	63.495	63.445	-0.109	0.0	0.0	0.0
1392	63.495	63.445	-0.109	0.0	0.0	0.0
1416	63.495	63.445	-0.109	0.0	0.0	0.0
1440	63.495	63.445	-0.109	0.0	0.0	0.0
1464	63.495	63.445	-0.109	0.0	0.0	0.0
1488	63.495	63.445	-0.109	0.0	0.0	0.0
1512	63.495	63.445	-0.109	0.0	0.0	0.0
1536	63.495	63.445	-0.109	0.0	0.0	0.0
1560	63.495	63.445	-0.109	0.0	0.0	0.0
1584	63.495	63.446	-0.109	0.0	0.0	0.0
1608	63.495	63.446	-0.109	0.0	0.0	0.0
1632	63.495	63.446	-0.109	0.0	0.0	0.0
1656	63.495	63.446	-0.109	0.0	0.0	0.0
1680	63.495	63.446	-0.109	0.0	0.0	0.0
1704	63.495	63.446	-0.109	0.0	0.0	0.0
1728	63.495	63.446	-0.109	0.0	0.0	0.0
1752	63.495	63.446	-0.109	0.0	0.0	0.0
1776	63.495	63.446	-0.109	0.0	0.0	0.0
1800	63.495	63.446	-0.109	0.0	0.0	0.0
1824	63.495	63.446	-0.109	0.0	0.0	0.0
1848	63.495	63.446	-0.109	0.0	0.0	0.0
1872	63.495	63.446	-0.109	0.0	0.0	0.0
1896	63.495	63.446	-0.109	0.0	0.0	0.0
1920	63.495	63.446	-0.109	0.0	0.0	0.0
1944	63.495	63.446	-0.109	0.0	0.0	0.0
1968	63.495	63.446	-0.109	0.0	0.0	0.0
1992	63.495	63.446	-0.109	0.0	0.0	0.0
2016	63.496	63.446	-0.108	0.0	0.1	0.0
2040	63.495	63.447	-0.109	0.0	0.1	0.0
2064	63.495	63.447	-0.109	0.0	0.1	0.0
2088	63.496	63.447	-0.109	0.0	0.1	0.0
2112	63.496	63.447	-0.109	0.0	0.1	0.0
2136	63.496	63.447	-0.109	0.0	0.1	0.0
2160	63.496	63.447	-0.109	0.0	0.1	0.0
2184	63.496	63.447	-0.108	0.0	0.1	0.0
2208	63.496	63.447	-0.108	0.0	0.1	0.0
2232	63.496	63.447	-0.108	0.0	0.1	0.0
2256	63.496	63.447	-0.108	0.0	0.1	0.0
2280	63.496	63.447	-0.108	0.0	0.1	0.0
2304	63.496	63.447	-0.108	0.0	0.1	0.0
2328	63.496	63.447	-0.108	0.0	0.1	0.0
2352	63.496	63.447	-0.108	0.0	0.1	0.0
2376	63.496	63.447	-0.108	0.0	0.1	0.0
2400	63.496	63.447	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.496	63.447	-0.108	0.0	0.1	0.0
2448	63.496	63.448	-0.108	0.0	0.1	0.0
2472	63.496	63.448	-0.108	0.0	0.1	0.0
2496	63.496	63.448	-0.108	0.0	0.1	0.0
2520	63.496	63.448	-0.108	0.0	0.1	0.0
2544	63.496	63.448	-0.108	0.0	0.1	0.0
2568	63.496	63.448	-0.108	0.0	0.1	0.0
2592	63.496	63.448	-0.108	0.0	0.1	0.0
2616	63.496	63.448	-0.108	0.0	0.1	0.0
2640	63.496	63.448	-0.108	0.0	0.1	0.0
2664	63.496	63.448	-0.108	0.0	0.1	0.0
2688	63.496	63.448	-0.108	0.0	0.1	0.0
2712	63.497	63.449	-0.108	0.0	0.1	0.0
2736	63.497	63.449	-0.108	0.0	0.1	0.0
2760	63.497	63.449	-0.108	0.0	0.1	0.0
2784	63.497	63.449	-0.107	0.0	0.1	0.0
2808	63.497	63.449	-0.107	0.0	0.1	0.0
2832	63.497	63.449	-0.107	0.0	0.1	0.0
2856	63.497	63.449	-0.107	0.0	0.1	0.0
2880	63.497	63.449	-0.107	0.0	0.1	0.0
2904	63.497	63.449	-0.107	0.0	0.1	0.0
2928	63.497	63.449	-0.107	0.0	0.1	0.0
2952	63.497	63.450	-0.107	0.0	0.2	0.0
2976	63.497	63.450	-0.107	0.0	0.2	0.0
3000	63.497	63.450	-0.107	0.0	0.2	0.0
3024	63.497	63.450	-0.107	0.0	0.2	0.0
3048	63.497	63.450	-0.107	0.0	0.2	0.0
3072	63.497	63.450	-0.107	0.0	0.2	0.0
3096	63.497	63.450	-0.107	0.0	0.2	0.0
3120	63.497	63.450	-0.107	0.0	0.2	0.0
3144	63.498	63.451	-0.107	0.0	0.2	0.0
3168	63.498	63.451	-0.107	0.0	0.2	0.0
3192	63.498	63.451	-0.107	0.0	0.2	0.0
3216	63.498	63.451	-0.106	0.0	0.2	0.0
3240	63.498	63.451	-0.106	0.0	0.2	0.0
3264	63.498	63.451	-0.106	0.0	0.2	0.0
3288	63.498	63.451	-0.106	0.0	0.2	0.0
3312	63.498	63.451	-0.106	0.0	0.2	0.1
3336	63.498	63.451	-0.106	0.0	0.2	0.1
3360	63.498	63.451	-0.106	0.0	0.2	0.1
3384	63.498	63.452	-0.106	0.0	0.2	0.1
3408	63.498	63.452	-0.106	0.0	0.2	0.1
3432	63.498	63.452	-0.106	0.0	0.2	0.1
3456	63.498	63.452	-0.106	0.0	0.2	0.1
3480	63.499	63.452	-0.106	0.0	0.2	0.1
3504	63.499	63.452	-0.106	0.0	0.2	0.1
3528	63.499	63.452	-0.106	0.0	0.2	0.1
3552	63.499	63.453	-0.106	0.0	0.2	0.1
3576	63.499	63.453	-0.105	0.0	0.2	0.1
3600	63.499	63.453	-0.105	0.0	0.2	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.499	63.453	-0.105	0.0	0.2	0.1
3648	63.499	63.453	-0.105	0.0	0.3	0.1
3672	63.499	63.453	-0.105	0.0	0.3	0.1
3696	63.499	63.453	-0.105	0.0	0.3	0.1
3720	63.499	63.453	-0.105	0.0	0.3	0.1
3744	63.499	63.454	-0.105	0.0	0.3	0.1
3768	63.499	63.454	-0.105	0.0	0.3	0.1
3792	63.499	63.454	-0.105	0.0	0.3	0.1
3816	63.499	63.454	-0.105	0.0	0.3	0.1
3840	63.499	63.454	-0.105	0.0	0.3	0.1
3864	63.499	63.454	-0.105	0.0	0.3	0.1
3888	63.499	63.454	-0.105	0.0	0.3	0.1
3912	63.500	63.454	-0.105	0.0	0.3	0.1
3936	63.500	63.454	-0.105	0.0	0.3	0.1
3960	63.500	63.454	-0.105	0.0	0.3	0.1
3984	63.500	63.454	-0.105	0.0	0.3	0.1
4008	63.500	63.455	-0.104	0.0	0.3	0.1
4032	63.500	63.455	-0.104	0.0	0.3	0.1
4056	63.500	63.455	-0.104	0.0	0.3	0.1
4080	63.500	63.455	-0.104	0.0	0.3	0.1
4104	63.500	63.455	-0.104	0.0	0.3	0.1
4128	63.500	63.455	-0.104	0.0	0.3	0.1
4152	63.500	63.455	-0.104	0.0	0.3	0.1
4176	63.500	63.455	-0.104	0.0	0.3	0.1
4200	63.500	63.455	-0.104	0.0	0.3	0.1
4224	63.500	63.455	-0.104	0.0	0.3	0.1
4248	63.500	63.455	-0.104	0.0	0.3	0.1
4272	63.500	63.455	-0.104	0.0	0.3	0.1
4296	63.500	63.455	-0.104	0.0	0.3	0.1
4320	63.500	63.455	-0.104	0.0	0.3	0.1
4344	63.500	63.455	-0.104	0.0	0.3	0.1
4368	63.500	63.455	-0.104	0.0	0.3	0.1
4392	63.500	63.455	-0.104	0.0	0.3	0.1
4416	63.500	63.455	-0.104	0.0	0.3	0.1
4440	63.500	63.455	-0.104	0.0	0.3	0.1
4464	63.500	63.455	-0.104	0.0	0.3	0.1
4488	63.500	63.455	-0.104	0.0	0.3	0.1
4512	63.500	63.455	-0.104	0.0	0.3	0.1
4536	63.500	63.455	-0.104	0.0	0.3	0.1
4560	63.500	63.455	-0.104	0.0	0.3	0.1
4584	63.500	63.455	-0.104	0.0	0.3	0.1
4608	63.500	63.455	-0.104	0.0	0.3	0.1
4632	63.500	63.455	-0.104	0.0	0.3	0.1
4656	63.500	63.455	-0.104	0.0	0.3	0.1
4680	63.500	63.454	-0.105	0.0	0.3	0.1
4704	63.500	63.454	-0.105	0.0	0.3	0.1
4728	63.500	63.454	-0.105	0.0	0.3	0.1
4752	63.500	63.454	-0.105	0.0	0.3	0.1
4776	63.499	63.455	-0.105	0.0	0.3	0.1
4800	63.499	63.455	-0.105	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.499	63.456	-0.105	0.0	0.3	0.1
4848	63.499	63.456	-0.105	0.0	0.3	0.1
4872	63.499	63.457	-0.105	0.0	0.3	0.1
4896	63.499	63.458	-0.105	0.0	0.3	0.1
4920	63.499	63.460	-0.105	0.0	0.3	0.1
4944	63.499	63.461	-0.105	0.0	0.3	0.1
4968	63.499	63.463	-0.105	0.0	0.3	0.1
4992	63.499	63.465	-0.105	0.0	0.3	0.1
5016	63.499	63.466	-0.105	0.0	0.3	0.1
5040	63.499	63.468	-0.105	0.0	0.2	0.1
5064	63.499	63.469	-0.105	0.0	0.2	0.1
5088	63.499	63.471	-0.105	0.0	0.2	0.1
5112	63.499	63.472	-0.106	0.0	0.2	0.1
5136	63.499	63.474	-0.106	0.0	0.2	0.1
5160	63.499	63.475	-0.106	0.0	0.2	0.1
5184	63.499	63.476	-0.106	0.0	0.2	0.1
5208	63.498	63.478	-0.106	0.0	0.2	0.1
5232	63.498	63.479	-0.106	0.0	0.2	0.1
5256	63.498	63.480	-0.106	0.0	0.2	0.1
5280	63.498	63.481	-0.106	0.0	0.2	0.1
5304	63.498	63.482	-0.106	0.0	0.2	0.1
5328	63.498	63.483	-0.106	0.0	0.2	0.1
5352	63.498	63.484	-0.106	0.0	0.2	0.1
5376	63.498	63.484	-0.106	0.0	0.2	0.0
5400	63.498	63.485	-0.106	0.0	0.2	0.0
5424	63.498	63.485	-0.106	0.0	0.2	0.0
5448	63.498	63.486	-0.106	0.0	0.2	0.0
5472	63.498	63.486	-0.106	0.0	0.2	0.0
5496	63.498	63.487	-0.106	0.0	0.2	0.0
5520	63.498	63.487	-0.106	0.0	0.2	0.0
5544	63.498	63.487	-0.106	0.0	0.2	0.0
5568	63.498	63.488	-0.106	0.0	0.2	0.0
5592	63.498	63.488	-0.106	0.0	0.2	0.0
5616	63.498	63.488	-0.106	0.0	0.2	0.0
5640	63.498	63.488	-0.106	0.0	0.2	0.0
5664	63.498	63.488	-0.106	0.0	0.2	0.0
5688	63.498	63.487	-0.106	0.0	0.2	0.0
5712	63.498	63.487	-0.106	0.0	0.2	0.0
5736	63.498	63.487	-0.106	0.0	0.2	0.0
5760	63.498	63.487	-0.107	0.0	0.1	0.0
5784	63.498	63.486	-0.107	0.0	0.1	0.0
5808	63.497	63.486	-0.107	0.0	0.1	0.0
5832	63.497	63.485	-0.107	0.0	0.1	0.0
5856	63.497	63.485	-0.107	0.0	0.1	0.0
5880	63.497	63.484	-0.107	0.0	0.1	0.0
5904	63.497	63.483	-0.107	0.0	0.1	0.0
5928	63.497	63.483	-0.107	0.0	0.1	0.0
5952	63.497	63.482	-0.107	0.0	0.1	0.0
5976	63.497	63.481	-0.108	0.0	0.1	0.0
6000	63.496	63.480	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.496	63.479	-0.108	0.0	0.1	0.0
6048	63.496	63.478	-0.108	0.0	0.1	0.0
6072	63.496	63.477	-0.108	0.0	0.1	0.0
6096	63.496	63.476	-0.108	0.0	0.1	0.0
6120	63.496	63.475	-0.108	0.0	0.1	0.0
6144	63.496	63.474	-0.108	0.0	0.1	0.0
6168	63.496	63.472	-0.108	0.0	0.1	0.0
6192	63.496	63.471	-0.108	0.0	0.1	0.0
6216	63.496	63.470	-0.108	0.0	0.1	0.0
6240	63.496	63.468	-0.108	0.0	0.1	0.0
6264	63.496	63.467	-0.108	0.0	0.1	0.0
6288	63.496	63.465	-0.108	0.0	0.1	0.0
6312	63.496	63.464	-0.108	0.0	0.1	0.0
6336	63.496	63.462	-0.108	0.0	0.1	0.0
6360	63.496	63.461	-0.108	0.0	0.1	0.0
6384	63.496	63.460	-0.108	0.0	0.1	0.0
6408	63.496	63.458	-0.108	0.0	0.1	0.0
6432	63.496	63.456	-0.108	0.0	0.1	0.0
6456	63.496	63.455	-0.108	0.0	0.1	0.0
6480	63.496	63.454	-0.108	0.0	0.1	0.0
6504	63.496	63.452	-0.109	0.0	0.1	0.0
6528	63.496	63.451	-0.109	0.0	0.1	0.0
6552	63.496	63.450	-0.109	0.0	0.1	0.0
6576	63.495	63.449	-0.109	0.0	0.1	0.0
6600	63.495	63.448	-0.109	0.0	0.1	0.0
6624	63.495	63.448	-0.109	0.0	0.1	0.0
6648	63.495	63.447	-0.109	0.0	0.1	0.0
6672	63.495	63.447	-0.109	0.0	0.1	0.0
6696	63.495	63.447	-0.109	0.0	0.1	0.0
6720	63.495	63.446	-0.109	0.0	0.1	0.0
6744	63.495	63.446	-0.109	0.0	0.1	0.0
6768	63.495	63.446	-0.109	0.0	0.1	0.0
6792	63.495	63.446	-0.109	0.0	0.1	0.0
6816	63.495	63.446	-0.109	0.0	0.1	0.0
6840	63.495	63.446	-0.109	0.0	0.1	0.0
6864	63.495	63.446	-0.109	0.0	0.1	0.0
6888	63.495	63.446	-0.109	0.0	0.1	0.0
6912	63.495	63.446	-0.109	0.0	0.1	0.0
6936	63.495	63.446	-0.109	0.0	0.1	0.0
6960	63.495	63.446	-0.109	0.0	0.1	0.0
6984	63.495	63.446	-0.109	0.0	0.1	0.0
7008	63.495	63.446	-0.109	0.0	0.1	0.0
7032	63.495	63.446	-0.109	0.0	0.1	0.0
7056	63.495	63.446	-0.109	0.0	0.1	0.0
7080	63.495	63.446	-0.109	0.0	0.1	0.0
7104	63.495	63.446	-0.109	0.0	0.1	0.0
7128	63.495	63.446	-0.109	0.0	0.1	0.0
7152	63.495	63.446	-0.109	0.0	0.1	0.0
7176	63.495	63.446	-0.109	0.0	0.1	0.0
7200	63.495	63.446	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.495	63.446	-0.109	0.0	0.1	0.0
7248	63.495	63.446	-0.109	0.0	0.1	0.0
7272	63.495	63.446	-0.109	0.0	0.1	0.0
7296	63.495	63.446	-0.109	0.0	0.1	0.0
7320	63.495	63.446	-0.109	0.0	0.1	0.0
7344	63.495	63.446	-0.109	0.0	0.1	0.0
7368	63.495	63.446	-0.109	0.0	0.1	0.0
7392	63.495	63.446	-0.109	0.0	0.1	0.0
7416	63.495	63.446	-0.109	0.0	0.1	0.0
7440	63.495	63.446	-0.109	0.0	0.1	0.0
7464	63.495	63.446	-0.109	0.0	0.1	0.0
7488	63.495	63.446	-0.109	0.0	0.1	0.0
7512	63.495	63.446	-0.109	0.0	0.1	0.0
7536	63.495	63.446	-0.109	0.0	0.1	0.0
7560	63.495	63.446	-0.109	0.0	0.1	0.0
7584	63.495	63.446	-0.109	0.0	0.1	0.0
7608	63.495	63.446	-0.109	0.0	0.1	0.0
7632	63.495	63.446	-0.109	0.0	0.1	0.0
7656	63.495	63.446	-0.109	0.0	0.1	0.0
7680	63.495	63.446	-0.109	0.0	0.1	0.0
7704	63.495	63.446	-0.109	0.0	0.1	0.0
7728	63.495	63.446	-0.109	0.0	0.1	0.0
7752	63.495	63.446	-0.109	0.0	0.1	0.0
7776	63.495	63.446	-0.109	0.0	0.1	0.0
7800	63.495	63.446	-0.109	0.0	0.1	0.0
7824	63.495	63.446	-0.109	0.0	0.1	0.0
7848	63.495	63.446	-0.109	0.0	0.1	0.0
7872	63.495	63.446	-0.109	0.0	0.1	0.0
7896	63.495	63.446	-0.109	0.0	0.1	0.0
7920	63.495	63.446	-0.109	0.0	0.1	0.0
7944	63.495	63.446	-0.109	0.0	0.1	0.0
7968	63.495	63.446	-0.109	0.0	0.1	0.0
7992	63.495	63.446	-0.109	0.0	0.1	0.0
8016	63.495	63.446	-0.109	0.0	0.1	0.0
8040	63.495	63.446	-0.109	0.0	0.1	0.0
8064	63.495	63.446	-0.109	0.0	0.0	0.0
8088	63.495	63.446	-0.109	0.0	0.0	0.0
8112	63.495	63.446	-0.109	0.0	0.0	0.0
8136	63.495	63.446	-0.109	0.0	0.0	0.0
8160	63.495	63.446	-0.109	0.0	0.0	0.0
8184	63.495	63.446	-0.109	0.0	0.0	0.0
8208	63.495	63.446	-0.109	0.0	0.0	0.0
8232	63.495	63.446	-0.109	0.0	0.0	0.0
8256	63.495	63.446	-0.109	0.0	0.0	0.0
8280	63.495	63.446	-0.109	0.0	0.0	0.0
8304	63.495	63.445	-0.109	0.0	0.0	0.0
8328	63.495	63.445	-0.109	0.0	0.0	0.0
8352	63.495	63.445	-0.109	0.0	0.0	0.0
8376	63.495	63.445	-0.109	0.0	0.0	0.0
8400	63.495	63.445	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.495	63.445	-0.110	0.0	0.0	0.0
8448	63.495	63.445	-0.110	0.0	0.0	0.0
8472	63.495	63.445	-0.110	0.0	0.0	0.0
8496	63.494	63.445	-0.110	0.0	0.0	0.0
8520	63.494	63.445	-0.110	0.0	0.0	0.0
8544	63.494	63.445	-0.110	0.0	0.0	0.0
8568	63.494	63.444	-0.110	0.0	0.0	0.0
8592	63.494	63.444	-0.110	0.0	0.0	0.0
8616	63.494	63.444	-0.110	0.0	0.0	0.0
8640	63.494	63.444	-0.110	0.0	0.0	0.0
8664	63.494	63.444	-0.110	0.0	0.0	0.0
8688	63.494	63.444	-0.110	0.0	0.0	0.0
8712	63.494	63.444	-0.110	0.0	0.0	0.0
8736	63.494	63.444	-0.110	0.0	0.0	0.0
8760	63.494	63.444	-0.110	0.0	0.0	0.0
8784	63.494	63.444	-0.110	0.0	0.0	0.0
8808	63.494	63.444	-0.110	0.0	0.0	0.0
8832	63.494	63.444	-0.110	0.0	0.0	0.0
8856	63.494	63.444	-0.110	0.0	0.0	0.0
8880	63.494	63.444	-0.110	0.0	0.0	0.0
8904	63.494	63.444	-0.110	0.0	0.0	0.0
8928	63.494	63.444	-0.110	0.0	0.0	0.0
8952	63.494	63.444	-0.110	0.0	0.0	0.0
8976	63.494	63.444	-0.110	0.0	0.0	0.0
9000	63.494	63.444	-0.110	0.0	0.0	0.0
9024	63.494	63.444	-0.110	0.0	0.0	0.0
9048	63.494	63.444	-0.110	0.0	0.0	0.0
9072	63.494	63.444	-0.110	0.0	0.0	0.0
9096	63.494	63.444	-0.110	0.0	0.0	0.0
9120	63.494	63.444	-0.110	0.0	0.0	0.0
9144	63.494	63.444	-0.110	0.0	0.0	0.0
9168	63.494	63.444	-0.110	0.0	0.0	0.0
9192	63.494	63.444	-0.110	0.0	0.0	0.0
9216	63.494	63.444	-0.110	0.0	0.0	0.0
9240	63.494	63.444	-0.110	0.0	0.0	0.0
9264	63.494	63.444	-0.110	0.0	0.0	0.0
9288	63.494	63.444	-0.110	0.0	0.0	0.0
9312	63.494	63.444	-0.110	0.0	0.0	0.0
9336	63.494	63.444	-0.110	0.0	0.0	0.0
9360	63.494	63.444	-0.110	0.0	0.0	0.0
9384	63.494	63.444	-0.110	0.0	0.0	0.0
9408	63.494	63.444	-0.110	0.0	0.0	0.0
9432	63.494	63.444	-0.110	0.0	0.0	0.0
9456	63.494	63.444	-0.110	0.0	0.0	0.0
9480	63.494	63.444	-0.110	0.0	0.0	0.0
9504	63.494	63.444	-0.110	0.0	0.0	0.0
9528	63.494	63.444	-0.110	0.0	0.0	0.0
9552	63.494	63.444	-0.110	0.0	0.0	0.0
9576	63.494	63.444	-0.110	0.0	0.0	0.0
9600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.494	63.444	-0.110	0.0	0.0	0.0
9648	63.494	63.444	-0.110	0.0	0.0	0.0
9672	63.494	63.444	-0.110	0.0	0.0	0.0
9696	63.494	63.444	-0.110	0.0	0.0	0.0
9720	63.494	63.444	-0.110	0.0	0.0	0.0
9744	63.494	63.444	-0.110	0.0	0.0	0.0
9768	63.494	63.444	-0.110	0.0	0.0	0.0
9792	63.494	63.444	-0.110	0.0	0.0	0.0
9816	63.494	63.444	-0.110	0.0	0.0	0.0
9840	63.494	63.444	-0.110	0.0	0.0	0.0
9864	63.494	63.444	-0.110	0.0	0.0	0.0
9888	63.494	63.444	-0.110	0.0	0.0	0.0
9912	63.494	63.444	-0.110	0.0	0.0	0.0
9936	63.494	63.444	-0.110	0.0	0.0	0.0
9960	63.494	63.444	-0.110	0.0	0.0	0.0
9984	63.494	63.444	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.494	63.444	-0.110	0.0	0.0	0.0
14448	63.494	63.444	-0.110	0.0	0.0	0.0
14472	63.494	63.444	-0.110	0.0	0.0	0.0
14496	63.494	63.444	-0.110	0.0	0.0	0.0
14520	63.494	63.444	-0.110	0.0	0.0	0.0
14544	63.494	63.444	-0.110	0.0	0.0	0.0
14568	63.494	63.444	-0.110	0.0	0.0	0.0
14592	63.494	63.444	-0.110	0.0	0.0	0.0
14616	63.494	63.444	-0.110	0.0	0.0	0.0
14640	63.494	63.444	-0.110	0.0	0.0	0.0
14664	63.494	63.444	-0.110	0.0	0.0	0.0
14688	63.494	63.444	-0.110	0.0	0.0	0.0
14712	63.494	63.444	-0.110	0.0	0.0	0.0
14736	63.494	63.444	-0.110	0.0	0.0	0.0
14760	63.494	63.444	-0.110	0.0	0.0	0.0
14784	63.494	63.444	-0.110	0.0	0.0	0.0
14808	63.494	63.444	-0.110	0.0	0.0	0.0
14832	63.494	63.444	-0.110	0.0	0.0	0.0
14856	63.494	63.444	-0.110	0.0	0.0	0.0
14880	63.494	63.444	-0.110	0.0	0.0	0.0
14904	63.494	63.444	-0.110	0.0	0.0	0.0
14928	63.494	63.444	-0.110	0.0	0.0	0.0
14952	63.494	63.444	-0.110	0.0	0.0	0.0
14976	63.494	63.444	-0.110	0.0	0.0	0.0
15000	63.494	63.444	-0.110	0.0	0.0	0.0
15024	63.494	63.444	-0.110	0.0	0.0	0.0
15048	63.494	63.444	-0.110	0.0	0.0	0.0
15072	63.494	63.444	-0.110	0.0	0.0	0.0
15096	63.494	63.444	-0.110	0.0	0.0	0.0
15120	63.494	63.444	-0.110	0.0	0.0	0.0
15144	63.494	63.444	-0.110	0.0	0.0	0.0
15168	63.494	63.444	-0.110	0.0	0.0	0.0
15192	63.494	63.444	-0.110	0.0	0.0	0.0
15216	63.494	63.444	-0.110	0.0	0.0	0.0
15240	63.494	63.444	-0.110	0.0	0.0	0.0
15264	63.494	63.444	-0.110	0.0	0.0	0.0
15288	63.494	63.444	-0.110	0.0	0.0	0.0
15312	63.494	63.444	-0.110	0.0	0.0	0.0
15336	63.494	63.444	-0.110	0.0	0.0	0.0
15360	63.494	63.444	-0.110	0.0	0.0	0.0
15384	63.494	63.444	-0.110	0.0	0.0	0.0
15408	63.494	63.444	-0.110	0.0	0.0	0.0
15432	63.494	63.444	-0.110	0.0	0.0	0.0
15456	63.494	63.444	-0.110	0.0	0.0	0.0
15480	63.494	63.444	-0.110	0.0	0.0	0.0
15504	63.494	63.444	-0.110	0.0	0.0	0.0
15528	63.494	63.444	-0.110	0.0	0.0	0.0
15552	63.494	63.444	-0.110	0.0	0.0	0.0
15576	63.494	63.444	-0.110	0.0	0.0	0.0
15600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.494	63.444	-0.110	0.0	0.0	0.0
15648	63.494	63.444	-0.110	0.0	0.0	0.0
15672	63.494	63.444	-0.110	0.0	0.0	0.0
15696	63.494	63.444	-0.110	0.0	0.0	0.0
15720	63.494	63.444	-0.110	0.0	0.0	0.0
15744	63.494	63.444	-0.110	0.0	0.0	0.0
15768	63.494	63.444	-0.110	0.0	0.0	0.0
15792	63.494	63.444	-0.110	0.0	0.0	0.0
15816	63.494	63.444	-0.110	0.0	0.0	0.0
15840	63.494	63.444	-0.110	0.0	0.0	0.0
15864	63.494	63.444	-0.110	0.0	0.0	0.0
15888	63.494	63.444	-0.110	0.0	0.0	0.0
15912	63.494	63.444	-0.110	0.0	0.0	0.0
15936	63.494	63.444	-0.110	0.0	0.0	0.0
15960	63.494	63.444	-0.110	0.0	0.0	0.0
15984	63.494	63.444	-0.110	0.0	0.0	0.0
16008	63.494	63.444	-0.110	0.0	0.0	0.0
16032	63.494	63.444	-0.110	0.0	0.0	0.0
16056	63.494	63.444	-0.110	0.0	0.0	0.0
16080	63.494	63.444	-0.110	0.0	0.0	0.0
16104	63.494	63.444	-0.110	0.0	0.0	0.0
16128	63.494	63.444	-0.110	0.0	0.0	0.0
16152	63.494	63.444	-0.110	0.0	0.0	0.0
16176	63.494	63.444	-0.110	0.0	0.0	0.0
16200	63.494	63.444	-0.110	0.0	0.0	0.0
16224	63.494	63.444	-0.110	0.0	0.0	0.0
16248	63.494	63.444	-0.110	0.0	0.0	0.0
16272	63.494	63.444	-0.110	0.0	0.0	0.0
16296	63.494	63.444	-0.110	0.0	0.0	0.0
16320	63.494	63.444	-0.110	0.0	0.0	0.0
16344	63.494	63.444	-0.110	0.0	0.0	0.0
16368	63.494	63.444	-0.110	0.0	0.0	0.0
16392	63.494	63.444	-0.110	0.0	0.0	0.0
16416	63.494	63.444	-0.110	0.0	0.0	0.0
16440	63.494	63.444	-0.110	0.0	0.0	0.0
16464	63.494	63.444	-0.110	0.0	0.0	0.0
16488	63.494	63.444	-0.110	0.0	0.0	0.0
16512	63.494	63.444	-0.110	0.0	0.0	0.0
16536	63.494	63.444	-0.110	0.0	0.0	0.0
16560	63.494	63.444	-0.110	0.0	0.0	0.0
16584	63.494	63.444	-0.110	0.0	0.0	0.0
16608	63.494	63.444	-0.110	0.0	0.0	0.0
16632	63.494	63.444	-0.110	0.0	0.0	0.0
16656	63.494	63.444	-0.110	0.0	0.0	0.0
16680	63.494	63.444	-0.110	0.0	0.0	0.0
16704	63.494	63.444	-0.110	0.0	0.0	0.0
16728	63.494	63.444	-0.110	0.0	0.0	0.0
16752	63.494	63.444	-0.110	0.0	0.0	0.0
16776	63.494	63.444	-0.110	0.0	0.0	0.0
16800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.494	63.444	-0.110	0.0	0.0	0.0
16848	63.494	63.444	-0.110	0.0	0.0	0.0
16872	63.494	63.444	-0.110	0.0	0.0	0.0
16896	63.494	63.444	-0.110	0.0	0.0	0.0
16920	63.494	63.444	-0.110	0.0	0.0	0.0
16944	63.494	63.444	-0.110	0.0	0.0	0.0
16968	63.494	63.444	-0.110	0.0	0.0	0.0
16992	63.494	63.444	-0.110	0.0	0.0	0.0
17016	63.494	63.444	-0.110	0.0	0.0	0.0
17040	63.494	63.444	-0.110	0.0	0.0	0.0
17064	63.494	63.444	-0.110	0.0	0.0	0.0
17088	63.494	63.444	-0.110	0.0	0.0	0.0
17112	63.494	63.444	-0.110	0.0	0.0	0.0
17136	63.494	63.444	-0.110	0.0	0.0	0.0
17160	63.494	63.444	-0.110	0.0	0.0	0.0
17184	63.494	63.444	-0.110	0.0	0.0	0.0
17208	63.494	63.444	-0.110	0.0	0.0	0.0
17232	63.494	63.444	-0.110	0.0	0.0	0.0
17256	63.494	63.444	-0.110	0.0	0.0	0.0
17280	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.1	0.0
2472	65.400	65.000	-0.110	0.0	0.1	0.0
2496	65.400	65.000	-0.110	0.0	0.1	0.0
2520	65.400	65.000	-0.110	0.0	0.1	0.0
2544	65.400	65.000	-0.110	0.0	0.1	0.0
2568	65.400	65.000	-0.110	0.0	0.1	0.0
2592	65.400	65.000	-0.110	0.0	0.1	0.0
2616	65.400	65.001	-0.110	0.0	0.1	0.0
2640	65.400	65.001	-0.110	0.0	0.1	0.0
2664	65.400	65.001	-0.110	0.0	0.1	0.0
2688	65.400	65.001	-0.110	0.0	0.1	0.0
2712	65.400	65.001	-0.110	0.0	0.1	0.0
2736	65.400	65.001	-0.110	0.0	0.1	0.0
2760	65.400	65.001	-0.110	0.0	0.1	0.0
2784	65.400	65.001	-0.110	0.0	0.1	0.0
2808	65.400	65.001	-0.110	0.0	0.1	0.0
2832	65.400	65.001	-0.110	0.0	0.1	0.0
2856	65.400	65.001	-0.110	0.0	0.1	0.0
2880	65.400	65.001	-0.110	0.0	0.1	0.0
2904	65.400	65.001	-0.110	0.0	0.1	0.0
2928	65.400	65.001	-0.110	0.0	0.1	0.0
2952	65.400	65.001	-0.110	0.0	0.1	0.0
2976	65.400	65.001	-0.110	0.0	0.1	0.0
3000	65.400	65.001	-0.110	0.0	0.1	0.0
3024	65.400	65.001	-0.110	0.0	0.1	0.0
3048	65.401	65.001	-0.109	0.0	0.1	0.0
3072	65.401	65.001	-0.109	0.0	0.1	0.0
3096	65.401	65.001	-0.109	0.0	0.1	0.0
3120	65.401	65.001	-0.109	0.0	0.1	0.0
3144	65.401	65.001	-0.109	0.0	0.1	0.0
3168	65.401	65.001	-0.109	0.0	0.1	0.0
3192	65.401	65.001	-0.109	0.0	0.1	0.0
3216	65.401	65.001	-0.109	0.0	0.1	0.0
3240	65.401	65.001	-0.109	0.0	0.1	0.0
3264	65.401	65.001	-0.109	0.0	0.1	0.0
3288	65.401	65.001	-0.109	0.0	0.1	0.0
3312	65.401	65.001	-0.109	0.0	0.1	0.0
3336	65.401	65.001	-0.109	0.0	0.1	0.0
3360	65.401	65.001	-0.109	0.0	0.1	0.0
3384	65.401	65.001	-0.109	0.0	0.1	0.0
3408	65.401	65.001	-0.109	0.0	0.1	0.0
3432	65.401	65.001	-0.109	0.0	0.1	0.0
3456	65.401	65.001	-0.109	0.0	0.1	0.0
3480	65.401	65.001	-0.109	0.0	0.1	0.0
3504	65.401	65.001	-0.109	0.0	0.1	0.0
3528	65.401	65.001	-0.109	0.0	0.1	0.0
3552	65.401	65.001	-0.109	0.0	0.1	0.0
3576	65.401	65.001	-0.109	0.0	0.1	0.0
3600	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.401	65.001	-0.109	0.0	0.1	0.0
3648	65.401	65.001	-0.109	0.0	0.1	0.0
3672	65.401	65.001	-0.109	0.0	0.1	0.0
3696	65.401	65.001	-0.109	0.0	0.1	0.0
3720	65.401	65.001	-0.109	0.0	0.1	0.0
3744	65.401	65.001	-0.109	0.0	0.1	0.0
3768	65.401	65.001	-0.109	0.0	0.1	0.0
3792	65.401	65.001	-0.109	0.0	0.1	0.0
3816	65.401	65.001	-0.109	0.0	0.1	0.0
3840	65.401	65.001	-0.109	0.0	0.1	0.0
3864	65.401	65.001	-0.109	0.0	0.1	0.0
3888	65.401	65.001	-0.109	0.0	0.1	0.0
3912	65.401	65.001	-0.109	0.0	0.1	0.0
3936	65.401	65.001	-0.109	0.0	0.1	0.0
3960	65.401	65.001	-0.109	0.0	0.1	0.0
3984	65.401	65.001	-0.109	0.0	0.1	0.0
4008	65.401	65.001	-0.109	0.0	0.1	0.0
4032	65.401	65.001	-0.109	0.0	0.1	0.0
4056	65.401	65.001	-0.109	0.0	0.1	0.0
4080	65.401	65.001	-0.109	0.0	0.2	0.0
4104	65.401	65.001	-0.109	0.0	0.2	0.0
4128	65.401	65.001	-0.109	0.0	0.2	0.0
4152	65.401	65.001	-0.109	0.0	0.2	0.0
4176	65.401	65.001	-0.109	0.0	0.2	0.0
4200	65.401	65.001	-0.109	0.0	0.2	0.0
4224	65.401	65.001	-0.109	0.0	0.2	0.0
4248	65.401	65.001	-0.109	0.0	0.2	0.0
4272	65.401	65.001	-0.109	0.0	0.2	0.0
4296	65.401	65.001	-0.109	0.0	0.2	0.0
4320	65.401	65.001	-0.109	0.0	0.2	0.0
4344	65.401	65.001	-0.109	0.0	0.2	0.0
4368	65.401	65.001	-0.109	0.0	0.2	0.0
4392	65.401	65.001	-0.109	0.0	0.2	0.0
4416	65.401	65.001	-0.109	0.0	0.2	0.0
4440	65.401	65.001	-0.109	0.0	0.2	0.0
4464	65.401	65.001	-0.109	0.0	0.2	0.0
4488	65.401	65.001	-0.109	0.0	0.2	0.0
4512	65.401	65.001	-0.109	0.0	0.2	0.0
4536	65.401	65.001	-0.109	0.0	0.2	0.0
4560	65.401	65.001	-0.109	0.0	0.2	0.0
4584	65.401	65.001	-0.109	0.0	0.2	0.0
4608	65.401	65.001	-0.109	0.0	0.1	0.0
4632	65.401	65.001	-0.109	0.0	0.1	0.0
4656	65.401	65.001	-0.109	0.0	0.1	0.0
4680	65.401	65.001	-0.109	0.0	0.1	0.0
4704	65.401	65.001	-0.109	0.0	0.1	0.0
4728	65.401	65.001	-0.109	0.0	0.1	0.0
4752	65.401	65.001	-0.109	0.0	0.1	0.0
4776	65.401	65.001	-0.109	0.0	0.1	0.0
4800	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	65.001	-0.109	0.0	0.1	0.0
4848	65.401	65.001	-0.109	0.0	0.1	0.0
4872	65.401	65.001	-0.109	0.0	0.1	0.0
4896	65.401	65.001	-0.109	0.0	0.1	0.0
4920	65.401	65.001	-0.109	0.0	0.1	0.0
4944	65.401	65.001	-0.109	0.0	0.1	0.0
4968	65.401	65.001	-0.109	0.0	0.1	0.0
4992	65.401	65.001	-0.109	0.0	0.1	0.0
5016	65.401	65.001	-0.109	0.0	0.1	0.0
5040	65.401	65.001	-0.109	0.0	0.1	0.0
5064	65.401	65.001	-0.109	0.0	0.1	0.0
5088	65.401	65.001	-0.109	0.0	0.1	0.0
5112	65.401	65.001	-0.109	0.0	0.1	0.0
5136	65.401	65.001	-0.109	0.0	0.1	0.0
5160	65.401	65.001	-0.109	0.0	0.1	0.0
5184	65.401	65.001	-0.109	0.0	0.1	0.0
5208	65.401	65.001	-0.109	0.0	0.1	0.0
5232	65.401	65.001	-0.109	0.0	0.1	0.0
5256	65.401	65.001	-0.109	0.0	0.1	0.0
5280	65.401	65.001	-0.109	0.0	0.1	0.0
5304	65.401	65.001	-0.109	0.0	0.1	0.0
5328	65.401	65.001	-0.109	0.0	0.1	0.0
5352	65.401	65.001	-0.109	0.0	0.1	0.0
5376	65.401	65.001	-0.109	0.0	0.1	0.0
5400	65.401	65.001	-0.109	0.0	0.1	0.0
5424	65.401	65.001	-0.109	0.0	0.1	0.0
5448	65.401	65.001	-0.109	0.0	0.1	0.0
5472	65.401	65.001	-0.109	0.0	0.1	0.0
5496	65.401	65.001	-0.109	0.0	0.1	0.0
5520	65.401	65.001	-0.109	0.0	0.1	0.0
5544	65.401	65.001	-0.109	0.0	0.1	0.0
5568	65.401	65.001	-0.109	0.0	0.1	0.0
5592	65.401	65.001	-0.109	0.0	0.1	0.0
5616	65.401	65.001	-0.109	0.0	0.1	0.0
5640	65.400	65.001	-0.110	0.0	0.1	0.0
5664	65.400	65.001	-0.110	0.0	0.1	0.0
5688	65.400	65.001	-0.110	0.0	0.1	0.0
5712	65.400	65.001	-0.110	0.0	0.1	0.0
5736	65.400	65.001	-0.110	0.0	0.1	0.0
5760	65.400	65.001	-0.110	0.0	0.1	0.0
5784	65.400	65.001	-0.110	0.0	0.1	0.0
5808	65.400	65.001	-0.110	0.0	0.1	0.0
5832	65.400	65.001	-0.110	0.0	0.1	0.0
5856	65.400	65.001	-0.110	0.0	0.1	0.0
5880	65.400	65.001	-0.110	0.0	0.1	0.0
5904	65.400	65.001	-0.110	0.0	0.1	0.0
5928	65.400	65.001	-0.110	0.0	0.1	0.0
5952	65.400	65.001	-0.110	0.0	0.1	0.0
5976	65.400	65.001	-0.110	0.0	0.1	0.0
6000	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	65.001	-0.110	0.0	0.1	0.0
6048	65.400	65.001	-0.110	0.0	0.1	0.0
6072	65.400	65.000	-0.110	0.0	0.1	0.0
6096	65.400	65.000	-0.110	0.0	0.1	0.0
6120	65.400	65.000	-0.110	0.0	0.1	0.0
6144	65.400	65.000	-0.110	0.0	0.1	0.0
6168	65.400	65.000	-0.110	0.0	0.1	0.0
6192	65.400	65.000	-0.110	0.0	0.1	0.0
6216	65.400	65.000	-0.110	0.0	0.1	0.0
6240	65.400	65.000	-0.110	0.0	0.0	0.0
6264	65.400	65.000	-0.110	0.0	0.0	0.0
6288	65.400	65.000	-0.110	0.0	0.0	0.0
6312	65.400	65.000	-0.110	0.0	0.0	0.0
6336	65.400	65.000	-0.110	0.0	0.0	0.0
6360	65.400	65.000	-0.110	0.0	0.0	0.0
6384	65.400	65.000	-0.110	0.0	0.0	0.0
6408	65.400	65.000	-0.110	0.0	0.0	0.0
6432	65.400	65.000	-0.110	0.0	0.0	0.0
6456	65.400	65.000	-0.110	0.0	0.0	0.0
6480	65.400	65.000	-0.110	0.0	0.0	0.0
6504	65.400	65.000	-0.110	0.0	0.0	0.0
6528	65.400	65.000	-0.110	0.0	0.0	0.0
6552	65.400	65.000	-0.110	0.0	0.0	0.0
6576	65.400	65.000	-0.110	0.0	0.0	0.0
6600	65.400	65.000	-0.110	0.0	0.0	0.0
6624	65.400	65.000	-0.110	0.0	0.0	0.0
6648	65.400	65.000	-0.110	0.0	0.0	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	65.000	-0.110	0.0	0.0	0.0
14448	65.400	65.000	-0.110	0.0	0.0	0.0
14472	65.400	65.000	-0.110	0.0	0.0	0.0
14496	65.400	65.000	-0.110	0.0	0.0	0.0
14520	65.400	65.000	-0.110	0.0	0.0	0.0
14544	65.400	65.000	-0.110	0.0	0.0	0.0
14568	65.400	65.000	-0.110	0.0	0.0	0.0
14592	65.400	65.000	-0.110	0.0	0.0	0.0
14616	65.400	65.000	-0.110	0.0	0.0	0.0
14640	65.400	65.000	-0.110	0.0	0.0	0.0
14664	65.400	65.000	-0.110	0.0	0.0	0.0
14688	65.400	65.000	-0.110	0.0	0.0	0.0
14712	65.400	65.000	-0.110	0.0	0.0	0.0
14736	65.400	65.000	-0.110	0.0	0.0	0.0
14760	65.400	65.000	-0.110	0.0	0.0	0.0
14784	65.400	65.000	-0.110	0.0	0.0	0.0
14808	65.400	65.000	-0.110	0.0	0.0	0.0
14832	65.400	65.000	-0.110	0.0	0.0	0.0
14856	65.400	65.000	-0.110	0.0	0.0	0.0
14880	65.400	65.000	-0.110	0.0	0.0	0.0
14904	65.400	65.000	-0.110	0.0	0.0	0.0
14928	65.400	65.000	-0.110	0.0	0.0	0.0
14952	65.400	65.000	-0.110	0.0	0.0	0.0
14976	65.400	65.000	-0.110	0.0	0.0	0.0
15000	65.400	65.000	-0.110	0.0	0.0	0.0
15024	65.400	65.000	-0.110	0.0	0.0	0.0
15048	65.400	65.000	-0.110	0.0	0.0	0.0
15072	65.400	65.000	-0.110	0.0	0.0	0.0
15096	65.400	65.000	-0.110	0.0	0.0	0.0
15120	65.400	65.000	-0.110	0.0	0.0	0.0
15144	65.400	65.000	-0.110	0.0	0.0	0.0
15168	65.400	65.000	-0.110	0.0	0.0	0.0
15192	65.400	65.000	-0.110	0.0	0.0	0.0
15216	65.400	65.000	-0.110	0.0	0.0	0.0
15240	65.400	65.000	-0.110	0.0	0.0	0.0
15264	65.400	65.000	-0.110	0.0	0.0	0.0
15288	65.400	65.000	-0.110	0.0	0.0	0.0
15312	65.400	65.000	-0.110	0.0	0.0	0.0
15336	65.400	65.000	-0.110	0.0	0.0	0.0
15360	65.400	65.000	-0.110	0.0	0.0	0.0
15384	65.400	65.000	-0.110	0.0	0.0	0.0
15408	65.400	65.000	-0.110	0.0	0.0	0.0
15432	65.400	65.000	-0.110	0.0	0.0	0.0
15456	65.400	65.000	-0.110	0.0	0.0	0.0
15480	65.400	65.000	-0.110	0.0	0.0	0.0
15504	65.400	65.000	-0.110	0.0	0.0	0.0
15528	65.400	65.000	-0.110	0.0	0.0	0.0
15552	65.400	65.000	-0.110	0.0	0.0	0.0
15576	65.400	65.000	-0.110	0.0	0.0	0.0
15600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	65.000	-0.110	0.0	0.0	0.0
15648	65.400	65.000	-0.110	0.0	0.0	0.0
15672	65.400	65.000	-0.110	0.0	0.0	0.0
15696	65.400	65.000	-0.110	0.0	0.0	0.0
15720	65.400	65.000	-0.110	0.0	0.0	0.0
15744	65.400	65.000	-0.110	0.0	0.0	0.0
15768	65.400	65.000	-0.110	0.0	0.0	0.0
15792	65.400	65.000	-0.110	0.0	0.0	0.0
15816	65.400	65.000	-0.110	0.0	0.0	0.0
15840	65.400	65.000	-0.110	0.0	0.0	0.0
15864	65.400	65.000	-0.110	0.0	0.0	0.0
15888	65.400	65.000	-0.110	0.0	0.0	0.0
15912	65.400	65.000	-0.110	0.0	0.0	0.0
15936	65.400	65.000	-0.110	0.0	0.0	0.0
15960	65.400	65.000	-0.110	0.0	0.0	0.0
15984	65.400	65.000	-0.110	0.0	0.0	0.0
16008	65.400	65.000	-0.110	0.0	0.0	0.0
16032	65.400	65.000	-0.110	0.0	0.0	0.0
16056	65.400	65.000	-0.110	0.0	0.0	0.0
16080	65.400	65.000	-0.110	0.0	0.0	0.0
16104	65.400	65.000	-0.110	0.0	0.0	0.0
16128	65.400	65.000	-0.110	0.0	0.0	0.0
16152	65.400	65.000	-0.110	0.0	0.0	0.0
16176	65.400	65.000	-0.110	0.0	0.0	0.0
16200	65.400	65.000	-0.110	0.0	0.0	0.0
16224	65.400	65.000	-0.110	0.0	0.0	0.0
16248	65.400	65.000	-0.110	0.0	0.0	0.0
16272	65.400	65.000	-0.110	0.0	0.0	0.0
16296	65.400	65.000	-0.110	0.0	0.0	0.0
16320	65.400	65.000	-0.110	0.0	0.0	0.0
16344	65.400	65.000	-0.110	0.0	0.0	0.0
16368	65.400	65.000	-0.110	0.0	0.0	0.0
16392	65.400	65.000	-0.110	0.0	0.0	0.0
16416	65.400	65.000	-0.110	0.0	0.0	0.0
16440	65.400	65.000	-0.110	0.0	0.0	0.0
16464	65.400	65.000	-0.110	0.0	0.0	0.0
16488	65.400	65.000	-0.110	0.0	0.0	0.0
16512	65.400	65.000	-0.110	0.0	0.0	0.0
16536	65.400	65.000	-0.110	0.0	0.0	0.0
16560	65.400	65.000	-0.110	0.0	0.0	0.0
16584	65.400	65.000	-0.110	0.0	0.0	0.0
16608	65.400	65.000	-0.110	0.0	0.0	0.0
16632	65.400	65.000	-0.110	0.0	0.0	0.0
16656	65.400	65.000	-0.110	0.0	0.0	0.0
16680	65.400	65.000	-0.110	0.0	0.0	0.0
16704	65.400	65.000	-0.110	0.0	0.0	0.0
16728	65.400	65.000	-0.110	0.0	0.0	0.0
16752	65.400	65.000	-0.110	0.0	0.0	0.0
16776	65.400	65.000	-0.110	0.0	0.0	0.0
16800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	65.000	-0.110	0.0	0.0	0.0
16848	65.400	65.000	-0.110	0.0	0.0	0.0
16872	65.400	65.000	-0.110	0.0	0.0	0.0
16896	65.400	65.000	-0.110	0.0	0.0	0.0
16920	65.400	65.000	-0.110	0.0	0.0	0.0
16944	65.400	65.000	-0.110	0.0	0.0	0.0
16968	65.400	65.000	-0.110	0.0	0.0	0.0
16992	65.400	65.000	-0.110	0.0	0.0	0.0
17016	65.400	65.000	-0.110	0.0	0.0	0.0
17040	65.400	65.000	-0.110	0.0	0.0	0.0
17064	65.400	65.000	-0.110	0.0	0.0	0.0
17088	65.400	65.000	-0.110	0.0	0.0	0.0
17112	65.400	65.000	-0.110	0.0	0.0	0.0
17136	65.400	65.000	-0.110	0.0	0.0	0.0
17160	65.400	65.000	-0.110	0.0	0.0	0.0
17184	65.400	65.000	-0.110	0.0	0.0	0.0
17208	65.400	65.000	-0.110	0.0	0.0	0.0
17232	65.400	65.000	-0.110	0.0	0.0	0.0
17256	65.400	65.000	-0.110	0.0	0.0	0.0
17280	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
72	65.000	63.444	-0.110	0.0	0.0	0.0
96	65.000	63.444	-0.110	0.0	0.0	0.0
120	65.000	63.444	-0.110	0.0	0.0	0.0
144	65.000	63.444	-0.110	0.0	0.0	0.0
168	65.000	63.444	-0.110	0.0	0.0	0.0
192	65.000	63.444	-0.110	0.0	0.0	0.0
216	65.000	63.444	-0.110	0.0	0.0	0.0
240	65.000	63.444	-0.110	0.0	0.0	0.0
264	65.000	63.444	-0.110	0.0	0.0	0.0
288	65.000	63.444	-0.110	0.0	0.0	0.0
312	65.000	63.444	-0.110	0.0	0.0	0.0
336	65.000	63.444	-0.110	0.0	0.0	0.0
360	65.000	63.444	-0.110	0.0	0.0	0.0
384	65.000	63.444	-0.110	0.0	0.0	0.0
408	65.000	63.444	-0.110	0.0	0.0	0.0
432	65.000	63.444	-0.110	0.0	0.0	0.0
456	65.000	63.445	-0.110	0.0	0.0	0.0
480	65.000	63.445	-0.110	0.0	0.0	0.0
504	65.000	63.445	-0.110	0.0	0.0	0.0
528	65.000	63.445	-0.110	0.0	0.0	0.0
552	65.000	63.445	-0.110	0.0	0.0	0.0
576	65.000	63.445	-0.110	0.0	0.0	0.0
600	65.000	63.445	-0.110	0.0	0.0	0.0
624	65.000	63.445	-0.110	0.0	0.0	0.0
648	65.000	63.445	-0.110	0.0	0.0	0.0
672	65.000	63.445	-0.110	0.0	0.0	0.0
696	65.000	63.445	-0.110	0.0	0.0	0.0
720	65.000	63.445	-0.110	0.0	0.0	0.0
744	65.000	63.445	-0.110	0.0	0.0	0.0
768	65.000	63.445	-0.110	0.0	0.0	0.0
792	65.000	63.445	-0.110	0.0	0.0	0.0
816	65.000	63.445	-0.110	0.0	0.0	0.0
840	65.000	63.445	-0.110	0.0	0.0	0.0
864	65.000	63.445	-0.110	0.0	0.0	0.0
888	65.000	63.445	-0.110	0.0	0.0	0.0
912	65.000	63.445	-0.110	0.0	0.0	0.0
936	65.000	63.445	-0.110	0.0	0.0	0.0
960	65.000	63.445	-0.110	0.0	0.0	0.0
984	65.000	63.445	-0.110	0.0	0.0	0.0
1008	65.000	63.445	-0.110	0.0	0.0	0.0
1032	65.000	63.445	-0.110	0.0	0.0	0.0
1056	65.000	63.445	-0.110	0.0	0.0	0.0
1080	65.000	63.445	-0.110	0.0	0.0	0.0
1104	65.000	63.445	-0.110	0.0	0.0	0.0
1128	65.000	63.445	-0.110	0.0	0.0	0.0
1152	65.000	63.445	-0.110	0.0	0.0	0.0
1176	65.000	63.445	-0.110	0.0	0.0	0.0
1200	65.000	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.445	-0.110	0.0	0.0	0.0
1248	65.000	63.445	-0.110	0.0	0.0	0.0
1272	65.000	63.445	-0.110	0.0	0.0	0.0
1296	65.000	63.445	-0.110	0.0	0.0	0.0
1320	65.000	63.445	-0.110	0.0	0.0	0.0
1344	65.000	63.445	-0.110	0.0	0.0	0.0
1368	65.000	63.445	-0.110	0.0	0.0	0.0
1392	65.000	63.445	-0.110	0.0	0.0	0.0
1416	65.000	63.445	-0.110	0.0	0.0	0.0
1440	65.000	63.445	-0.110	0.0	0.0	0.0
1464	65.000	63.445	-0.110	0.0	0.0	0.0
1488	65.000	63.445	-0.110	0.0	0.0	0.0
1512	65.000	63.445	-0.110	0.0	0.0	0.0
1536	65.000	63.445	-0.110	0.0	0.0	0.0
1560	65.000	63.445	-0.110	0.0	0.0	0.0
1584	65.000	63.446	-0.110	0.0	0.0	0.0
1608	65.000	63.446	-0.110	0.0	0.0	0.0
1632	65.000	63.446	-0.110	0.0	0.0	0.0
1656	65.000	63.446	-0.110	0.0	0.1	0.0
1680	65.000	63.446	-0.110	0.0	0.1	0.0
1704	65.000	63.446	-0.110	0.0	0.1	0.0
1728	65.000	63.446	-0.110	0.0	0.1	0.0
1752	65.000	63.446	-0.110	0.0	0.1	0.0
1776	65.000	63.446	-0.110	0.0	0.1	0.0
1800	65.000	63.446	-0.110	0.0	0.1	0.0
1824	65.000	63.446	-0.110	0.0	0.1	0.0
1848	65.000	63.446	-0.110	0.0	0.1	0.0
1872	65.000	63.446	-0.110	0.0	0.1	0.0
1896	65.000	63.446	-0.110	0.0	0.1	0.0
1920	65.000	63.446	-0.110	0.0	0.1	0.0
1944	65.000	63.446	-0.110	0.0	0.1	0.0
1968	65.000	63.446	-0.110	0.0	0.1	0.0
1992	65.000	63.446	-0.110	0.0	0.1	0.0
2016	65.000	63.446	-0.110	0.0	0.1	0.0
2040	65.000	63.447	-0.110	0.0	0.1	0.0
2064	65.000	63.447	-0.110	0.0	0.1	0.0
2088	65.000	63.447	-0.110	0.0	0.1	0.0
2112	65.000	63.447	-0.110	0.0	0.1	0.0
2136	65.000	63.447	-0.110	0.0	0.1	0.0
2160	65.000	63.447	-0.110	0.0	0.1	0.0
2184	65.000	63.447	-0.110	0.0	0.1	0.0
2208	65.000	63.447	-0.110	0.0	0.1	0.0
2232	65.000	63.447	-0.110	0.0	0.1	0.0
2256	65.000	63.447	-0.110	0.0	0.1	0.0
2280	65.000	63.447	-0.110	0.0	0.1	0.0
2304	65.000	63.447	-0.110	0.0	0.1	0.0
2328	65.000	63.447	-0.110	0.0	0.1	0.0
2352	65.000	63.447	-0.110	0.0	0.1	0.0
2376	65.000	63.447	-0.110	0.0	0.1	0.0
2400	65.000	63.447	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.447	-0.110	0.0	0.1	0.0
2448	65.000	63.448	-0.110	0.0	0.1	0.0
2472	65.000	63.448	-0.110	0.0	0.1	0.0
2496	65.000	63.448	-0.110	0.0	0.1	0.0
2520	65.000	63.448	-0.110	0.0	0.1	0.0
2544	65.000	63.448	-0.110	0.0	0.1	0.0
2568	65.000	63.448	-0.110	0.0	0.1	0.0
2592	65.000	63.448	-0.110	0.0	0.1	0.0
2616	65.001	63.448	-0.109	0.0	0.1	0.0
2640	65.001	63.448	-0.109	0.0	0.1	0.0
2664	65.001	63.448	-0.109	0.0	0.1	0.0
2688	65.001	63.448	-0.109	0.0	0.1	0.0
2712	65.001	63.449	-0.109	0.0	0.1	0.0
2736	65.001	63.449	-0.109	0.0	0.1	0.0
2760	65.001	63.449	-0.109	0.0	0.1	0.0
2784	65.001	63.449	-0.109	0.0	0.1	0.0
2808	65.001	63.449	-0.109	0.0	0.1	0.0
2832	65.001	63.449	-0.109	0.0	0.1	0.0
2856	65.001	63.449	-0.109	0.0	0.1	0.0
2880	65.001	63.449	-0.109	0.0	0.1	0.0
2904	65.001	63.449	-0.109	0.0	0.1	0.0
2928	65.001	63.449	-0.109	0.0	0.1	0.0
2952	65.001	63.450	-0.109	0.0	0.2	0.0
2976	65.001	63.450	-0.109	0.0	0.2	0.0
3000	65.001	63.450	-0.109	0.0	0.2	0.0
3024	65.001	63.450	-0.109	0.0	0.2	0.0
3048	65.001	63.450	-0.109	0.0	0.2	0.0
3072	65.001	63.450	-0.109	0.0	0.2	0.0
3096	65.001	63.450	-0.109	0.0	0.2	0.0
3120	65.001	63.450	-0.109	0.0	0.2	0.0
3144	65.001	63.451	-0.109	0.0	0.2	0.0
3168	65.001	63.451	-0.109	0.0	0.2	0.0
3192	65.001	63.451	-0.109	0.0	0.2	0.0
3216	65.001	63.451	-0.109	0.0	0.2	0.0
3240	65.001	63.451	-0.109	0.0	0.2	0.0
3264	65.001	63.451	-0.109	0.0	0.2	0.0
3288	65.001	63.451	-0.109	0.0	0.2	0.0
3312	65.001	63.451	-0.109	0.0	0.2	0.1
3336	65.001	63.451	-0.109	0.0	0.2	0.1
3360	65.001	63.451	-0.109	0.0	0.2	0.1
3384	65.001	63.452	-0.109	0.0	0.2	0.1
3408	65.001	63.452	-0.109	0.0	0.2	0.1
3432	65.001	63.452	-0.109	0.0	0.2	0.1
3456	65.001	63.452	-0.109	0.0	0.2	0.1
3480	65.001	63.452	-0.109	0.0	0.2	0.1
3504	65.001	63.452	-0.109	0.0	0.2	0.1
3528	65.001	63.452	-0.109	0.0	0.2	0.1
3552	65.001	63.453	-0.109	0.0	0.2	0.1
3576	65.001	63.453	-0.109	0.0	0.2	0.1
3600	65.001	63.453	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.001	63.453	-0.109	0.0	0.2	0.1
3648	65.001	63.453	-0.109	0.0	0.3	0.1
3672	65.001	63.453	-0.109	0.0	0.3	0.1
3696	65.001	63.453	-0.109	0.0	0.3	0.1
3720	65.001	63.453	-0.109	0.0	0.3	0.1
3744	65.001	63.454	-0.109	0.0	0.3	0.1
3768	65.001	63.454	-0.109	0.0	0.3	0.1
3792	65.001	63.454	-0.109	0.0	0.3	0.1
3816	65.001	63.454	-0.109	0.0	0.3	0.1
3840	65.001	63.454	-0.109	0.0	0.3	0.1
3864	65.001	63.454	-0.109	0.0	0.3	0.1
3888	65.001	63.454	-0.109	0.0	0.3	0.1
3912	65.001	63.454	-0.109	0.0	0.3	0.1
3936	65.001	63.454	-0.109	0.0	0.3	0.1
3960	65.001	63.454	-0.109	0.0	0.3	0.1
3984	65.001	63.454	-0.109	0.0	0.3	0.1
4008	65.001	63.455	-0.109	0.0	0.3	0.1
4032	65.001	63.455	-0.109	0.0	0.3	0.1
4056	65.001	63.455	-0.109	0.0	0.3	0.1
4080	65.001	63.455	-0.109	0.0	0.3	0.1
4104	65.001	63.455	-0.109	0.0	0.3	0.1
4128	65.001	63.455	-0.109	0.0	0.3	0.1
4152	65.001	63.455	-0.109	0.0	0.3	0.1
4176	65.001	63.455	-0.109	0.0	0.3	0.1
4200	65.001	63.455	-0.109	0.0	0.3	0.1
4224	65.001	63.455	-0.109	0.0	0.3	0.1
4248	65.001	63.455	-0.109	0.0	0.3	0.1
4272	65.001	63.455	-0.109	0.0	0.3	0.1
4296	65.001	63.455	-0.109	0.0	0.3	0.1
4320	65.001	63.455	-0.109	0.0	0.3	0.1
4344	65.001	63.455	-0.109	0.0	0.3	0.1
4368	65.001	63.455	-0.109	0.0	0.3	0.1
4392	65.001	63.455	-0.109	0.0	0.3	0.1
4416	65.001	63.455	-0.109	0.0	0.3	0.1
4440	65.001	63.455	-0.109	0.0	0.3	0.1
4464	65.001	63.455	-0.109	0.0	0.3	0.1
4488	65.001	63.455	-0.109	0.0	0.3	0.1
4512	65.001	63.455	-0.109	0.0	0.3	0.1
4536	65.001	63.455	-0.109	0.0	0.3	0.1
4560	65.001	63.455	-0.109	0.0	0.3	0.1
4584	65.001	63.455	-0.109	0.0	0.3	0.1
4608	65.001	63.455	-0.109	0.0	0.3	0.1
4632	65.001	63.455	-0.109	0.0	0.3	0.1
4656	65.001	63.455	-0.109	0.0	0.3	0.1
4680	65.001	63.454	-0.109	0.0	0.3	0.1
4704	65.001	63.454	-0.109	0.0	0.3	0.1
4728	65.001	63.454	-0.109	0.0	0.3	0.1
4752	65.001	63.454	-0.109	0.0	0.3	0.1
4776	65.001	63.455	-0.109	0.0	0.3	0.1
4800	65.001	63.455	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.001	63.456	-0.109	0.0	0.3	0.1
4848	65.001	63.456	-0.109	0.0	0.3	0.1
4872	65.001	63.457	-0.109	0.0	0.3	0.1
4896	65.001	63.458	-0.109	0.0	0.3	0.1
4920	65.001	63.460	-0.109	0.0	0.3	0.1
4944	65.001	63.461	-0.109	0.0	0.3	0.1
4968	65.001	63.463	-0.109	0.0	0.3	0.1
4992	65.001	63.465	-0.109	0.0	0.3	0.1
5016	65.001	63.466	-0.109	0.0	0.3	0.1
5040	65.001	63.468	-0.109	0.0	0.2	0.1
5064	65.001	63.469	-0.109	0.0	0.2	0.1
5088	65.001	63.471	-0.109	0.0	0.2	0.1
5112	65.001	63.472	-0.109	0.0	0.2	0.1
5136	65.001	63.474	-0.109	0.0	0.2	0.1
5160	65.001	63.475	-0.109	0.0	0.2	0.1
5184	65.001	63.476	-0.109	0.0	0.2	0.1
5208	65.001	63.478	-0.109	0.0	0.2	0.1
5232	65.001	63.479	-0.109	0.0	0.2	0.1
5256	65.001	63.480	-0.109	0.0	0.2	0.1
5280	65.001	63.481	-0.109	0.0	0.2	0.1
5304	65.001	63.482	-0.109	0.0	0.2	0.1
5328	65.001	63.483	-0.109	0.0	0.2	0.1
5352	65.001	63.484	-0.109	0.0	0.2	0.1
5376	65.001	63.484	-0.109	0.0	0.2	0.0
5400	65.001	63.485	-0.109	0.0	0.2	0.0
5424	65.001	63.485	-0.109	0.0	0.2	0.0
5448	65.001	63.486	-0.109	0.0	0.2	0.0
5472	65.001	63.486	-0.109	0.0	0.2	0.0
5496	65.001	63.487	-0.109	0.0	0.2	0.0
5520	65.001	63.487	-0.109	0.0	0.2	0.0
5544	65.001	63.487	-0.109	0.0	0.2	0.0
5568	65.001	63.488	-0.109	0.0	0.2	0.0
5592	65.001	63.488	-0.109	0.0	0.2	0.0
5616	65.001	63.488	-0.109	0.0	0.2	0.0
5640	65.001	63.488	-0.109	0.0	0.2	0.0
5664	65.001	63.488	-0.109	0.0	0.2	0.0
5688	65.001	63.487	-0.109	0.0	0.2	0.0
5712	65.001	63.487	-0.109	0.0	0.2	0.0
5736	65.001	63.487	-0.109	0.0	0.2	0.0
5760	65.001	63.487	-0.109	0.0	0.1	0.0
5784	65.001	63.486	-0.109	0.0	0.1	0.0
5808	65.001	63.486	-0.109	0.0	0.1	0.0
5832	65.001	63.485	-0.109	0.0	0.1	0.0
5856	65.001	63.485	-0.109	0.0	0.1	0.0
5880	65.001	63.484	-0.109	0.0	0.1	0.0
5904	65.001	63.483	-0.109	0.0	0.1	0.0
5928	65.001	63.483	-0.109	0.0	0.1	0.0
5952	65.001	63.482	-0.109	0.0	0.1	0.0
5976	65.001	63.481	-0.109	0.0	0.1	0.0
6000	65.001	63.480	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.001	63.479	-0.109	0.0	0.1	0.0
6048	65.001	63.478	-0.109	0.0	0.1	0.0
6072	65.000	63.477	-0.110	0.0	0.1	0.0
6096	65.000	63.476	-0.110	0.0	0.1	0.0
6120	65.000	63.475	-0.110	0.0	0.1	0.0
6144	65.000	63.474	-0.110	0.0	0.1	0.0
6168	65.000	63.472	-0.110	0.0	0.1	0.0
6192	65.000	63.471	-0.110	0.0	0.1	0.0
6216	65.000	63.470	-0.110	0.0	0.1	0.0
6240	65.000	63.468	-0.110	0.0	0.1	0.0
6264	65.000	63.467	-0.110	0.0	0.1	0.0
6288	65.000	63.465	-0.110	0.0	0.1	0.0
6312	65.000	63.464	-0.110	0.0	0.1	0.0
6336	65.000	63.462	-0.110	0.0	0.1	0.0
6360	65.000	63.461	-0.110	0.0	0.1	0.0
6384	65.000	63.460	-0.110	0.0	0.1	0.0
6408	65.000	63.458	-0.110	0.0	0.1	0.0
6432	65.000	63.456	-0.110	0.0	0.1	0.0
6456	65.000	63.455	-0.110	0.0	0.1	0.0
6480	65.000	63.454	-0.110	0.0	0.1	0.0
6504	65.000	63.452	-0.110	0.0	0.1	0.0
6528	65.000	63.451	-0.110	0.0	0.1	0.0
6552	65.000	63.450	-0.110	0.0	0.1	0.0
6576	65.000	63.449	-0.110	0.0	0.1	0.0
6600	65.000	63.448	-0.110	0.0	0.1	0.0
6624	65.000	63.448	-0.110	0.0	0.1	0.0
6648	65.000	63.447	-0.110	0.0	0.1	0.0
6672	65.000	63.447	-0.110	0.0	0.1	0.0
6696	65.000	63.447	-0.110	0.0	0.1	0.0
6720	65.000	63.446	-0.110	0.0	0.1	0.0
6744	65.000	63.446	-0.110	0.0	0.1	0.0
6768	65.000	63.446	-0.110	0.0	0.1	0.0
6792	65.000	63.446	-0.110	0.0	0.1	0.0
6816	65.000	63.446	-0.110	0.0	0.1	0.0
6840	65.000	63.446	-0.110	0.0	0.1	0.0
6864	65.000	63.446	-0.110	0.0	0.1	0.0
6888	65.000	63.446	-0.110	0.0	0.1	0.0
6912	65.000	63.446	-0.110	0.0	0.1	0.0
6936	65.000	63.446	-0.110	0.0	0.1	0.0
6960	65.000	63.446	-0.110	0.0	0.1	0.0
6984	65.000	63.446	-0.110	0.0	0.1	0.0
7008	65.000	63.446	-0.110	0.0	0.1	0.0
7032	65.000	63.446	-0.110	0.0	0.1	0.0
7056	65.000	63.446	-0.110	0.0	0.1	0.0
7080	65.000	63.446	-0.110	0.0	0.1	0.0
7104	65.000	63.446	-0.110	0.0	0.1	0.0
7128	65.000	63.446	-0.110	0.0	0.1	0.0
7152	65.000	63.446	-0.110	0.0	0.1	0.0
7176	65.000	63.446	-0.110	0.0	0.1	0.0
7200	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.446	-0.110	0.0	0.1	0.0
7248	65.000	63.446	-0.110	0.0	0.1	0.0
7272	65.000	63.446	-0.110	0.0	0.1	0.0
7296	65.000	63.446	-0.110	0.0	0.1	0.0
7320	65.000	63.446	-0.110	0.0	0.1	0.0
7344	65.000	63.446	-0.110	0.0	0.1	0.0
7368	65.000	63.446	-0.110	0.0	0.1	0.0
7392	65.000	63.446	-0.110	0.0	0.1	0.0
7416	65.000	63.446	-0.110	0.0	0.1	0.0
7440	65.000	63.446	-0.110	0.0	0.1	0.0
7464	65.000	63.446	-0.110	0.0	0.1	0.0
7488	65.000	63.446	-0.110	0.0	0.1	0.0
7512	65.000	63.446	-0.110	0.0	0.1	0.0
7536	65.000	63.446	-0.110	0.0	0.1	0.0
7560	65.000	63.446	-0.110	0.0	0.1	0.0
7584	65.000	63.446	-0.110	0.0	0.1	0.0
7608	65.000	63.446	-0.110	0.0	0.1	0.0
7632	65.000	63.446	-0.110	0.0	0.1	0.0
7656	65.000	63.446	-0.110	0.0	0.1	0.0
7680	65.000	63.446	-0.110	0.0	0.1	0.0
7704	65.000	63.446	-0.110	0.0	0.1	0.0
7728	65.000	63.446	-0.110	0.0	0.1	0.0
7752	65.000	63.446	-0.110	0.0	0.1	0.0
7776	65.000	63.446	-0.110	0.0	0.1	0.0
7800	65.000	63.446	-0.110	0.0	0.1	0.0
7824	65.000	63.446	-0.110	0.0	0.1	0.0
7848	65.000	63.446	-0.110	0.0	0.1	0.0
7872	65.000	63.446	-0.110	0.0	0.1	0.0
7896	65.000	63.446	-0.110	0.0	0.1	0.0
7920	65.000	63.446	-0.110	0.0	0.1	0.0
7944	65.000	63.446	-0.110	0.0	0.1	0.0
7968	65.000	63.446	-0.110	0.0	0.1	0.0
7992	65.000	63.446	-0.110	0.0	0.1	0.0
8016	65.000	63.446	-0.110	0.0	0.1	0.0
8040	65.000	63.446	-0.110	0.0	0.1	0.0
8064	65.000	63.446	-0.110	0.0	0.0	0.0
8088	65.000	63.446	-0.110	0.0	0.0	0.0
8112	65.000	63.446	-0.110	0.0	0.0	0.0
8136	65.000	63.446	-0.110	0.0	0.0	0.0
8160	65.000	63.446	-0.110	0.0	0.0	0.0
8184	65.000	63.446	-0.110	0.0	0.0	0.0
8208	65.000	63.446	-0.110	0.0	0.0	0.0
8232	65.000	63.446	-0.110	0.0	0.0	0.0
8256	65.000	63.446	-0.110	0.0	0.0	0.0
8280	65.000	63.446	-0.110	0.0	0.0	0.0
8304	65.000	63.445	-0.110	0.0	0.0	0.0
8328	65.000	63.445	-0.110	0.0	0.0	0.0
8352	65.000	63.445	-0.110	0.0	0.0	0.0
8376	65.000	63.445	-0.110	0.0	0.0	0.0
8400	65.000	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.445	-0.110	0.0	0.0	0.0
8448	65.000	63.445	-0.110	0.0	0.0	0.0
8472	65.000	63.445	-0.110	0.0	0.0	0.0
8496	65.000	63.445	-0.110	0.0	0.0	0.0
8520	65.000	63.445	-0.110	0.0	0.0	0.0
8544	65.000	63.445	-0.110	0.0	0.0	0.0
8568	65.000	63.444	-0.110	0.0	0.0	0.0
8592	65.000	63.444	-0.110	0.0	0.0	0.0
8616	65.000	63.444	-0.110	0.0	0.0	0.0
8640	65.000	63.444	-0.110	0.0	0.0	0.0
8664	65.000	63.444	-0.110	0.0	0.0	0.0
8688	65.000	63.444	-0.110	0.0	0.0	0.0
8712	65.000	63.444	-0.110	0.0	0.0	0.0
8736	65.000	63.444	-0.110	0.0	0.0	0.0
8760	65.000	63.444	-0.110	0.0	0.0	0.0
8784	65.000	63.444	-0.110	0.0	0.0	0.0
8808	65.000	63.444	-0.110	0.0	0.0	0.0
8832	65.000	63.444	-0.110	0.0	0.0	0.0
8856	65.000	63.444	-0.110	0.0	0.0	0.0
8880	65.000	63.444	-0.110	0.0	0.0	0.0
8904	65.000	63.444	-0.110	0.0	0.0	0.0
8928	65.000	63.444	-0.110	0.0	0.0	0.0
8952	65.000	63.444	-0.110	0.0	0.0	0.0
8976	65.000	63.444	-0.110	0.0	0.0	0.0
9000	65.000	63.444	-0.110	0.0	0.0	0.0
9024	65.000	63.444	-0.110	0.0	0.0	0.0
9048	65.000	63.444	-0.110	0.0	0.0	0.0
9072	65.000	63.444	-0.110	0.0	0.0	0.0
9096	65.000	63.444	-0.110	0.0	0.0	0.0
9120	65.000	63.444	-0.110	0.0	0.0	0.0
9144	65.000	63.444	-0.110	0.0	0.0	0.0
9168	65.000	63.444	-0.110	0.0	0.0	0.0
9192	65.000	63.444	-0.110	0.0	0.0	0.0
9216	65.000	63.444	-0.110	0.0	0.0	0.0
9240	65.000	63.444	-0.110	0.0	0.0	0.0
9264	65.000	63.444	-0.110	0.0	0.0	0.0
9288	65.000	63.444	-0.110	0.0	0.0	0.0
9312	65.000	63.444	-0.110	0.0	0.0	0.0
9336	65.000	63.444	-0.110	0.0	0.0	0.0
9360	65.000	63.444	-0.110	0.0	0.0	0.0
9384	65.000	63.444	-0.110	0.0	0.0	0.0
9408	65.000	63.444	-0.110	0.0	0.0	0.0
9432	65.000	63.444	-0.110	0.0	0.0	0.0
9456	65.000	63.444	-0.110	0.0	0.0	0.0
9480	65.000	63.444	-0.110	0.0	0.0	0.0
9504	65.000	63.444	-0.110	0.0	0.0	0.0
9528	65.000	63.444	-0.110	0.0	0.0	0.0
9552	65.000	63.444	-0.110	0.0	0.0	0.0
9576	65.000	63.444	-0.110	0.0	0.0	0.0
9600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.444	-0.110	0.0	0.0	0.0
9648	65.000	63.444	-0.110	0.0	0.0	0.0
9672	65.000	63.444	-0.110	0.0	0.0	0.0
9696	65.000	63.444	-0.110	0.0	0.0	0.0
9720	65.000	63.444	-0.110	0.0	0.0	0.0
9744	65.000	63.444	-0.110	0.0	0.0	0.0
9768	65.000	63.444	-0.110	0.0	0.0	0.0
9792	65.000	63.444	-0.110	0.0	0.0	0.0
9816	65.000	63.444	-0.110	0.0	0.0	0.0
9840	65.000	63.444	-0.110	0.0	0.0	0.0
9864	65.000	63.444	-0.110	0.0	0.0	0.0
9888	65.000	63.444	-0.110	0.0	0.0	0.0
9912	65.000	63.444	-0.110	0.0	0.0	0.0
9936	65.000	63.444	-0.110	0.0	0.0	0.0
9960	65.000	63.444	-0.110	0.0	0.0	0.0
9984	65.000	63.444	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.000	63.444	-0.110	0.0	0.0	0.0
14448	65.000	63.444	-0.110	0.0	0.0	0.0
14472	65.000	63.444	-0.110	0.0	0.0	0.0
14496	65.000	63.444	-0.110	0.0	0.0	0.0
14520	65.000	63.444	-0.110	0.0	0.0	0.0
14544	65.000	63.444	-0.110	0.0	0.0	0.0
14568	65.000	63.444	-0.110	0.0	0.0	0.0
14592	65.000	63.444	-0.110	0.0	0.0	0.0
14616	65.000	63.444	-0.110	0.0	0.0	0.0
14640	65.000	63.444	-0.110	0.0	0.0	0.0
14664	65.000	63.444	-0.110	0.0	0.0	0.0
14688	65.000	63.444	-0.110	0.0	0.0	0.0
14712	65.000	63.444	-0.110	0.0	0.0	0.0
14736	65.000	63.444	-0.110	0.0	0.0	0.0
14760	65.000	63.444	-0.110	0.0	0.0	0.0
14784	65.000	63.444	-0.110	0.0	0.0	0.0
14808	65.000	63.444	-0.110	0.0	0.0	0.0
14832	65.000	63.444	-0.110	0.0	0.0	0.0
14856	65.000	63.444	-0.110	0.0	0.0	0.0
14880	65.000	63.444	-0.110	0.0	0.0	0.0
14904	65.000	63.444	-0.110	0.0	0.0	0.0
14928	65.000	63.444	-0.110	0.0	0.0	0.0
14952	65.000	63.444	-0.110	0.0	0.0	0.0
14976	65.000	63.444	-0.110	0.0	0.0	0.0
15000	65.000	63.444	-0.110	0.0	0.0	0.0
15024	65.000	63.444	-0.110	0.0	0.0	0.0
15048	65.000	63.444	-0.110	0.0	0.0	0.0
15072	65.000	63.444	-0.110	0.0	0.0	0.0
15096	65.000	63.444	-0.110	0.0	0.0	0.0
15120	65.000	63.444	-0.110	0.0	0.0	0.0
15144	65.000	63.444	-0.110	0.0	0.0	0.0
15168	65.000	63.444	-0.110	0.0	0.0	0.0
15192	65.000	63.444	-0.110	0.0	0.0	0.0
15216	65.000	63.444	-0.110	0.0	0.0	0.0
15240	65.000	63.444	-0.110	0.0	0.0	0.0
15264	65.000	63.444	-0.110	0.0	0.0	0.0
15288	65.000	63.444	-0.110	0.0	0.0	0.0
15312	65.000	63.444	-0.110	0.0	0.0	0.0
15336	65.000	63.444	-0.110	0.0	0.0	0.0
15360	65.000	63.444	-0.110	0.0	0.0	0.0
15384	65.000	63.444	-0.110	0.0	0.0	0.0
15408	65.000	63.444	-0.110	0.0	0.0	0.0
15432	65.000	63.444	-0.110	0.0	0.0	0.0
15456	65.000	63.444	-0.110	0.0	0.0	0.0
15480	65.000	63.444	-0.110	0.0	0.0	0.0
15504	65.000	63.444	-0.110	0.0	0.0	0.0
15528	65.000	63.444	-0.110	0.0	0.0	0.0
15552	65.000	63.444	-0.110	0.0	0.0	0.0
15576	65.000	63.444	-0.110	0.0	0.0	0.0
15600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.000	63.444	-0.110	0.0	0.0	0.0
15648	65.000	63.444	-0.110	0.0	0.0	0.0
15672	65.000	63.444	-0.110	0.0	0.0	0.0
15696	65.000	63.444	-0.110	0.0	0.0	0.0
15720	65.000	63.444	-0.110	0.0	0.0	0.0
15744	65.000	63.444	-0.110	0.0	0.0	0.0
15768	65.000	63.444	-0.110	0.0	0.0	0.0
15792	65.000	63.444	-0.110	0.0	0.0	0.0
15816	65.000	63.444	-0.110	0.0	0.0	0.0
15840	65.000	63.444	-0.110	0.0	0.0	0.0
15864	65.000	63.444	-0.110	0.0	0.0	0.0
15888	65.000	63.444	-0.110	0.0	0.0	0.0
15912	65.000	63.444	-0.110	0.0	0.0	0.0
15936	65.000	63.444	-0.110	0.0	0.0	0.0
15960	65.000	63.444	-0.110	0.0	0.0	0.0
15984	65.000	63.444	-0.110	0.0	0.0	0.0
16008	65.000	63.444	-0.110	0.0	0.0	0.0
16032	65.000	63.444	-0.110	0.0	0.0	0.0
16056	65.000	63.444	-0.110	0.0	0.0	0.0
16080	65.000	63.444	-0.110	0.0	0.0	0.0
16104	65.000	63.444	-0.110	0.0	0.0	0.0
16128	65.000	63.444	-0.110	0.0	0.0	0.0
16152	65.000	63.444	-0.110	0.0	0.0	0.0
16176	65.000	63.444	-0.110	0.0	0.0	0.0
16200	65.000	63.444	-0.110	0.0	0.0	0.0
16224	65.000	63.444	-0.110	0.0	0.0	0.0
16248	65.000	63.444	-0.110	0.0	0.0	0.0
16272	65.000	63.444	-0.110	0.0	0.0	0.0
16296	65.000	63.444	-0.110	0.0	0.0	0.0
16320	65.000	63.444	-0.110	0.0	0.0	0.0
16344	65.000	63.444	-0.110	0.0	0.0	0.0
16368	65.000	63.444	-0.110	0.0	0.0	0.0
16392	65.000	63.444	-0.110	0.0	0.0	0.0
16416	65.000	63.444	-0.110	0.0	0.0	0.0
16440	65.000	63.444	-0.110	0.0	0.0	0.0
16464	65.000	63.444	-0.110	0.0	0.0	0.0
16488	65.000	63.444	-0.110	0.0	0.0	0.0
16512	65.000	63.444	-0.110	0.0	0.0	0.0
16536	65.000	63.444	-0.110	0.0	0.0	0.0
16560	65.000	63.444	-0.110	0.0	0.0	0.0
16584	65.000	63.444	-0.110	0.0	0.0	0.0
16608	65.000	63.444	-0.110	0.0	0.0	0.0
16632	65.000	63.444	-0.110	0.0	0.0	0.0
16656	65.000	63.444	-0.110	0.0	0.0	0.0
16680	65.000	63.444	-0.110	0.0	0.0	0.0
16704	65.000	63.444	-0.110	0.0	0.0	0.0
16728	65.000	63.444	-0.110	0.0	0.0	0.0
16752	65.000	63.444	-0.110	0.0	0.0	0.0
16776	65.000	63.444	-0.110	0.0	0.0	0.0
16800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.000	63.444	-0.110	0.0	0.0	0.0
16848	65.000	63.444	-0.110	0.0	0.0	0.0
16872	65.000	63.444	-0.110	0.0	0.0	0.0
16896	65.000	63.444	-0.110	0.0	0.0	0.0
16920	65.000	63.444	-0.110	0.0	0.0	0.0
16944	65.000	63.444	-0.110	0.0	0.0	0.0
16968	65.000	63.444	-0.110	0.0	0.0	0.0
16992	65.000	63.444	-0.110	0.0	0.0	0.0
17016	65.000	63.444	-0.110	0.0	0.0	0.0
17040	65.000	63.444	-0.110	0.0	0.0	0.0
17064	65.000	63.444	-0.110	0.0	0.0	0.0
17088	65.000	63.444	-0.110	0.0	0.0	0.0
17112	65.000	63.444	-0.110	0.0	0.0	0.0
17136	65.000	63.444	-0.110	0.0	0.0	0.0
17160	65.000	63.444	-0.110	0.0	0.0	0.0
17184	65.000	63.444	-0.110	0.0	0.0	0.0
17208	65.000	63.444	-0.110	0.0	0.0	0.0
17232	65.000	63.444	-0.110	0.0	0.0	0.0
17256	65.000	63.444	-0.110	0.0	0.0	0.0
17280	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.444	63.250	-0.110	0.0	0.0	0.0
72	63.444	63.250	-0.110	0.0	0.0	0.0
96	63.444	63.250	-0.110	0.0	0.0	0.0
120	63.444	63.250	-0.110	0.0	0.0	0.0
144	63.444	63.250	-0.110	0.0	0.0	0.0
168	63.444	63.250	-0.110	0.0	0.0	0.0
192	63.444	63.250	-0.110	0.0	0.0	0.0
216	63.444	63.250	-0.110	0.0	0.0	0.0
240	63.444	63.250	-0.110	0.0	0.0	0.0
264	63.444	63.251	-0.110	0.0	0.0	0.0
288	63.444	63.251	-0.110	0.0	0.0	0.0
312	63.444	63.251	-0.110	0.0	0.0	0.0
336	63.444	63.251	-0.110	0.0	0.0	0.0
360	63.444	63.251	-0.110	0.0	0.0	0.0
384	63.444	63.251	-0.110	0.0	0.0	0.0
408	63.444	63.252	-0.110	0.0	0.0	0.0
432	63.444	63.252	-0.110	0.0	0.0	0.0
456	63.445	63.252	-0.110	0.0	0.0	0.0
480	63.445	63.252	-0.110	0.0	0.0	0.0
504	63.445	63.252	-0.110	0.0	0.0	0.0
528	63.445	63.253	-0.110	0.0	0.0	0.0
552	63.445	63.253	-0.110	0.0	0.0	0.0
576	63.445	63.253	-0.110	0.0	0.0	0.0
600	63.445	63.253	-0.110	0.0	0.0	0.0
624	63.445	63.253	-0.110	0.0	0.0	0.0
648	63.445	63.254	-0.110	0.0	0.0	0.0
672	63.445	63.254	-0.110	0.0	0.0	0.0
696	63.445	63.254	-0.110	0.0	0.0	0.0
720	63.445	63.254	-0.110	0.0	0.0	0.0
744	63.445	63.254	-0.110	0.0	0.0	0.0
768	63.445	63.254	-0.110	0.0	0.0	0.0
792	63.445	63.254	-0.110	0.0	0.0	0.0
816	63.445	63.255	-0.110	0.0	0.0	0.0
840	63.445	63.255	-0.110	0.0	0.0	0.0
864	63.445	63.255	-0.110	0.0	0.0	0.0
888	63.445	63.255	-0.110	0.0	0.0	0.0
912	63.445	63.255	-0.110	0.0	0.0	0.0
936	63.445	63.255	-0.110	0.0	0.0	0.0
960	63.445	63.255	-0.110	0.0	0.0	0.0
984	63.445	63.255	-0.110	0.0	0.0	0.0
1008	63.445	63.255	-0.110	0.0	0.0	0.0
1032	63.445	63.255	-0.110	0.0	0.0	0.0
1056	63.445	63.255	-0.110	0.0	0.0	0.0
1080	63.445	63.255	-0.110	0.0	0.0	0.0
1104	63.445	63.255	-0.110	0.0	0.0	0.0
1128	63.445	63.256	-0.110	0.0	0.0	0.0
1152	63.445	63.256	-0.110	0.0	0.0	0.0
1176	63.445	63.256	-0.110	0.0	0.0	0.0
1200	63.445	63.256	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.445	63.256	-0.110	0.0	0.0	0.0
1248	63.445	63.256	-0.110	0.0	0.0	0.0
1272	63.445	63.256	-0.110	0.0	0.0	0.0
1296	63.445	63.256	-0.110	0.0	0.0	0.0
1320	63.445	63.256	-0.110	0.0	0.0	0.0
1344	63.445	63.256	-0.110	0.0	0.0	0.0
1368	63.445	63.256	-0.110	0.0	0.0	0.0
1392	63.445	63.256	-0.110	0.0	0.0	0.0
1416	63.445	63.256	-0.110	0.0	0.0	0.0
1440	63.445	63.256	-0.110	0.0	0.0	0.0
1464	63.445	63.256	-0.110	0.0	0.0	0.0
1488	63.445	63.256	-0.110	0.0	0.0	0.0
1512	63.445	63.256	-0.110	0.0	0.0	0.0
1536	63.445	63.256	-0.110	0.0	0.0	0.0
1560	63.445	63.256	-0.110	0.0	0.0	0.0
1584	63.446	63.256	-0.108	0.0	0.1	0.0
1608	63.446	63.257	-0.108	0.0	0.1	0.0
1632	63.446	63.257	-0.108	0.0	0.1	0.0
1656	63.446	63.258	-0.108	0.0	0.1	0.0
1680	63.446	63.258	-0.108	0.0	0.1	0.0
1704	63.446	63.258	-0.108	0.0	0.1	0.0
1728	63.446	63.259	-0.108	0.0	0.1	0.0
1752	63.446	63.259	-0.108	0.0	0.1	0.0
1776	63.446	63.259	-0.108	0.0	0.1	0.0
1800	63.446	63.260	-0.108	0.0	0.1	0.0
1824	63.446	63.260	-0.108	0.0	0.1	0.0
1848	63.446	63.260	-0.108	0.0	0.1	0.0
1872	63.446	63.260	-0.108	0.0	0.1	0.0
1896	63.446	63.260	-0.108	0.0	0.1	0.0
1920	63.446	63.260	-0.108	0.0	0.1	0.0
1944	63.446	63.260	-0.108	0.0	0.1	0.0
1968	63.446	63.261	-0.108	0.0	0.1	0.0
1992	63.446	63.261	-0.108	0.0	0.1	0.0
2016	63.446	63.261	-0.108	0.0	0.1	0.0
2040	63.447	63.262	-0.108	0.0	0.2	0.0
2064	63.447	63.262	-0.107	0.0	0.1	0.0
2088	63.447	63.262	-0.107	0.0	0.1	0.0
2112	63.447	63.263	-0.107	0.0	0.1	0.0
2136	63.447	63.263	-0.107	0.0	0.2	0.0
2160	63.447	63.263	-0.107	0.0	0.2	0.0
2184	63.447	63.264	-0.107	0.0	0.2	0.0
2208	63.447	63.264	-0.107	0.0	0.2	0.0
2232	63.447	63.264	-0.107	0.0	0.2	0.0
2256	63.447	63.265	-0.107	0.0	0.2	0.0
2280	63.447	63.265	-0.107	0.0	0.2	0.0
2304	63.447	63.265	-0.107	0.0	0.2	0.0
2328	63.447	63.265	-0.107	0.0	0.2	0.0
2352	63.447	63.266	-0.107	0.0	0.2	0.0
2376	63.447	63.266	-0.107	0.0	0.2	0.0
2400	63.447	63.266	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.447	63.266	-0.107	0.0	0.2	0.0
2448	63.448	63.267	-0.106	0.0	0.2	0.0
2472	63.448	63.267	-0.106	0.0	0.2	0.0
2496	63.448	63.267	-0.106	0.0	0.2	0.0
2520	63.448	63.267	-0.106	0.0	0.2	0.1
2544	63.448	63.268	-0.106	0.0	0.2	0.1
2568	63.448	63.268	-0.106	0.0	0.2	0.1
2592	63.448	63.268	-0.106	0.0	0.2	0.1
2616	63.448	63.268	-0.106	0.0	0.2	0.1
2640	63.448	63.269	-0.106	0.0	0.2	0.1
2664	63.448	63.269	-0.106	0.0	0.2	0.1
2688	63.448	63.269	-0.106	0.0	0.2	0.1
2712	63.449	63.269	-0.105	0.0	0.3	0.1
2736	63.449	63.270	-0.105	0.0	0.3	0.1
2760	63.449	63.270	-0.105	0.0	0.3	0.1
2784	63.449	63.270	-0.105	0.0	0.3	0.1
2808	63.449	63.271	-0.105	0.0	0.3	0.1
2832	63.449	63.271	-0.105	0.0	0.3	0.1
2856	63.449	63.271	-0.105	0.0	0.3	0.1
2880	63.449	63.272	-0.105	0.0	0.3	0.1
2904	63.449	63.272	-0.105	0.0	0.3	0.1
2928	63.449	63.272	-0.105	0.0	0.3	0.1
2952	63.450	63.272	-0.104	0.0	0.3	0.1
2976	63.450	63.273	-0.104	0.0	0.3	0.1
3000	63.450	63.273	-0.104	0.0	0.3	0.1
3024	63.450	63.273	-0.104	0.0	0.3	0.1
3048	63.450	63.274	-0.104	0.0	0.3	0.1
3072	63.450	63.274	-0.104	0.0	0.3	0.1
3096	63.450	63.275	-0.104	0.0	0.3	0.1
3120	63.450	63.275	-0.104	0.0	0.4	0.1
3144	63.451	63.275	-0.103	0.0	0.4	0.1
3168	63.451	63.276	-0.103	0.0	0.4	0.1
3192	63.451	63.276	-0.103	0.0	0.4	0.1
3216	63.451	63.277	-0.103	0.0	0.4	0.1
3240	63.451	63.277	-0.103	0.0	0.4	0.1
3264	63.451	63.278	-0.103	0.0	0.4	0.1
3288	63.451	63.278	-0.103	0.0	0.4	0.1
3312	63.451	63.279	-0.103	0.0	0.4	0.1
3336	63.451	63.280	-0.103	0.0	0.4	0.1
3360	63.451	63.280	-0.103	0.0	0.4	0.1
3384	63.452	63.282	-0.102	0.0	0.4	0.1
3408	63.452	63.285	-0.102	0.0	0.4	0.1
3432	63.452	63.286	-0.102	0.0	0.4	0.1
3456	63.452	63.288	-0.102	0.0	0.4	0.1
3480	63.452	63.289	-0.102	0.0	0.4	0.1
3504	63.452	63.292	-0.102	0.0	0.3	0.1
3528	63.452	63.293	-0.102	0.0	0.3	0.1
3552	63.453	63.296	-0.102	0.0	0.3	0.1
3576	63.453	63.298	-0.101	0.0	0.3	0.1
3600	63.453	63.300	-0.101	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.453	63.303	-0.101	0.0	0.3	0.1
3648	63.453	63.305	-0.101	0.0	0.3	0.1
3672	63.453	63.308	-0.101	0.0	0.3	0.1
3696	63.453	63.310	-0.101	0.0	0.3	0.1
3720	63.453	63.313	-0.101	0.0	0.3	0.1
3744	63.454	63.316	-0.101	0.0	0.3	0.1
3768	63.454	63.318	-0.101	0.0	0.3	0.1
3792	63.454	63.321	-0.101	0.0	0.3	0.1
3816	63.454	63.323	-0.100	0.0	0.3	0.1
3840	63.454	63.326	-0.100	0.0	0.3	0.1
3864	63.454	63.329	-0.100	0.0	0.3	0.1
3888	63.454	63.332	-0.100	0.0	0.3	0.1
3912	63.454	63.335	-0.100	0.0	0.3	0.1
3936	63.454	63.338	-0.100	0.0	0.3	0.1
3960	63.454	63.341	-0.100	0.0	0.3	0.1
3984	63.454	63.343	-0.100	0.0	0.3	0.1
4008	63.455	63.347	-0.100	0.0	0.3	0.1
4032	63.455	63.350	-0.100	0.0	0.3	0.1
4056	63.455	63.353	-0.100	0.0	0.3	0.1
4080	63.455	63.356	-0.099	0.0	0.3	0.1
4104	63.455	63.359	-0.099	0.0	0.3	0.1
4128	63.455	63.364	-0.099	0.0	0.3	0.1
4152	63.455	63.370	-0.099	0.0	0.3	0.1
4176	63.455	63.374	-0.099	0.0	0.3	0.2
4200	63.455	63.378	-0.099	0.0	0.3	0.2
4224	63.455	63.382	-0.099	0.0	0.3	0.2
4248	63.455	63.386	-0.099	0.0	0.3	0.2
4272	63.455	63.389	-0.099	0.0	0.3	0.2
4296	63.455	63.392	-0.099	0.0	0.3	0.2
4320	63.455	63.395	-0.099	0.0	0.3	0.2
4344	63.455	63.399	-0.099	0.0	0.3	0.2
4368	63.455	63.401	-0.099	0.0	0.3	0.2
4392	63.455	63.404	-0.099	0.0	0.3	0.2
4416	63.455	63.407	-0.099	0.0	0.3	0.2
4440	63.455	63.409	-0.099	0.0	0.3	0.2
4464	63.455	63.411	-0.099	0.0	0.3	0.2
4488	63.455	63.413	-0.099	0.0	0.3	0.2
4512	63.455	63.415	-0.099	0.0	0.3	0.1
4536	63.455	63.418	-0.099	0.0	0.3	0.1
4560	63.455	63.420	-0.099	0.0	0.3	0.1
4584	63.455	63.423	-0.099	0.0	0.3	0.1
4608	63.455	63.426	-0.100	0.0	0.3	0.1
4632	63.455	63.428	-0.100	0.0	0.3	0.1
4656	63.455	63.431	-0.100	0.0	0.3	0.1
4680	63.454	63.434	-0.100	0.0	0.3	0.1
4704	63.454	63.437	-0.100	0.0	0.3	0.1
4728	63.454	63.439	-0.100	0.0	0.3	0.1
4752	63.454	63.442	-0.100	0.0	0.3	0.1
4776	63.455	63.444	-0.099	0.0	0.3	0.1
4800	63.455	63.447	-0.099	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.456	63.449	-0.098	0.0	0.3	0.1
4848	63.456	63.451	-0.098	0.0	0.2	0.1
4872	63.457	63.454	-0.097	0.0	0.2	0.1
4896	63.458	63.456	-0.096	0.0	0.2	0.1
4920	63.460	63.458	-0.095	0.0	0.2	0.1
4944	63.461	63.460	-0.093	0.0	0.1	0.1
4968	63.463	63.462	-0.091	0.0	0.1	0.1
4992	63.465	63.464	-0.089	0.0	0.1	0.1
5016	63.466	63.465	-0.088	0.0	0.1	0.1
5040	63.468	63.467	-0.087	0.0	0.1	0.1
5064	63.469	63.469	-0.085	0.0	0.1	0.1
5088	63.471	63.470	-0.083	0.0	0.1	0.1
5112	63.472	63.472	-0.082	0.0	0.1	0.1
5136	63.474	63.473	-0.080	0.0	0.1	0.1
5160	63.475	63.475	-0.079	0.0	0.1	0.1
5184	63.476	63.476	-0.078	0.0	0.0	0.1
5208	63.478	63.477	-0.076	0.0	0.0	0.1
5232	63.479	63.478	-0.075	0.0	0.0	0.1
5256	63.480	63.480	-0.074	0.0	0.0	0.1
5280	63.481	63.481	-0.073	0.0	0.0	0.1
5304	63.482	63.481	-0.072	0.0	0.0	0.1
5328	63.483	63.482	-0.071	0.0	0.0	0.1
5352	63.484	63.483	-0.071	0.0	0.0	0.1
5376	63.484	63.484	-0.070	0.0	0.0	0.1
5400	63.485	63.485	-0.069	0.0	0.0	0.1
5424	63.485	63.485	-0.069	0.0	0.0	0.1
5448	63.486	63.486	-0.068	0.0	0.0	0.1
5472	63.486	63.486	-0.068	0.0	0.0	0.1
5496	63.487	63.486	-0.067	0.0	0.0	0.1
5520	63.487	63.487	-0.067	0.0	0.0	0.1
5544	63.487	63.487	-0.067	0.0	0.0	0.1
5568	63.488	63.487	-0.067	0.0	0.0	0.1
5592	63.488	63.487	-0.066	0.0	0.0	0.1
5616	63.488	63.487	-0.066	0.0	0.0	0.1
5640	63.488	63.487	-0.066	0.0	0.0	0.1
5664	63.488	63.487	-0.067	0.0	0.0	0.1
5688	63.487	63.487	-0.067	0.0	0.0	0.1
5712	63.487	63.487	-0.067	0.0	0.0	0.1
5736	63.487	63.487	-0.067	0.0	0.0	0.1
5760	63.487	63.486	-0.068	0.0	0.0	0.1
5784	63.486	63.486	-0.068	0.0	0.0	0.1
5808	63.486	63.486	-0.068	0.0	0.0	0.1
5832	63.485	63.485	-0.069	0.0	0.0	0.1
5856	63.485	63.484	-0.070	0.0	0.0	0.1
5880	63.484	63.484	-0.070	0.0	0.0	0.1
5904	63.483	63.483	-0.071	0.0	0.0	0.1
5928	63.483	63.482	-0.072	0.0	0.0	0.1
5952	63.482	63.482	-0.072	0.0	0.0	0.1
5976	63.481	63.481	-0.073	0.0	0.0	0.1
6000	63.480	63.480	-0.074	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.479	63.479	-0.075	0.0	0.0	0.1
6048	63.478	63.478	-0.076	0.0	0.0	0.1
6072	63.477	63.477	-0.077	0.0	0.0	0.1
6096	63.476	63.476	-0.078	0.0	0.0	0.1
6120	63.475	63.475	-0.079	0.0	0.0	0.1
6144	63.474	63.473	-0.081	0.0	0.0	0.1
6168	63.472	63.472	-0.082	0.0	0.0	0.1
6192	63.471	63.471	-0.083	0.0	0.0	0.0
6216	63.470	63.470	-0.084	0.0	0.0	0.0
6240	63.468	63.468	-0.086	0.0	0.0	0.0
6264	63.467	63.467	-0.087	0.0	0.0	0.0
6288	63.465	63.465	-0.089	0.0	0.0	0.0
6312	63.464	63.464	-0.090	0.0	0.0	0.0
6336	63.462	63.462	-0.092	0.0	0.0	0.0
6360	63.461	63.461	-0.093	0.0	0.0	0.0
6384	63.460	63.459	-0.094	0.0	0.0	0.0
6408	63.458	63.458	-0.096	0.0	0.1	0.0
6432	63.456	63.456	-0.098	0.0	0.1	0.0
6456	63.455	63.454	-0.099	0.0	0.1	0.0
6480	63.454	63.453	-0.100	0.0	0.1	0.0
6504	63.452	63.451	-0.102	0.0	0.1	0.0
6528	63.451	63.449	-0.104	0.0	0.1	0.0
6552	63.450	63.447	-0.104	0.0	0.2	0.0
6576	63.449	63.445	-0.105	0.0	0.1	0.0
6600	63.448	63.444	-0.106	0.0	0.1	0.0
6624	63.448	63.442	-0.106	0.0	0.1	0.0
6648	63.447	63.440	-0.107	0.0	0.1	0.0
6672	63.447	63.438	-0.107	0.0	0.1	0.0
6696	63.447	63.436	-0.108	0.0	0.1	0.0
6720	63.446	63.434	-0.108	0.0	0.1	0.0
6744	63.446	63.432	-0.108	0.0	0.1	0.0
6768	63.446	63.430	-0.108	0.0	0.1	0.0
6792	63.446	63.428	-0.108	0.0	0.1	0.0
6816	63.446	63.426	-0.108	0.0	0.1	0.0
6840	63.446	63.424	-0.108	0.0	0.1	0.0
6864	63.446	63.422	-0.108	0.0	0.1	0.0
6888	63.446	63.420	-0.108	0.0	0.1	0.0
6912	63.446	63.418	-0.108	0.0	0.1	0.0
6936	63.446	63.416	-0.108	0.0	0.1	0.0
6960	63.446	63.414	-0.108	0.0	0.1	0.0
6984	63.446	63.412	-0.108	0.0	0.1	0.0
7008	63.446	63.410	-0.108	0.0	0.1	0.0
7032	63.446	63.408	-0.108	0.0	0.1	0.0
7056	63.446	63.405	-0.108	0.0	0.1	0.0
7080	63.446	63.403	-0.108	0.0	0.1	0.0
7104	63.446	63.401	-0.108	0.0	0.1	0.0
7128	63.446	63.399	-0.108	0.0	0.1	0.0
7152	63.446	63.397	-0.108	0.0	0.1	0.0
7176	63.446	63.395	-0.108	0.0	0.1	0.0
7200	63.446	63.393	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.446	63.391	-0.108	0.0	0.1	0.0
7248	63.446	63.389	-0.108	0.0	0.1	0.0
7272	63.446	63.387	-0.108	0.0	0.1	0.0
7296	63.446	63.385	-0.108	0.0	0.1	0.0
7320	63.446	63.383	-0.108	0.0	0.1	0.0
7344	63.446	63.382	-0.108	0.0	0.1	0.0
7368	63.446	63.380	-0.108	0.0	0.1	0.0
7392	63.446	63.378	-0.108	0.0	0.1	0.0
7416	63.446	63.377	-0.108	0.0	0.1	0.0
7440	63.446	63.375	-0.108	0.0	0.1	0.0
7464	63.446	63.374	-0.108	0.0	0.1	0.0
7488	63.446	63.373	-0.108	0.0	0.1	0.0
7512	63.446	63.372	-0.108	0.0	0.1	0.0
7536	63.446	63.371	-0.108	0.0	0.1	0.0
7560	63.446	63.370	-0.108	0.0	0.1	0.0
7584	63.446	63.368	-0.108	0.0	0.1	0.0
7608	63.446	63.366	-0.108	0.0	0.1	0.0
7632	63.446	63.364	-0.108	0.0	0.1	0.0
7656	63.446	63.362	-0.108	0.0	0.1	0.0
7680	63.446	63.359	-0.108	0.0	0.1	0.0
7704	63.446	63.356	-0.108	0.0	0.1	0.0
7728	63.446	63.353	-0.108	0.0	0.1	0.0
7752	63.446	63.351	-0.108	0.0	0.1	0.0
7776	63.446	63.349	-0.108	0.0	0.1	0.0
7800	63.446	63.347	-0.108	0.0	0.1	0.0
7824	63.446	63.344	-0.108	0.0	0.1	0.0
7848	63.446	63.342	-0.108	0.0	0.1	0.0
7872	63.446	63.341	-0.108	0.0	0.1	0.0
7896	63.446	63.339	-0.108	0.0	0.1	0.0
7920	63.446	63.337	-0.108	0.0	0.1	0.0
7944	63.446	63.335	-0.108	0.0	0.1	0.0
7968	63.446	63.333	-0.108	0.0	0.1	0.0
7992	63.446	63.331	-0.108	0.0	0.1	0.0
8016	63.446	63.329	-0.108	0.0	0.1	0.0
8040	63.446	63.327	-0.108	0.0	0.1	0.0
8064	63.446	63.325	-0.108	0.0	0.1	0.0
8088	63.446	63.323	-0.108	0.0	0.1	0.0
8112	63.446	63.321	-0.108	0.0	0.1	0.0
8136	63.446	63.319	-0.108	0.0	0.1	0.0
8160	63.446	63.317	-0.108	0.0	0.1	0.0
8184	63.446	63.315	-0.108	0.0	0.1	0.0
8208	63.446	63.313	-0.108	0.0	0.1	0.0
8232	63.446	63.310	-0.109	0.0	0.1	0.0
8256	63.446	63.308	-0.109	0.0	0.1	0.0
8280	63.446	63.306	-0.109	0.0	0.1	0.0
8304	63.445	63.303	-0.109	0.0	0.1	0.0
8328	63.445	63.301	-0.109	0.0	0.1	0.0
8352	63.445	63.298	-0.109	0.0	0.1	0.0
8376	63.445	63.296	-0.109	0.0	0.1	0.0
8400	63.445	63.293	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.445	63.290	-0.109	0.0	0.1	0.0
8448	63.445	63.288	-0.109	0.0	0.1	0.0
8472	63.445	63.285	-0.109	0.0	0.0	0.0
8496	63.445	63.282	-0.109	0.0	0.0	0.0
8520	63.445	63.280	-0.109	0.0	0.0	0.0
8544	63.445	63.277	-0.109	0.0	0.0	0.0
8568	63.444	63.274	-0.110	0.0	0.0	0.0
8592	63.444	63.271	-0.110	0.0	0.0	0.0
8616	63.444	63.268	-0.110	0.0	0.0	0.0
8640	63.444	63.266	-0.110	0.0	0.0	0.0
8664	63.444	63.264	-0.110	0.0	0.0	0.0
8688	63.444	63.263	-0.110	0.0	0.0	0.0
8712	63.444	63.262	-0.110	0.0	0.0	0.0
8736	63.444	63.261	-0.110	0.0	0.0	0.0
8760	63.444	63.260	-0.110	0.0	0.0	0.0
8784	63.444	63.259	-0.110	0.0	0.0	0.0
8808	63.444	63.258	-0.110	0.0	0.0	0.0
8832	63.444	63.258	-0.110	0.0	0.0	0.0
8856	63.444	63.257	-0.110	0.0	0.0	0.0
8880	63.444	63.257	-0.110	0.0	0.0	0.0
8904	63.444	63.256	-0.110	0.0	0.0	0.0
8928	63.444	63.256	-0.110	0.0	0.0	0.0
8952	63.444	63.256	-0.110	0.0	0.0	0.0
8976	63.444	63.255	-0.110	0.0	0.0	0.0
9000	63.444	63.255	-0.110	0.0	0.0	0.0
9024	63.444	63.255	-0.110	0.0	0.0	0.0
9048	63.444	63.255	-0.110	0.0	0.0	0.0
9072	63.444	63.255	-0.110	0.0	0.0	0.0
9096	63.444	63.254	-0.110	0.0	0.0	0.0
9120	63.444	63.254	-0.110	0.0	0.0	0.0
9144	63.444	63.254	-0.110	0.0	0.0	0.0
9168	63.444	63.254	-0.110	0.0	0.0	0.0
9192	63.444	63.254	-0.110	0.0	0.0	0.0
9216	63.444	63.254	-0.110	0.0	0.0	0.0
9240	63.444	63.253	-0.110	0.0	0.0	0.0
9264	63.444	63.253	-0.110	0.0	0.0	0.0
9288	63.444	63.253	-0.110	0.0	0.0	0.0
9312	63.444	63.253	-0.110	0.0	0.0	0.0
9336	63.444	63.253	-0.110	0.0	0.0	0.0
9360	63.444	63.253	-0.110	0.0	0.0	0.0
9384	63.444	63.253	-0.110	0.0	0.0	0.0
9408	63.444	63.253	-0.110	0.0	0.0	0.0
9432	63.444	63.253	-0.110	0.0	0.0	0.0
9456	63.444	63.253	-0.110	0.0	0.0	0.0
9480	63.444	63.253	-0.110	0.0	0.0	0.0
9504	63.444	63.253	-0.110	0.0	0.0	0.0
9528	63.444	63.252	-0.110	0.0	0.0	0.0
9552	63.444	63.252	-0.110	0.0	0.0	0.0
9576	63.444	63.252	-0.110	0.0	0.0	0.0
9600	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.444	63.252	-0.110	0.0	0.0	0.0
9648	63.444	63.252	-0.110	0.0	0.0	0.0
9672	63.444	63.252	-0.110	0.0	0.0	0.0
9696	63.444	63.252	-0.110	0.0	0.0	0.0
9720	63.444	63.252	-0.110	0.0	0.0	0.0
9744	63.444	63.252	-0.110	0.0	0.0	0.0
9768	63.444	63.252	-0.110	0.0	0.0	0.0
9792	63.444	63.252	-0.110	0.0	0.0	0.0
9816	63.444	63.252	-0.110	0.0	0.0	0.0
9840	63.444	63.252	-0.110	0.0	0.0	0.0
9864	63.444	63.252	-0.110	0.0	0.0	0.0
9888	63.444	63.252	-0.110	0.0	0.0	0.0
9912	63.444	63.252	-0.110	0.0	0.0	0.0
9936	63.444	63.252	-0.110	0.0	0.0	0.0
9960	63.444	63.252	-0.110	0.0	0.0	0.0
9984	63.444	63.252	-0.110	0.0	0.0	0.0
10008	63.444	63.252	-0.110	0.0	0.0	0.0
10032	63.444	63.252	-0.110	0.0	0.0	0.0
10056	63.444	63.252	-0.110	0.0	0.0	0.0
10080	63.444	63.252	-0.110	0.0	0.0	0.0
10104	63.444	63.252	-0.110	0.0	0.0	0.0
10128	63.444	63.251	-0.110	0.0	0.0	0.0
10152	63.444	63.251	-0.110	0.0	0.0	0.0
10176	63.444	63.251	-0.110	0.0	0.0	0.0
10200	63.444	63.251	-0.110	0.0	0.0	0.0
10224	63.444	63.251	-0.110	0.0	0.0	0.0
10248	63.444	63.251	-0.110	0.0	0.0	0.0
10272	63.444	63.251	-0.110	0.0	0.0	0.0
10296	63.444	63.251	-0.110	0.0	0.0	0.0
10320	63.444	63.251	-0.110	0.0	0.0	0.0
10344	63.444	63.251	-0.110	0.0	0.0	0.0
10368	63.444	63.251	-0.110	0.0	0.0	0.0
10392	63.444	63.251	-0.110	0.0	0.0	0.0
10416	63.444	63.251	-0.110	0.0	0.0	0.0
10440	63.444	63.251	-0.110	0.0	0.0	0.0
10464	63.444	63.251	-0.110	0.0	0.0	0.0
10488	63.444	63.251	-0.110	0.0	0.0	0.0
10512	63.444	63.251	-0.110	0.0	0.0	0.0
10536	63.444	63.251	-0.110	0.0	0.0	0.0
10560	63.444	63.251	-0.110	0.0	0.0	0.0
10584	63.444	63.251	-0.110	0.0	0.0	0.0
10608	63.444	63.251	-0.110	0.0	0.0	0.0
10632	63.444	63.251	-0.110	0.0	0.0	0.0
10656	63.444	63.251	-0.110	0.0	0.0	0.0
10680	63.444	63.251	-0.110	0.0	0.0	0.0
10704	63.444	63.251	-0.110	0.0	0.0	0.0
10728	63.444	63.251	-0.110	0.0	0.0	0.0
10752	63.444	63.251	-0.110	0.0	0.0	0.0
10776	63.444	63.251	-0.110	0.0	0.0	0.0
10800	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.251	-0.110	0.0	0.0	0.0
10848	63.444	63.251	-0.110	0.0	0.0	0.0
10872	63.444	63.251	-0.110	0.0	0.0	0.0
10896	63.444	63.251	-0.110	0.0	0.0	0.0
10920	63.444	63.251	-0.110	0.0	0.0	0.0
10944	63.444	63.251	-0.110	0.0	0.0	0.0
10968	63.444	63.251	-0.110	0.0	0.0	0.0
10992	63.444	63.251	-0.110	0.0	0.0	0.0
11016	63.444	63.251	-0.110	0.0	0.0	0.0
11040	63.444	63.251	-0.110	0.0	0.0	0.0
11064	63.444	63.251	-0.110	0.0	0.0	0.0
11088	63.444	63.251	-0.110	0.0	0.0	0.0
11112	63.444	63.251	-0.110	0.0	0.0	0.0
11136	63.444	63.251	-0.110	0.0	0.0	0.0
11160	63.444	63.251	-0.110	0.0	0.0	0.0
11184	63.444	63.251	-0.110	0.0	0.0	0.0
11208	63.444	63.251	-0.110	0.0	0.0	0.0
11232	63.444	63.251	-0.110	0.0	0.0	0.0
11256	63.444	63.251	-0.110	0.0	0.0	0.0
11280	63.444	63.251	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.251	-0.110	0.0	0.0	0.0
12408	63.444	63.251	-0.110	0.0	0.0	0.0
12432	63.444	63.251	-0.110	0.0	0.0	0.0
12456	63.444	63.251	-0.110	0.0	0.0	0.0
12480	63.444	63.251	-0.110	0.0	0.0	0.0
12504	63.444	63.251	-0.110	0.0	0.0	0.0
12528	63.444	63.251	-0.110	0.0	0.0	0.0
12552	63.444	63.251	-0.110	0.0	0.0	0.0
12576	63.444	63.251	-0.110	0.0	0.0	0.0
12600	63.444	63.251	-0.110	0.0	0.0	0.0
12624	63.444	63.251	-0.110	0.0	0.0	0.0
12648	63.444	63.251	-0.110	0.0	0.0	0.0
12672	63.444	63.251	-0.110	0.0	0.0	0.0
12696	63.444	63.251	-0.110	0.0	0.0	0.0
12720	63.444	63.251	-0.110	0.0	0.0	0.0
12744	63.444	63.251	-0.110	0.0	0.0	0.0
12768	63.444	63.251	-0.110	0.0	0.0	0.0
12792	63.444	63.251	-0.110	0.0	0.0	0.0
12816	63.444	63.251	-0.110	0.0	0.0	0.0
12840	63.444	63.251	-0.110	0.0	0.0	0.0
12864	63.444	63.251	-0.110	0.0	0.0	0.0
12888	63.444	63.251	-0.110	0.0	0.0	0.0
12912	63.444	63.251	-0.110	0.0	0.0	0.0
12936	63.444	63.251	-0.110	0.0	0.0	0.0
12960	63.444	63.251	-0.110	0.0	0.0	0.0
12984	63.444	63.251	-0.110	0.0	0.0	0.0
13008	63.444	63.251	-0.110	0.0	0.0	0.0
13032	63.444	63.251	-0.110	0.0	0.0	0.0
13056	63.444	63.251	-0.110	0.0	0.0	0.0
13080	63.444	63.251	-0.110	0.0	0.0	0.0
13104	63.444	63.251	-0.110	0.0	0.0	0.0
13128	63.444	63.251	-0.110	0.0	0.0	0.0
13152	63.444	63.251	-0.110	0.0	0.0	0.0
13176	63.444	63.250	-0.110	0.0	0.0	0.0
13200	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.250	-0.110	0.0	0.0	0.0
13248	63.444	63.250	-0.110	0.0	0.0	0.0
13272	63.444	63.250	-0.110	0.0	0.0	0.0
13296	63.444	63.250	-0.110	0.0	0.0	0.0
13320	63.444	63.250	-0.110	0.0	0.0	0.0
13344	63.444	63.250	-0.110	0.0	0.0	0.0
13368	63.444	63.250	-0.110	0.0	0.0	0.0
13392	63.444	63.250	-0.110	0.0	0.0	0.0
13416	63.444	63.250	-0.110	0.0	0.0	0.0
13440	63.444	63.250	-0.110	0.0	0.0	0.0
13464	63.444	63.250	-0.110	0.0	0.0	0.0
13488	63.444	63.250	-0.110	0.0	0.0	0.0
13512	63.444	63.250	-0.110	0.0	0.0	0.0
13536	63.444	63.250	-0.110	0.0	0.0	0.0
13560	63.444	63.250	-0.110	0.0	0.0	0.0
13584	63.444	63.250	-0.110	0.0	0.0	0.0
13608	63.444	63.250	-0.110	0.0	0.0	0.0
13632	63.444	63.250	-0.110	0.0	0.0	0.0
13656	63.444	63.250	-0.110	0.0	0.0	0.0
13680	63.444	63.250	-0.110	0.0	0.0	0.0
13704	63.444	63.250	-0.110	0.0	0.0	0.0
13728	63.444	63.250	-0.110	0.0	0.0	0.0
13752	63.444	63.250	-0.110	0.0	0.0	0.0
13776	63.444	63.250	-0.110	0.0	0.0	0.0
13800	63.444	63.250	-0.110	0.0	0.0	0.0
13824	63.444	63.250	-0.110	0.0	0.0	0.0
13848	63.444	63.250	-0.110	0.0	0.0	0.0
13872	63.444	63.250	-0.110	0.0	0.0	0.0
13896	63.444	63.250	-0.110	0.0	0.0	0.0
13920	63.444	63.250	-0.110	0.0	0.0	0.0
13944	63.444	63.250	-0.110	0.0	0.0	0.0
13968	63.444	63.250	-0.110	0.0	0.0	0.0
13992	63.444	63.250	-0.110	0.0	0.0	0.0
14016	63.444	63.250	-0.110	0.0	0.0	0.0
14040	63.444	63.250	-0.110	0.0	0.0	0.0
14064	63.444	63.250	-0.110	0.0	0.0	0.0
14088	63.444	63.250	-0.110	0.0	0.0	0.0
14112	63.444	63.250	-0.110	0.0	0.0	0.0
14136	63.444	63.250	-0.110	0.0	0.0	0.0
14160	63.444	63.250	-0.110	0.0	0.0	0.0
14184	63.444	63.250	-0.110	0.0	0.0	0.0
14208	63.444	63.250	-0.110	0.0	0.0	0.0
14232	63.444	63.250	-0.110	0.0	0.0	0.0
14256	63.444	63.250	-0.110	0.0	0.0	0.0
14280	63.444	63.250	-0.110	0.0	0.0	0.0
14304	63.444	63.250	-0.110	0.0	0.0	0.0
14328	63.444	63.250	-0.110	0.0	0.0	0.0
14352	63.444	63.250	-0.110	0.0	0.0	0.0
14376	63.444	63.250	-0.110	0.0	0.0	0.0
14400	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.444	63.250	-0.110	0.0	0.0	0.0
14448	63.444	63.250	-0.110	0.0	0.0	0.0
14472	63.444	63.250	-0.110	0.0	0.0	0.0
14496	63.444	63.250	-0.110	0.0	0.0	0.0
14520	63.444	63.250	-0.110	0.0	0.0	0.0
14544	63.444	63.250	-0.110	0.0	0.0	0.0
14568	63.444	63.250	-0.110	0.0	0.0	0.0
14592	63.444	63.250	-0.110	0.0	0.0	0.0
14616	63.444	63.250	-0.110	0.0	0.0	0.0
14640	63.444	63.250	-0.110	0.0	0.0	0.0
14664	63.444	63.250	-0.110	0.0	0.0	0.0
14688	63.444	63.250	-0.110	0.0	0.0	0.0
14712	63.444	63.250	-0.110	0.0	0.0	0.0
14736	63.444	63.250	-0.110	0.0	0.0	0.0
14760	63.444	63.250	-0.110	0.0	0.0	0.0
14784	63.444	63.250	-0.110	0.0	0.0	0.0
14808	63.444	63.250	-0.110	0.0	0.0	0.0
14832	63.444	63.250	-0.110	0.0	0.0	0.0
14856	63.444	63.250	-0.110	0.0	0.0	0.0
14880	63.444	63.250	-0.110	0.0	0.0	0.0
14904	63.444	63.250	-0.110	0.0	0.0	0.0
14928	63.444	63.250	-0.110	0.0	0.0	0.0
14952	63.444	63.250	-0.110	0.0	0.0	0.0
14976	63.444	63.250	-0.110	0.0	0.0	0.0
15000	63.444	63.250	-0.110	0.0	0.0	0.0
15024	63.444	63.250	-0.110	0.0	0.0	0.0
15048	63.444	63.250	-0.110	0.0	0.0	0.0
15072	63.444	63.250	-0.110	0.0	0.0	0.0
15096	63.444	63.250	-0.110	0.0	0.0	0.0
15120	63.444	63.250	-0.110	0.0	0.0	0.0
15144	63.444	63.250	-0.110	0.0	0.0	0.0
15168	63.444	63.250	-0.110	0.0	0.0	0.0
15192	63.444	63.250	-0.110	0.0	0.0	0.0
15216	63.444	63.250	-0.110	0.0	0.0	0.0
15240	63.444	63.250	-0.110	0.0	0.0	0.0
15264	63.444	63.250	-0.110	0.0	0.0	0.0
15288	63.444	63.250	-0.110	0.0	0.0	0.0
15312	63.444	63.250	-0.110	0.0	0.0	0.0
15336	63.444	63.250	-0.110	0.0	0.0	0.0
15360	63.444	63.250	-0.110	0.0	0.0	0.0
15384	63.444	63.250	-0.110	0.0	0.0	0.0
15408	63.444	63.250	-0.110	0.0	0.0	0.0
15432	63.444	63.250	-0.110	0.0	0.0	0.0
15456	63.444	63.250	-0.110	0.0	0.0	0.0
15480	63.444	63.250	-0.110	0.0	0.0	0.0
15504	63.444	63.250	-0.110	0.0	0.0	0.0
15528	63.444	63.250	-0.110	0.0	0.0	0.0
15552	63.444	63.250	-0.110	0.0	0.0	0.0
15576	63.444	63.250	-0.110	0.0	0.0	0.0
15600	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.444	63.250	-0.110	0.0	0.0	0.0
15648	63.444	63.250	-0.110	0.0	0.0	0.0
15672	63.444	63.250	-0.110	0.0	0.0	0.0
15696	63.444	63.250	-0.110	0.0	0.0	0.0
15720	63.444	63.250	-0.110	0.0	0.0	0.0
15744	63.444	63.250	-0.110	0.0	0.0	0.0
15768	63.444	63.250	-0.110	0.0	0.0	0.0
15792	63.444	63.250	-0.110	0.0	0.0	0.0
15816	63.444	63.250	-0.110	0.0	0.0	0.0
15840	63.444	63.250	-0.110	0.0	0.0	0.0
15864	63.444	63.250	-0.110	0.0	0.0	0.0
15888	63.444	63.250	-0.110	0.0	0.0	0.0
15912	63.444	63.250	-0.110	0.0	0.0	0.0
15936	63.444	63.250	-0.110	0.0	0.0	0.0
15960	63.444	63.250	-0.110	0.0	0.0	0.0
15984	63.444	63.250	-0.110	0.0	0.0	0.0
16008	63.444	63.250	-0.110	0.0	0.0	0.0
16032	63.444	63.250	-0.110	0.0	0.0	0.0
16056	63.444	63.250	-0.110	0.0	0.0	0.0
16080	63.444	63.250	-0.110	0.0	0.0	0.0
16104	63.444	63.250	-0.110	0.0	0.0	0.0
16128	63.444	63.250	-0.110	0.0	0.0	0.0
16152	63.444	63.250	-0.110	0.0	0.0	0.0
16176	63.444	63.250	-0.110	0.0	0.0	0.0
16200	63.444	63.250	-0.110	0.0	0.0	0.0
16224	63.444	63.250	-0.110	0.0	0.0	0.0
16248	63.444	63.250	-0.110	0.0	0.0	0.0
16272	63.444	63.250	-0.110	0.0	0.0	0.0
16296	63.444	63.250	-0.110	0.0	0.0	0.0
16320	63.444	63.250	-0.110	0.0	0.0	0.0
16344	63.444	63.250	-0.110	0.0	0.0	0.0
16368	63.444	63.250	-0.110	0.0	0.0	0.0
16392	63.444	63.250	-0.110	0.0	0.0	0.0
16416	63.444	63.250	-0.110	0.0	0.0	0.0
16440	63.444	63.250	-0.110	0.0	0.0	0.0
16464	63.444	63.250	-0.110	0.0	0.0	0.0
16488	63.444	63.250	-0.110	0.0	0.0	0.0
16512	63.444	63.250	-0.110	0.0	0.0	0.0
16536	63.444	63.250	-0.110	0.0	0.0	0.0
16560	63.444	63.250	-0.110	0.0	0.0	0.0
16584	63.444	63.250	-0.110	0.0	0.0	0.0
16608	63.444	63.250	-0.110	0.0	0.0	0.0
16632	63.444	63.250	-0.110	0.0	0.0	0.0
16656	63.444	63.250	-0.110	0.0	0.0	0.0
16680	63.444	63.250	-0.110	0.0	0.0	0.0
16704	63.444	63.250	-0.110	0.0	0.0	0.0
16728	63.444	63.250	-0.110	0.0	0.0	0.0
16752	63.444	63.250	-0.110	0.0	0.0	0.0
16776	63.444	63.250	-0.110	0.0	0.0	0.0
16800	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.444	63.250	-0.110	0.0	0.0	0.0
16848	63.444	63.250	-0.110	0.0	0.0	0.0
16872	63.444	63.250	-0.110	0.0	0.0	0.0
16896	63.444	63.250	-0.110	0.0	0.0	0.0
16920	63.444	63.250	-0.110	0.0	0.0	0.0
16944	63.444	63.250	-0.110	0.0	0.0	0.0
16968	63.444	63.250	-0.110	0.0	0.0	0.0
16992	63.444	63.250	-0.110	0.0	0.0	0.0
17016	63.444	63.250	-0.110	0.0	0.0	0.0
17040	63.444	63.250	-0.110	0.0	0.0	0.0
17064	63.444	63.250	-0.110	0.0	0.0	0.0
17088	63.444	63.250	-0.110	0.0	0.0	0.0
17112	63.444	63.250	-0.110	0.0	0.0	0.0
17136	63.444	63.250	-0.110	0.0	0.0	0.0
17160	63.444	63.250	-0.110	0.0	0.0	0.0
17184	63.444	63.250	-0.110	0.0	0.0	0.0
17208	63.444	63.250	-0.110	0.0	0.0	0.0
17232	63.444	63.250	-0.110	0.0	0.0	0.0
17256	63.444	63.250	-0.110	0.0	0.0	0.0
17280	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.250	63.100	-0.110	0.0	0.0	0.0
96	63.250	63.100	-0.110	0.0	0.0	0.0
120	63.250	63.100	-0.110	0.0	0.0	0.0
144	63.250	63.100	-0.110	0.0	0.0	0.0
168	63.250	63.100	-0.110	0.0	0.0	0.0
192	63.250	63.100	-0.110	0.0	0.0	0.0
216	63.250	63.100	-0.110	0.0	0.0	0.0
240	63.250	63.100	-0.110	0.0	0.0	0.0
264	63.251	63.100	-0.109	0.0	0.0	0.0
288	63.251	63.100	-0.109	0.0	0.0	0.0
312	63.251	63.100	-0.109	0.0	0.0	0.0
336	63.251	63.100	-0.109	0.0	0.0	0.0
360	63.251	63.100	-0.109	0.0	0.0	0.0
384	63.251	63.100	-0.109	0.0	0.0	0.0
408	63.252	63.100	-0.108	0.0	0.0	0.0
432	63.252	63.100	-0.108	0.0	0.0	0.0
456	63.252	63.101	-0.108	0.0	0.0	0.0
480	63.252	63.101	-0.108	0.0	0.0	0.0
504	63.252	63.101	-0.108	0.0	0.0	0.0
528	63.253	63.101	-0.107	0.0	0.0	0.0
552	63.253	63.101	-0.107	0.0	0.0	0.0
576	63.253	63.101	-0.107	0.0	0.0	0.0
600	63.253	63.101	-0.107	0.0	0.0	0.0
624	63.253	63.101	-0.107	0.0	0.0	0.0
648	63.254	63.102	-0.106	0.0	0.0	0.0
672	63.254	63.102	-0.106	0.0	0.0	0.0
696	63.254	63.102	-0.106	0.0	0.0	0.0
720	63.254	63.102	-0.106	0.0	0.0	0.0
744	63.254	63.102	-0.106	0.0	0.0	0.0
768	63.254	63.103	-0.106	0.0	0.0	0.0
792	63.254	63.103	-0.106	0.0	0.0	0.0
816	63.255	63.103	-0.105	0.0	0.0	0.0
840	63.255	63.103	-0.105	0.0	0.0	0.0
864	63.255	63.103	-0.105	0.0	0.0	0.0
888	63.255	63.103	-0.105	0.0	0.0	0.0
912	63.255	63.104	-0.105	0.0	0.0	0.0
936	63.255	63.104	-0.105	0.0	0.0	0.0
960	63.255	63.104	-0.105	0.0	0.0	0.0
984	63.255	63.104	-0.105	0.0	0.0	0.0
1008	63.255	63.104	-0.105	0.0	0.0	0.0
1032	63.255	63.104	-0.105	0.0	0.0	0.0
1056	63.255	63.104	-0.105	0.0	0.0	0.0
1080	63.255	63.104	-0.105	0.0	0.0	0.0
1104	63.255	63.104	-0.105	0.0	0.0	0.0
1128	63.256	63.104	-0.104	0.0	0.0	0.0
1152	63.256	63.105	-0.104	0.0	0.0	0.0
1176	63.256	63.105	-0.104	0.0	0.0	0.0
1200	63.256	63.105	-0.104	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.256	63.105	-0.104	0.0	0.0	0.0
1248	63.256	63.105	-0.104	0.0	0.0	0.0
1272	63.256	63.105	-0.104	0.0	0.0	0.0
1296	63.256	63.105	-0.104	0.0	0.0	0.0
1320	63.256	63.105	-0.104	0.0	0.0	0.0
1344	63.256	63.105	-0.104	0.0	0.0	0.0
1368	63.256	63.105	-0.104	0.0	0.0	0.0
1392	63.256	63.105	-0.104	0.0	0.0	0.0
1416	63.256	63.105	-0.104	0.0	0.0	0.0
1440	63.256	63.105	-0.104	0.0	0.0	0.0
1464	63.256	63.105	-0.104	0.0	0.0	0.0
1488	63.256	63.105	-0.104	0.0	0.0	0.0
1512	63.256	63.105	-0.104	0.0	0.0	0.0
1536	63.256	63.105	-0.104	0.0	0.0	0.0
1560	63.256	63.105	-0.104	0.0	0.0	0.0
1584	63.256	63.105	-0.104	0.0	0.0	0.0
1608	63.257	63.106	-0.103	0.0	0.0	0.0
1632	63.257	63.106	-0.103	0.0	0.0	0.0
1656	63.258	63.107	-0.102	0.0	0.0	0.0
1680	63.258	63.108	-0.102	0.0	0.0	0.0
1704	63.258	63.108	-0.102	0.0	0.1	0.0
1728	63.259	63.109	-0.101	0.0	0.1	0.0
1752	63.259	63.110	-0.101	0.0	0.1	0.0
1776	63.259	63.111	-0.101	0.0	0.1	0.0
1800	63.260	63.112	-0.100	0.0	0.1	0.0
1824	63.260	63.113	-0.100	0.0	0.1	0.0
1848	63.260	63.114	-0.100	0.0	0.1	0.0
1872	63.260	63.114	-0.100	0.0	0.1	0.0
1896	63.260	63.115	-0.100	0.0	0.1	0.0
1920	63.260	63.115	-0.100	0.0	0.1	0.0
1944	63.260	63.116	-0.100	0.0	0.1	0.0
1968	63.261	63.116	-0.099	0.0	0.1	0.0
1992	63.261	63.116	-0.099	0.0	0.1	0.0
2016	63.261	63.117	-0.099	0.0	0.1	0.0
2040	63.262	63.118	-0.098	0.0	0.1	0.0
2064	63.262	63.118	-0.098	0.0	0.1	0.0
2088	63.262	63.119	-0.098	0.0	0.1	0.0
2112	63.263	63.120	-0.097	0.0	0.1	0.0
2136	63.263	63.121	-0.097	0.0	0.1	0.0
2160	63.263	63.122	-0.097	0.0	0.1	0.0
2184	63.264	63.123	-0.096	0.0	0.1	0.0
2208	63.264	63.124	-0.096	0.0	0.1	0.0
2232	63.264	63.125	-0.096	0.0	0.1	0.0
2256	63.265	63.125	-0.095	0.0	0.1	0.0
2280	63.265	63.126	-0.095	0.0	0.1	0.0
2304	63.265	63.127	-0.095	0.0	0.2	0.0
2328	63.265	63.128	-0.095	0.0	0.2	0.0
2352	63.266	63.129	-0.094	0.0	0.2	0.0
2376	63.266	63.130	-0.094	0.0	0.2	0.0
2400	63.266	63.130	-0.094	0.0	0.2	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.266	63.131	-0.094	0.0	0.2	0.0
2448	63.267	63.132	-0.093	0.0	0.2	0.0
2472	63.267	63.133	-0.093	0.0	0.2	0.0
2496	63.267	63.134	-0.093	0.0	0.2	0.0
2520	63.267	63.134	-0.093	0.0	0.2	0.0
2544	63.268	63.135	-0.092	0.0	0.2	0.0
2568	63.268	63.136	-0.092	0.0	0.2	0.0
2592	63.268	63.137	-0.092	0.0	0.2	0.0
2616	63.268	63.138	-0.092	0.0	0.2	0.0
2640	63.269	63.138	-0.091	0.0	0.2	0.1
2664	63.269	63.139	-0.091	0.0	0.2	0.1
2688	63.269	63.140	-0.091	0.0	0.2	0.1
2712	63.269	63.141	-0.091	0.0	0.2	0.1
2736	63.270	63.142	-0.090	0.0	0.2	0.1
2760	63.270	63.143	-0.090	0.0	0.2	0.1
2784	63.270	63.144	-0.090	0.0	0.2	0.1
2808	63.271	63.145	-0.089	0.0	0.2	0.1
2832	63.271	63.146	-0.089	0.0	0.2	0.1
2856	63.271	63.147	-0.089	0.0	0.2	0.1
2880	63.272	63.148	-0.088	0.0	0.2	0.1
2904	63.272	63.149	-0.088	0.0	0.2	0.1
2928	63.272	63.150	-0.088	0.0	0.2	0.1
2952	63.272	63.152	-0.088	0.0	0.2	0.1
2976	63.273	63.154	-0.087	0.0	0.2	0.1
3000	63.273	63.156	-0.087	0.0	0.2	0.1
3024	63.273	63.160	-0.087	0.0	0.2	0.1
3048	63.274	63.163	-0.086	0.0	0.2	0.1
3072	63.274	63.168	-0.086	0.0	0.3	0.1
3096	63.275	63.173	-0.085	0.0	0.3	0.1
3120	63.275	63.178	-0.085	0.0	0.3	0.1
3144	63.275	63.184	-0.085	0.0	0.3	0.1
3168	63.276	63.190	-0.084	0.0	0.3	0.1
3192	63.276	63.197	-0.084	0.0	0.3	0.1
3216	63.277	63.204	-0.083	0.0	0.3	0.1
3240	63.277	63.211	-0.083	0.0	0.3	0.1
3264	63.278	63.218	-0.082	0.0	0.3	0.1
3288	63.278	63.226	-0.082	0.0	0.3	0.1
3312	63.279	63.234	-0.081	0.0	0.3	0.1
3336	63.280	63.242	-0.080	0.0	0.3	0.1
3360	63.280	63.250	-0.080	0.0	0.3	0.1
3384	63.282	63.250	-0.078	0.0	0.2	0.1
3408	63.285	63.249	-0.075	0.0	0.2	0.1
3432	63.286	63.250	-0.074	0.0	0.2	0.1
3456	63.288	63.248	-0.072	0.0	0.2	0.1
3480	63.289	63.249	-0.071	0.0	0.2	0.1
3504	63.292	63.249	-0.068	0.0	0.2	0.1
3528	63.293	63.251	-0.067	0.0	0.2	0.1
3552	63.296	63.250	-0.064	0.0	0.2	0.1
3576	63.298	63.251	-0.062	0.0	0.2	0.1
3600	63.300	63.250	-0.060	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.303	63.251	-0.057	0.0	0.2	0.1
3648	63.305	63.250	-0.055	0.0	0.2	0.1
3672	63.308	63.250	-0.052	0.0	0.2	0.1
3696	63.310	63.252	-0.050	0.0	0.2	0.1
3720	63.313	63.252	-0.047	0.0	0.2	0.1
3744	63.316	63.251	-0.044	0.0	0.2	0.1
3768	63.318	63.251	-0.042	0.0	0.2	0.1
3792	63.321	63.252	-0.039	0.0	0.2	0.1
3816	63.323	63.253	-0.037	0.0	0.2	0.1
3840	63.326	63.255	-0.034	0.0	0.3	0.1
3864	63.329	63.257	-0.031	0.0	0.3	0.1
3888	63.332	63.260	-0.028	0.0	0.3	0.1
3912	63.335	63.262	-0.025	0.0	0.3	0.1
3936	63.338	63.265	-0.022	0.0	0.3	0.1
3960	63.341	63.267	-0.019	0.0	0.3	0.1
3984	63.343	63.270	-0.017	0.0	0.3	0.1
4008	63.347	63.273	-0.013	0.0	0.3	0.1
4032	63.350	63.275	-0.010	0.0	0.3	0.1
4056	63.353	63.278	-0.007	0.0	0.3	0.1
4080	63.356	63.281	-0.004	0.0	0.3	0.1
4104	63.359	63.284	-0.001	0.0	0.3	0.1
4128	63.364	63.275	0.004	0.0	0.2	0.0
4152	63.370	63.260	0.010	0.0	0.2	0.0
4176	63.374	63.251	0.014	0.0	0.2	0.0
4200	63.378	63.250	0.018	0.0	0.2	0.1
4224	63.382	63.252	0.022	0.0	0.2	0.1
4248	63.386	63.251	0.026	0.0	0.2	0.1
4272	63.389	63.252	0.029	0.0	0.2	0.1
4296	63.392	63.255	0.032	0.0	0.3	0.1
4320	63.395	63.260	0.035	0.0	0.3	0.1
4344	63.399	63.266	0.039	0.0	0.3	0.1
4368	63.401	63.275	0.041	0.0	0.3	0.1
4392	63.404	63.285	0.044	0.0	0.3	0.1
4416	63.407	63.298	0.047	0.0	0.3	0.1
4440	63.409	63.311	0.049	0.0	0.3	0.1
4464	63.411	63.325	0.051	0.0	0.3	0.1
4488	63.413	63.338	0.053	0.0	0.3	0.1
4512	63.415	63.349	0.055	0.0	0.3	0.1
4536	63.418	63.357	0.058	0.0	0.3	0.1
4560	63.420	63.363	0.060	0.0	0.3	0.1
4584	63.423	63.367	0.063	0.0	0.3	0.1
4608	63.426	63.369	0.066	0.0	0.3	0.1
4632	63.428	63.372	0.068	0.0	0.3	0.1
4656	63.431	63.375	0.071	0.0	0.3	0.1
4680	63.434	63.378	0.074	0.0	0.3	0.1
4704	63.437	63.381	0.077	0.0	0.3	0.1
4728	63.439	63.383	0.079	0.0	0.3	0.1
4752	63.442	63.386	0.082	0.0	0.3	0.1
4776	63.444	63.388	0.084	0.0	0.3	0.1
4800	63.447	63.391	0.087	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.449	63.393	0.089	0.0	0.3	0.1
4848	63.451	63.396	0.091	0.0	0.3	0.1
4872	63.454	63.398	0.094	0.0	0.3	0.1
4896	63.456	63.400	0.096	0.0	0.2	0.1
4920	63.458	63.402	0.098	0.0	0.2	0.1
4944	63.460	63.404	0.100	0.0	0.1	0.1
4968	63.462	63.406	0.102	0.0	0.1	0.1
4992	63.464	63.408	0.104	0.0	0.1	0.1
5016	63.465	63.410	0.105	0.0	0.1	0.1
5040	63.467	63.412	0.107	0.0	0.1	0.1
5064	63.469	63.413	0.109	0.0	0.1	0.1
5088	63.470	63.415	0.110	0.0	0.1	0.1
5112	63.472	63.417	0.112	0.0	0.0	0.1
5136	63.473	63.418	0.113	0.0	0.0	0.1
5160	63.475	63.419	0.115	0.0	0.0	0.1
5184	63.476	63.421	0.116	0.0	0.0	0.1
5208	63.477	63.422	0.117	0.0	0.0	0.1
5232	63.478	63.423	0.118	0.0	0.0	0.1
5256	63.480	63.424	0.120	0.0	0.0	0.1
5280	63.481	63.426	0.121	0.0	0.0	0.1
5304	63.481	63.427	0.121	0.0	0.0	0.1
5328	63.482	63.428	0.122	0.0	0.0	0.1
5352	63.483	63.428	0.123	0.0	0.0	0.1
5376	63.484	63.429	0.124	0.0	0.0	0.1
5400	63.485	63.430	0.125	0.0	0.0	0.1
5424	63.485	63.431	0.125	0.0	0.0	0.1
5448	63.486	63.431	0.126	0.0	0.0	0.1
5472	63.486	63.432	0.126	0.0	0.0	0.1
5496	63.486	63.432	0.126	0.0	0.0	0.1
5520	63.487	63.433	0.127	0.0	0.0	0.1
5544	63.487	63.433	0.127	0.0	0.0	0.1
5568	63.487	63.433	0.127	0.0	0.0	0.1
5592	63.487	63.433	0.127	0.0	0.0	0.1
5616	63.487	63.434	0.127	0.0	0.0	0.1
5640	63.487	63.434	0.127	0.0	0.0	0.1
5664	63.487	63.434	0.127	0.0	0.0	0.1
5688	63.487	63.434	0.127	0.0	0.0	0.1
5712	63.487	63.434	0.127	0.0	0.0	0.1
5736	63.487	63.433	0.127	0.0	0.0	0.1
5760	63.486	63.433	0.126	0.0	0.0	0.1
5784	63.486	63.433	0.126	0.0	0.0	0.1
5808	63.486	63.432	0.126	0.0	0.0	0.1
5832	63.485	63.432	0.125	0.0	0.0	0.1
5856	63.484	63.432	0.124	0.0	0.0	0.1
5880	63.484	63.431	0.124	0.0	0.0	0.1
5904	63.483	63.431	0.123	0.0	0.0	0.1
5928	63.482	63.430	0.122	0.0	0.0	0.1
5952	63.482	63.429	0.122	0.0	0.0	0.1
5976	63.481	63.428	0.121	0.0	0.0	0.1
6000	63.480	63.428	0.120	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.479	63.427	0.119	0.0	0.0	0.1
6048	63.478	63.426	0.118	0.0	0.0	0.1
6072	63.477	63.425	0.117	0.0	0.0	0.1
6096	63.476	63.424	0.116	0.0	0.0	0.1
6120	63.475	63.423	0.115	0.0	0.0	0.1
6144	63.473	63.422	0.113	0.0	0.0	0.1
6168	63.472	63.421	0.112	0.0	0.0	0.1
6192	63.471	63.420	0.111	0.0	0.0	0.1
6216	63.470	63.418	0.110	0.0	0.0	0.1
6240	63.468	63.417	0.108	0.0	0.0	0.1
6264	63.467	63.416	0.107	0.0	0.0	0.1
6288	63.465	63.414	0.105	0.0	0.0	0.1
6312	63.464	63.413	0.104	0.0	0.1	0.1
6336	63.462	63.412	0.102	0.0	0.1	0.1
6360	63.461	63.410	0.101	0.0	0.1	0.1
6384	63.459	63.409	0.099	0.0	0.1	0.1
6408	63.458	63.407	0.098	0.0	0.1	0.1
6432	63.456	63.406	0.096	0.0	0.1	0.1
6456	63.454	63.404	0.094	0.0	0.1	0.1
6480	63.453	63.403	0.093	0.0	0.1	0.1
6504	63.451	63.401	0.091	0.0	0.1	0.1
6528	63.449	63.399	0.089	0.0	0.2	0.1
6552	63.447	63.398	0.087	0.0	0.2	0.1
6576	63.445	63.396	0.085	0.0	0.3	0.1
6600	63.444	63.394	0.084	0.0	0.2	0.1
6624	63.442	63.392	0.082	0.0	0.3	0.1
6648	63.440	63.390	0.080	0.0	0.3	0.1
6672	63.438	63.389	0.078	0.0	0.3	0.1
6696	63.436	63.387	0.076	0.0	0.3	0.1
6720	63.434	63.385	0.074	0.0	0.3	0.1
6744	63.432	63.383	0.072	0.0	0.2	0.1
6768	63.430	63.381	0.070	0.0	0.2	0.1
6792	63.428	63.379	0.068	0.0	0.2	0.1
6816	63.426	63.377	0.066	0.0	0.2	0.1
6840	63.424	63.375	0.064	0.0	0.2	0.1
6864	63.422	63.373	0.062	0.0	0.3	0.1
6888	63.420	63.371	0.060	0.0	0.2	0.1
6912	63.418	63.370	0.058	0.0	0.2	0.1
6936	63.416	63.368	0.056	0.0	0.2	0.1
6960	63.414	63.366	0.054	0.0	0.2	0.1
6984	63.412	63.364	0.052	0.0	0.2	0.1
7008	63.410	63.362	0.050	0.0	0.2	0.1
7032	63.408	63.360	0.048	0.0	0.2	0.1
7056	63.405	63.358	0.045	0.0	0.2	0.1
7080	63.403	63.356	0.043	0.0	0.2	0.1
7104	63.401	63.354	0.041	0.0	0.2	0.1
7128	63.399	63.352	0.039	0.0	0.2	0.1
7152	63.397	63.350	0.037	0.0	0.2	0.1
7176	63.395	63.347	0.035	0.0	0.2	0.1
7200	63.393	63.344	0.033	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.391	63.341	0.031	0.0	0.2	0.1
7248	63.389	63.338	0.029	0.0	0.2	0.1
7272	63.387	63.335	0.027	0.0	0.2	0.1
7296	63.385	63.331	0.025	0.0	0.2	0.1
7320	63.383	63.328	0.023	0.0	0.2	0.1
7344	63.382	63.324	0.022	0.0	0.2	0.1
7368	63.380	63.319	0.020	0.0	0.2	0.1
7392	63.378	63.313	0.018	0.0	0.2	0.1
7416	63.377	63.306	0.017	0.0	0.2	0.1
7440	63.375	63.299	0.015	0.0	0.2	0.1
7464	63.374	63.291	0.014	0.0	0.2	0.1
7488	63.373	63.282	0.013	0.0	0.2	0.1
7512	63.372	63.273	0.012	0.0	0.2	0.1
7536	63.371	63.263	0.011	0.0	0.2	0.0
7560	63.370	63.252	0.010	0.0	0.2	0.0
7584	63.368	63.252	0.008	0.0	0.2	0.1
7608	63.366	63.252	0.006	0.0	0.2	0.1
7632	63.364	63.250	0.004	0.0	0.2	0.1
7656	63.362	63.252	0.002	0.0	0.2	0.1
7680	63.359	63.254	-0.001	0.0	0.2	0.1
7704	63.356	63.268	-0.004	0.0	0.3	0.1
7728	63.353	63.275	-0.007	0.0	0.3	0.1
7752	63.351	63.278	-0.009	0.0	0.3	0.1
7776	63.349	63.279	-0.011	0.0	0.3	0.1
7800	63.347	63.279	-0.013	0.0	0.2	0.1
7824	63.344	63.279	-0.016	0.0	0.2	0.1
7848	63.342	63.277	-0.018	0.0	0.2	0.1
7872	63.341	63.276	-0.019	0.0	0.2	0.1
7896	63.339	63.274	-0.021	0.0	0.2	0.1
7920	63.337	63.273	-0.023	0.0	0.2	0.1
7944	63.335	63.271	-0.025	0.0	0.2	0.1
7968	63.333	63.269	-0.027	0.0	0.2	0.1
7992	63.331	63.267	-0.029	0.0	0.2	0.1
8016	63.329	63.265	-0.031	0.0	0.2	0.1
8040	63.327	63.264	-0.033	0.0	0.2	0.1
8064	63.325	63.262	-0.035	0.0	0.2	0.1
8088	63.323	63.260	-0.037	0.0	0.2	0.1
8112	63.321	63.258	-0.039	0.0	0.2	0.1
8136	63.319	63.256	-0.041	0.0	0.2	0.1
8160	63.317	63.255	-0.043	0.0	0.2	0.1
8184	63.315	63.253	-0.045	0.0	0.2	0.1
8208	63.313	63.251	-0.047	0.0	0.2	0.1
8232	63.310	63.254	-0.050	0.0	0.2	0.1
8256	63.308	63.250	-0.052	0.0	0.2	0.1
8280	63.306	63.250	-0.054	0.0	0.2	0.1
8304	63.303	63.250	-0.057	0.0	0.3	0.1
8328	63.301	63.251	-0.059	0.0	0.2	0.1
8352	63.298	63.251	-0.062	0.0	0.2	0.1
8376	63.296	63.252	-0.064	0.0	0.2	0.1
8400	63.293	63.251	-0.067	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.290	63.251	-0.070	0.0	0.2	0.1
8448	63.288	63.250	-0.072	0.0	0.2	0.1
8472	63.285	63.250	-0.075	0.0	0.2	0.1
8496	63.282	63.249	-0.078	0.0	0.2	0.1
8520	63.280	63.250	-0.080	0.0	0.2	0.1
8544	63.277	63.249	-0.083	0.0	0.2	0.1
8568	63.274	63.248	-0.086	0.0	0.2	0.1
8592	63.271	63.248	-0.089	0.0	0.2	0.1
8616	63.268	63.243	-0.092	0.0	0.2	0.1
8640	63.266	63.234	-0.094	0.0	0.2	0.0
8664	63.264	63.220	-0.096	0.0	0.2	0.0
8688	63.263	63.205	-0.097	0.0	0.1	0.0
8712	63.262	63.188	-0.098	0.0	0.1	0.0
8736	63.261	63.171	-0.099	0.0	0.1	0.0
8760	63.260	63.152	-0.100	0.0	0.1	0.0
8784	63.259	63.134	-0.101	0.0	0.1	0.0
8808	63.258	63.124	-0.102	0.0	0.1	0.0
8832	63.258	63.118	-0.102	0.0	0.0	0.0
8856	63.257	63.114	-0.103	0.0	0.0	0.0
8880	63.257	63.111	-0.103	0.0	0.0	0.0
8904	63.256	63.109	-0.104	0.0	0.0	0.0
8928	63.256	63.108	-0.104	0.0	0.0	0.0
8952	63.256	63.107	-0.104	0.0	0.0	0.0
8976	63.255	63.106	-0.105	0.0	0.0	0.0
9000	63.255	63.105	-0.105	0.0	0.0	0.0
9024	63.255	63.105	-0.105	0.0	0.0	0.0
9048	63.255	63.104	-0.105	0.0	0.0	0.0
9072	63.255	63.104	-0.105	0.0	0.0	0.0
9096	63.254	63.103	-0.106	0.0	0.0	0.0
9120	63.254	63.103	-0.106	0.0	0.0	0.0
9144	63.254	63.103	-0.106	0.0	0.0	0.0
9168	63.254	63.103	-0.106	0.0	0.0	0.0
9192	63.254	63.102	-0.106	0.0	0.0	0.0
9216	63.254	63.102	-0.106	0.0	0.0	0.0
9240	63.253	63.102	-0.107	0.0	0.0	0.0
9264	63.253	63.102	-0.107	0.0	0.0	0.0
9288	63.253	63.102	-0.107	0.0	0.0	0.0
9312	63.253	63.102	-0.107	0.0	0.0	0.0
9336	63.253	63.102	-0.107	0.0	0.0	0.0
9360	63.253	63.102	-0.107	0.0	0.0	0.0
9384	63.253	63.101	-0.107	0.0	0.0	0.0
9408	63.253	63.101	-0.107	0.0	0.0	0.0
9432	63.253	63.101	-0.107	0.0	0.0	0.0
9456	63.253	63.101	-0.107	0.0	0.0	0.0
9480	63.253	63.101	-0.107	0.0	0.0	0.0
9504	63.253	63.101	-0.107	0.0	0.0	0.0
9528	63.252	63.101	-0.108	0.0	0.0	0.0
9552	63.252	63.101	-0.108	0.0	0.0	0.0
9576	63.252	63.101	-0.108	0.0	0.0	0.0
9600	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.252	63.101	-0.108	0.0	0.0	0.0
9648	63.252	63.101	-0.108	0.0	0.0	0.0
9672	63.252	63.101	-0.108	0.0	0.0	0.0
9696	63.252	63.101	-0.108	0.0	0.0	0.0
9720	63.252	63.101	-0.108	0.0	0.0	0.0
9744	63.252	63.101	-0.108	0.0	0.0	0.0
9768	63.252	63.101	-0.108	0.0	0.0	0.0
9792	63.252	63.101	-0.108	0.0	0.0	0.0
9816	63.252	63.101	-0.108	0.0	0.0	0.0
9840	63.252	63.101	-0.108	0.0	0.0	0.0
9864	63.252	63.101	-0.108	0.0	0.0	0.0
9888	63.252	63.101	-0.108	0.0	0.0	0.0
9912	63.252	63.101	-0.108	0.0	0.0	0.0
9936	63.252	63.101	-0.108	0.0	0.0	0.0
9960	63.252	63.101	-0.108	0.0	0.0	0.0
9984	63.252	63.101	-0.108	0.0	0.0	0.0
10008	63.252	63.101	-0.108	0.0	0.0	0.0
10032	63.252	63.101	-0.108	0.0	0.0	0.0
10056	63.252	63.101	-0.108	0.0	0.0	0.0
10080	63.252	63.100	-0.108	0.0	0.0	0.0
10104	63.252	63.100	-0.108	0.0	0.0	0.0
10128	63.251	63.100	-0.109	0.0	0.0	0.0
10152	63.251	63.100	-0.109	0.0	0.0	0.0
10176	63.251	63.100	-0.109	0.0	0.0	0.0
10200	63.251	63.100	-0.109	0.0	0.0	0.0
10224	63.251	63.100	-0.109	0.0	0.0	0.0
10248	63.251	63.100	-0.109	0.0	0.0	0.0
10272	63.251	63.100	-0.109	0.0	0.0	0.0
10296	63.251	63.100	-0.109	0.0	0.0	0.0
10320	63.251	63.100	-0.109	0.0	0.0	0.0
10344	63.251	63.100	-0.109	0.0	0.0	0.0
10368	63.251	63.100	-0.109	0.0	0.0	0.0
10392	63.251	63.100	-0.109	0.0	0.0	0.0
10416	63.251	63.100	-0.109	0.0	0.0	0.0
10440	63.251	63.100	-0.109	0.0	0.0	0.0
10464	63.251	63.100	-0.109	0.0	0.0	0.0
10488	63.251	63.100	-0.109	0.0	0.0	0.0
10512	63.251	63.100	-0.109	0.0	0.0	0.0
10536	63.251	63.100	-0.109	0.0	0.0	0.0
10560	63.251	63.100	-0.109	0.0	0.0	0.0
10584	63.251	63.100	-0.109	0.0	0.0	0.0
10608	63.251	63.100	-0.109	0.0	0.0	0.0
10632	63.251	63.100	-0.109	0.0	0.0	0.0
10656	63.251	63.100	-0.109	0.0	0.0	0.0
10680	63.251	63.100	-0.109	0.0	0.0	0.0
10704	63.251	63.100	-0.109	0.0	0.0	0.0
10728	63.251	63.100	-0.109	0.0	0.0	0.0
10752	63.251	63.100	-0.109	0.0	0.0	0.0
10776	63.251	63.100	-0.109	0.0	0.0	0.0
10800	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.251	63.100	-0.109	0.0	0.0	0.0
10848	63.251	63.100	-0.109	0.0	0.0	0.0
10872	63.251	63.100	-0.109	0.0	0.0	0.0
10896	63.251	63.100	-0.109	0.0	0.0	0.0
10920	63.251	63.100	-0.109	0.0	0.0	0.0
10944	63.251	63.100	-0.109	0.0	0.0	0.0
10968	63.251	63.100	-0.109	0.0	0.0	0.0
10992	63.251	63.100	-0.109	0.0	0.0	0.0
11016	63.251	63.100	-0.109	0.0	0.0	0.0
11040	63.251	63.100	-0.109	0.0	0.0	0.0
11064	63.251	63.100	-0.109	0.0	0.0	0.0
11088	63.251	63.100	-0.109	0.0	0.0	0.0
11112	63.251	63.100	-0.109	0.0	0.0	0.0
11136	63.251	63.100	-0.109	0.0	0.0	0.0
11160	63.251	63.100	-0.109	0.0	0.0	0.0
11184	63.251	63.100	-0.109	0.0	0.0	0.0
11208	63.251	63.100	-0.109	0.0	0.0	0.0
11232	63.251	63.100	-0.109	0.0	0.0	0.0
11256	63.251	63.100	-0.109	0.0	0.0	0.0
11280	63.251	63.100	-0.109	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.251	63.100	-0.109	0.0	0.0	0.0
12408	63.251	63.100	-0.109	0.0	0.0	0.0
12432	63.251	63.100	-0.109	0.0	0.0	0.0
12456	63.251	63.100	-0.109	0.0	0.0	0.0
12480	63.251	63.100	-0.109	0.0	0.0	0.0
12504	63.251	63.100	-0.109	0.0	0.0	0.0
12528	63.251	63.100	-0.109	0.0	0.0	0.0
12552	63.251	63.100	-0.109	0.0	0.0	0.0
12576	63.251	63.100	-0.109	0.0	0.0	0.0
12600	63.251	63.100	-0.109	0.0	0.0	0.0
12624	63.251	63.100	-0.109	0.0	0.0	0.0
12648	63.251	63.100	-0.109	0.0	0.0	0.0
12672	63.251	63.100	-0.109	0.0	0.0	0.0
12696	63.251	63.100	-0.109	0.0	0.0	0.0
12720	63.251	63.100	-0.109	0.0	0.0	0.0
12744	63.251	63.100	-0.109	0.0	0.0	0.0
12768	63.251	63.100	-0.109	0.0	0.0	0.0
12792	63.251	63.100	-0.109	0.0	0.0	0.0
12816	63.251	63.100	-0.109	0.0	0.0	0.0
12840	63.251	63.100	-0.109	0.0	0.0	0.0
12864	63.251	63.100	-0.109	0.0	0.0	0.0
12888	63.251	63.100	-0.109	0.0	0.0	0.0
12912	63.251	63.100	-0.109	0.0	0.0	0.0
12936	63.251	63.100	-0.109	0.0	0.0	0.0
12960	63.251	63.100	-0.109	0.0	0.0	0.0
12984	63.251	63.100	-0.109	0.0	0.0	0.0
13008	63.251	63.100	-0.109	0.0	0.0	0.0
13032	63.251	63.100	-0.109	0.0	0.0	0.0
13056	63.251	63.100	-0.109	0.0	0.0	0.0
13080	63.251	63.100	-0.109	0.0	0.0	0.0
13104	63.251	63.100	-0.109	0.0	0.0	0.0
13128	63.251	63.100	-0.109	0.0	0.0	0.0
13152	63.251	63.100	-0.109	0.0	0.0	0.0
13176	63.250	63.100	-0.110	0.0	0.0	0.0
13200	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.250	63.100	-0.110	0.0	0.0	0.0
13248	63.250	63.100	-0.110	0.0	0.0	0.0
13272	63.250	63.100	-0.110	0.0	0.0	0.0
13296	63.250	63.100	-0.110	0.0	0.0	0.0
13320	63.250	63.100	-0.110	0.0	0.0	0.0
13344	63.250	63.100	-0.110	0.0	0.0	0.0
13368	63.250	63.100	-0.110	0.0	0.0	0.0
13392	63.250	63.100	-0.110	0.0	0.0	0.0
13416	63.250	63.100	-0.110	0.0	0.0	0.0
13440	63.250	63.100	-0.110	0.0	0.0	0.0
13464	63.250	63.100	-0.110	0.0	0.0	0.0
13488	63.250	63.100	-0.110	0.0	0.0	0.0
13512	63.250	63.100	-0.110	0.0	0.0	0.0
13536	63.250	63.100	-0.110	0.0	0.0	0.0
13560	63.250	63.100	-0.110	0.0	0.0	0.0
13584	63.250	63.100	-0.110	0.0	0.0	0.0
13608	63.250	63.100	-0.110	0.0	0.0	0.0
13632	63.250	63.100	-0.110	0.0	0.0	0.0
13656	63.250	63.100	-0.110	0.0	0.0	0.0
13680	63.250	63.100	-0.110	0.0	0.0	0.0
13704	63.250	63.100	-0.110	0.0	0.0	0.0
13728	63.250	63.100	-0.110	0.0	0.0	0.0
13752	63.250	63.100	-0.110	0.0	0.0	0.0
13776	63.250	63.100	-0.110	0.0	0.0	0.0
13800	63.250	63.100	-0.110	0.0	0.0	0.0
13824	63.250	63.100	-0.110	0.0	0.0	0.0
13848	63.250	63.100	-0.110	0.0	0.0	0.0
13872	63.250	63.100	-0.110	0.0	0.0	0.0
13896	63.250	63.100	-0.110	0.0	0.0	0.0
13920	63.250	63.100	-0.110	0.0	0.0	0.0
13944	63.250	63.100	-0.110	0.0	0.0	0.0
13968	63.250	63.100	-0.110	0.0	0.0	0.0
13992	63.250	63.100	-0.110	0.0	0.0	0.0
14016	63.250	63.100	-0.110	0.0	0.0	0.0
14040	63.250	63.100	-0.110	0.0	0.0	0.0
14064	63.250	63.100	-0.110	0.0	0.0	0.0
14088	63.250	63.100	-0.110	0.0	0.0	0.0
14112	63.250	63.100	-0.110	0.0	0.0	0.0
14136	63.250	63.100	-0.110	0.0	0.0	0.0
14160	63.250	63.100	-0.110	0.0	0.0	0.0
14184	63.250	63.100	-0.110	0.0	0.0	0.0
14208	63.250	63.100	-0.110	0.0	0.0	0.0
14232	63.250	63.100	-0.110	0.0	0.0	0.0
14256	63.250	63.100	-0.110	0.0	0.0	0.0
14280	63.250	63.100	-0.110	0.0	0.0	0.0
14304	63.250	63.100	-0.110	0.0	0.0	0.0
14328	63.250	63.100	-0.110	0.0	0.0	0.0
14352	63.250	63.100	-0.110	0.0	0.0	0.0
14376	63.250	63.100	-0.110	0.0	0.0	0.0
14400	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.250	63.100	-0.110	0.0	0.0	0.0
14448	63.250	63.100	-0.110	0.0	0.0	0.0
14472	63.250	63.100	-0.110	0.0	0.0	0.0
14496	63.250	63.100	-0.110	0.0	0.0	0.0
14520	63.250	63.100	-0.110	0.0	0.0	0.0
14544	63.250	63.100	-0.110	0.0	0.0	0.0
14568	63.250	63.100	-0.110	0.0	0.0	0.0
14592	63.250	63.100	-0.110	0.0	0.0	0.0
14616	63.250	63.100	-0.110	0.0	0.0	0.0
14640	63.250	63.100	-0.110	0.0	0.0	0.0
14664	63.250	63.100	-0.110	0.0	0.0	0.0
14688	63.250	63.100	-0.110	0.0	0.0	0.0
14712	63.250	63.100	-0.110	0.0	0.0	0.0
14736	63.250	63.100	-0.110	0.0	0.0	0.0
14760	63.250	63.100	-0.110	0.0	0.0	0.0
14784	63.250	63.100	-0.110	0.0	0.0	0.0
14808	63.250	63.100	-0.110	0.0	0.0	0.0
14832	63.250	63.100	-0.110	0.0	0.0	0.0
14856	63.250	63.100	-0.110	0.0	0.0	0.0
14880	63.250	63.100	-0.110	0.0	0.0	0.0
14904	63.250	63.100	-0.110	0.0	0.0	0.0
14928	63.250	63.100	-0.110	0.0	0.0	0.0
14952	63.250	63.100	-0.110	0.0	0.0	0.0
14976	63.250	63.100	-0.110	0.0	0.0	0.0
15000	63.250	63.100	-0.110	0.0	0.0	0.0
15024	63.250	63.100	-0.110	0.0	0.0	0.0
15048	63.250	63.100	-0.110	0.0	0.0	0.0
15072	63.250	63.100	-0.110	0.0	0.0	0.0
15096	63.250	63.100	-0.110	0.0	0.0	0.0
15120	63.250	63.100	-0.110	0.0	0.0	0.0
15144	63.250	63.100	-0.110	0.0	0.0	0.0
15168	63.250	63.100	-0.110	0.0	0.0	0.0
15192	63.250	63.100	-0.110	0.0	0.0	0.0
15216	63.250	63.100	-0.110	0.0	0.0	0.0
15240	63.250	63.100	-0.110	0.0	0.0	0.0
15264	63.250	63.100	-0.110	0.0	0.0	0.0
15288	63.250	63.100	-0.110	0.0	0.0	0.0
15312	63.250	63.100	-0.110	0.0	0.0	0.0
15336	63.250	63.100	-0.110	0.0	0.0	0.0
15360	63.250	63.100	-0.110	0.0	0.0	0.0
15384	63.250	63.100	-0.110	0.0	0.0	0.0
15408	63.250	63.100	-0.110	0.0	0.0	0.0
15432	63.250	63.100	-0.110	0.0	0.0	0.0
15456	63.250	63.100	-0.110	0.0	0.0	0.0
15480	63.250	63.100	-0.110	0.0	0.0	0.0
15504	63.250	63.100	-0.110	0.0	0.0	0.0
15528	63.250	63.100	-0.110	0.0	0.0	0.0
15552	63.250	63.100	-0.110	0.0	0.0	0.0
15576	63.250	63.100	-0.110	0.0	0.0	0.0
15600	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.250	63.100	-0.110	0.0	0.0	0.0
15648	63.250	63.100	-0.110	0.0	0.0	0.0
15672	63.250	63.100	-0.110	0.0	0.0	0.0
15696	63.250	63.100	-0.110	0.0	0.0	0.0
15720	63.250	63.100	-0.110	0.0	0.0	0.0
15744	63.250	63.100	-0.110	0.0	0.0	0.0
15768	63.250	63.100	-0.110	0.0	0.0	0.0
15792	63.250	63.100	-0.110	0.0	0.0	0.0
15816	63.250	63.100	-0.110	0.0	0.0	0.0
15840	63.250	63.100	-0.110	0.0	0.0	0.0
15864	63.250	63.100	-0.110	0.0	0.0	0.0
15888	63.250	63.100	-0.110	0.0	0.0	0.0
15912	63.250	63.100	-0.110	0.0	0.0	0.0
15936	63.250	63.100	-0.110	0.0	0.0	0.0
15960	63.250	63.100	-0.110	0.0	0.0	0.0
15984	63.250	63.100	-0.110	0.0	0.0	0.0
16008	63.250	63.100	-0.110	0.0	0.0	0.0
16032	63.250	63.100	-0.110	0.0	0.0	0.0
16056	63.250	63.100	-0.110	0.0	0.0	0.0
16080	63.250	63.100	-0.110	0.0	0.0	0.0
16104	63.250	63.100	-0.110	0.0	0.0	0.0
16128	63.250	63.100	-0.110	0.0	0.0	0.0
16152	63.250	63.100	-0.110	0.0	0.0	0.0
16176	63.250	63.100	-0.110	0.0	0.0	0.0
16200	63.250	63.100	-0.110	0.0	0.0	0.0
16224	63.250	63.100	-0.110	0.0	0.0	0.0
16248	63.250	63.100	-0.110	0.0	0.0	0.0
16272	63.250	63.100	-0.110	0.0	0.0	0.0
16296	63.250	63.100	-0.110	0.0	0.0	0.0
16320	63.250	63.100	-0.110	0.0	0.0	0.0
16344	63.250	63.100	-0.110	0.0	0.0	0.0
16368	63.250	63.100	-0.110	0.0	0.0	0.0
16392	63.250	63.100	-0.110	0.0	0.0	0.0
16416	63.250	63.100	-0.110	0.0	0.0	0.0
16440	63.250	63.100	-0.110	0.0	0.0	0.0
16464	63.250	63.100	-0.110	0.0	0.0	0.0
16488	63.250	63.100	-0.110	0.0	0.0	0.0
16512	63.250	63.100	-0.110	0.0	0.0	0.0
16536	63.250	63.100	-0.110	0.0	0.0	0.0
16560	63.250	63.100	-0.110	0.0	0.0	0.0
16584	63.250	63.100	-0.110	0.0	0.0	0.0
16608	63.250	63.100	-0.110	0.0	0.0	0.0
16632	63.250	63.100	-0.110	0.0	0.0	0.0
16656	63.250	63.100	-0.110	0.0	0.0	0.0
16680	63.250	63.100	-0.110	0.0	0.0	0.0
16704	63.250	63.100	-0.110	0.0	0.0	0.0
16728	63.250	63.100	-0.110	0.0	0.0	0.0
16752	63.250	63.100	-0.110	0.0	0.0	0.0
16776	63.250	63.100	-0.110	0.0	0.0	0.0
16800	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.250	63.100	-0.110	0.0	0.0	0.0
16848	63.250	63.100	-0.110	0.0	0.0	0.0
16872	63.250	63.100	-0.110	0.0	0.0	0.0
16896	63.250	63.100	-0.110	0.0	0.0	0.0
16920	63.250	63.100	-0.110	0.0	0.0	0.0
16944	63.250	63.100	-0.110	0.0	0.0	0.0
16968	63.250	63.100	-0.110	0.0	0.0	0.0
16992	63.250	63.100	-0.110	0.0	0.0	0.0
17016	63.250	63.100	-0.110	0.0	0.0	0.0
17040	63.250	63.100	-0.110	0.0	0.0	0.0
17064	63.250	63.100	-0.110	0.0	0.0	0.0
17088	63.250	63.100	-0.110	0.0	0.0	0.0
17112	63.250	63.100	-0.110	0.0	0.0	0.0
17136	63.250	63.100	-0.110	0.0	0.0	0.0
17160	63.250	63.100	-0.110	0.0	0.0	0.0
17184	63.250	63.100	-0.110	0.0	0.0	0.0
17208	63.250	63.100	-0.110	0.0	0.0	0.0
17232	63.250	63.100	-0.110	0.0	0.0	0.0
17256	63.250	63.100	-0.110	0.0	0.0	0.0
17280	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.100	63.096	-0.110	0.0	0.0	0.0
144	63.100	63.096	-0.110	0.0	0.0	0.0
168	63.100	63.096	-0.110	0.0	0.0	0.0
192	63.100	63.096	-0.110	0.0	0.0	0.0
216	63.100	63.096	-0.110	0.0	0.0	0.0
240	63.100	63.096	-0.110	0.0	0.0	0.0
264	63.100	63.096	-0.110	0.0	0.0	0.0
288	63.100	63.096	-0.110	0.0	0.0	0.0
312	63.100	63.096	-0.110	0.0	0.0	0.0
336	63.100	63.096	-0.110	0.0	0.0	0.0
360	63.100	63.096	-0.110	0.0	0.0	0.0
384	63.100	63.096	-0.110	0.0	0.0	0.0
408	63.100	63.096	-0.110	0.0	0.0	0.0
432	63.100	63.096	-0.110	0.0	0.0	0.0
456	63.101	63.096	-0.109	0.0	0.0	0.0
480	63.101	63.096	-0.109	0.0	0.0	0.0
504	63.101	63.096	-0.109	0.0	0.0	0.0
528	63.101	63.096	-0.109	0.0	0.0	0.0
552	63.101	63.096	-0.109	0.0	0.0	0.0
576	63.101	63.096	-0.109	0.0	0.0	0.0
600	63.101	63.096	-0.109	0.0	0.0	0.0
624	63.101	63.096	-0.109	0.0	0.0	0.0
648	63.102	63.096	-0.108	0.0	0.0	0.0
672	63.102	63.096	-0.108	0.0	0.0	0.0
696	63.102	63.096	-0.108	0.0	0.0	0.0
720	63.102	63.096	-0.108	0.0	0.0	0.0
744	63.102	63.096	-0.108	0.0	0.0	0.0
768	63.103	63.096	-0.107	0.0	0.0	0.0
792	63.103	63.096	-0.107	0.0	0.0	0.0
816	63.103	63.096	-0.107	0.0	0.0	0.0
840	63.103	63.096	-0.107	0.0	0.0	0.0
864	63.103	63.096	-0.107	0.0	0.0	0.0
888	63.103	63.096	-0.107	0.0	0.0	0.0
912	63.104	63.096	-0.106	0.0	0.0	0.0
936	63.104	63.096	-0.106	0.0	0.0	0.0
960	63.104	63.096	-0.106	0.0	0.0	0.0
984	63.104	63.096	-0.106	0.0	0.0	0.0
1008	63.104	63.096	-0.106	0.0	0.0	0.0
1032	63.104	63.096	-0.106	0.0	0.0	0.0
1056	63.104	63.096	-0.106	0.0	0.0	0.0
1080	63.104	63.096	-0.106	0.0	0.0	0.0
1104	63.104	63.096	-0.106	0.0	0.0	0.0
1128	63.104	63.096	-0.106	0.0	0.0	0.0
1152	63.105	63.096	-0.105	0.0	0.0	0.0
1176	63.105	63.096	-0.105	0.0	0.0	0.0
1200	63.105	63.096	-0.105	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.105	63.096	-0.105	0.0	0.0	0.0
1248	63.105	63.096	-0.105	0.0	0.0	0.0
1272	63.105	63.096	-0.105	0.0	0.0	0.0
1296	63.105	63.096	-0.105	0.0	0.0	0.0
1320	63.105	63.096	-0.105	0.0	0.0	0.0
1344	63.105	63.096	-0.105	0.0	0.0	0.0
1368	63.105	63.096	-0.105	0.0	0.0	0.0
1392	63.105	63.096	-0.105	0.0	0.0	0.0
1416	63.105	63.096	-0.105	0.0	0.0	0.0
1440	63.105	63.096	-0.105	0.0	0.0	0.0
1464	63.105	63.096	-0.105	0.0	0.0	0.0
1488	63.105	63.096	-0.105	0.0	0.0	0.0
1512	63.105	63.096	-0.105	0.0	0.0	0.0
1536	63.105	63.096	-0.105	0.0	0.0	0.0
1560	63.105	63.096	-0.105	0.0	0.0	0.0
1584	63.105	63.096	-0.105	0.0	0.0	0.0
1608	63.106	63.096	-0.104	0.0	0.0	0.0
1632	63.106	63.096	-0.104	0.0	0.0	0.0
1656	63.107	63.096	-0.103	0.0	0.0	0.0
1680	63.108	63.096	-0.102	0.0	0.0	0.0
1704	63.108	63.096	-0.102	0.0	0.0	0.0
1728	63.109	63.096	-0.101	0.0	0.0	0.0
1752	63.110	63.096	-0.100	0.0	0.0	0.0
1776	63.111	63.096	-0.099	0.0	0.0	0.0
1800	63.112	63.096	-0.098	0.0	0.0	0.0
1824	63.113	63.096	-0.097	0.0	0.0	0.0
1848	63.114	63.096	-0.096	0.0	0.0	0.0
1872	63.114	63.096	-0.096	0.0	0.0	0.0
1896	63.115	63.096	-0.095	0.0	0.0	0.0
1920	63.115	63.096	-0.095	0.0	0.0	0.0
1944	63.116	63.096	-0.094	0.0	0.0	0.0
1968	63.116	63.096	-0.094	0.0	0.0	0.0
1992	63.116	63.096	-0.094	0.0	0.0	0.0
2016	63.117	63.096	-0.093	0.0	0.0	0.0
2040	63.118	63.096	-0.092	0.0	0.0	0.0
2064	63.118	63.096	-0.092	0.0	0.0	0.0
2088	63.119	63.096	-0.091	0.0	0.0	0.0
2112	63.120	63.096	-0.090	0.0	0.0	0.0
2136	63.121	63.096	-0.089	0.0	0.0	0.0
2160	63.122	63.096	-0.088	0.0	0.0	0.0
2184	63.123	63.096	-0.087	0.0	0.0	0.0
2208	63.124	63.096	-0.086	0.0	0.0	0.0
2232	63.125	63.096	-0.085	0.0	0.0	0.0
2256	63.125	63.096	-0.085	0.0	0.0	0.0
2280	63.126	63.096	-0.084	0.0	0.0	0.0
2304	63.127	63.096	-0.083	0.0	0.0	0.0
2328	63.128	63.096	-0.082	0.0	0.0	0.0
2352	63.129	63.096	-0.081	0.0	0.0	0.0
2376	63.130	63.096	-0.080	0.0	0.0	0.0
2400	63.130	63.096	-0.080	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.131	63.096	-0.079	0.0	0.0	0.0
2448	63.132	63.096	-0.078	0.0	0.0	0.0
2472	63.133	63.096	-0.077	0.0	0.0	0.0
2496	63.134	63.096	-0.076	0.0	0.0	0.0
2520	63.134	63.096	-0.076	0.0	0.0	0.0
2544	63.135	63.096	-0.075	0.0	0.0	0.0
2568	63.136	63.096	-0.074	0.0	0.0	0.0
2592	63.137	63.096	-0.073	0.0	0.0	0.0
2616	63.138	63.096	-0.072	0.0	0.0	0.0
2640	63.138	63.096	-0.072	0.0	0.0	0.0
2664	63.139	63.096	-0.071	0.0	0.0	0.0
2688	63.140	63.096	-0.070	0.0	0.0	0.0
2712	63.141	63.096	-0.069	0.0	0.0	0.0
2736	63.142	63.096	-0.068	0.0	0.0	0.0
2760	63.143	63.096	-0.067	0.0	0.0	0.0
2784	63.144	63.096	-0.066	0.0	0.0	0.0
2808	63.145	63.096	-0.065	0.0	0.0	0.0
2832	63.146	63.096	-0.064	0.0	0.0	0.0
2856	63.147	63.096	-0.063	0.0	0.0	0.0
2880	63.148	63.096	-0.062	0.0	0.0	0.0
2904	63.149	63.096	-0.061	0.0	0.0	0.0
2928	63.150	63.096	-0.060	0.0	0.0	0.0
2952	63.152	63.096	-0.058	0.0	0.0	0.0
2976	63.154	63.096	-0.056	0.0	0.0	0.0
3000	63.156	63.096	-0.054	0.0	0.0	0.0
3024	63.160	63.096	-0.050	0.0	0.0	0.0
3048	63.163	63.096	-0.047	0.0	0.0	0.0
3072	63.168	63.096	-0.042	0.0	0.0	0.0
3096	63.173	63.096	-0.037	0.0	0.0	0.0
3120	63.178	63.096	-0.032	0.0	0.0	0.0
3144	63.184	63.096	-0.026	0.0	0.0	0.0
3168	63.190	63.096	-0.020	0.0	0.0	0.0
3192	63.197	63.096	-0.013	0.0	0.0	0.0
3216	63.204	63.096	-0.006	0.0	0.0	0.0
3240	63.211	63.096	0.001	0.0	0.0	0.0
3264	63.218	63.096	0.008	0.0	0.0	0.0
3288	63.226	63.096	0.016	0.0	0.0	0.0
3312	63.234	63.096	0.024	0.0	0.0	0.0
3336	63.242	63.096	0.032	0.0	0.0	0.0
3360	63.250	63.096	0.040	0.0	0.0	0.0
3384	63.250	63.096	0.040	0.0	0.0	0.0
3408	63.249	63.096	0.039	0.0	0.0	0.0
3432	63.250	63.096	0.040	0.0	0.0	0.0
3456	63.248	63.096	0.038	0.0	0.0	0.0
3480	63.249	63.096	0.039	0.0	0.0	0.0
3504	63.249	63.096	0.039	0.0	0.0	0.0
3528	63.251	63.096	0.041	0.0	0.0	0.0
3552	63.250	63.096	0.040	0.0	0.0	0.0
3576	63.251	63.096	0.041	0.0	0.0	0.0
3600	63.250	63.096	0.040	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.251	63.096	0.041	0.0	0.0	0.0
3648	63.250	63.096	0.040	0.0	0.0	0.0
3672	63.250	63.096	0.040	0.0	0.0	0.0
3696	63.252	63.096	0.042	0.0	0.0	0.0
3720	63.252	63.096	0.042	0.0	0.0	0.0
3744	63.251	63.096	0.041	0.0	0.0	0.0
3768	63.251	63.096	0.041	0.0	0.0	0.0
3792	63.252	63.096	0.042	0.0	0.0	0.0
3816	63.253	63.096	0.043	0.0	0.0	0.0
3840	63.255	63.096	0.045	0.0	0.0	0.0
3864	63.257	63.096	0.047	0.0	0.0	0.0
3888	63.260	63.096	0.050	0.0	0.0	0.0
3912	63.262	63.096	0.052	0.0	0.0	0.0
3936	63.265	63.096	0.055	0.0	0.0	0.0
3960	63.267	63.096	0.057	0.0	0.0	0.0
3984	63.270	63.096	0.060	0.0	0.0	0.0
4008	63.273	63.096	0.063	0.0	0.0	0.0
4032	63.275	63.096	0.065	0.0	0.0	0.0
4056	63.278	63.096	0.068	0.0	0.0	0.0
4080	63.281	63.096	0.071	0.0	0.0	0.0
4104	63.284	63.096	0.074	0.0	0.0	0.0
4128	63.275	63.096	0.065	0.0	0.0	0.0
4152	63.260	63.096	0.050	0.0	0.0	0.0
4176	63.251	63.096	0.041	0.0	0.0	0.0
4200	63.250	63.096	0.040	0.0	0.0	0.0
4224	63.252	63.096	0.042	0.0	0.0	0.0
4248	63.251	63.096	0.041	0.0	0.0	0.0
4272	63.252	63.096	0.042	0.0	0.0	0.0
4296	63.255	63.096	0.045	0.0	0.0	0.0
4320	63.260	63.096	0.050	0.0	0.0	0.0
4344	63.266	63.096	0.056	0.0	0.0	0.0
4368	63.275	63.096	0.065	0.0	0.0	0.0
4392	63.285	63.096	0.075	0.0	0.0	0.0
4416	63.298	63.096	0.088	0.0	0.0	0.0
4440	63.311	63.096	0.101	0.0	0.0	0.0
4464	63.325	63.096	0.115	0.0	0.0	0.0
4488	63.338	63.096	0.128	0.0	0.1	0.0
4512	63.349	63.096	0.139	0.0	0.1	0.0
4536	63.357	63.096	0.147	0.0	0.1	0.0
4560	63.363	63.096	0.153	0.0	0.1	0.0
4584	63.367	63.096	0.157	0.0	0.1	0.0
4608	63.369	63.096	0.159	0.0	0.1	0.0
4632	63.372	63.096	0.162	0.0	0.1	0.0
4656	63.375	63.096	0.165	0.0	0.1	0.0
4680	63.378	63.096	0.168	0.0	0.1	0.0
4704	63.381	63.096	0.171	0.0	0.1	0.0
4728	63.383	63.096	0.173	0.0	0.1	0.0
4752	63.386	63.096	0.176	0.0	0.1	0.0
4776	63.388	63.096	0.178	0.0	0.1	0.0
4800	63.391	63.096	0.181	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.393	63.096	0.183	0.0	0.1	0.0
4848	63.396	63.096	0.186	0.0	0.1	0.0
4872	63.398	63.096	0.188	0.0	0.1	0.0
4896	63.400	63.096	0.190	0.0	0.1	0.0
4920	63.402	63.096	0.192	0.0	0.1	0.0
4944	63.404	63.096	0.194	0.0	0.1	0.0
4968	63.406	63.096	0.196	0.0	0.1	0.0
4992	63.408	63.096	0.198	0.0	0.1	0.0
5016	63.410	63.096	0.200	0.0	0.1	0.0
5040	63.412	63.096	0.202	0.0	0.1	0.0
5064	63.413	63.096	0.203	0.0	0.1	0.0
5088	63.415	63.096	0.205	0.0	0.1	0.0
5112	63.417	63.096	0.207	0.0	0.1	0.0
5136	63.418	63.096	0.208	0.0	0.1	0.0
5160	63.419	63.096	0.209	0.0	0.1	0.0
5184	63.421	63.096	0.211	0.0	0.1	0.0
5208	63.422	63.096	0.212	0.0	0.1	0.0
5232	63.423	63.096	0.213	0.0	0.1	0.0
5256	63.424	63.096	0.214	0.0	0.1	0.0
5280	63.426	63.096	0.216	0.0	0.1	0.0
5304	63.427	63.096	0.217	0.0	0.1	0.0
5328	63.428	63.096	0.218	0.0	0.1	0.0
5352	63.428	63.096	0.218	0.0	0.1	0.0
5376	63.429	63.096	0.219	0.0	0.1	0.0
5400	63.430	63.096	0.220	0.0	0.1	0.0
5424	63.431	63.096	0.221	0.0	0.1	0.0
5448	63.431	63.096	0.221	0.0	0.1	0.0
5472	63.432	63.096	0.222	0.0	0.1	0.0
5496	63.432	63.096	0.222	0.0	0.1	0.0
5520	63.433	63.096	0.223	0.0	0.1	0.0
5544	63.433	63.096	0.223	0.0	0.1	0.0
5568	63.433	63.096	0.223	0.0	0.1	0.0
5592	63.433	63.096	0.223	0.0	0.1	0.0
5616	63.434	63.096	0.224	0.0	0.1	0.0
5640	63.434	63.096	0.224	0.0	0.1	0.0
5664	63.434	63.096	0.224	0.0	0.1	0.0
5688	63.434	63.096	0.224	0.0	0.1	0.0
5712	63.434	63.096	0.224	0.0	0.1	0.0
5736	63.433	63.096	0.223	0.0	0.1	0.0
5760	63.433	63.096	0.223	0.0	0.1	0.0
5784	63.433	63.096	0.223	0.0	0.1	0.0
5808	63.432	63.096	0.222	0.0	0.1	0.0
5832	63.432	63.096	0.222	0.0	0.1	0.0
5856	63.432	63.096	0.222	0.0	0.1	0.0
5880	63.431	63.096	0.221	0.0	0.1	0.0
5904	63.431	63.096	0.221	0.0	0.1	0.0
5928	63.430	63.096	0.220	0.0	0.1	0.0
5952	63.429	63.096	0.219	0.0	0.1	0.0
5976	63.428	63.096	0.218	0.0	0.1	0.0
6000	63.428	63.096	0.218	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.427	63.096	0.217	0.0	0.1	0.0
6048	63.426	63.096	0.216	0.0	0.1	0.0
6072	63.425	63.096	0.215	0.0	0.1	0.0
6096	63.424	63.096	0.214	0.0	0.1	0.0
6120	63.423	63.096	0.213	0.0	0.1	0.0
6144	63.422	63.096	0.212	0.0	0.1	0.0
6168	63.421	63.096	0.211	0.0	0.1	0.0
6192	63.420	63.096	0.210	0.0	0.1	0.0
6216	63.418	63.096	0.208	0.0	0.1	0.0
6240	63.417	63.096	0.207	0.0	0.1	0.0
6264	63.416	63.096	0.206	0.0	0.1	0.0
6288	63.414	63.096	0.204	0.0	0.1	0.0
6312	63.413	63.096	0.203	0.0	0.1	0.0
6336	63.412	63.096	0.202	0.0	0.1	0.0
6360	63.410	63.096	0.200	0.0	0.1	0.0
6384	63.409	63.096	0.199	0.0	0.1	0.0
6408	63.407	63.096	0.197	0.0	0.1	0.0
6432	63.406	63.096	0.196	0.0	0.1	0.0
6456	63.404	63.096	0.194	0.0	0.1	0.0
6480	63.403	63.096	0.193	0.0	0.1	0.0
6504	63.401	63.096	0.191	0.0	0.1	0.0
6528	63.399	63.096	0.189	0.0	0.1	0.0
6552	63.398	63.096	0.188	0.0	0.1	0.0
6576	63.396	63.096	0.186	0.0	0.1	0.0
6600	63.394	63.096	0.184	0.0	0.1	0.0
6624	63.392	63.096	0.182	0.0	0.1	0.0
6648	63.390	63.096	0.180	0.0	0.1	0.0
6672	63.389	63.096	0.179	0.0	0.1	0.0
6696	63.387	63.096	0.177	0.0	0.1	0.0
6720	63.385	63.096	0.175	0.0	0.1	0.0
6744	63.383	63.096	0.173	0.0	0.1	0.0
6768	63.381	63.096	0.171	0.0	0.1	0.0
6792	63.379	63.096	0.169	0.0	0.1	0.0
6816	63.377	63.096	0.167	0.0	0.1	0.0
6840	63.375	63.096	0.165	0.0	0.1	0.0
6864	63.373	63.096	0.163	0.0	0.1	0.0
6888	63.371	63.096	0.161	0.0	0.1	0.0
6912	63.370	63.096	0.160	0.0	0.1	0.0
6936	63.368	63.096	0.158	0.0	0.1	0.0
6960	63.366	63.096	0.156	0.0	0.1	0.0
6984	63.364	63.096	0.154	0.0	0.1	0.0
7008	63.362	63.096	0.152	0.0	0.1	0.0
7032	63.360	63.096	0.150	0.0	0.1	0.0
7056	63.358	63.096	0.148	0.0	0.1	0.0
7080	63.356	63.096	0.146	0.0	0.1	0.0
7104	63.354	63.096	0.144	0.0	0.1	0.0
7128	63.352	63.096	0.142	0.0	0.1	0.0
7152	63.350	63.096	0.140	0.0	0.1	0.0
7176	63.347	63.096	0.137	0.0	0.1	0.0
7200	63.344	63.096	0.134	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.341	63.096	0.131	0.0	0.1	0.0
7248	63.338	63.096	0.128	0.0	0.1	0.0
7272	63.335	63.096	0.125	0.0	0.1	0.0
7296	63.331	63.096	0.121	0.0	0.1	0.0
7320	63.328	63.096	0.118	0.0	0.1	0.0
7344	63.324	63.096	0.114	0.0	0.0	0.0
7368	63.319	63.096	0.109	0.0	0.0	0.0
7392	63.313	63.096	0.103	0.0	0.0	0.0
7416	63.306	63.096	0.096	0.0	0.0	0.0
7440	63.299	63.096	0.089	0.0	0.0	0.0
7464	63.291	63.096	0.081	0.0	0.0	0.0
7488	63.282	63.096	0.072	0.0	0.0	0.0
7512	63.273	63.096	0.063	0.0	0.0	0.0
7536	63.263	63.096	0.053	0.0	0.0	0.0
7560	63.252	63.096	0.042	0.0	0.0	0.0
7584	63.252	63.096	0.042	0.0	0.0	0.0
7608	63.252	63.096	0.042	0.0	0.0	0.0
7632	63.250	63.096	0.040	0.0	0.0	0.0
7656	63.252	63.096	0.042	0.0	0.0	0.0
7680	63.254	63.096	0.044	0.0	0.0	0.0
7704	63.268	63.096	0.058	0.0	0.0	0.0
7728	63.275	63.096	0.065	0.0	0.0	0.0
7752	63.278	63.096	0.068	0.0	0.0	0.0
7776	63.279	63.096	0.069	0.0	0.0	0.0
7800	63.279	63.096	0.069	0.0	0.0	0.0
7824	63.279	63.096	0.069	0.0	0.0	0.0
7848	63.277	63.096	0.067	0.0	0.0	0.0
7872	63.276	63.096	0.066	0.0	0.0	0.0
7896	63.274	63.096	0.064	0.0	0.0	0.0
7920	63.273	63.096	0.063	0.0	0.0	0.0
7944	63.271	63.096	0.061	0.0	0.0	0.0
7968	63.269	63.096	0.059	0.0	0.0	0.0
7992	63.267	63.096	0.057	0.0	0.0	0.0
8016	63.265	63.096	0.055	0.0	0.0	0.0
8040	63.264	63.096	0.054	0.0	0.0	0.0
8064	63.262	63.096	0.052	0.0	0.0	0.0
8088	63.260	63.096	0.050	0.0	0.0	0.0
8112	63.258	63.096	0.048	0.0	0.0	0.0
8136	63.256	63.096	0.046	0.0	0.0	0.0
8160	63.255	63.096	0.045	0.0	0.0	0.0
8184	63.253	63.096	0.043	0.0	0.0	0.0
8208	63.251	63.096	0.041	0.0	0.0	0.0
8232	63.254	63.096	0.044	0.0	0.0	0.0
8256	63.250	63.096	0.040	0.0	0.0	0.0
8280	63.250	63.096	0.040	0.0	0.0	0.0
8304	63.250	63.096	0.040	0.0	0.0	0.0
8328	63.251	63.096	0.041	0.0	0.0	0.0
8352	63.251	63.096	0.041	0.0	0.0	0.0
8376	63.252	63.096	0.042	0.0	0.0	0.0
8400	63.251	63.096	0.041	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.251	63.096	0.041	0.0	0.0	0.0
8448	63.250	63.096	0.040	0.0	0.0	0.0
8472	63.250	63.096	0.040	0.0	0.0	0.0
8496	63.249	63.096	0.039	0.0	0.0	0.0
8520	63.250	63.096	0.040	0.0	0.0	0.0
8544	63.249	63.096	0.039	0.0	0.0	0.0
8568	63.248	63.096	0.038	0.0	0.0	0.0
8592	63.248	63.096	0.038	0.0	0.0	0.0
8616	63.243	63.096	0.033	0.0	0.0	0.0
8640	63.234	63.096	0.024	0.0	0.0	0.0
8664	63.220	63.096	0.010	0.0	0.0	0.0
8688	63.205	63.096	-0.005	0.0	0.0	0.0
8712	63.188	63.096	-0.022	0.0	0.0	0.0
8736	63.171	63.096	-0.039	0.0	0.0	0.0
8760	63.152	63.096	-0.058	0.0	0.0	0.0
8784	63.134	63.096	-0.076	0.0	0.0	0.0
8808	63.124	63.096	-0.086	0.0	0.0	0.0
8832	63.118	63.096	-0.092	0.0	0.0	0.0
8856	63.114	63.096	-0.096	0.0	0.0	0.0
8880	63.111	63.096	-0.099	0.0	0.0	0.0
8904	63.109	63.096	-0.101	0.0	0.0	0.0
8928	63.108	63.096	-0.102	0.0	0.0	0.0
8952	63.107	63.096	-0.103	0.0	0.0	0.0
8976	63.106	63.096	-0.104	0.0	0.0	0.0
9000	63.105	63.096	-0.105	0.0	0.0	0.0
9024	63.105	63.096	-0.105	0.0	0.0	0.0
9048	63.104	63.096	-0.106	0.0	0.0	0.0
9072	63.104	63.096	-0.106	0.0	0.0	0.0
9096	63.103	63.096	-0.107	0.0	0.0	0.0
9120	63.103	63.096	-0.107	0.0	0.0	0.0
9144	63.103	63.096	-0.107	0.0	0.0	0.0
9168	63.103	63.096	-0.107	0.0	0.0	0.0
9192	63.102	63.096	-0.108	0.0	0.0	0.0
9216	63.102	63.096	-0.108	0.0	0.0	0.0
9240	63.102	63.096	-0.108	0.0	0.0	0.0
9264	63.102	63.096	-0.108	0.0	0.0	0.0
9288	63.102	63.096	-0.108	0.0	0.0	0.0
9312	63.102	63.096	-0.108	0.0	0.0	0.0
9336	63.102	63.096	-0.108	0.0	0.0	0.0
9360	63.102	63.096	-0.108	0.0	0.0	0.0
9384	63.101	63.096	-0.109	0.0	0.0	0.0
9408	63.101	63.096	-0.109	0.0	0.0	0.0
9432	63.101	63.096	-0.109	0.0	0.0	0.0
9456	63.101	63.096	-0.109	0.0	0.0	0.0
9480	63.101	63.096	-0.109	0.0	0.0	0.0
9504	63.101	63.096	-0.109	0.0	0.0	0.0
9528	63.101	63.096	-0.109	0.0	0.0	0.0
9552	63.101	63.096	-0.109	0.0	0.0	0.0
9576	63.101	63.096	-0.109	0.0	0.0	0.0
9600	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.101	63.096	-0.109	0.0	0.0	0.0
9648	63.101	63.096	-0.109	0.0	0.0	0.0
9672	63.101	63.096	-0.109	0.0	0.0	0.0
9696	63.101	63.096	-0.109	0.0	0.0	0.0
9720	63.101	63.096	-0.109	0.0	0.0	0.0
9744	63.101	63.096	-0.109	0.0	0.0	0.0
9768	63.101	63.096	-0.109	0.0	0.0	0.0
9792	63.101	63.096	-0.109	0.0	0.0	0.0
9816	63.101	63.096	-0.109	0.0	0.0	0.0
9840	63.101	63.096	-0.109	0.0	0.0	0.0
9864	63.101	63.096	-0.109	0.0	0.0	0.0
9888	63.101	63.096	-0.109	0.0	0.0	0.0
9912	63.101	63.096	-0.109	0.0	0.0	0.0
9936	63.101	63.096	-0.109	0.0	0.0	0.0
9960	63.101	63.096	-0.109	0.0	0.0	0.0
9984	63.101	63.096	-0.109	0.0	0.0	0.0
10008	63.101	63.096	-0.109	0.0	0.0	0.0
10032	63.101	63.096	-0.109	0.0	0.0	0.0
10056	63.101	63.096	-0.109	0.0	0.0	0.0
10080	63.100	63.096	-0.110	0.0	0.0	0.0
10104	63.100	63.096	-0.110	0.0	0.0	0.0
10128	63.100	63.096	-0.110	0.0	0.0	0.0
10152	63.100	63.096	-0.110	0.0	0.0	0.0
10176	63.100	63.096	-0.110	0.0	0.0	0.0
10200	63.100	63.096	-0.110	0.0	0.0	0.0
10224	63.100	63.096	-0.110	0.0	0.0	0.0
10248	63.100	63.096	-0.110	0.0	0.0	0.0
10272	63.100	63.096	-0.110	0.0	0.0	0.0
10296	63.100	63.096	-0.110	0.0	0.0	0.0
10320	63.100	63.096	-0.110	0.0	0.0	0.0
10344	63.100	63.096	-0.110	0.0	0.0	0.0
10368	63.100	63.096	-0.110	0.0	0.0	0.0
10392	63.100	63.096	-0.110	0.0	0.0	0.0
10416	63.100	63.096	-0.110	0.0	0.0	0.0
10440	63.100	63.096	-0.110	0.0	0.0	0.0
10464	63.100	63.096	-0.110	0.0	0.0	0.0
10488	63.100	63.096	-0.110	0.0	0.0	0.0
10512	63.100	63.096	-0.110	0.0	0.0	0.0
10536	63.100	63.096	-0.110	0.0	0.0	0.0
10560	63.100	63.096	-0.110	0.0	0.0	0.0
10584	63.100	63.096	-0.110	0.0	0.0	0.0
10608	63.100	63.096	-0.110	0.0	0.0	0.0
10632	63.100	63.096	-0.110	0.0	0.0	0.0
10656	63.100	63.096	-0.110	0.0	0.0	0.0
10680	63.100	63.096	-0.110	0.0	0.0	0.0
10704	63.100	63.096	-0.110	0.0	0.0	0.0
10728	63.100	63.096	-0.110	0.0	0.0	0.0
10752	63.100	63.096	-0.110	0.0	0.0	0.0
10776	63.100	63.096	-0.110	0.0	0.0	0.0
10800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.100	63.096	-0.110	0.0	0.0	0.0
10848	63.100	63.096	-0.110	0.0	0.0	0.0
10872	63.100	63.096	-0.110	0.0	0.0	0.0
10896	63.100	63.096	-0.110	0.0	0.0	0.0
10920	63.100	63.096	-0.110	0.0	0.0	0.0
10944	63.100	63.096	-0.110	0.0	0.0	0.0
10968	63.100	63.096	-0.110	0.0	0.0	0.0
10992	63.100	63.096	-0.110	0.0	0.0	0.0
11016	63.100	63.096	-0.110	0.0	0.0	0.0
11040	63.100	63.096	-0.110	0.0	0.0	0.0
11064	63.100	63.096	-0.110	0.0	0.0	0.0
11088	63.100	63.096	-0.110	0.0	0.0	0.0
11112	63.100	63.096	-0.110	0.0	0.0	0.0
11136	63.100	63.096	-0.110	0.0	0.0	0.0
11160	63.100	63.096	-0.110	0.0	0.0	0.0
11184	63.100	63.096	-0.110	0.0	0.0	0.0
11208	63.100	63.096	-0.110	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.100	63.096	-0.110	0.0	0.0	0.0
14448	63.100	63.096	-0.110	0.0	0.0	0.0
14472	63.100	63.096	-0.110	0.0	0.0	0.0
14496	63.100	63.096	-0.110	0.0	0.0	0.0
14520	63.100	63.096	-0.110	0.0	0.0	0.0
14544	63.100	63.096	-0.110	0.0	0.0	0.0
14568	63.100	63.096	-0.110	0.0	0.0	0.0
14592	63.100	63.096	-0.110	0.0	0.0	0.0
14616	63.100	63.096	-0.110	0.0	0.0	0.0
14640	63.100	63.096	-0.110	0.0	0.0	0.0
14664	63.100	63.096	-0.110	0.0	0.0	0.0
14688	63.100	63.096	-0.110	0.0	0.0	0.0
14712	63.100	63.096	-0.110	0.0	0.0	0.0
14736	63.100	63.096	-0.110	0.0	0.0	0.0
14760	63.100	63.096	-0.110	0.0	0.0	0.0
14784	63.100	63.096	-0.110	0.0	0.0	0.0
14808	63.100	63.096	-0.110	0.0	0.0	0.0
14832	63.100	63.096	-0.110	0.0	0.0	0.0
14856	63.100	63.096	-0.110	0.0	0.0	0.0
14880	63.100	63.096	-0.110	0.0	0.0	0.0
14904	63.100	63.096	-0.110	0.0	0.0	0.0
14928	63.100	63.096	-0.110	0.0	0.0	0.0
14952	63.100	63.096	-0.110	0.0	0.0	0.0
14976	63.100	63.096	-0.110	0.0	0.0	0.0
15000	63.100	63.096	-0.110	0.0	0.0	0.0
15024	63.100	63.096	-0.110	0.0	0.0	0.0
15048	63.100	63.096	-0.110	0.0	0.0	0.0
15072	63.100	63.096	-0.110	0.0	0.0	0.0
15096	63.100	63.096	-0.110	0.0	0.0	0.0
15120	63.100	63.096	-0.110	0.0	0.0	0.0
15144	63.100	63.096	-0.110	0.0	0.0	0.0
15168	63.100	63.096	-0.110	0.0	0.0	0.0
15192	63.100	63.096	-0.110	0.0	0.0	0.0
15216	63.100	63.096	-0.110	0.0	0.0	0.0
15240	63.100	63.096	-0.110	0.0	0.0	0.0
15264	63.100	63.096	-0.110	0.0	0.0	0.0
15288	63.100	63.096	-0.110	0.0	0.0	0.0
15312	63.100	63.096	-0.110	0.0	0.0	0.0
15336	63.100	63.096	-0.110	0.0	0.0	0.0
15360	63.100	63.096	-0.110	0.0	0.0	0.0
15384	63.100	63.096	-0.110	0.0	0.0	0.0
15408	63.100	63.096	-0.110	0.0	0.0	0.0
15432	63.100	63.096	-0.110	0.0	0.0	0.0
15456	63.100	63.096	-0.110	0.0	0.0	0.0
15480	63.100	63.096	-0.110	0.0	0.0	0.0
15504	63.100	63.096	-0.110	0.0	0.0	0.0
15528	63.100	63.096	-0.110	0.0	0.0	0.0
15552	63.100	63.096	-0.110	0.0	0.0	0.0
15576	63.100	63.096	-0.110	0.0	0.0	0.0
15600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.100	63.096	-0.110	0.0	0.0	0.0
15648	63.100	63.096	-0.110	0.0	0.0	0.0
15672	63.100	63.096	-0.110	0.0	0.0	0.0
15696	63.100	63.096	-0.110	0.0	0.0	0.0
15720	63.100	63.096	-0.110	0.0	0.0	0.0
15744	63.100	63.096	-0.110	0.0	0.0	0.0
15768	63.100	63.096	-0.110	0.0	0.0	0.0
15792	63.100	63.096	-0.110	0.0	0.0	0.0
15816	63.100	63.096	-0.110	0.0	0.0	0.0
15840	63.100	63.096	-0.110	0.0	0.0	0.0
15864	63.100	63.096	-0.110	0.0	0.0	0.0
15888	63.100	63.096	-0.110	0.0	0.0	0.0
15912	63.100	63.096	-0.110	0.0	0.0	0.0
15936	63.100	63.096	-0.110	0.0	0.0	0.0
15960	63.100	63.096	-0.110	0.0	0.0	0.0
15984	63.100	63.096	-0.110	0.0	0.0	0.0
16008	63.100	63.096	-0.110	0.0	0.0	0.0
16032	63.100	63.096	-0.110	0.0	0.0	0.0
16056	63.100	63.096	-0.110	0.0	0.0	0.0
16080	63.100	63.096	-0.110	0.0	0.0	0.0
16104	63.100	63.096	-0.110	0.0	0.0	0.0
16128	63.100	63.096	-0.110	0.0	0.0	0.0
16152	63.100	63.096	-0.110	0.0	0.0	0.0
16176	63.100	63.096	-0.110	0.0	0.0	0.0
16200	63.100	63.096	-0.110	0.0	0.0	0.0
16224	63.100	63.096	-0.110	0.0	0.0	0.0
16248	63.100	63.096	-0.110	0.0	0.0	0.0
16272	63.100	63.096	-0.110	0.0	0.0	0.0
16296	63.100	63.096	-0.110	0.0	0.0	0.0
16320	63.100	63.096	-0.110	0.0	0.0	0.0
16344	63.100	63.096	-0.110	0.0	0.0	0.0
16368	63.100	63.096	-0.110	0.0	0.0	0.0
16392	63.100	63.096	-0.110	0.0	0.0	0.0
16416	63.100	63.096	-0.110	0.0	0.0	0.0
16440	63.100	63.096	-0.110	0.0	0.0	0.0
16464	63.100	63.096	-0.110	0.0	0.0	0.0
16488	63.100	63.096	-0.110	0.0	0.0	0.0
16512	63.100	63.096	-0.110	0.0	0.0	0.0
16536	63.100	63.096	-0.110	0.0	0.0	0.0
16560	63.100	63.096	-0.110	0.0	0.0	0.0
16584	63.100	63.096	-0.110	0.0	0.0	0.0
16608	63.100	63.096	-0.110	0.0	0.0	0.0
16632	63.100	63.096	-0.110	0.0	0.0	0.0
16656	63.100	63.096	-0.110	0.0	0.0	0.0
16680	63.100	63.096	-0.110	0.0	0.0	0.0
16704	63.100	63.096	-0.110	0.0	0.0	0.0
16728	63.100	63.096	-0.110	0.0	0.0	0.0
16752	63.100	63.096	-0.110	0.0	0.0	0.0
16776	63.100	63.096	-0.110	0.0	0.0	0.0
16800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
8640 minute 100 year Winter
Average Rainfall Intensity 0.936 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.100	63.096	-0.110	0.0	0.0	0.0
16848	63.100	63.096	-0.110	0.0	0.0	0.0
16872	63.100	63.096	-0.110	0.0	0.0	0.0
16896	63.100	63.096	-0.110	0.0	0.0	0.0
16920	63.100	63.096	-0.110	0.0	0.0	0.0
16944	63.100	63.096	-0.110	0.0	0.0	0.0
16968	63.100	63.096	-0.110	0.0	0.0	0.0
16992	63.100	63.096	-0.110	0.0	0.0	0.0
17016	63.100	63.096	-0.110	0.0	0.0	0.0
17040	63.100	63.096	-0.110	0.0	0.0	0.0
17064	63.100	63.096	-0.110	0.0	0.0	0.0
17088	63.100	63.096	-0.110	0.0	0.0	0.0
17112	63.100	63.096	-0.110	0.0	0.0	0.0
17136	63.100	63.096	-0.110	0.0	0.0	0.0
17160	63.100	63.096	-0.110	0.0	0.0	0.0
17184	63.100	63.096	-0.110	0.0	0.0	0.0
17208	63.100	63.096	-0.110	0.0	0.0	0.0
17232	63.100	63.096	-0.110	0.0	0.0	0.0
17256	63.100	63.096	-0.110	0.0	0.0	0.0
17280	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	20160
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	10080
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 10080 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.1	OK
1.001	S1	63.513	-0.091	0.000	0.02	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.1	OK
2.001	S2	65.002	-0.108	0.000	0.00	0.0	0.1	OK
1.002	S3	63.513	-0.041	0.000	0.03	0.0	0.2	OK
1.003	S4	63.513	0.153	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.458	0.248	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 10080 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.265	1296	0.315	2568	0.448	3840	1.063	5112	3.250
48	0.265	1320	0.318	2592	0.448	3864	1.127	5136	3.250
72	0.265	1344	0.323	2616	0.448	3888	1.127	5160	3.024
96	0.265	1368	0.323	2640	0.461	3912	1.127	5184	2.968
120	0.272	1392	0.323	2664	0.464	3936	1.154	5208	2.968
144	0.274	1416	0.325	2688	0.464	3960	1.260	5232	2.968
168	0.274	1440	0.332	2712	0.464	3984	1.260	5256	2.819
192	0.274	1464	0.332	2736	0.474	4008	1.260	5280	2.719
216	0.274	1488	0.332	2760	0.481	4032	1.260	5304	2.719
240	0.274	1512	0.332	2784	0.481	4056	1.409	5328	2.719
264	0.274	1536	0.340	2808	0.481	4080	1.409	5352	2.626
288	0.274	1560	0.340	2832	0.491	4104	1.409	5376	2.487
312	0.277	1584	0.340	2856	0.506	4128	1.409	5400	2.487
336	0.282	1608	0.340	2880	0.506	4152	1.529	5424	2.487
360	0.282	1632	0.347	2904	0.506	4176	1.558	5448	2.444
384	0.282	1656	0.348	2928	0.511	4200	1.558	5472	2.271
408	0.282	1680	0.348	2952	0.531	4224	1.558	5496	2.271
432	0.282	1704	0.348	2976	0.531	4248	1.658	5520	2.271
456	0.282	1728	0.353	3000	0.531	4272	1.724	5544	2.271
480	0.282	1752	0.356	3024	0.531	4296	1.724	5568	2.072
504	0.282	1776	0.356	3048	0.564	4320	1.724	5592	2.072
528	0.290	1800	0.356	3072	0.564	4344	1.791	5616	2.072
552	0.290	1824	0.360	3096	0.564	4368	1.890	5640	2.072
576	0.290	1848	0.365	3120	0.564	4392	1.890	5664	1.927
600	0.290	1872	0.365	3144	0.590	4416	1.890	5688	1.890
624	0.290	1896	0.365	3168	0.597	4440	1.927	5712	1.890
648	0.290	1920	0.366	3192	0.597	4464	2.072	5736	1.890
672	0.290	1944	0.373	3216	0.597	4488	2.072	5760	1.791
696	0.290	1968	0.373	3240	0.627	4512	2.072	5784	1.724
720	0.295	1992	0.373	3264	0.647	4536	2.072	5808	1.724
744	0.298	2016	0.373	3288	0.647	4560	2.271	5832	1.724
768	0.298	2040	0.381	3312	0.647	4584	2.271	5856	1.658
792	0.298	2064	0.381	3336	0.666	4608	2.271	5880	1.558
816	0.298	2088	0.381	3360	0.696	4632	2.271	5904	1.558
840	0.298	2112	0.381	3384	0.696	4656	2.444	5928	1.558
864	0.298	2136	0.395	3408	0.696	4680	2.487	5952	1.529
888	0.298	2160	0.398	3432	0.708	4704	2.487	5976	1.409
912	0.300	2184	0.398	3456	0.754	4728	2.487	6000	1.409
936	0.307	2208	0.398	3480	0.754	4752	2.626	6024	1.409
960	0.307	2232	0.403	3504	0.754	4776	2.719	6048	1.409
984	0.307	2256	0.406	3528	0.754	4800	2.719	6072	1.260
1008	0.307	2280	0.406	3552	0.821	4824	2.719	6096	1.260
1032	0.307	2304	0.406	3576	0.821	4848	2.819	6120	1.260
1056	0.307	2328	0.413	3600	0.821	4872	2.968	6144	1.260
1080	0.307	2352	0.423	3624	0.821	4896	2.968	6168	1.154
1104	0.307	2376	0.423	3648	0.894	4920	2.968	6192	1.127
1128	0.313	2400	0.423	3672	0.912	4944	3.024	6216	1.127
1152	0.315	2424	0.424	3696	0.912	4968	3.250	6240	1.127
1176	0.315	2448	0.431	3720	0.912	4992	3.250	6264	1.063
1200	0.315	2472	0.431	3744	0.977	5016	3.250	6288	1.020
1224	0.315	2496	0.431	3768	1.020	5040	3.250	6312	1.020
1248	0.315	2520	0.431	3792	1.020	5064	3.250	6336	1.020
1272	0.315	2544	0.448	3816	1.020	5088	3.250	6360	0.977

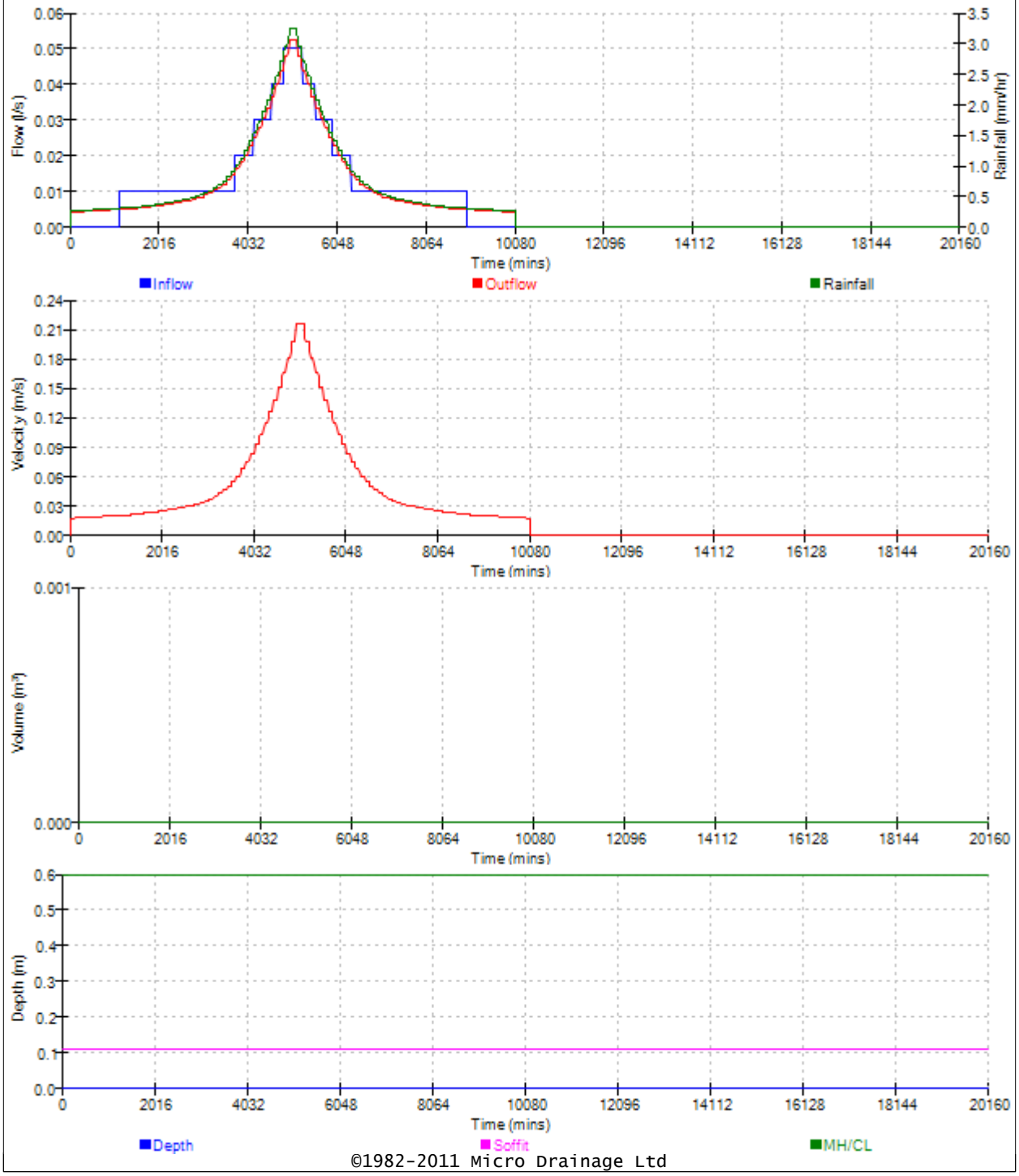
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Rainfall Hyetograph for 10080 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	0.912	7128	0.531	7872	0.403	8616	0.332	9360	0.298
6408	0.912	7152	0.531	7896	0.398	8640	0.332	9384	0.295
6432	0.912	7176	0.511	7920	0.398	8664	0.332	9408	0.290
6456	0.894	7200	0.506	7944	0.398	8688	0.325	9432	0.290
6480	0.821	7224	0.506	7968	0.395	8712	0.323	9456	0.290
6504	0.821	7248	0.506	7992	0.381	8736	0.323	9480	0.290
6528	0.821	7272	0.491	8016	0.381	8760	0.323	9504	0.290
6552	0.821	7296	0.481	8040	0.381	8784	0.318	9528	0.290
6576	0.754	7320	0.481	8064	0.381	8808	0.315	9552	0.290
6600	0.754	7344	0.481	8088	0.373	8832	0.315	9576	0.290
6624	0.754	7368	0.474	8112	0.373	8856	0.315	9600	0.282
6648	0.754	7392	0.464	8136	0.373	8880	0.315	9624	0.282
6672	0.708	7416	0.464	8160	0.373	8904	0.315	9648	0.282
6696	0.696	7440	0.464	8184	0.366	8928	0.315	9672	0.282
6720	0.696	7464	0.461	8208	0.365	8952	0.315	9696	0.282
6744	0.696	7488	0.448	8232	0.365	8976	0.313	9720	0.282
6768	0.666	7512	0.448	8256	0.365	9000	0.307	9744	0.282
6792	0.647	7536	0.448	8280	0.360	9024	0.307	9768	0.282
6816	0.647	7560	0.448	8304	0.356	9048	0.307	9792	0.277
6840	0.647	7584	0.431	8328	0.356	9072	0.307	9816	0.274
6864	0.627	7608	0.431	8352	0.356	9096	0.307	9840	0.274
6888	0.597	7632	0.431	8376	0.353	9120	0.307	9864	0.274
6912	0.597	7656	0.431	8400	0.348	9144	0.307	9888	0.274
6936	0.597	7680	0.424	8424	0.348	9168	0.307	9912	0.274
6960	0.590	7704	0.423	8448	0.348	9192	0.300	9936	0.274
6984	0.564	7728	0.423	8472	0.347	9216	0.298	9960	0.274
7008	0.564	7752	0.423	8496	0.340	9240	0.298	9984	0.272
7032	0.564	7776	0.413	8520	0.340	9264	0.298	10008	0.265
7056	0.564	7800	0.406	8544	0.340	9288	0.298	10032	0.265
7080	0.531	7824	0.406	8568	0.340	9312	0.298	10056	0.265
7104	0.531	7848	0.406	8592	0.332	9336	0.298	10080	0.265

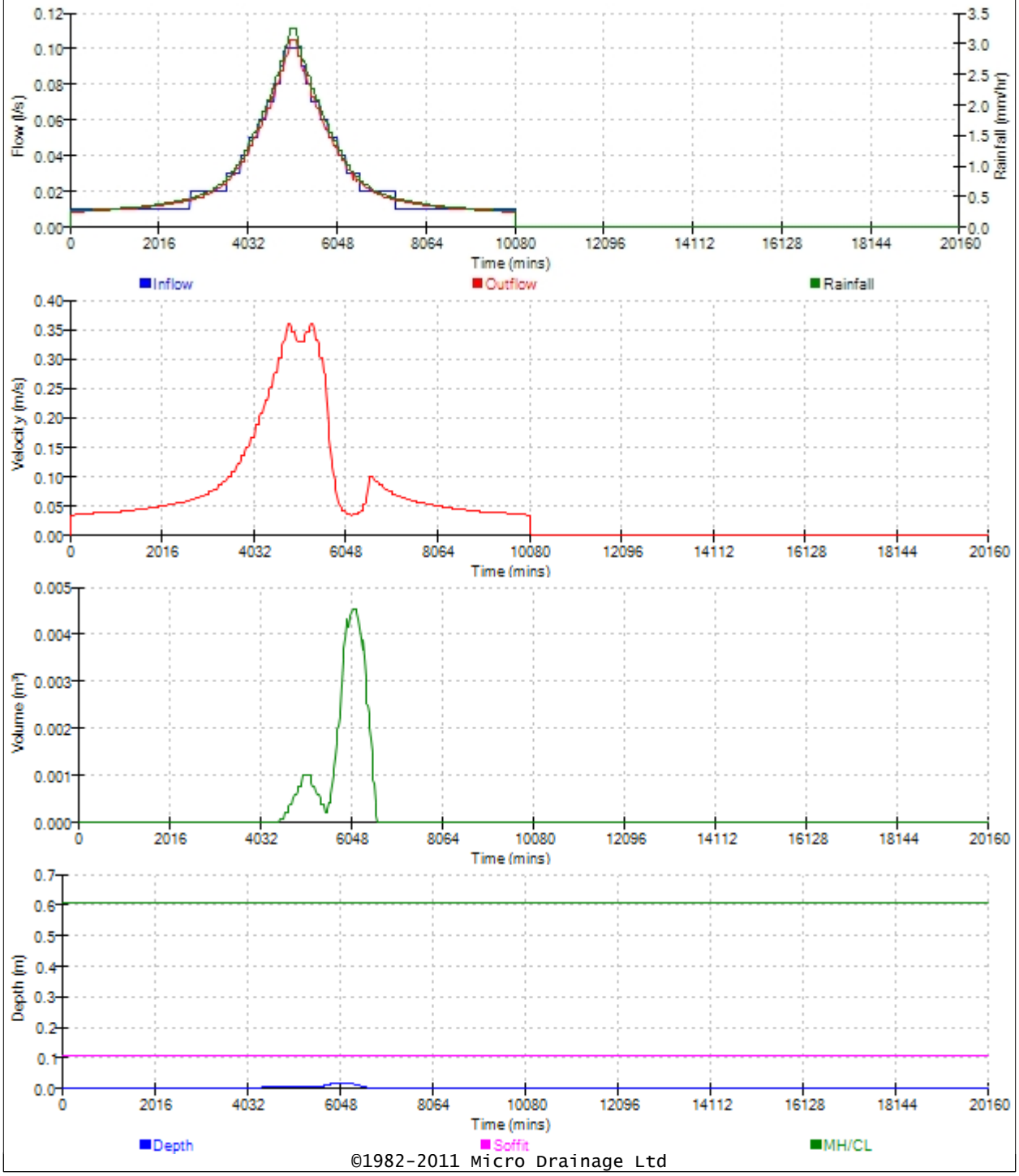
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Status: OK



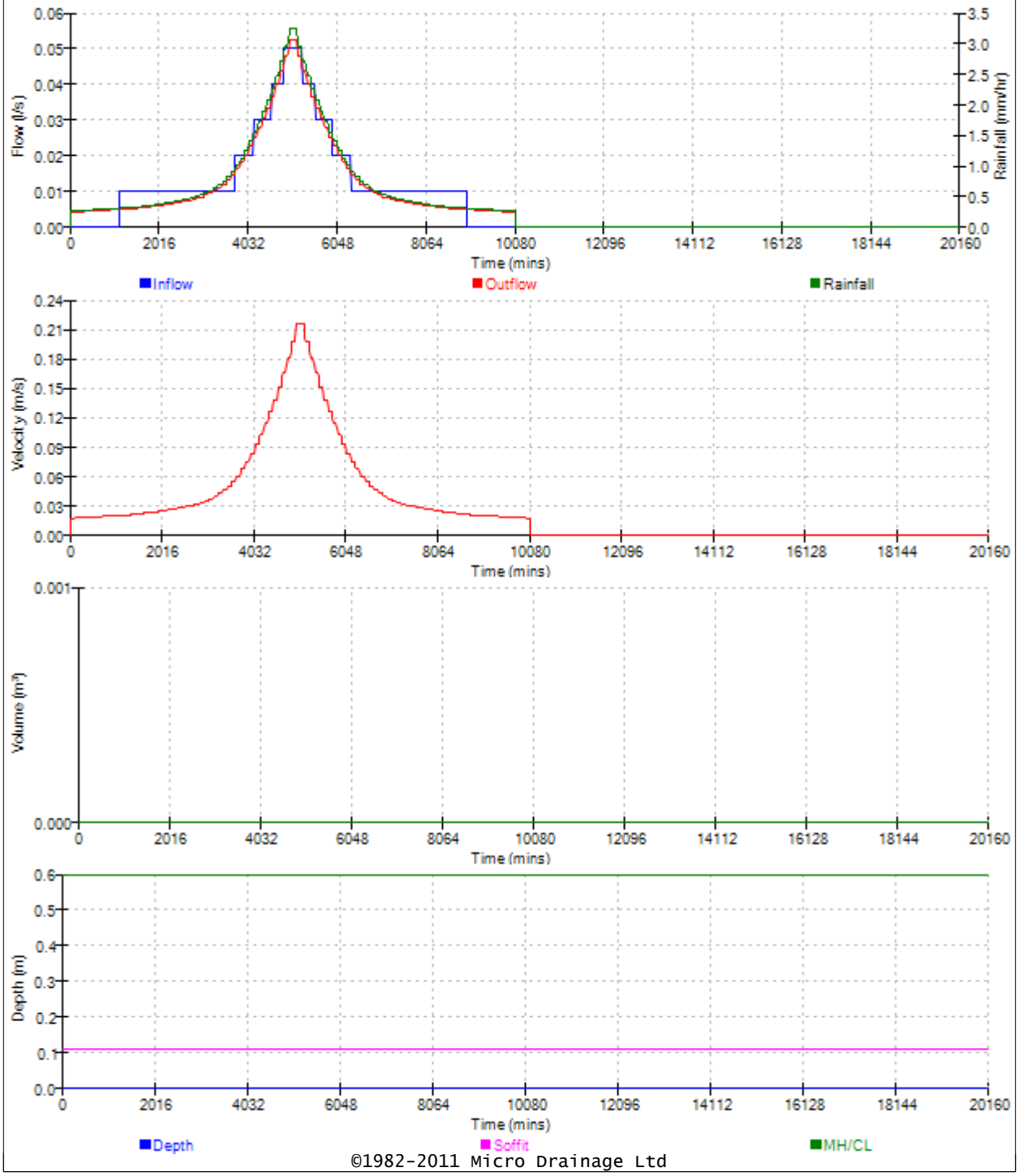
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Graphs for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Status: OK



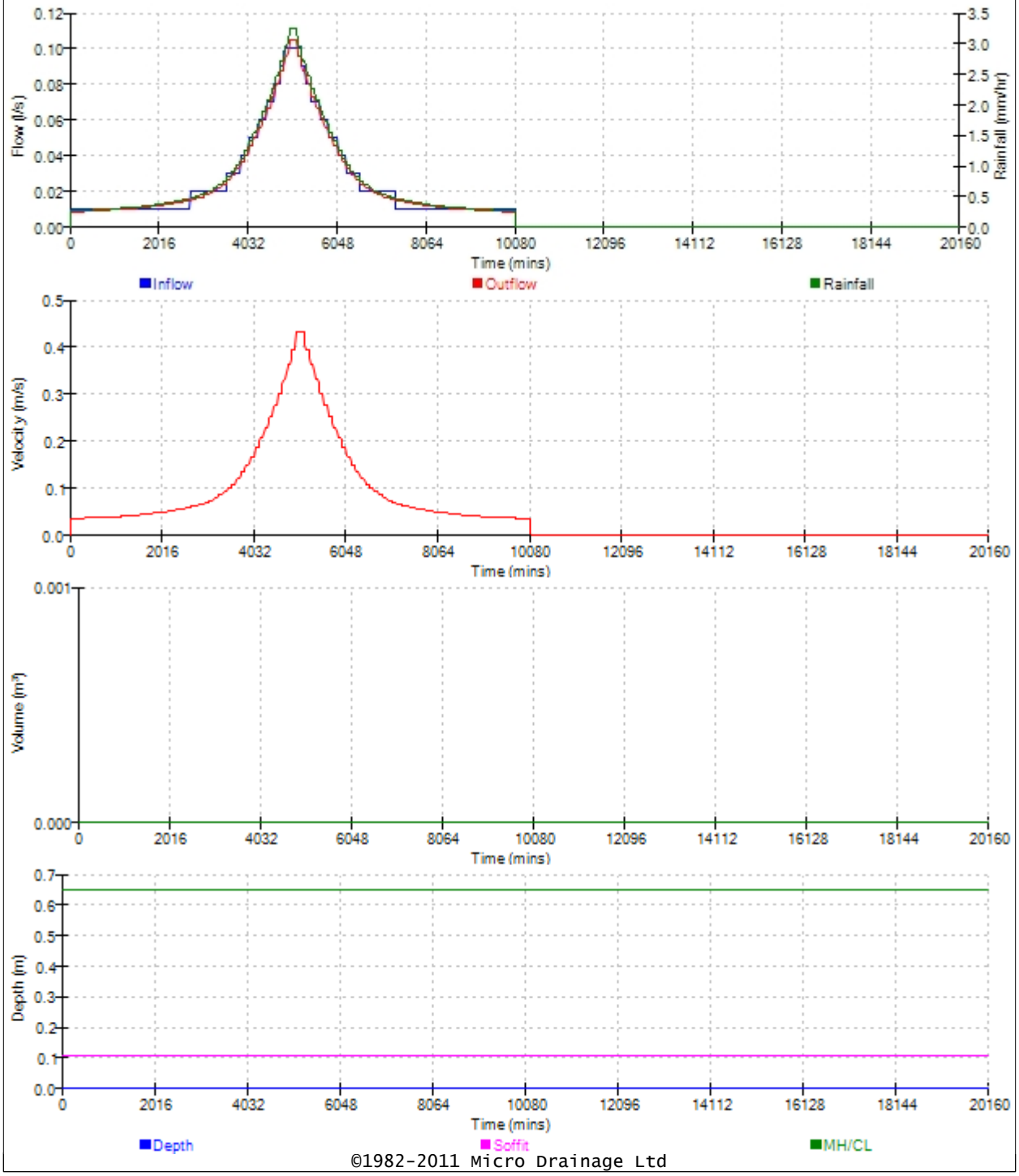
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Status: OK



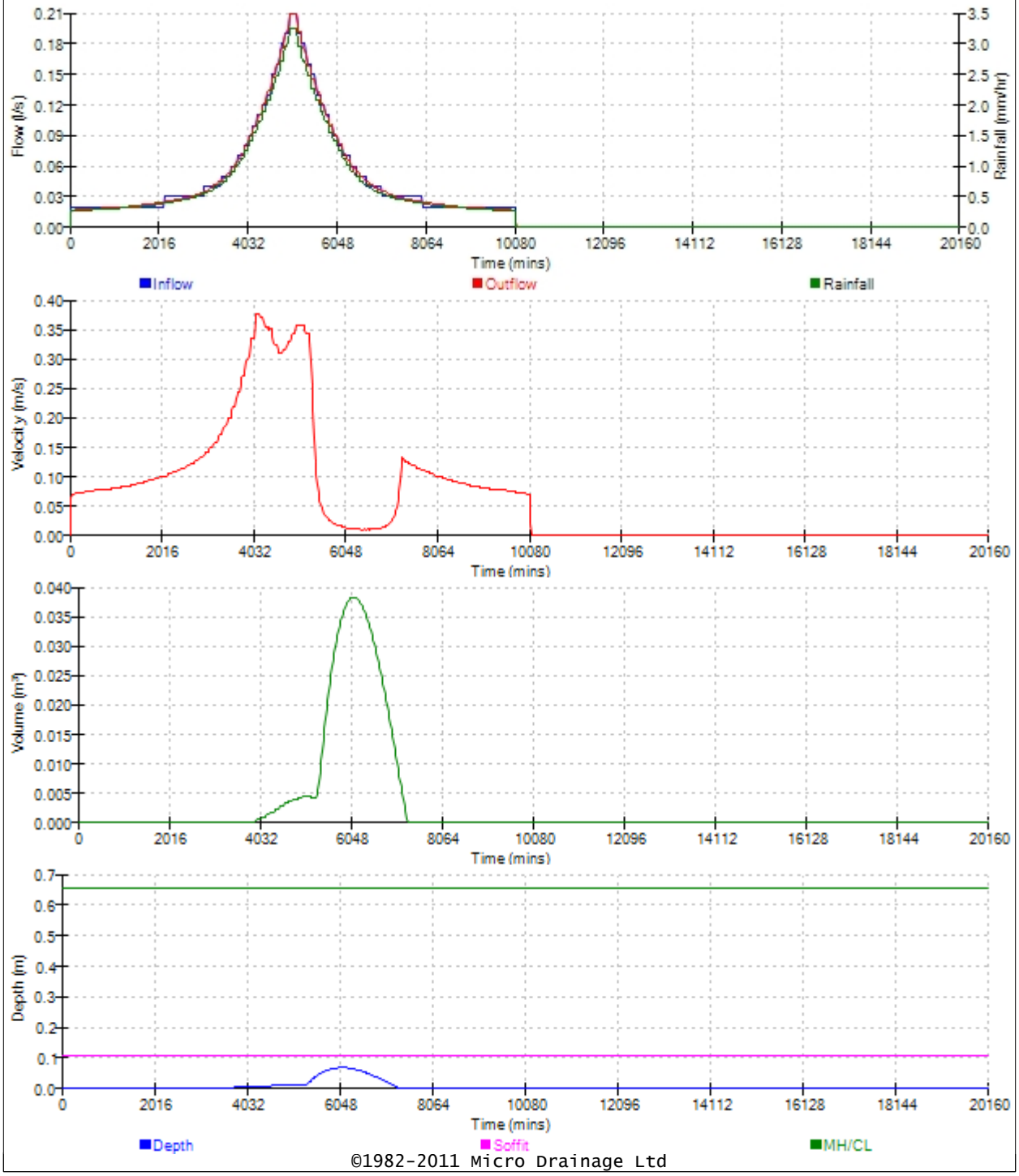
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Graphs for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Status: OK



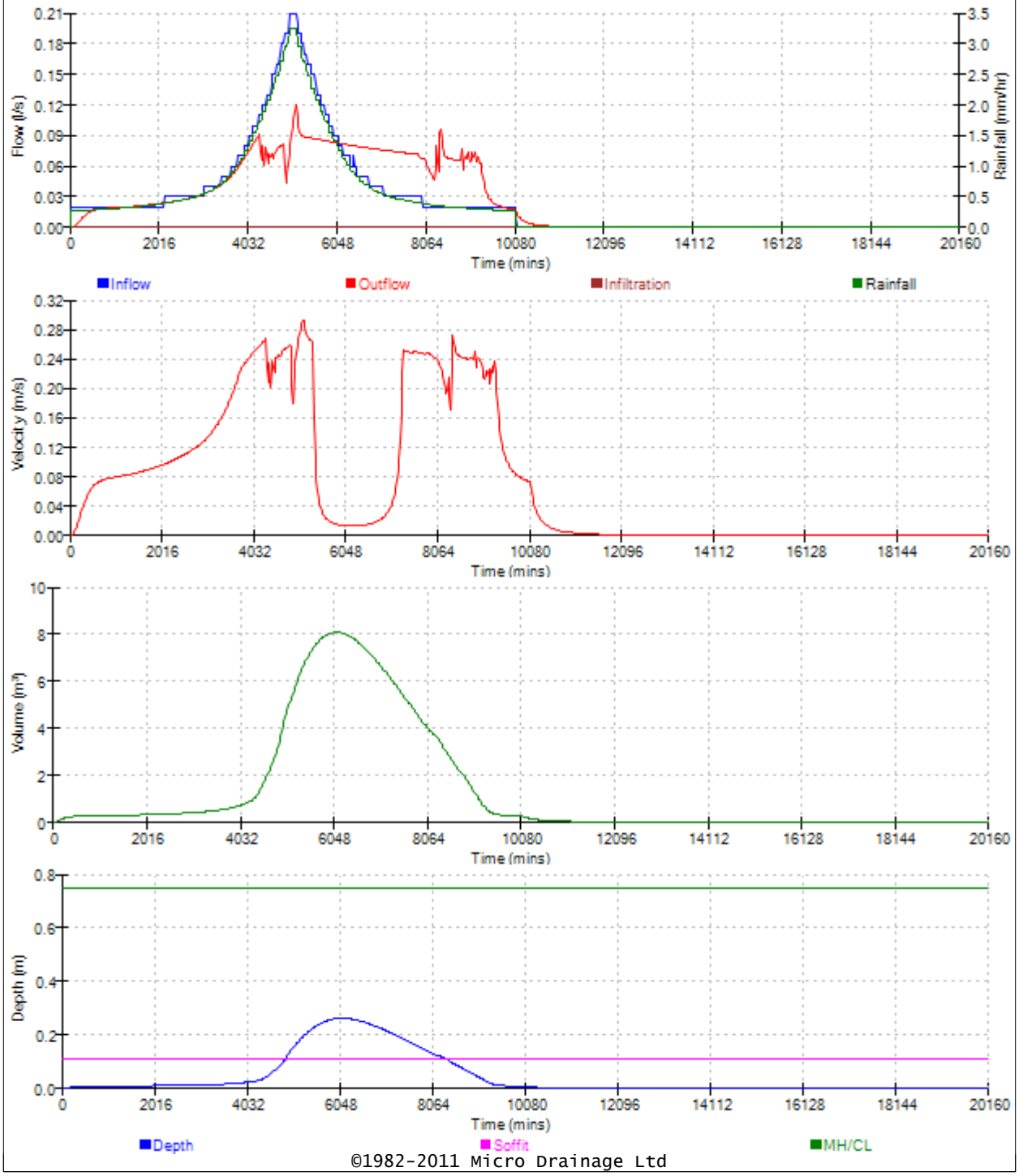
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Graphs for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Status: OK



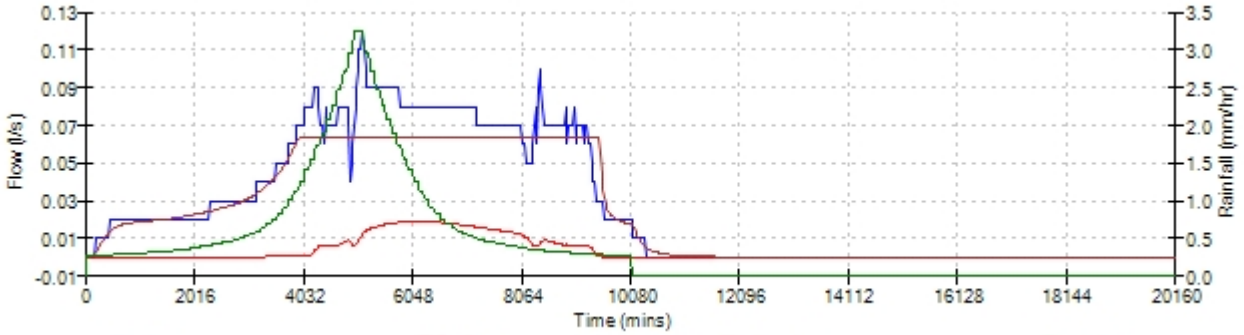
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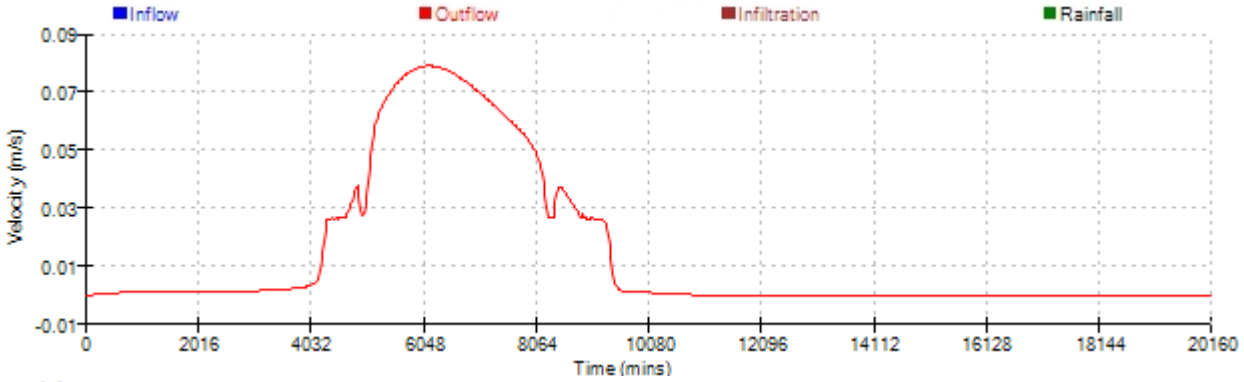
Graphs for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Status: SURCHARGED

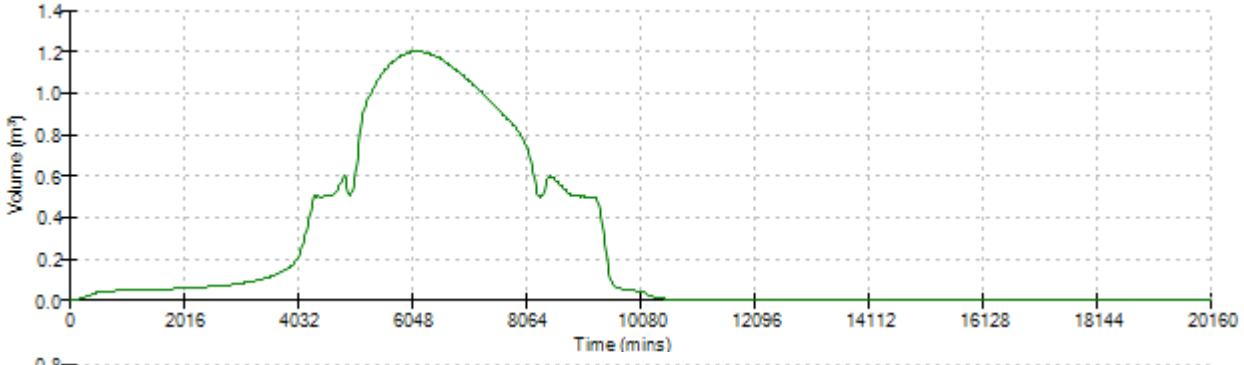


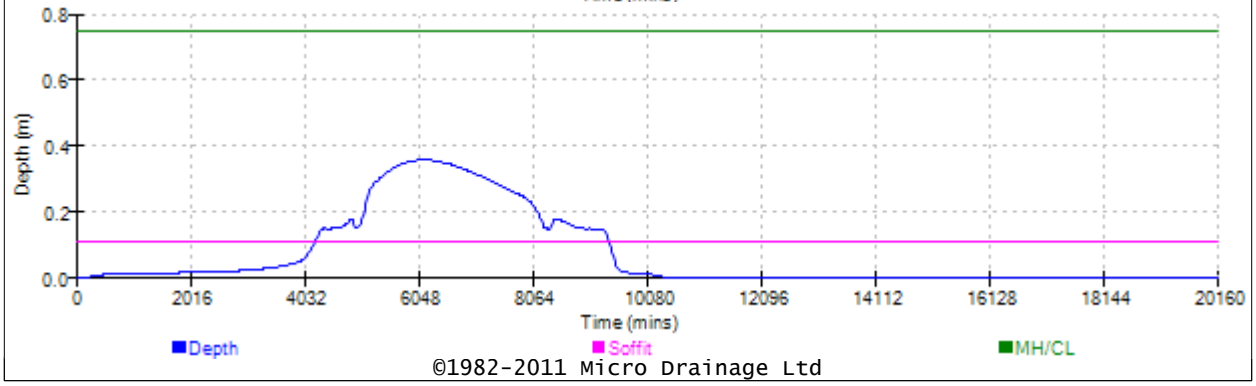
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.495	-0.110	0.0	0.0	0.0
48	65.400	63.495	-0.110	0.0	0.0	0.0
72	65.400	63.495	-0.110	0.0	0.0	0.0
96	65.400	63.495	-0.110	0.0	0.0	0.0
120	65.400	63.495	-0.110	0.0	0.0	0.0
144	65.400	63.495	-0.110	0.0	0.0	0.0
168	65.400	63.495	-0.110	0.0	0.0	0.0
192	65.400	63.495	-0.110	0.0	0.0	0.0
216	65.400	63.495	-0.110	0.0	0.0	0.0
240	65.400	63.495	-0.110	0.0	0.0	0.0
264	65.400	63.495	-0.110	0.0	0.0	0.0
288	65.400	63.495	-0.110	0.0	0.0	0.0
312	65.400	63.495	-0.110	0.0	0.0	0.0
336	65.400	63.495	-0.110	0.0	0.0	0.0
360	65.400	63.495	-0.110	0.0	0.0	0.0
384	65.400	63.495	-0.110	0.0	0.0	0.0
408	65.400	63.495	-0.110	0.0	0.0	0.0
432	65.400	63.495	-0.110	0.0	0.0	0.0
456	65.400	63.495	-0.110	0.0	0.0	0.0
480	65.400	63.495	-0.110	0.0	0.0	0.0
504	65.400	63.495	-0.110	0.0	0.0	0.0
528	65.400	63.495	-0.110	0.0	0.0	0.0
552	65.400	63.495	-0.110	0.0	0.0	0.0
576	65.400	63.495	-0.110	0.0	0.0	0.0
600	65.400	63.495	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.495	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.495	-0.110	0.0	0.0	0.0
1560	65.400	63.495	-0.110	0.0	0.0	0.0
1584	65.400	63.495	-0.110	0.0	0.0	0.0
1608	65.400	63.495	-0.110	0.0	0.0	0.0
1632	65.400	63.495	-0.110	0.0	0.0	0.0
1656	65.400	63.495	-0.110	0.0	0.0	0.0
1680	65.400	63.495	-0.110	0.0	0.0	0.0
1704	65.400	63.495	-0.110	0.0	0.0	0.0
1728	65.400	63.495	-0.110	0.0	0.0	0.0
1752	65.400	63.495	-0.110	0.0	0.0	0.0
1776	65.400	63.495	-0.110	0.0	0.0	0.0
1800	65.400	63.495	-0.110	0.0	0.0	0.0
1824	65.400	63.495	-0.110	0.0	0.0	0.0
1848	65.400	63.495	-0.110	0.0	0.0	0.0
1872	65.400	63.495	-0.110	0.0	0.0	0.0
1896	65.400	63.495	-0.110	0.0	0.0	0.0
1920	65.400	63.495	-0.110	0.0	0.0	0.0
1944	65.400	63.495	-0.110	0.0	0.0	0.0
1968	65.400	63.495	-0.110	0.0	0.0	0.0
1992	65.400	63.495	-0.110	0.0	0.0	0.0
2016	65.400	63.495	-0.110	0.0	0.0	0.0
2040	65.400	63.495	-0.110	0.0	0.0	0.0
2064	65.400	63.495	-0.110	0.0	0.0	0.0
2088	65.400	63.495	-0.110	0.0	0.0	0.0
2112	65.400	63.495	-0.110	0.0	0.0	0.0
2136	65.400	63.495	-0.110	0.0	0.0	0.0
2160	65.400	63.495	-0.110	0.0	0.0	0.0
2184	65.400	63.495	-0.110	0.0	0.0	0.0
2208	65.400	63.495	-0.110	0.0	0.0	0.0
2232	65.400	63.495	-0.110	0.0	0.0	0.0
2256	65.400	63.495	-0.110	0.0	0.0	0.0
2280	65.400	63.495	-0.110	0.0	0.0	0.0
2304	65.400	63.495	-0.110	0.0	0.0	0.0
2328	65.400	63.495	-0.110	0.0	0.0	0.0
2352	65.400	63.495	-0.110	0.0	0.0	0.0
2376	65.400	63.495	-0.110	0.0	0.0	0.0
2400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.495	-0.110	0.0	0.0	0.0
2448	65.400	63.495	-0.110	0.0	0.0	0.0
2472	65.400	63.495	-0.110	0.0	0.0	0.0
2496	65.400	63.495	-0.110	0.0	0.0	0.0
2520	65.400	63.495	-0.110	0.0	0.0	0.0
2544	65.400	63.495	-0.110	0.0	0.0	0.0
2568	65.400	63.495	-0.110	0.0	0.0	0.0
2592	65.400	63.495	-0.110	0.0	0.0	0.0
2616	65.400	63.495	-0.110	0.0	0.0	0.0
2640	65.400	63.495	-0.110	0.0	0.0	0.0
2664	65.400	63.495	-0.110	0.0	0.0	0.0
2688	65.400	63.495	-0.110	0.0	0.0	0.0
2712	65.400	63.495	-0.110	0.0	0.0	0.0
2736	65.400	63.495	-0.110	0.0	0.0	0.0
2760	65.400	63.495	-0.110	0.0	0.0	0.0
2784	65.400	63.495	-0.110	0.0	0.0	0.0
2808	65.400	63.495	-0.110	0.0	0.0	0.0
2832	65.400	63.495	-0.110	0.0	0.0	0.0
2856	65.400	63.495	-0.110	0.0	0.0	0.0
2880	65.400	63.495	-0.110	0.0	0.0	0.0
2904	65.400	63.495	-0.110	0.0	0.0	0.0
2928	65.400	63.495	-0.110	0.0	0.0	0.0
2952	65.400	63.495	-0.110	0.0	0.0	0.0
2976	65.400	63.495	-0.110	0.0	0.0	0.0
3000	65.400	63.495	-0.110	0.0	0.0	0.0
3024	65.400	63.495	-0.110	0.0	0.0	0.0
3048	65.400	63.496	-0.110	0.0	0.0	0.0
3072	65.400	63.496	-0.110	0.0	0.0	0.0
3096	65.400	63.496	-0.110	0.0	0.0	0.0
3120	65.400	63.496	-0.110	0.0	0.0	0.0
3144	65.400	63.496	-0.110	0.0	0.0	0.0
3168	65.400	63.496	-0.110	0.0	0.0	0.0
3192	65.400	63.496	-0.110	0.0	0.0	0.0
3216	65.400	63.496	-0.110	0.0	0.0	0.0
3240	65.400	63.496	-0.110	0.0	0.0	0.0
3264	65.400	63.496	-0.110	0.0	0.0	0.0
3288	65.400	63.496	-0.110	0.0	0.0	0.0
3312	65.400	63.496	-0.110	0.0	0.0	0.0
3336	65.400	63.496	-0.110	0.0	0.0	0.0
3360	65.400	63.496	-0.110	0.0	0.0	0.0
3384	65.400	63.496	-0.110	0.0	0.0	0.0
3408	65.400	63.496	-0.110	0.0	0.0	0.0
3432	65.400	63.496	-0.110	0.0	0.0	0.0
3456	65.400	63.496	-0.110	0.0	0.1	0.0
3480	65.400	63.496	-0.110	0.0	0.1	0.0
3504	65.400	63.496	-0.110	0.0	0.1	0.0
3528	65.400	63.496	-0.110	0.0	0.1	0.0
3552	65.400	63.496	-0.110	0.0	0.1	0.0
3576	65.400	63.496	-0.110	0.0	0.1	0.0
3600	65.400	63.496	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.496	-0.110	0.0	0.1	0.0
3648	65.400	63.496	-0.110	0.0	0.1	0.0
3672	65.400	63.496	-0.110	0.0	0.1	0.0
3696	65.400	63.496	-0.110	0.0	0.1	0.0
3720	65.400	63.496	-0.110	0.0	0.1	0.0
3744	65.400	63.497	-0.110	0.0	0.1	0.0
3768	65.400	63.497	-0.110	0.0	0.1	0.0
3792	65.400	63.497	-0.110	0.0	0.1	0.0
3816	65.400	63.497	-0.110	0.0	0.1	0.0
3840	65.400	63.497	-0.110	0.0	0.1	0.0
3864	65.400	63.497	-0.110	0.0	0.1	0.0
3888	65.400	63.497	-0.110	0.0	0.1	0.0
3912	65.400	63.497	-0.110	0.0	0.1	0.0
3936	65.400	63.497	-0.110	0.0	0.1	0.0
3960	65.400	63.497	-0.110	0.0	0.1	0.0
3984	65.400	63.497	-0.110	0.0	0.1	0.0
4008	65.400	63.497	-0.110	0.0	0.1	0.0
4032	65.400	63.497	-0.110	0.0	0.1	0.0
4056	65.400	63.498	-0.110	0.0	0.1	0.0
4080	65.400	63.498	-0.110	0.0	0.1	0.0
4104	65.400	63.498	-0.110	0.0	0.1	0.0
4128	65.400	63.498	-0.110	0.0	0.1	0.0
4152	65.401	63.498	-0.109	0.0	0.1	0.0
4176	65.401	63.498	-0.109	0.0	0.1	0.0
4200	65.401	63.498	-0.109	0.0	0.1	0.0
4224	65.401	63.498	-0.109	0.0	0.1	0.0
4248	65.401	63.498	-0.109	0.0	0.1	0.0
4272	65.401	63.498	-0.109	0.0	0.1	0.0
4296	65.401	63.498	-0.109	0.0	0.1	0.0
4320	65.401	63.498	-0.109	0.0	0.1	0.0
4344	65.401	63.499	-0.109	0.0	0.1	0.0
4368	65.401	63.499	-0.109	0.0	0.1	0.0
4392	65.401	63.499	-0.109	0.0	0.1	0.0
4416	65.401	63.499	-0.109	0.0	0.1	0.0
4440	65.401	63.499	-0.109	0.0	0.1	0.0
4464	65.401	63.499	-0.109	0.0	0.1	0.0
4488	65.401	63.499	-0.109	0.0	0.1	0.0
4512	65.401	63.499	-0.109	0.0	0.1	0.0
4536	65.401	63.499	-0.109	0.0	0.1	0.0
4560	65.401	63.500	-0.109	0.0	0.2	0.0
4584	65.401	63.500	-0.109	0.0	0.2	0.0
4608	65.401	63.500	-0.109	0.0	0.2	0.0
4632	65.401	63.500	-0.109	0.0	0.2	0.0
4656	65.401	63.500	-0.109	0.0	0.2	0.0
4680	65.401	63.500	-0.109	0.0	0.2	0.0
4704	65.401	63.500	-0.109	0.0	0.2	0.0
4728	65.401	63.500	-0.109	0.0	0.2	0.0
4752	65.401	63.501	-0.109	0.0	0.2	0.0
4776	65.401	63.501	-0.109	0.0	0.2	0.0
4800	65.401	63.501	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	63.501	-0.109	0.0	0.2	0.0
4848	65.401	63.501	-0.109	0.0	0.2	0.0
4872	65.401	63.502	-0.109	0.0	0.2	0.0
4896	65.401	63.502	-0.109	0.0	0.2	0.0
4920	65.401	63.502	-0.109	0.0	0.2	0.0
4944	65.401	63.502	-0.109	0.0	0.2	0.0
4968	65.401	63.502	-0.109	0.0	0.2	0.1
4992	65.401	63.502	-0.109	0.0	0.2	0.1
5016	65.401	63.502	-0.109	0.0	0.2	0.1
5040	65.401	63.502	-0.109	0.0	0.2	0.1
5064	65.401	63.502	-0.109	0.0	0.2	0.1
5088	65.401	63.502	-0.109	0.0	0.2	0.1
5112	65.401	63.502	-0.109	0.0	0.2	0.1
5136	65.401	63.502	-0.109	0.0	0.2	0.1
5160	65.401	63.502	-0.109	0.0	0.2	0.0
5184	65.401	63.502	-0.109	0.0	0.2	0.0
5208	65.401	63.502	-0.109	0.0	0.2	0.0
5232	65.401	63.502	-0.109	0.0	0.2	0.0
5256	65.401	63.501	-0.109	0.0	0.2	0.0
5280	65.401	63.501	-0.109	0.0	0.2	0.0
5304	65.401	63.501	-0.109	0.0	0.2	0.0
5328	65.401	63.501	-0.109	0.0	0.2	0.0
5352	65.401	63.501	-0.109	0.0	0.2	0.0
5376	65.401	63.500	-0.109	0.0	0.2	0.0
5400	65.401	63.500	-0.109	0.0	0.2	0.0
5424	65.401	63.500	-0.109	0.0	0.2	0.0
5448	65.401	63.500	-0.109	0.0	0.2	0.0
5472	65.401	63.500	-0.109	0.0	0.2	0.0
5496	65.401	63.500	-0.109	0.0	0.2	0.0
5520	65.401	63.500	-0.109	0.0	0.2	0.0
5544	65.401	63.500	-0.109	0.0	0.2	0.0
5568	65.401	63.500	-0.109	0.0	0.1	0.0
5592	65.401	63.501	-0.109	0.0	0.1	0.0
5616	65.401	63.502	-0.109	0.0	0.1	0.0
5640	65.401	63.502	-0.109	0.0	0.1	0.0
5664	65.401	63.503	-0.109	0.0	0.1	0.0
5688	65.401	63.503	-0.109	0.0	0.1	0.0
5712	65.401	63.504	-0.109	0.0	0.1	0.0
5736	65.401	63.505	-0.109	0.0	0.1	0.0
5760	65.401	63.505	-0.109	0.0	0.1	0.0
5784	65.401	63.506	-0.109	0.0	0.1	0.0
5808	65.401	63.507	-0.109	0.0	0.1	0.0
5832	65.401	63.508	-0.109	0.0	0.1	0.0
5856	65.401	63.510	-0.109	0.0	0.1	0.0
5880	65.401	63.511	-0.109	0.0	0.1	0.0
5904	65.401	63.511	-0.109	0.0	0.1	0.0
5928	65.401	63.512	-0.109	0.0	0.1	0.0
5952	65.400	63.513	-0.110	0.0	0.1	0.0
5976	65.400	63.512	-0.110	0.0	0.1	0.0
6000	65.400	63.513	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.400	63.513	-0.110	0.0	0.1	0.0
6048	65.400	63.513	-0.110	0.0	0.1	0.0
6072	65.400	63.513	-0.110	0.0	0.1	0.0
6096	65.400	63.513	-0.110	0.0	0.1	0.0
6120	65.400	63.513	-0.110	0.0	0.1	0.0
6144	65.400	63.513	-0.110	0.0	0.1	0.0
6168	65.400	63.513	-0.110	0.0	0.1	0.0
6192	65.400	63.513	-0.110	0.0	0.1	0.0
6216	65.400	63.512	-0.110	0.0	0.1	0.0
6240	65.400	63.512	-0.110	0.0	0.1	0.0
6264	65.400	63.511	-0.110	0.0	0.1	0.0
6288	65.400	63.511	-0.110	0.0	0.1	0.0
6312	65.400	63.511	-0.110	0.0	0.1	0.0
6336	65.400	63.510	-0.110	0.0	0.1	0.0
6360	65.400	63.509	-0.110	0.0	0.1	0.0
6384	65.400	63.507	-0.110	0.0	0.1	0.0
6408	65.400	63.507	-0.110	0.0	0.1	0.0
6432	65.400	63.506	-0.110	0.0	0.1	0.0
6456	65.400	63.505	-0.110	0.0	0.1	0.0
6480	65.400	63.505	-0.110	0.0	0.1	0.0
6504	65.400	63.504	-0.110	0.0	0.1	0.0
6528	65.400	63.502	-0.110	0.0	0.1	0.0
6552	65.400	63.502	-0.110	0.0	0.1	0.0
6576	65.400	63.500	-0.110	0.0	0.1	0.0
6600	65.400	63.500	-0.110	0.0	0.1	0.0
6624	65.400	63.499	-0.110	0.0	0.1	0.0
6648	65.400	63.498	-0.110	0.0	0.1	0.0
6672	65.400	63.498	-0.110	0.0	0.0	0.0
6696	65.400	63.497	-0.110	0.0	0.0	0.0
6720	65.400	63.497	-0.110	0.0	0.0	0.0
6744	65.400	63.497	-0.110	0.0	0.0	0.0
6768	65.400	63.496	-0.110	0.0	0.0	0.0
6792	65.400	63.496	-0.110	0.0	0.0	0.0
6816	65.400	63.496	-0.110	0.0	0.0	0.0
6840	65.400	63.496	-0.110	0.0	0.0	0.0
6864	65.400	63.496	-0.110	0.0	0.0	0.0
6888	65.400	63.496	-0.110	0.0	0.0	0.0
6912	65.400	63.496	-0.110	0.0	0.0	0.0
6936	65.400	63.496	-0.110	0.0	0.0	0.0
6960	65.400	63.496	-0.110	0.0	0.0	0.0
6984	65.400	63.496	-0.110	0.0	0.0	0.0
7008	65.400	63.496	-0.110	0.0	0.0	0.0
7032	65.400	63.496	-0.110	0.0	0.0	0.0
7056	65.400	63.496	-0.110	0.0	0.0	0.0
7080	65.400	63.495	-0.110	0.0	0.0	0.0
7104	65.400	63.495	-0.110	0.0	0.0	0.0
7128	65.400	63.495	-0.110	0.0	0.0	0.0
7152	65.400	63.495	-0.110	0.0	0.0	0.0
7176	65.400	63.495	-0.110	0.0	0.0	0.0
7200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.495	-0.110	0.0	0.0	0.0
7248	65.400	63.495	-0.110	0.0	0.0	0.0
7272	65.400	63.495	-0.110	0.0	0.0	0.0
7296	65.400	63.495	-0.110	0.0	0.0	0.0
7320	65.400	63.495	-0.110	0.0	0.0	0.0
7344	65.400	63.495	-0.110	0.0	0.0	0.0
7368	65.400	63.495	-0.110	0.0	0.0	0.0
7392	65.400	63.495	-0.110	0.0	0.0	0.0
7416	65.400	63.495	-0.110	0.0	0.0	0.0
7440	65.400	63.495	-0.110	0.0	0.0	0.0
7464	65.400	63.495	-0.110	0.0	0.0	0.0
7488	65.400	63.495	-0.110	0.0	0.0	0.0
7512	65.400	63.495	-0.110	0.0	0.0	0.0
7536	65.400	63.495	-0.110	0.0	0.0	0.0
7560	65.400	63.495	-0.110	0.0	0.0	0.0
7584	65.400	63.495	-0.110	0.0	0.0	0.0
7608	65.400	63.495	-0.110	0.0	0.0	0.0
7632	65.400	63.495	-0.110	0.0	0.0	0.0
7656	65.400	63.495	-0.110	0.0	0.0	0.0
7680	65.400	63.495	-0.110	0.0	0.0	0.0
7704	65.400	63.495	-0.110	0.0	0.0	0.0
7728	65.400	63.495	-0.110	0.0	0.0	0.0
7752	65.400	63.495	-0.110	0.0	0.0	0.0
7776	65.400	63.495	-0.110	0.0	0.0	0.0
7800	65.400	63.495	-0.110	0.0	0.0	0.0
7824	65.400	63.495	-0.110	0.0	0.0	0.0
7848	65.400	63.495	-0.110	0.0	0.0	0.0
7872	65.400	63.495	-0.110	0.0	0.0	0.0
7896	65.400	63.495	-0.110	0.0	0.0	0.0
7920	65.400	63.495	-0.110	0.0	0.0	0.0
7944	65.400	63.495	-0.110	0.0	0.0	0.0
7968	65.400	63.495	-0.110	0.0	0.0	0.0
7992	65.400	63.495	-0.110	0.0	0.0	0.0
8016	65.400	63.495	-0.110	0.0	0.0	0.0
8040	65.400	63.495	-0.110	0.0	0.0	0.0
8064	65.400	63.495	-0.110	0.0	0.0	0.0
8088	65.400	63.495	-0.110	0.0	0.0	0.0
8112	65.400	63.495	-0.110	0.0	0.0	0.0
8136	65.400	63.495	-0.110	0.0	0.0	0.0
8160	65.400	63.495	-0.110	0.0	0.0	0.0
8184	65.400	63.495	-0.110	0.0	0.0	0.0
8208	65.400	63.495	-0.110	0.0	0.0	0.0
8232	65.400	63.495	-0.110	0.0	0.0	0.0
8256	65.400	63.495	-0.110	0.0	0.0	0.0
8280	65.400	63.495	-0.110	0.0	0.0	0.0
8304	65.400	63.495	-0.110	0.0	0.0	0.0
8328	65.400	63.495	-0.110	0.0	0.0	0.0
8352	65.400	63.495	-0.110	0.0	0.0	0.0
8376	65.400	63.495	-0.110	0.0	0.0	0.0
8400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.495	-0.110	0.0	0.0	0.0
8448	65.400	63.495	-0.110	0.0	0.0	0.0
8472	65.400	63.495	-0.110	0.0	0.0	0.0
8496	65.400	63.495	-0.110	0.0	0.0	0.0
8520	65.400	63.495	-0.110	0.0	0.0	0.0
8544	65.400	63.495	-0.110	0.0	0.0	0.0
8568	65.400	63.495	-0.110	0.0	0.0	0.0
8592	65.400	63.495	-0.110	0.0	0.0	0.0
8616	65.400	63.495	-0.110	0.0	0.0	0.0
8640	65.400	63.495	-0.110	0.0	0.0	0.0
8664	65.400	63.495	-0.110	0.0	0.0	0.0
8688	65.400	63.495	-0.110	0.0	0.0	0.0
8712	65.400	63.495	-0.110	0.0	0.0	0.0
8736	65.400	63.495	-0.110	0.0	0.0	0.0
8760	65.400	63.495	-0.110	0.0	0.0	0.0
8784	65.400	63.495	-0.110	0.0	0.0	0.0
8808	65.400	63.495	-0.110	0.0	0.0	0.0
8832	65.400	63.495	-0.110	0.0	0.0	0.0
8856	65.400	63.495	-0.110	0.0	0.0	0.0
8880	65.400	63.495	-0.110	0.0	0.0	0.0
8904	65.400	63.495	-0.110	0.0	0.0	0.0
8928	65.400	63.495	-0.110	0.0	0.0	0.0
8952	65.400	63.495	-0.110	0.0	0.0	0.0
8976	65.400	63.495	-0.110	0.0	0.0	0.0
9000	65.400	63.495	-0.110	0.0	0.0	0.0
9024	65.400	63.495	-0.110	0.0	0.0	0.0
9048	65.400	63.495	-0.110	0.0	0.0	0.0
9072	65.400	63.495	-0.110	0.0	0.0	0.0
9096	65.400	63.495	-0.110	0.0	0.0	0.0
9120	65.400	63.495	-0.110	0.0	0.0	0.0
9144	65.400	63.495	-0.110	0.0	0.0	0.0
9168	65.400	63.495	-0.110	0.0	0.0	0.0
9192	65.400	63.495	-0.110	0.0	0.0	0.0
9216	65.400	63.495	-0.110	0.0	0.0	0.0
9240	65.400	63.495	-0.110	0.0	0.0	0.0
9264	65.400	63.495	-0.110	0.0	0.0	0.0
9288	65.400	63.495	-0.110	0.0	0.0	0.0
9312	65.400	63.495	-0.110	0.0	0.0	0.0
9336	65.400	63.495	-0.110	0.0	0.0	0.0
9360	65.400	63.495	-0.110	0.0	0.0	0.0
9384	65.400	63.495	-0.110	0.0	0.0	0.0
9408	65.400	63.495	-0.110	0.0	0.0	0.0
9432	65.400	63.495	-0.110	0.0	0.0	0.0
9456	65.400	63.495	-0.110	0.0	0.0	0.0
9480	65.400	63.495	-0.110	0.0	0.0	0.0
9504	65.400	63.495	-0.110	0.0	0.0	0.0
9528	65.400	63.495	-0.110	0.0	0.0	0.0
9552	65.400	63.495	-0.110	0.0	0.0	0.0
9576	65.400	63.495	-0.110	0.0	0.0	0.0
9600	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.495	-0.110	0.0	0.0	0.0
9648	65.400	63.495	-0.110	0.0	0.0	0.0
9672	65.400	63.495	-0.110	0.0	0.0	0.0
9696	65.400	63.495	-0.110	0.0	0.0	0.0
9720	65.400	63.495	-0.110	0.0	0.0	0.0
9744	65.400	63.495	-0.110	0.0	0.0	0.0
9768	65.400	63.495	-0.110	0.0	0.0	0.0
9792	65.400	63.495	-0.110	0.0	0.0	0.0
9816	65.400	63.495	-0.110	0.0	0.0	0.0
9840	65.400	63.495	-0.110	0.0	0.0	0.0
9864	65.400	63.495	-0.110	0.0	0.0	0.0
9888	65.400	63.495	-0.110	0.0	0.0	0.0
9912	65.400	63.495	-0.110	0.0	0.0	0.0
9936	65.400	63.495	-0.110	0.0	0.0	0.0
9960	65.400	63.495	-0.110	0.0	0.0	0.0
9984	65.400	63.495	-0.110	0.0	0.0	0.0
10008	65.400	63.495	-0.110	0.0	0.0	0.0
10032	65.400	63.495	-0.110	0.0	0.0	0.0
10056	65.400	63.495	-0.110	0.0	0.0	0.0
10080	65.400	63.495	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	63.494	-0.110	0.0	0.0	0.0
14448	65.400	63.494	-0.110	0.0	0.0	0.0
14472	65.400	63.494	-0.110	0.0	0.0	0.0
14496	65.400	63.494	-0.110	0.0	0.0	0.0
14520	65.400	63.494	-0.110	0.0	0.0	0.0
14544	65.400	63.494	-0.110	0.0	0.0	0.0
14568	65.400	63.494	-0.110	0.0	0.0	0.0
14592	65.400	63.494	-0.110	0.0	0.0	0.0
14616	65.400	63.494	-0.110	0.0	0.0	0.0
14640	65.400	63.494	-0.110	0.0	0.0	0.0
14664	65.400	63.494	-0.110	0.0	0.0	0.0
14688	65.400	63.494	-0.110	0.0	0.0	0.0
14712	65.400	63.494	-0.110	0.0	0.0	0.0
14736	65.400	63.494	-0.110	0.0	0.0	0.0
14760	65.400	63.494	-0.110	0.0	0.0	0.0
14784	65.400	63.494	-0.110	0.0	0.0	0.0
14808	65.400	63.494	-0.110	0.0	0.0	0.0
14832	65.400	63.494	-0.110	0.0	0.0	0.0
14856	65.400	63.494	-0.110	0.0	0.0	0.0
14880	65.400	63.494	-0.110	0.0	0.0	0.0
14904	65.400	63.494	-0.110	0.0	0.0	0.0
14928	65.400	63.494	-0.110	0.0	0.0	0.0
14952	65.400	63.494	-0.110	0.0	0.0	0.0
14976	65.400	63.494	-0.110	0.0	0.0	0.0
15000	65.400	63.494	-0.110	0.0	0.0	0.0
15024	65.400	63.494	-0.110	0.0	0.0	0.0
15048	65.400	63.494	-0.110	0.0	0.0	0.0
15072	65.400	63.494	-0.110	0.0	0.0	0.0
15096	65.400	63.494	-0.110	0.0	0.0	0.0
15120	65.400	63.494	-0.110	0.0	0.0	0.0
15144	65.400	63.494	-0.110	0.0	0.0	0.0
15168	65.400	63.494	-0.110	0.0	0.0	0.0
15192	65.400	63.494	-0.110	0.0	0.0	0.0
15216	65.400	63.494	-0.110	0.0	0.0	0.0
15240	65.400	63.494	-0.110	0.0	0.0	0.0
15264	65.400	63.494	-0.110	0.0	0.0	0.0
15288	65.400	63.494	-0.110	0.0	0.0	0.0
15312	65.400	63.494	-0.110	0.0	0.0	0.0
15336	65.400	63.494	-0.110	0.0	0.0	0.0
15360	65.400	63.494	-0.110	0.0	0.0	0.0
15384	65.400	63.494	-0.110	0.0	0.0	0.0
15408	65.400	63.494	-0.110	0.0	0.0	0.0
15432	65.400	63.494	-0.110	0.0	0.0	0.0
15456	65.400	63.494	-0.110	0.0	0.0	0.0
15480	65.400	63.494	-0.110	0.0	0.0	0.0
15504	65.400	63.494	-0.110	0.0	0.0	0.0
15528	65.400	63.494	-0.110	0.0	0.0	0.0
15552	65.400	63.494	-0.110	0.0	0.0	0.0
15576	65.400	63.494	-0.110	0.0	0.0	0.0
15600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	63.494	-0.110	0.0	0.0	0.0
15648	65.400	63.494	-0.110	0.0	0.0	0.0
15672	65.400	63.494	-0.110	0.0	0.0	0.0
15696	65.400	63.494	-0.110	0.0	0.0	0.0
15720	65.400	63.494	-0.110	0.0	0.0	0.0
15744	65.400	63.494	-0.110	0.0	0.0	0.0
15768	65.400	63.494	-0.110	0.0	0.0	0.0
15792	65.400	63.494	-0.110	0.0	0.0	0.0
15816	65.400	63.494	-0.110	0.0	0.0	0.0
15840	65.400	63.494	-0.110	0.0	0.0	0.0
15864	65.400	63.494	-0.110	0.0	0.0	0.0
15888	65.400	63.494	-0.110	0.0	0.0	0.0
15912	65.400	63.494	-0.110	0.0	0.0	0.0
15936	65.400	63.494	-0.110	0.0	0.0	0.0
15960	65.400	63.494	-0.110	0.0	0.0	0.0
15984	65.400	63.494	-0.110	0.0	0.0	0.0
16008	65.400	63.494	-0.110	0.0	0.0	0.0
16032	65.400	63.494	-0.110	0.0	0.0	0.0
16056	65.400	63.494	-0.110	0.0	0.0	0.0
16080	65.400	63.494	-0.110	0.0	0.0	0.0
16104	65.400	63.494	-0.110	0.0	0.0	0.0
16128	65.400	63.494	-0.110	0.0	0.0	0.0
16152	65.400	63.494	-0.110	0.0	0.0	0.0
16176	65.400	63.494	-0.110	0.0	0.0	0.0
16200	65.400	63.494	-0.110	0.0	0.0	0.0
16224	65.400	63.494	-0.110	0.0	0.0	0.0
16248	65.400	63.494	-0.110	0.0	0.0	0.0
16272	65.400	63.494	-0.110	0.0	0.0	0.0
16296	65.400	63.494	-0.110	0.0	0.0	0.0
16320	65.400	63.494	-0.110	0.0	0.0	0.0
16344	65.400	63.494	-0.110	0.0	0.0	0.0
16368	65.400	63.494	-0.110	0.0	0.0	0.0
16392	65.400	63.494	-0.110	0.0	0.0	0.0
16416	65.400	63.494	-0.110	0.0	0.0	0.0
16440	65.400	63.494	-0.110	0.0	0.0	0.0
16464	65.400	63.494	-0.110	0.0	0.0	0.0
16488	65.400	63.494	-0.110	0.0	0.0	0.0
16512	65.400	63.494	-0.110	0.0	0.0	0.0
16536	65.400	63.494	-0.110	0.0	0.0	0.0
16560	65.400	63.494	-0.110	0.0	0.0	0.0
16584	65.400	63.494	-0.110	0.0	0.0	0.0
16608	65.400	63.494	-0.110	0.0	0.0	0.0
16632	65.400	63.494	-0.110	0.0	0.0	0.0
16656	65.400	63.494	-0.110	0.0	0.0	0.0
16680	65.400	63.494	-0.110	0.0	0.0	0.0
16704	65.400	63.494	-0.110	0.0	0.0	0.0
16728	65.400	63.494	-0.110	0.0	0.0	0.0
16752	65.400	63.494	-0.110	0.0	0.0	0.0
16776	65.400	63.494	-0.110	0.0	0.0	0.0
16800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	63.494	-0.110	0.0	0.0	0.0
16848	65.400	63.494	-0.110	0.0	0.0	0.0
16872	65.400	63.494	-0.110	0.0	0.0	0.0
16896	65.400	63.494	-0.110	0.0	0.0	0.0
16920	65.400	63.494	-0.110	0.0	0.0	0.0
16944	65.400	63.494	-0.110	0.0	0.0	0.0
16968	65.400	63.494	-0.110	0.0	0.0	0.0
16992	65.400	63.494	-0.110	0.0	0.0	0.0
17016	65.400	63.494	-0.110	0.0	0.0	0.0
17040	65.400	63.494	-0.110	0.0	0.0	0.0
17064	65.400	63.494	-0.110	0.0	0.0	0.0
17088	65.400	63.494	-0.110	0.0	0.0	0.0
17112	65.400	63.494	-0.110	0.0	0.0	0.0
17136	65.400	63.494	-0.110	0.0	0.0	0.0
17160	65.400	63.494	-0.110	0.0	0.0	0.0
17184	65.400	63.494	-0.110	0.0	0.0	0.0
17208	65.400	63.494	-0.110	0.0	0.0	0.0
17232	65.400	63.494	-0.110	0.0	0.0	0.0
17256	65.400	63.494	-0.110	0.0	0.0	0.0
17280	65.400	63.494	-0.110	0.0	0.0	0.0
17304	65.400	63.494	-0.110	0.0	0.0	0.0
17328	65.400	63.494	-0.110	0.0	0.0	0.0
17352	65.400	63.494	-0.110	0.0	0.0	0.0
17376	65.400	63.494	-0.110	0.0	0.0	0.0
17400	65.400	63.494	-0.110	0.0	0.0	0.0
17424	65.400	63.494	-0.110	0.0	0.0	0.0
17448	65.400	63.494	-0.110	0.0	0.0	0.0
17472	65.400	63.494	-0.110	0.0	0.0	0.0
17496	65.400	63.494	-0.110	0.0	0.0	0.0
17520	65.400	63.494	-0.110	0.0	0.0	0.0
17544	65.400	63.494	-0.110	0.0	0.0	0.0
17568	65.400	63.494	-0.110	0.0	0.0	0.0
17592	65.400	63.494	-0.110	0.0	0.0	0.0
17616	65.400	63.494	-0.110	0.0	0.0	0.0
17640	65.400	63.494	-0.110	0.0	0.0	0.0
17664	65.400	63.494	-0.110	0.0	0.0	0.0
17688	65.400	63.494	-0.110	0.0	0.0	0.0
17712	65.400	63.494	-0.110	0.0	0.0	0.0
17736	65.400	63.494	-0.110	0.0	0.0	0.0
17760	65.400	63.494	-0.110	0.0	0.0	0.0
17784	65.400	63.494	-0.110	0.0	0.0	0.0
17808	65.400	63.494	-0.110	0.0	0.0	0.0
17832	65.400	63.494	-0.110	0.0	0.0	0.0
17856	65.400	63.494	-0.110	0.0	0.0	0.0
17880	65.400	63.494	-0.110	0.0	0.0	0.0
17904	65.400	63.494	-0.110	0.0	0.0	0.0
17928	65.400	63.494	-0.110	0.0	0.0	0.0
17952	65.400	63.494	-0.110	0.0	0.0	0.0
17976	65.400	63.494	-0.110	0.0	0.0	0.0
18000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.400	63.494	-0.110	0.0	0.0	0.0
18048	65.400	63.494	-0.110	0.0	0.0	0.0
18072	65.400	63.494	-0.110	0.0	0.0	0.0
18096	65.400	63.494	-0.110	0.0	0.0	0.0
18120	65.400	63.494	-0.110	0.0	0.0	0.0
18144	65.400	63.494	-0.110	0.0	0.0	0.0
18168	65.400	63.494	-0.110	0.0	0.0	0.0
18192	65.400	63.494	-0.110	0.0	0.0	0.0
18216	65.400	63.494	-0.110	0.0	0.0	0.0
18240	65.400	63.494	-0.110	0.0	0.0	0.0
18264	65.400	63.494	-0.110	0.0	0.0	0.0
18288	65.400	63.494	-0.110	0.0	0.0	0.0
18312	65.400	63.494	-0.110	0.0	0.0	0.0
18336	65.400	63.494	-0.110	0.0	0.0	0.0
18360	65.400	63.494	-0.110	0.0	0.0	0.0
18384	65.400	63.494	-0.110	0.0	0.0	0.0
18408	65.400	63.494	-0.110	0.0	0.0	0.0
18432	65.400	63.494	-0.110	0.0	0.0	0.0
18456	65.400	63.494	-0.110	0.0	0.0	0.0
18480	65.400	63.494	-0.110	0.0	0.0	0.0
18504	65.400	63.494	-0.110	0.0	0.0	0.0
18528	65.400	63.494	-0.110	0.0	0.0	0.0
18552	65.400	63.494	-0.110	0.0	0.0	0.0
18576	65.400	63.494	-0.110	0.0	0.0	0.0
18600	65.400	63.494	-0.110	0.0	0.0	0.0
18624	65.400	63.494	-0.110	0.0	0.0	0.0
18648	65.400	63.494	-0.110	0.0	0.0	0.0
18672	65.400	63.494	-0.110	0.0	0.0	0.0
18696	65.400	63.494	-0.110	0.0	0.0	0.0
18720	65.400	63.494	-0.110	0.0	0.0	0.0
18744	65.400	63.494	-0.110	0.0	0.0	0.0
18768	65.400	63.494	-0.110	0.0	0.0	0.0
18792	65.400	63.494	-0.110	0.0	0.0	0.0
18816	65.400	63.494	-0.110	0.0	0.0	0.0
18840	65.400	63.494	-0.110	0.0	0.0	0.0
18864	65.400	63.494	-0.110	0.0	0.0	0.0
18888	65.400	63.494	-0.110	0.0	0.0	0.0
18912	65.400	63.494	-0.110	0.0	0.0	0.0
18936	65.400	63.494	-0.110	0.0	0.0	0.0
18960	65.400	63.494	-0.110	0.0	0.0	0.0
18984	65.400	63.494	-0.110	0.0	0.0	0.0
19008	65.400	63.494	-0.110	0.0	0.0	0.0
19032	65.400	63.494	-0.110	0.0	0.0	0.0
19056	65.400	63.494	-0.110	0.0	0.0	0.0
19080	65.400	63.494	-0.110	0.0	0.0	0.0
19104	65.400	63.494	-0.110	0.0	0.0	0.0
19128	65.400	63.494	-0.110	0.0	0.0	0.0
19152	65.400	63.494	-0.110	0.0	0.0	0.0
19176	65.400	63.494	-0.110	0.0	0.0	0.0
19200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.400	63.494	-0.110	0.0	0.0	0.0
19248	65.400	63.494	-0.110	0.0	0.0	0.0
19272	65.400	63.494	-0.110	0.0	0.0	0.0
19296	65.400	63.494	-0.110	0.0	0.0	0.0
19320	65.400	63.494	-0.110	0.0	0.0	0.0
19344	65.400	63.494	-0.110	0.0	0.0	0.0
19368	65.400	63.494	-0.110	0.0	0.0	0.0
19392	65.400	63.494	-0.110	0.0	0.0	0.0
19416	65.400	63.494	-0.110	0.0	0.0	0.0
19440	65.400	63.494	-0.110	0.0	0.0	0.0
19464	65.400	63.494	-0.110	0.0	0.0	0.0
19488	65.400	63.494	-0.110	0.0	0.0	0.0
19512	65.400	63.494	-0.110	0.0	0.0	0.0
19536	65.400	63.494	-0.110	0.0	0.0	0.0
19560	65.400	63.494	-0.110	0.0	0.0	0.0
19584	65.400	63.494	-0.110	0.0	0.0	0.0
19608	65.400	63.494	-0.110	0.0	0.0	0.0
19632	65.400	63.494	-0.110	0.0	0.0	0.0
19656	65.400	63.494	-0.110	0.0	0.0	0.0
19680	65.400	63.494	-0.110	0.0	0.0	0.0
19704	65.400	63.494	-0.110	0.0	0.0	0.0
19728	65.400	63.494	-0.110	0.0	0.0	0.0
19752	65.400	63.494	-0.110	0.0	0.0	0.0
19776	65.400	63.494	-0.110	0.0	0.0	0.0
19800	65.400	63.494	-0.110	0.0	0.0	0.0
19824	65.400	63.494	-0.110	0.0	0.0	0.0
19848	65.400	63.494	-0.110	0.0	0.0	0.0
19872	65.400	63.494	-0.110	0.0	0.0	0.0
19896	65.400	63.494	-0.110	0.0	0.0	0.0
19920	65.400	63.494	-0.110	0.0	0.0	0.0
19944	65.400	63.494	-0.110	0.0	0.0	0.0
19968	65.400	63.494	-0.110	0.0	0.0	0.0
19992	65.400	63.494	-0.110	0.0	0.0	0.0
20016	65.400	63.494	-0.110	0.0	0.0	0.0
20040	65.400	63.494	-0.110	0.0	0.0	0.0
20064	65.400	63.494	-0.110	0.0	0.0	0.0
20088	65.400	63.494	-0.110	0.0	0.0	0.0
20112	65.400	63.494	-0.110	0.0	0.0	0.0
20136	65.400	63.494	-0.110	0.0	0.0	0.0
20160	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.495	63.445	-0.109	0.0	0.0	0.0
48	63.495	63.445	-0.109	0.0	0.0	0.0
72	63.495	63.445	-0.109	0.0	0.0	0.0
96	63.495	63.445	-0.109	0.0	0.0	0.0
120	63.495	63.445	-0.109	0.0	0.0	0.0
144	63.495	63.445	-0.109	0.0	0.0	0.0
168	63.495	63.445	-0.109	0.0	0.0	0.0
192	63.495	63.445	-0.109	0.0	0.0	0.0
216	63.495	63.445	-0.109	0.0	0.0	0.0
240	63.495	63.445	-0.109	0.0	0.0	0.0
264	63.495	63.445	-0.109	0.0	0.0	0.0
288	63.495	63.445	-0.109	0.0	0.0	0.0
312	63.495	63.445	-0.109	0.0	0.0	0.0
336	63.495	63.445	-0.109	0.0	0.0	0.0
360	63.495	63.445	-0.109	0.0	0.0	0.0
384	63.495	63.445	-0.109	0.0	0.0	0.0
408	63.495	63.445	-0.109	0.0	0.0	0.0
432	63.495	63.445	-0.109	0.0	0.0	0.0
456	63.495	63.445	-0.109	0.0	0.0	0.0
480	63.495	63.445	-0.109	0.0	0.0	0.0
504	63.495	63.445	-0.109	0.0	0.0	0.0
528	63.495	63.445	-0.109	0.0	0.0	0.0
552	63.495	63.445	-0.109	0.0	0.0	0.0
576	63.495	63.445	-0.109	0.0	0.0	0.0
600	63.495	63.445	-0.109	0.0	0.0	0.0
624	63.495	63.445	-0.109	0.0	0.0	0.0
648	63.495	63.445	-0.109	0.0	0.0	0.0
672	63.495	63.445	-0.109	0.0	0.0	0.0
696	63.495	63.445	-0.109	0.0	0.0	0.0
720	63.495	63.446	-0.109	0.0	0.0	0.0
744	63.495	63.446	-0.109	0.0	0.0	0.0
768	63.495	63.446	-0.109	0.0	0.0	0.0
792	63.495	63.446	-0.109	0.0	0.0	0.0
816	63.495	63.446	-0.109	0.0	0.0	0.0
840	63.495	63.446	-0.109	0.0	0.0	0.0
864	63.495	63.446	-0.109	0.0	0.0	0.0
888	63.495	63.446	-0.109	0.0	0.0	0.0
912	63.495	63.446	-0.109	0.0	0.0	0.0
936	63.495	63.446	-0.109	0.0	0.0	0.0
960	63.495	63.446	-0.109	0.0	0.0	0.0
984	63.495	63.446	-0.109	0.0	0.0	0.0
1008	63.495	63.446	-0.109	0.0	0.0	0.0
1032	63.495	63.446	-0.109	0.0	0.0	0.0
1056	63.495	63.446	-0.109	0.0	0.0	0.0
1080	63.495	63.446	-0.109	0.0	0.0	0.0
1104	63.495	63.446	-0.109	0.0	0.0	0.0
1128	63.495	63.446	-0.109	0.0	0.0	0.0
1152	63.495	63.446	-0.109	0.0	0.0	0.0
1176	63.495	63.446	-0.109	0.0	0.0	0.0
1200	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.446	-0.109	0.0	0.0	0.0
1248	63.495	63.446	-0.109	0.0	0.0	0.0
1272	63.495	63.446	-0.109	0.0	0.0	0.0
1296	63.495	63.446	-0.109	0.0	0.0	0.0
1320	63.495	63.446	-0.109	0.0	0.0	0.0
1344	63.495	63.446	-0.109	0.0	0.0	0.0
1368	63.495	63.446	-0.109	0.0	0.0	0.0
1392	63.495	63.446	-0.109	0.0	0.0	0.0
1416	63.495	63.446	-0.109	0.0	0.0	0.0
1440	63.495	63.446	-0.109	0.0	0.0	0.0
1464	63.495	63.446	-0.109	0.0	0.0	0.0
1488	63.495	63.446	-0.109	0.0	0.0	0.0
1512	63.495	63.446	-0.109	0.0	0.0	0.0
1536	63.495	63.446	-0.109	0.0	0.0	0.0
1560	63.495	63.446	-0.109	0.0	0.0	0.0
1584	63.495	63.446	-0.109	0.0	0.0	0.0
1608	63.495	63.446	-0.109	0.0	0.0	0.0
1632	63.495	63.446	-0.109	0.0	0.0	0.0
1656	63.495	63.446	-0.109	0.0	0.0	0.0
1680	63.495	63.446	-0.109	0.0	0.0	0.0
1704	63.495	63.446	-0.109	0.0	0.0	0.0
1728	63.495	63.446	-0.109	0.0	0.0	0.0
1752	63.495	63.446	-0.109	0.0	0.0	0.0
1776	63.495	63.446	-0.109	0.0	0.0	0.0
1800	63.495	63.446	-0.109	0.0	0.0	0.0
1824	63.495	63.446	-0.109	0.0	0.0	0.0
1848	63.495	63.446	-0.109	0.0	0.0	0.0
1872	63.495	63.446	-0.109	0.0	0.0	0.0
1896	63.495	63.446	-0.109	0.0	0.0	0.0
1920	63.495	63.446	-0.109	0.0	0.0	0.0
1944	63.495	63.446	-0.109	0.0	0.0	0.0
1968	63.495	63.446	-0.109	0.0	0.0	0.0
1992	63.495	63.446	-0.109	0.0	0.0	0.0
2016	63.495	63.446	-0.109	0.0	0.0	0.0
2040	63.495	63.446	-0.109	0.0	0.1	0.0
2064	63.495	63.446	-0.109	0.0	0.1	0.0
2088	63.495	63.446	-0.109	0.0	0.1	0.0
2112	63.495	63.446	-0.109	0.0	0.1	0.0
2136	63.495	63.446	-0.109	0.0	0.1	0.0
2160	63.495	63.446	-0.109	0.0	0.1	0.0
2184	63.495	63.446	-0.109	0.0	0.1	0.0
2208	63.495	63.446	-0.109	0.0	0.1	0.0
2232	63.495	63.446	-0.109	0.0	0.1	0.0
2256	63.495	63.446	-0.109	0.0	0.1	0.0
2280	63.495	63.446	-0.109	0.0	0.1	0.0
2304	63.495	63.446	-0.109	0.0	0.1	0.0
2328	63.495	63.446	-0.109	0.0	0.1	0.0
2352	63.495	63.446	-0.109	0.0	0.1	0.0
2376	63.495	63.446	-0.109	0.0	0.1	0.0
2400	63.495	63.446	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.495	63.446	-0.109	0.0	0.1	0.0
2448	63.495	63.446	-0.109	0.0	0.1	0.0
2472	63.495	63.446	-0.109	0.0	0.1	0.0
2496	63.495	63.446	-0.109	0.0	0.1	0.0
2520	63.495	63.446	-0.109	0.0	0.1	0.0
2544	63.495	63.446	-0.109	0.0	0.1	0.0
2568	63.495	63.446	-0.109	0.0	0.1	0.0
2592	63.495	63.446	-0.109	0.0	0.1	0.0
2616	63.495	63.446	-0.109	0.0	0.1	0.0
2640	63.495	63.446	-0.109	0.0	0.1	0.0
2664	63.495	63.446	-0.109	0.0	0.1	0.0
2688	63.495	63.446	-0.109	0.0	0.1	0.0
2712	63.495	63.446	-0.109	0.0	0.1	0.0
2736	63.495	63.446	-0.109	0.0	0.1	0.0
2760	63.495	63.446	-0.109	0.0	0.1	0.0
2784	63.495	63.446	-0.109	0.0	0.1	0.0
2808	63.495	63.446	-0.109	0.0	0.1	0.0
2832	63.495	63.446	-0.109	0.0	0.1	0.0
2856	63.495	63.446	-0.109	0.0	0.1	0.0
2880	63.495	63.446	-0.109	0.0	0.1	0.0
2904	63.495	63.446	-0.109	0.0	0.1	0.0
2928	63.495	63.447	-0.109	0.0	0.1	0.0
2952	63.495	63.447	-0.109	0.0	0.1	0.0
2976	63.495	63.447	-0.109	0.0	0.1	0.0
3000	63.495	63.447	-0.109	0.0	0.1	0.0
3024	63.495	63.447	-0.109	0.0	0.1	0.0
3048	63.496	63.447	-0.109	0.0	0.1	0.0
3072	63.496	63.447	-0.109	0.0	0.1	0.0
3096	63.496	63.447	-0.109	0.0	0.1	0.0
3120	63.496	63.447	-0.109	0.0	0.1	0.0
3144	63.496	63.447	-0.109	0.0	0.1	0.0
3168	63.496	63.447	-0.109	0.0	0.1	0.0
3192	63.496	63.447	-0.109	0.0	0.1	0.0
3216	63.496	63.447	-0.109	0.0	0.1	0.0
3240	63.496	63.447	-0.108	0.0	0.1	0.0
3264	63.496	63.447	-0.108	0.0	0.1	0.0
3288	63.496	63.447	-0.108	0.0	0.1	0.0
3312	63.496	63.447	-0.108	0.0	0.1	0.0
3336	63.496	63.447	-0.108	0.0	0.1	0.0
3360	63.496	63.447	-0.108	0.0	0.1	0.0
3384	63.496	63.447	-0.108	0.0	0.1	0.0
3408	63.496	63.447	-0.108	0.0	0.1	0.0
3432	63.496	63.447	-0.108	0.0	0.1	0.0
3456	63.496	63.448	-0.108	0.0	0.1	0.0
3480	63.496	63.448	-0.108	0.0	0.1	0.0
3504	63.496	63.448	-0.108	0.0	0.1	0.0
3528	63.496	63.448	-0.108	0.0	0.1	0.0
3552	63.496	63.448	-0.108	0.0	0.1	0.0
3576	63.496	63.448	-0.108	0.0	0.1	0.0
3600	63.496	63.448	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.496	63.448	-0.108	0.0	0.1	0.0
3648	63.496	63.448	-0.108	0.0	0.1	0.0
3672	63.496	63.448	-0.108	0.0	0.1	0.0
3696	63.496	63.448	-0.108	0.0	0.1	0.0
3720	63.496	63.448	-0.108	0.0	0.1	0.0
3744	63.497	63.449	-0.108	0.0	0.1	0.0
3768	63.497	63.449	-0.107	0.0	0.1	0.0
3792	63.497	63.449	-0.107	0.0	0.1	0.0
3816	63.497	63.449	-0.107	0.0	0.1	0.0
3840	63.497	63.449	-0.107	0.0	0.1	0.0
3864	63.497	63.449	-0.107	0.0	0.1	0.0
3888	63.497	63.449	-0.107	0.0	0.2	0.0
3912	63.497	63.449	-0.107	0.0	0.2	0.0
3936	63.497	63.450	-0.107	0.0	0.2	0.0
3960	63.497	63.450	-0.107	0.0	0.2	0.0
3984	63.497	63.450	-0.107	0.0	0.2	0.0
4008	63.497	63.450	-0.107	0.0	0.2	0.0
4032	63.497	63.450	-0.107	0.0	0.2	0.0
4056	63.498	63.451	-0.106	0.0	0.2	0.0
4080	63.498	63.451	-0.106	0.0	0.2	0.0
4104	63.498	63.451	-0.106	0.0	0.2	0.0
4128	63.498	63.451	-0.106	0.0	0.2	0.0
4152	63.498	63.451	-0.106	0.0	0.2	0.0
4176	63.498	63.451	-0.106	0.0	0.2	0.1
4200	63.498	63.451	-0.106	0.0	0.2	0.1
4224	63.498	63.451	-0.106	0.0	0.2	0.1
4248	63.498	63.452	-0.106	0.0	0.2	0.1
4272	63.498	63.452	-0.106	0.0	0.2	0.1
4296	63.498	63.452	-0.106	0.0	0.2	0.1
4320	63.498	63.452	-0.106	0.0	0.2	0.1
4344	63.499	63.453	-0.106	0.0	0.2	0.1
4368	63.499	63.453	-0.105	0.0	0.3	0.1
4392	63.499	63.453	-0.105	0.0	0.3	0.1
4416	63.499	63.453	-0.105	0.0	0.3	0.1
4440	63.499	63.453	-0.105	0.0	0.3	0.1
4464	63.499	63.454	-0.105	0.0	0.3	0.1
4488	63.499	63.454	-0.105	0.0	0.3	0.1
4512	63.499	63.454	-0.105	0.0	0.3	0.1
4536	63.499	63.454	-0.105	0.0	0.3	0.1
4560	63.500	63.455	-0.104	0.0	0.3	0.1
4584	63.500	63.455	-0.104	0.0	0.3	0.1
4608	63.500	63.455	-0.104	0.0	0.3	0.1
4632	63.500	63.455	-0.104	0.0	0.3	0.1
4656	63.500	63.455	-0.104	0.0	0.3	0.1
4680	63.500	63.455	-0.104	0.0	0.3	0.1
4704	63.500	63.455	-0.104	0.0	0.3	0.1
4728	63.500	63.455	-0.104	0.0	0.3	0.1
4752	63.501	63.456	-0.103	0.0	0.3	0.1
4776	63.501	63.456	-0.103	0.0	0.4	0.1
4800	63.501	63.456	-0.103	0.0	0.4	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.501	63.456	-0.103	0.0	0.4	0.1
4848	63.501	63.456	-0.103	0.0	0.4	0.1
4872	63.502	63.456	-0.103	0.0	0.3	0.1
4896	63.502	63.456	-0.103	0.0	0.3	0.1
4920	63.502	63.456	-0.103	0.0	0.3	0.1
4944	63.502	63.456	-0.102	0.0	0.3	0.1
4968	63.502	63.456	-0.102	0.0	0.3	0.1
4992	63.502	63.456	-0.102	0.0	0.3	0.1
5016	63.502	63.456	-0.102	0.0	0.3	0.1
5040	63.502	63.456	-0.102	0.0	0.3	0.1
5064	63.502	63.456	-0.102	0.0	0.3	0.1
5088	63.502	63.456	-0.102	0.0	0.3	0.1
5112	63.502	63.456	-0.102	0.0	0.3	0.1
5136	63.502	63.456	-0.102	0.0	0.3	0.1
5160	63.502	63.456	-0.102	0.0	0.3	0.1
5184	63.502	63.456	-0.103	0.0	0.3	0.1
5208	63.502	63.456	-0.103	0.0	0.3	0.1
5232	63.502	63.456	-0.103	0.0	0.3	0.1
5256	63.501	63.456	-0.103	0.0	0.4	0.1
5280	63.501	63.457	-0.103	0.0	0.4	0.1
5304	63.501	63.459	-0.103	0.0	0.4	0.1
5328	63.501	63.461	-0.103	0.0	0.4	0.1
5352	63.501	63.464	-0.103	0.0	0.4	0.1
5376	63.500	63.467	-0.104	0.0	0.3	0.1
5400	63.500	63.470	-0.104	0.0	0.3	0.1
5424	63.500	63.473	-0.104	0.0	0.3	0.1
5448	63.500	63.476	-0.104	0.0	0.3	0.1
5472	63.500	63.479	-0.104	0.0	0.3	0.1
5496	63.500	63.482	-0.104	0.0	0.3	0.1
5520	63.500	63.484	-0.104	0.0	0.3	0.1
5544	63.500	63.487	-0.104	0.0	0.3	0.1
5568	63.500	63.489	-0.104	0.0	0.3	0.1
5592	63.501	63.491	-0.103	0.0	0.3	0.1
5616	63.502	63.493	-0.103	0.0	0.3	0.1
5640	63.502	63.496	-0.102	0.0	0.2	0.1
5664	63.503	63.498	-0.101	0.0	0.2	0.1
5688	63.503	63.499	-0.101	0.0	0.2	0.1
5712	63.504	63.501	-0.100	0.0	0.1	0.1
5736	63.505	63.503	-0.099	0.0	0.1	0.1
5760	63.505	63.504	-0.099	0.0	0.1	0.1
5784	63.506	63.505	-0.098	0.0	0.1	0.1
5808	63.507	63.507	-0.098	0.0	0.1	0.1
5832	63.508	63.508	-0.096	0.0	0.1	0.1
5856	63.510	63.509	-0.094	0.0	0.1	0.1
5880	63.511	63.510	-0.093	0.0	0.1	0.1
5904	63.511	63.510	-0.093	0.0	0.1	0.1
5928	63.512	63.511	-0.092	0.0	0.1	0.0
5952	63.513	63.512	-0.091	0.0	0.0	0.0
5976	63.512	63.512	-0.092	0.0	0.0	0.0
6000	63.513	63.513	-0.091	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.513	63.513	-0.091	0.0	0.0	0.0
6048	63.513	63.513	-0.091	0.0	0.0	0.0
6072	63.513	63.513	-0.091	0.0	0.0	0.0
6096	63.513	63.513	-0.091	0.0	0.0	0.0
6120	63.513	63.513	-0.091	0.0	0.0	0.0
6144	63.513	63.513	-0.091	0.0	0.0	0.0
6168	63.513	63.513	-0.091	0.0	0.0	0.0
6192	63.513	63.513	-0.091	0.0	0.0	0.0
6216	63.512	63.512	-0.092	0.0	0.0	0.0
6240	63.512	63.512	-0.092	0.0	0.0	0.0
6264	63.511	63.511	-0.093	0.0	0.0	0.0
6288	63.511	63.511	-0.094	0.0	0.0	0.0
6312	63.511	63.510	-0.093	0.0	0.0	0.0
6336	63.510	63.509	-0.094	0.0	0.0	0.0
6360	63.509	63.509	-0.095	0.0	0.0	0.0
6384	63.507	63.508	-0.097	0.0	0.0	0.0
6408	63.507	63.506	-0.097	0.0	0.0	0.0
6432	63.506	63.506	-0.098	0.0	0.1	0.0
6456	63.505	63.505	-0.099	0.0	0.1	0.0
6480	63.505	63.504	-0.099	0.0	0.1	0.0
6504	63.504	63.503	-0.100	0.0	0.1	0.0
6528	63.502	63.501	-0.102	0.0	0.1	0.0
6552	63.502	63.500	-0.102	0.0	0.1	0.0
6576	63.500	63.499	-0.104	0.0	0.1	0.0
6600	63.500	63.497	-0.105	0.0	0.1	0.0
6624	63.499	63.496	-0.105	0.0	0.1	0.0
6648	63.498	63.495	-0.106	0.0	0.1	0.0
6672	63.498	63.493	-0.106	0.0	0.1	0.0
6696	63.497	63.492	-0.107	0.0	0.1	0.0
6720	63.497	63.490	-0.107	0.0	0.1	0.0
6744	63.497	63.489	-0.107	0.0	0.1	0.0
6768	63.496	63.487	-0.108	0.0	0.1	0.0
6792	63.496	63.486	-0.108	0.0	0.1	0.0
6816	63.496	63.484	-0.108	0.0	0.1	0.0
6840	63.496	63.482	-0.108	0.0	0.1	0.0
6864	63.496	63.481	-0.108	0.0	0.1	0.0
6888	63.496	63.479	-0.109	0.0	0.1	0.0
6912	63.496	63.477	-0.109	0.0	0.1	0.0
6936	63.496	63.476	-0.109	0.0	0.1	0.0
6960	63.496	63.474	-0.109	0.0	0.1	0.0
6984	63.496	63.472	-0.109	0.0	0.1	0.0
7008	63.496	63.470	-0.109	0.0	0.1	0.0
7032	63.496	63.468	-0.109	0.0	0.1	0.0
7056	63.496	63.466	-0.109	0.0	0.1	0.0
7080	63.495	63.465	-0.109	0.0	0.1	0.0
7104	63.495	63.462	-0.109	0.0	0.1	0.0
7128	63.495	63.461	-0.109	0.0	0.1	0.0
7152	63.495	63.459	-0.109	0.0	0.1	0.0
7176	63.495	63.458	-0.109	0.0	0.1	0.0
7200	63.495	63.456	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.495	63.454	-0.109	0.0	0.1	0.0
7248	63.495	63.452	-0.109	0.0	0.1	0.0
7272	63.495	63.450	-0.109	0.0	0.1	0.0
7296	63.495	63.448	-0.109	0.0	0.1	0.0
7320	63.495	63.448	-0.109	0.0	0.1	0.0
7344	63.495	63.447	-0.109	0.0	0.1	0.0
7368	63.495	63.447	-0.109	0.0	0.1	0.0
7392	63.495	63.447	-0.109	0.0	0.1	0.0
7416	63.495	63.447	-0.109	0.0	0.1	0.0
7440	63.495	63.446	-0.109	0.0	0.1	0.0
7464	63.495	63.446	-0.109	0.0	0.1	0.0
7488	63.495	63.446	-0.109	0.0	0.1	0.0
7512	63.495	63.446	-0.109	0.0	0.1	0.0
7536	63.495	63.446	-0.109	0.0	0.1	0.0
7560	63.495	63.446	-0.109	0.0	0.1	0.0
7584	63.495	63.446	-0.109	0.0	0.1	0.0
7608	63.495	63.446	-0.109	0.0	0.1	0.0
7632	63.495	63.446	-0.109	0.0	0.1	0.0
7656	63.495	63.446	-0.109	0.0	0.1	0.0
7680	63.495	63.446	-0.109	0.0	0.1	0.0
7704	63.495	63.446	-0.109	0.0	0.1	0.0
7728	63.495	63.446	-0.109	0.0	0.1	0.0
7752	63.495	63.446	-0.109	0.0	0.1	0.0
7776	63.495	63.446	-0.109	0.0	0.1	0.0
7800	63.495	63.446	-0.109	0.0	0.1	0.0
7824	63.495	63.446	-0.109	0.0	0.1	0.0
7848	63.495	63.446	-0.109	0.0	0.1	0.0
7872	63.495	63.446	-0.109	0.0	0.1	0.0
7896	63.495	63.446	-0.109	0.0	0.1	0.0
7920	63.495	63.446	-0.109	0.0	0.1	0.0
7944	63.495	63.446	-0.109	0.0	0.1	0.0
7968	63.495	63.446	-0.109	0.0	0.1	0.0
7992	63.495	63.446	-0.109	0.0	0.1	0.0
8016	63.495	63.446	-0.109	0.0	0.1	0.0
8040	63.495	63.446	-0.109	0.0	0.1	0.0
8064	63.495	63.446	-0.109	0.0	0.1	0.0
8088	63.495	63.446	-0.109	0.0	0.0	0.0
8112	63.495	63.446	-0.109	0.0	0.0	0.0
8136	63.495	63.446	-0.109	0.0	0.0	0.0
8160	63.495	63.446	-0.109	0.0	0.0	0.0
8184	63.495	63.446	-0.109	0.0	0.0	0.0
8208	63.495	63.446	-0.109	0.0	0.0	0.0
8232	63.495	63.446	-0.109	0.0	0.0	0.0
8256	63.495	63.446	-0.109	0.0	0.0	0.0
8280	63.495	63.446	-0.109	0.0	0.0	0.0
8304	63.495	63.446	-0.109	0.0	0.0	0.0
8328	63.495	63.446	-0.109	0.0	0.0	0.0
8352	63.495	63.446	-0.109	0.0	0.0	0.0
8376	63.495	63.446	-0.109	0.0	0.0	0.0
8400	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.495	63.446	-0.109	0.0	0.0	0.0
8448	63.495	63.446	-0.109	0.0	0.0	0.0
8472	63.495	63.446	-0.109	0.0	0.0	0.0
8496	63.495	63.446	-0.109	0.0	0.0	0.0
8520	63.495	63.446	-0.109	0.0	0.0	0.0
8544	63.495	63.446	-0.109	0.0	0.0	0.0
8568	63.495	63.446	-0.109	0.0	0.0	0.0
8592	63.495	63.446	-0.109	0.0	0.0	0.0
8616	63.495	63.446	-0.109	0.0	0.0	0.0
8640	63.495	63.446	-0.109	0.0	0.0	0.0
8664	63.495	63.446	-0.109	0.0	0.0	0.0
8688	63.495	63.446	-0.109	0.0	0.0	0.0
8712	63.495	63.446	-0.109	0.0	0.0	0.0
8736	63.495	63.446	-0.109	0.0	0.0	0.0
8760	63.495	63.446	-0.109	0.0	0.0	0.0
8784	63.495	63.446	-0.109	0.0	0.0	0.0
8808	63.495	63.446	-0.109	0.0	0.0	0.0
8832	63.495	63.446	-0.109	0.0	0.0	0.0
8856	63.495	63.446	-0.109	0.0	0.0	0.0
8880	63.495	63.446	-0.109	0.0	0.0	0.0
8904	63.495	63.446	-0.109	0.0	0.0	0.0
8928	63.495	63.446	-0.109	0.0	0.0	0.0
8952	63.495	63.446	-0.109	0.0	0.0	0.0
8976	63.495	63.446	-0.109	0.0	0.0	0.0
9000	63.495	63.446	-0.109	0.0	0.0	0.0
9024	63.495	63.446	-0.109	0.0	0.0	0.0
9048	63.495	63.446	-0.109	0.0	0.0	0.0
9072	63.495	63.446	-0.109	0.0	0.0	0.0
9096	63.495	63.446	-0.109	0.0	0.0	0.0
9120	63.495	63.446	-0.109	0.0	0.0	0.0
9144	63.495	63.446	-0.109	0.0	0.0	0.0
9168	63.495	63.446	-0.109	0.0	0.0	0.0
9192	63.495	63.446	-0.109	0.0	0.0	0.0
9216	63.495	63.446	-0.109	0.0	0.0	0.0
9240	63.495	63.446	-0.109	0.0	0.0	0.0
9264	63.495	63.446	-0.109	0.0	0.0	0.0
9288	63.495	63.446	-0.109	0.0	0.0	0.0
9312	63.495	63.446	-0.109	0.0	0.0	0.0
9336	63.495	63.446	-0.109	0.0	0.0	0.0
9360	63.495	63.446	-0.109	0.0	0.0	0.0
9384	63.495	63.446	-0.109	0.0	0.0	0.0
9408	63.495	63.445	-0.109	0.0	0.0	0.0
9432	63.495	63.445	-0.109	0.0	0.0	0.0
9456	63.495	63.445	-0.109	0.0	0.0	0.0
9480	63.495	63.445	-0.109	0.0	0.0	0.0
9504	63.495	63.445	-0.109	0.0	0.0	0.0
9528	63.495	63.445	-0.109	0.0	0.0	0.0
9552	63.495	63.445	-0.109	0.0	0.0	0.0
9576	63.495	63.445	-0.109	0.0	0.0	0.0
9600	63.495	63.445	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.495	63.445	-0.109	0.0	0.0	0.0
9648	63.495	63.445	-0.109	0.0	0.0	0.0
9672	63.495	63.445	-0.109	0.0	0.0	0.0
9696	63.495	63.445	-0.109	0.0	0.0	0.0
9720	63.495	63.445	-0.109	0.0	0.0	0.0
9744	63.495	63.445	-0.109	0.0	0.0	0.0
9768	63.495	63.445	-0.109	0.0	0.0	0.0
9792	63.495	63.445	-0.109	0.0	0.0	0.0
9816	63.495	63.445	-0.109	0.0	0.0	0.0
9840	63.495	63.445	-0.109	0.0	0.0	0.0
9864	63.495	63.445	-0.109	0.0	0.0	0.0
9888	63.495	63.445	-0.109	0.0	0.0	0.0
9912	63.495	63.445	-0.109	0.0	0.0	0.0
9936	63.495	63.445	-0.109	0.0	0.0	0.0
9960	63.495	63.445	-0.109	0.0	0.0	0.0
9984	63.495	63.445	-0.109	0.0	0.0	0.0
10008	63.495	63.445	-0.109	0.0	0.0	0.0
10032	63.495	63.445	-0.109	0.0	0.0	0.0
10056	63.495	63.445	-0.109	0.0	0.0	0.0
10080	63.495	63.445	-0.109	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.494	63.444	-0.110	0.0	0.0	0.0
14448	63.494	63.444	-0.110	0.0	0.0	0.0
14472	63.494	63.444	-0.110	0.0	0.0	0.0
14496	63.494	63.444	-0.110	0.0	0.0	0.0
14520	63.494	63.444	-0.110	0.0	0.0	0.0
14544	63.494	63.444	-0.110	0.0	0.0	0.0
14568	63.494	63.444	-0.110	0.0	0.0	0.0
14592	63.494	63.444	-0.110	0.0	0.0	0.0
14616	63.494	63.444	-0.110	0.0	0.0	0.0
14640	63.494	63.444	-0.110	0.0	0.0	0.0
14664	63.494	63.444	-0.110	0.0	0.0	0.0
14688	63.494	63.444	-0.110	0.0	0.0	0.0
14712	63.494	63.444	-0.110	0.0	0.0	0.0
14736	63.494	63.444	-0.110	0.0	0.0	0.0
14760	63.494	63.444	-0.110	0.0	0.0	0.0
14784	63.494	63.444	-0.110	0.0	0.0	0.0
14808	63.494	63.444	-0.110	0.0	0.0	0.0
14832	63.494	63.444	-0.110	0.0	0.0	0.0
14856	63.494	63.444	-0.110	0.0	0.0	0.0
14880	63.494	63.444	-0.110	0.0	0.0	0.0
14904	63.494	63.444	-0.110	0.0	0.0	0.0
14928	63.494	63.444	-0.110	0.0	0.0	0.0
14952	63.494	63.444	-0.110	0.0	0.0	0.0
14976	63.494	63.444	-0.110	0.0	0.0	0.0
15000	63.494	63.444	-0.110	0.0	0.0	0.0
15024	63.494	63.444	-0.110	0.0	0.0	0.0
15048	63.494	63.444	-0.110	0.0	0.0	0.0
15072	63.494	63.444	-0.110	0.0	0.0	0.0
15096	63.494	63.444	-0.110	0.0	0.0	0.0
15120	63.494	63.444	-0.110	0.0	0.0	0.0
15144	63.494	63.444	-0.110	0.0	0.0	0.0
15168	63.494	63.444	-0.110	0.0	0.0	0.0
15192	63.494	63.444	-0.110	0.0	0.0	0.0
15216	63.494	63.444	-0.110	0.0	0.0	0.0
15240	63.494	63.444	-0.110	0.0	0.0	0.0
15264	63.494	63.444	-0.110	0.0	0.0	0.0
15288	63.494	63.444	-0.110	0.0	0.0	0.0
15312	63.494	63.444	-0.110	0.0	0.0	0.0
15336	63.494	63.444	-0.110	0.0	0.0	0.0
15360	63.494	63.444	-0.110	0.0	0.0	0.0
15384	63.494	63.444	-0.110	0.0	0.0	0.0
15408	63.494	63.444	-0.110	0.0	0.0	0.0
15432	63.494	63.444	-0.110	0.0	0.0	0.0
15456	63.494	63.444	-0.110	0.0	0.0	0.0
15480	63.494	63.444	-0.110	0.0	0.0	0.0
15504	63.494	63.444	-0.110	0.0	0.0	0.0
15528	63.494	63.444	-0.110	0.0	0.0	0.0
15552	63.494	63.444	-0.110	0.0	0.0	0.0
15576	63.494	63.444	-0.110	0.0	0.0	0.0
15600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.494	63.444	-0.110	0.0	0.0	0.0
15648	63.494	63.444	-0.110	0.0	0.0	0.0
15672	63.494	63.444	-0.110	0.0	0.0	0.0
15696	63.494	63.444	-0.110	0.0	0.0	0.0
15720	63.494	63.444	-0.110	0.0	0.0	0.0
15744	63.494	63.444	-0.110	0.0	0.0	0.0
15768	63.494	63.444	-0.110	0.0	0.0	0.0
15792	63.494	63.444	-0.110	0.0	0.0	0.0
15816	63.494	63.444	-0.110	0.0	0.0	0.0
15840	63.494	63.444	-0.110	0.0	0.0	0.0
15864	63.494	63.444	-0.110	0.0	0.0	0.0
15888	63.494	63.444	-0.110	0.0	0.0	0.0
15912	63.494	63.444	-0.110	0.0	0.0	0.0
15936	63.494	63.444	-0.110	0.0	0.0	0.0
15960	63.494	63.444	-0.110	0.0	0.0	0.0
15984	63.494	63.444	-0.110	0.0	0.0	0.0
16008	63.494	63.444	-0.110	0.0	0.0	0.0
16032	63.494	63.444	-0.110	0.0	0.0	0.0
16056	63.494	63.444	-0.110	0.0	0.0	0.0
16080	63.494	63.444	-0.110	0.0	0.0	0.0
16104	63.494	63.444	-0.110	0.0	0.0	0.0
16128	63.494	63.444	-0.110	0.0	0.0	0.0
16152	63.494	63.444	-0.110	0.0	0.0	0.0
16176	63.494	63.444	-0.110	0.0	0.0	0.0
16200	63.494	63.444	-0.110	0.0	0.0	0.0
16224	63.494	63.444	-0.110	0.0	0.0	0.0
16248	63.494	63.444	-0.110	0.0	0.0	0.0
16272	63.494	63.444	-0.110	0.0	0.0	0.0
16296	63.494	63.444	-0.110	0.0	0.0	0.0
16320	63.494	63.444	-0.110	0.0	0.0	0.0
16344	63.494	63.444	-0.110	0.0	0.0	0.0
16368	63.494	63.444	-0.110	0.0	0.0	0.0
16392	63.494	63.444	-0.110	0.0	0.0	0.0
16416	63.494	63.444	-0.110	0.0	0.0	0.0
16440	63.494	63.444	-0.110	0.0	0.0	0.0
16464	63.494	63.444	-0.110	0.0	0.0	0.0
16488	63.494	63.444	-0.110	0.0	0.0	0.0
16512	63.494	63.444	-0.110	0.0	0.0	0.0
16536	63.494	63.444	-0.110	0.0	0.0	0.0
16560	63.494	63.444	-0.110	0.0	0.0	0.0
16584	63.494	63.444	-0.110	0.0	0.0	0.0
16608	63.494	63.444	-0.110	0.0	0.0	0.0
16632	63.494	63.444	-0.110	0.0	0.0	0.0
16656	63.494	63.444	-0.110	0.0	0.0	0.0
16680	63.494	63.444	-0.110	0.0	0.0	0.0
16704	63.494	63.444	-0.110	0.0	0.0	0.0
16728	63.494	63.444	-0.110	0.0	0.0	0.0
16752	63.494	63.444	-0.110	0.0	0.0	0.0
16776	63.494	63.444	-0.110	0.0	0.0	0.0
16800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.494	63.444	-0.110	0.0	0.0	0.0
16848	63.494	63.444	-0.110	0.0	0.0	0.0
16872	63.494	63.444	-0.110	0.0	0.0	0.0
16896	63.494	63.444	-0.110	0.0	0.0	0.0
16920	63.494	63.444	-0.110	0.0	0.0	0.0
16944	63.494	63.444	-0.110	0.0	0.0	0.0
16968	63.494	63.444	-0.110	0.0	0.0	0.0
16992	63.494	63.444	-0.110	0.0	0.0	0.0
17016	63.494	63.444	-0.110	0.0	0.0	0.0
17040	63.494	63.444	-0.110	0.0	0.0	0.0
17064	63.494	63.444	-0.110	0.0	0.0	0.0
17088	63.494	63.444	-0.110	0.0	0.0	0.0
17112	63.494	63.444	-0.110	0.0	0.0	0.0
17136	63.494	63.444	-0.110	0.0	0.0	0.0
17160	63.494	63.444	-0.110	0.0	0.0	0.0
17184	63.494	63.444	-0.110	0.0	0.0	0.0
17208	63.494	63.444	-0.110	0.0	0.0	0.0
17232	63.494	63.444	-0.110	0.0	0.0	0.0
17256	63.494	63.444	-0.110	0.0	0.0	0.0
17280	63.494	63.444	-0.110	0.0	0.0	0.0
17304	63.494	63.444	-0.110	0.0	0.0	0.0
17328	63.494	63.444	-0.110	0.0	0.0	0.0
17352	63.494	63.444	-0.110	0.0	0.0	0.0
17376	63.494	63.444	-0.110	0.0	0.0	0.0
17400	63.494	63.444	-0.110	0.0	0.0	0.0
17424	63.494	63.444	-0.110	0.0	0.0	0.0
17448	63.494	63.444	-0.110	0.0	0.0	0.0
17472	63.494	63.444	-0.110	0.0	0.0	0.0
17496	63.494	63.444	-0.110	0.0	0.0	0.0
17520	63.494	63.444	-0.110	0.0	0.0	0.0
17544	63.494	63.444	-0.110	0.0	0.0	0.0
17568	63.494	63.444	-0.110	0.0	0.0	0.0
17592	63.494	63.444	-0.110	0.0	0.0	0.0
17616	63.494	63.444	-0.110	0.0	0.0	0.0
17640	63.494	63.444	-0.110	0.0	0.0	0.0
17664	63.494	63.444	-0.110	0.0	0.0	0.0
17688	63.494	63.444	-0.110	0.0	0.0	0.0
17712	63.494	63.444	-0.110	0.0	0.0	0.0
17736	63.494	63.444	-0.110	0.0	0.0	0.0
17760	63.494	63.444	-0.110	0.0	0.0	0.0
17784	63.494	63.444	-0.110	0.0	0.0	0.0
17808	63.494	63.444	-0.110	0.0	0.0	0.0
17832	63.494	63.444	-0.110	0.0	0.0	0.0
17856	63.494	63.444	-0.110	0.0	0.0	0.0
17880	63.494	63.444	-0.110	0.0	0.0	0.0
17904	63.494	63.444	-0.110	0.0	0.0	0.0
17928	63.494	63.444	-0.110	0.0	0.0	0.0
17952	63.494	63.444	-0.110	0.0	0.0	0.0
17976	63.494	63.444	-0.110	0.0	0.0	0.0
18000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.494	63.444	-0.110	0.0	0.0	0.0
18048	63.494	63.444	-0.110	0.0	0.0	0.0
18072	63.494	63.444	-0.110	0.0	0.0	0.0
18096	63.494	63.444	-0.110	0.0	0.0	0.0
18120	63.494	63.444	-0.110	0.0	0.0	0.0
18144	63.494	63.444	-0.110	0.0	0.0	0.0
18168	63.494	63.444	-0.110	0.0	0.0	0.0
18192	63.494	63.444	-0.110	0.0	0.0	0.0
18216	63.494	63.444	-0.110	0.0	0.0	0.0
18240	63.494	63.444	-0.110	0.0	0.0	0.0
18264	63.494	63.444	-0.110	0.0	0.0	0.0
18288	63.494	63.444	-0.110	0.0	0.0	0.0
18312	63.494	63.444	-0.110	0.0	0.0	0.0
18336	63.494	63.444	-0.110	0.0	0.0	0.0
18360	63.494	63.444	-0.110	0.0	0.0	0.0
18384	63.494	63.444	-0.110	0.0	0.0	0.0
18408	63.494	63.444	-0.110	0.0	0.0	0.0
18432	63.494	63.444	-0.110	0.0	0.0	0.0
18456	63.494	63.444	-0.110	0.0	0.0	0.0
18480	63.494	63.444	-0.110	0.0	0.0	0.0
18504	63.494	63.444	-0.110	0.0	0.0	0.0
18528	63.494	63.444	-0.110	0.0	0.0	0.0
18552	63.494	63.444	-0.110	0.0	0.0	0.0
18576	63.494	63.444	-0.110	0.0	0.0	0.0
18600	63.494	63.444	-0.110	0.0	0.0	0.0
18624	63.494	63.444	-0.110	0.0	0.0	0.0
18648	63.494	63.444	-0.110	0.0	0.0	0.0
18672	63.494	63.444	-0.110	0.0	0.0	0.0
18696	63.494	63.444	-0.110	0.0	0.0	0.0
18720	63.494	63.444	-0.110	0.0	0.0	0.0
18744	63.494	63.444	-0.110	0.0	0.0	0.0
18768	63.494	63.444	-0.110	0.0	0.0	0.0
18792	63.494	63.444	-0.110	0.0	0.0	0.0
18816	63.494	63.444	-0.110	0.0	0.0	0.0
18840	63.494	63.444	-0.110	0.0	0.0	0.0
18864	63.494	63.444	-0.110	0.0	0.0	0.0
18888	63.494	63.444	-0.110	0.0	0.0	0.0
18912	63.494	63.444	-0.110	0.0	0.0	0.0
18936	63.494	63.444	-0.110	0.0	0.0	0.0
18960	63.494	63.444	-0.110	0.0	0.0	0.0
18984	63.494	63.444	-0.110	0.0	0.0	0.0
19008	63.494	63.444	-0.110	0.0	0.0	0.0
19032	63.494	63.444	-0.110	0.0	0.0	0.0
19056	63.494	63.444	-0.110	0.0	0.0	0.0
19080	63.494	63.444	-0.110	0.0	0.0	0.0
19104	63.494	63.444	-0.110	0.0	0.0	0.0
19128	63.494	63.444	-0.110	0.0	0.0	0.0
19152	63.494	63.444	-0.110	0.0	0.0	0.0
19176	63.494	63.444	-0.110	0.0	0.0	0.0
19200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.494	63.444	-0.110	0.0	0.0	0.0
19248	63.494	63.444	-0.110	0.0	0.0	0.0
19272	63.494	63.444	-0.110	0.0	0.0	0.0
19296	63.494	63.444	-0.110	0.0	0.0	0.0
19320	63.494	63.444	-0.110	0.0	0.0	0.0
19344	63.494	63.444	-0.110	0.0	0.0	0.0
19368	63.494	63.444	-0.110	0.0	0.0	0.0
19392	63.494	63.444	-0.110	0.0	0.0	0.0
19416	63.494	63.444	-0.110	0.0	0.0	0.0
19440	63.494	63.444	-0.110	0.0	0.0	0.0
19464	63.494	63.444	-0.110	0.0	0.0	0.0
19488	63.494	63.444	-0.110	0.0	0.0	0.0
19512	63.494	63.444	-0.110	0.0	0.0	0.0
19536	63.494	63.444	-0.110	0.0	0.0	0.0
19560	63.494	63.444	-0.110	0.0	0.0	0.0
19584	63.494	63.444	-0.110	0.0	0.0	0.0
19608	63.494	63.444	-0.110	0.0	0.0	0.0
19632	63.494	63.444	-0.110	0.0	0.0	0.0
19656	63.494	63.444	-0.110	0.0	0.0	0.0
19680	63.494	63.444	-0.110	0.0	0.0	0.0
19704	63.494	63.444	-0.110	0.0	0.0	0.0
19728	63.494	63.444	-0.110	0.0	0.0	0.0
19752	63.494	63.444	-0.110	0.0	0.0	0.0
19776	63.494	63.444	-0.110	0.0	0.0	0.0
19800	63.494	63.444	-0.110	0.0	0.0	0.0
19824	63.494	63.444	-0.110	0.0	0.0	0.0
19848	63.494	63.444	-0.110	0.0	0.0	0.0
19872	63.494	63.444	-0.110	0.0	0.0	0.0
19896	63.494	63.444	-0.110	0.0	0.0	0.0
19920	63.494	63.444	-0.110	0.0	0.0	0.0
19944	63.494	63.444	-0.110	0.0	0.0	0.0
19968	63.494	63.444	-0.110	0.0	0.0	0.0
19992	63.494	63.444	-0.110	0.0	0.0	0.0
20016	63.494	63.444	-0.110	0.0	0.0	0.0
20040	63.494	63.444	-0.110	0.0	0.0	0.0
20064	63.494	63.444	-0.110	0.0	0.0	0.0
20088	63.494	63.444	-0.110	0.0	0.0	0.0
20112	63.494	63.444	-0.110	0.0	0.0	0.0
20136	63.494	63.444	-0.110	0.0	0.0	0.0
20160	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.0	0.0
3072	65.400	65.000	-0.110	0.0	0.0	0.0
3096	65.400	65.000	-0.110	0.0	0.0	0.0
3120	65.400	65.000	-0.110	0.0	0.0	0.0
3144	65.400	65.000	-0.110	0.0	0.0	0.0
3168	65.400	65.000	-0.110	0.0	0.0	0.0
3192	65.400	65.000	-0.110	0.0	0.0	0.0
3216	65.400	65.000	-0.110	0.0	0.0	0.0
3240	65.400	65.000	-0.110	0.0	0.0	0.0
3264	65.400	65.000	-0.110	0.0	0.0	0.0
3288	65.400	65.000	-0.110	0.0	0.0	0.0
3312	65.400	65.000	-0.110	0.0	0.0	0.0
3336	65.400	65.000	-0.110	0.0	0.0	0.0
3360	65.400	65.000	-0.110	0.0	0.0	0.0
3384	65.400	65.000	-0.110	0.0	0.0	0.0
3408	65.400	65.000	-0.110	0.0	0.0	0.0
3432	65.400	65.000	-0.110	0.0	0.0	0.0
3456	65.400	65.000	-0.110	0.0	0.1	0.0
3480	65.400	65.000	-0.110	0.0	0.1	0.0
3504	65.400	65.000	-0.110	0.0	0.1	0.0
3528	65.400	65.000	-0.110	0.0	0.1	0.0
3552	65.400	65.000	-0.110	0.0	0.1	0.0
3576	65.400	65.000	-0.110	0.0	0.1	0.0
3600	65.400	65.000	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.000	-0.110	0.0	0.1	0.0
3648	65.400	65.001	-0.110	0.0	0.1	0.0
3672	65.400	65.001	-0.110	0.0	0.1	0.0
3696	65.400	65.001	-0.110	0.0	0.1	0.0
3720	65.400	65.001	-0.110	0.0	0.1	0.0
3744	65.400	65.001	-0.110	0.0	0.1	0.0
3768	65.400	65.001	-0.110	0.0	0.1	0.0
3792	65.400	65.001	-0.110	0.0	0.1	0.0
3816	65.400	65.001	-0.110	0.0	0.1	0.0
3840	65.400	65.001	-0.110	0.0	0.1	0.0
3864	65.400	65.001	-0.110	0.0	0.1	0.0
3888	65.400	65.001	-0.110	0.0	0.1	0.0
3912	65.400	65.001	-0.110	0.0	0.1	0.0
3936	65.400	65.001	-0.110	0.0	0.1	0.0
3960	65.401	65.001	-0.109	0.0	0.1	0.0
3984	65.401	65.001	-0.109	0.0	0.1	0.0
4008	65.401	65.001	-0.109	0.0	0.1	0.0
4032	65.401	65.001	-0.109	0.0	0.1	0.0
4056	65.401	65.001	-0.109	0.0	0.1	0.0
4080	65.401	65.001	-0.109	0.0	0.1	0.0
4104	65.401	65.001	-0.109	0.0	0.1	0.0
4128	65.401	65.001	-0.109	0.0	0.1	0.0
4152	65.401	65.001	-0.109	0.0	0.1	0.0
4176	65.401	65.001	-0.109	0.0	0.1	0.0
4200	65.401	65.001	-0.109	0.0	0.1	0.0
4224	65.401	65.001	-0.109	0.0	0.1	0.0
4248	65.401	65.001	-0.109	0.0	0.1	0.0
4272	65.401	65.001	-0.109	0.0	0.1	0.0
4296	65.401	65.001	-0.109	0.0	0.1	0.0
4320	65.401	65.001	-0.109	0.0	0.1	0.0
4344	65.401	65.001	-0.109	0.0	0.1	0.0
4368	65.401	65.001	-0.109	0.0	0.1	0.0
4392	65.401	65.001	-0.109	0.0	0.1	0.0
4416	65.401	65.001	-0.109	0.0	0.1	0.0
4440	65.401	65.001	-0.109	0.0	0.1	0.0
4464	65.401	65.001	-0.109	0.0	0.1	0.0
4488	65.401	65.001	-0.109	0.0	0.1	0.0
4512	65.401	65.001	-0.109	0.0	0.1	0.0
4536	65.401	65.001	-0.109	0.0	0.1	0.0
4560	65.401	65.001	-0.109	0.0	0.2	0.0
4584	65.401	65.001	-0.109	0.0	0.2	0.0
4608	65.401	65.001	-0.109	0.0	0.2	0.0
4632	65.401	65.001	-0.109	0.0	0.2	0.0
4656	65.401	65.001	-0.109	0.0	0.2	0.0
4680	65.401	65.001	-0.109	0.0	0.2	0.0
4704	65.401	65.001	-0.109	0.0	0.2	0.0
4728	65.401	65.001	-0.109	0.0	0.2	0.0
4752	65.401	65.001	-0.109	0.0	0.2	0.0
4776	65.401	65.002	-0.109	0.0	0.2	0.0
4800	65.401	65.002	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	65.002	-0.109	0.0	0.2	0.0
4848	65.401	65.002	-0.109	0.0	0.2	0.0
4872	65.401	65.002	-0.109	0.0	0.2	0.0
4896	65.401	65.002	-0.109	0.0	0.2	0.0
4920	65.401	65.002	-0.109	0.0	0.2	0.0
4944	65.401	65.002	-0.109	0.0	0.2	0.0
4968	65.401	65.002	-0.109	0.0	0.2	0.1
4992	65.401	65.002	-0.109	0.0	0.2	0.1
5016	65.401	65.002	-0.109	0.0	0.2	0.1
5040	65.401	65.002	-0.109	0.0	0.2	0.1
5064	65.401	65.002	-0.109	0.0	0.2	0.1
5088	65.401	65.002	-0.109	0.0	0.2	0.1
5112	65.401	65.002	-0.109	0.0	0.2	0.1
5136	65.401	65.002	-0.109	0.0	0.2	0.1
5160	65.401	65.002	-0.109	0.0	0.2	0.0
5184	65.401	65.002	-0.109	0.0	0.2	0.0
5208	65.401	65.002	-0.109	0.0	0.2	0.0
5232	65.401	65.002	-0.109	0.0	0.2	0.0
5256	65.401	65.002	-0.109	0.0	0.2	0.0
5280	65.401	65.002	-0.109	0.0	0.2	0.0
5304	65.401	65.002	-0.109	0.0	0.2	0.0
5328	65.401	65.002	-0.109	0.0	0.2	0.0
5352	65.401	65.001	-0.109	0.0	0.2	0.0
5376	65.401	65.001	-0.109	0.0	0.2	0.0
5400	65.401	65.001	-0.109	0.0	0.2	0.0
5424	65.401	65.001	-0.109	0.0	0.2	0.0
5448	65.401	65.001	-0.109	0.0	0.2	0.0
5472	65.401	65.001	-0.109	0.0	0.2	0.0
5496	65.401	65.001	-0.109	0.0	0.2	0.0
5520	65.401	65.001	-0.109	0.0	0.2	0.0
5544	65.401	65.001	-0.109	0.0	0.2	0.0
5568	65.401	65.001	-0.109	0.0	0.1	0.0
5592	65.401	65.001	-0.109	0.0	0.1	0.0
5616	65.401	65.001	-0.109	0.0	0.1	0.0
5640	65.401	65.001	-0.109	0.0	0.1	0.0
5664	65.401	65.001	-0.109	0.0	0.1	0.0
5688	65.401	65.001	-0.109	0.0	0.1	0.0
5712	65.401	65.001	-0.109	0.0	0.1	0.0
5736	65.401	65.001	-0.109	0.0	0.1	0.0
5760	65.401	65.001	-0.109	0.0	0.1	0.0
5784	65.401	65.001	-0.109	0.0	0.1	0.0
5808	65.401	65.001	-0.109	0.0	0.1	0.0
5832	65.401	65.001	-0.109	0.0	0.1	0.0
5856	65.401	65.001	-0.109	0.0	0.1	0.0
5880	65.401	65.001	-0.109	0.0	0.1	0.0
5904	65.401	65.001	-0.109	0.0	0.1	0.0
5928	65.401	65.001	-0.109	0.0	0.1	0.0
5952	65.401	65.001	-0.109	0.0	0.1	0.0
5976	65.401	65.001	-0.109	0.0	0.1	0.0
6000	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.401	65.001	-0.109	0.0	0.1	0.0
6048	65.401	65.001	-0.109	0.0	0.1	0.0
6072	65.401	65.001	-0.109	0.0	0.1	0.0
6096	65.401	65.001	-0.109	0.0	0.1	0.0
6120	65.401	65.001	-0.109	0.0	0.1	0.0
6144	65.401	65.001	-0.109	0.0	0.1	0.0
6168	65.400	65.001	-0.110	0.0	0.1	0.0
6192	65.400	65.001	-0.110	0.0	0.1	0.0
6216	65.400	65.001	-0.110	0.0	0.1	0.0
6240	65.400	65.001	-0.110	0.0	0.1	0.0
6264	65.400	65.001	-0.110	0.0	0.1	0.0
6288	65.400	65.001	-0.110	0.0	0.1	0.0
6312	65.400	65.001	-0.110	0.0	0.1	0.0
6336	65.400	65.001	-0.110	0.0	0.1	0.0
6360	65.400	65.001	-0.110	0.0	0.1	0.0
6384	65.400	65.001	-0.110	0.0	0.1	0.0
6408	65.400	65.001	-0.110	0.0	0.1	0.0
6432	65.400	65.001	-0.110	0.0	0.1	0.0
6456	65.400	65.001	-0.110	0.0	0.1	0.0
6480	65.400	65.000	-0.110	0.0	0.1	0.0
6504	65.400	65.000	-0.110	0.0	0.1	0.0
6528	65.400	65.000	-0.110	0.0	0.1	0.0
6552	65.400	65.000	-0.110	0.0	0.1	0.0
6576	65.400	65.000	-0.110	0.0	0.1	0.0
6600	65.400	65.000	-0.110	0.0	0.1	0.0
6624	65.400	65.000	-0.110	0.0	0.1	0.0
6648	65.400	65.000	-0.110	0.0	0.1	0.0
6672	65.400	65.000	-0.110	0.0	0.0	0.0
6696	65.400	65.000	-0.110	0.0	0.0	0.0
6720	65.400	65.000	-0.110	0.0	0.0	0.0
6744	65.400	65.000	-0.110	0.0	0.0	0.0
6768	65.400	65.000	-0.110	0.0	0.0	0.0
6792	65.400	65.000	-0.110	0.0	0.0	0.0
6816	65.400	65.000	-0.110	0.0	0.0	0.0
6840	65.400	65.000	-0.110	0.0	0.0	0.0
6864	65.400	65.000	-0.110	0.0	0.0	0.0
6888	65.400	65.000	-0.110	0.0	0.0	0.0
6912	65.400	65.000	-0.110	0.0	0.0	0.0
6936	65.400	65.000	-0.110	0.0	0.0	0.0
6960	65.400	65.000	-0.110	0.0	0.0	0.0
6984	65.400	65.000	-0.110	0.0	0.0	0.0
7008	65.400	65.000	-0.110	0.0	0.0	0.0
7032	65.400	65.000	-0.110	0.0	0.0	0.0
7056	65.400	65.000	-0.110	0.0	0.0	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	65.000	-0.110	0.0	0.0	0.0
14448	65.400	65.000	-0.110	0.0	0.0	0.0
14472	65.400	65.000	-0.110	0.0	0.0	0.0
14496	65.400	65.000	-0.110	0.0	0.0	0.0
14520	65.400	65.000	-0.110	0.0	0.0	0.0
14544	65.400	65.000	-0.110	0.0	0.0	0.0
14568	65.400	65.000	-0.110	0.0	0.0	0.0
14592	65.400	65.000	-0.110	0.0	0.0	0.0
14616	65.400	65.000	-0.110	0.0	0.0	0.0
14640	65.400	65.000	-0.110	0.0	0.0	0.0
14664	65.400	65.000	-0.110	0.0	0.0	0.0
14688	65.400	65.000	-0.110	0.0	0.0	0.0
14712	65.400	65.000	-0.110	0.0	0.0	0.0
14736	65.400	65.000	-0.110	0.0	0.0	0.0
14760	65.400	65.000	-0.110	0.0	0.0	0.0
14784	65.400	65.000	-0.110	0.0	0.0	0.0
14808	65.400	65.000	-0.110	0.0	0.0	0.0
14832	65.400	65.000	-0.110	0.0	0.0	0.0
14856	65.400	65.000	-0.110	0.0	0.0	0.0
14880	65.400	65.000	-0.110	0.0	0.0	0.0
14904	65.400	65.000	-0.110	0.0	0.0	0.0
14928	65.400	65.000	-0.110	0.0	0.0	0.0
14952	65.400	65.000	-0.110	0.0	0.0	0.0
14976	65.400	65.000	-0.110	0.0	0.0	0.0
15000	65.400	65.000	-0.110	0.0	0.0	0.0
15024	65.400	65.000	-0.110	0.0	0.0	0.0
15048	65.400	65.000	-0.110	0.0	0.0	0.0
15072	65.400	65.000	-0.110	0.0	0.0	0.0
15096	65.400	65.000	-0.110	0.0	0.0	0.0
15120	65.400	65.000	-0.110	0.0	0.0	0.0
15144	65.400	65.000	-0.110	0.0	0.0	0.0
15168	65.400	65.000	-0.110	0.0	0.0	0.0
15192	65.400	65.000	-0.110	0.0	0.0	0.0
15216	65.400	65.000	-0.110	0.0	0.0	0.0
15240	65.400	65.000	-0.110	0.0	0.0	0.0
15264	65.400	65.000	-0.110	0.0	0.0	0.0
15288	65.400	65.000	-0.110	0.0	0.0	0.0
15312	65.400	65.000	-0.110	0.0	0.0	0.0
15336	65.400	65.000	-0.110	0.0	0.0	0.0
15360	65.400	65.000	-0.110	0.0	0.0	0.0
15384	65.400	65.000	-0.110	0.0	0.0	0.0
15408	65.400	65.000	-0.110	0.0	0.0	0.0
15432	65.400	65.000	-0.110	0.0	0.0	0.0
15456	65.400	65.000	-0.110	0.0	0.0	0.0
15480	65.400	65.000	-0.110	0.0	0.0	0.0
15504	65.400	65.000	-0.110	0.0	0.0	0.0
15528	65.400	65.000	-0.110	0.0	0.0	0.0
15552	65.400	65.000	-0.110	0.0	0.0	0.0
15576	65.400	65.000	-0.110	0.0	0.0	0.0
15600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	65.000	-0.110	0.0	0.0	0.0
15648	65.400	65.000	-0.110	0.0	0.0	0.0
15672	65.400	65.000	-0.110	0.0	0.0	0.0
15696	65.400	65.000	-0.110	0.0	0.0	0.0
15720	65.400	65.000	-0.110	0.0	0.0	0.0
15744	65.400	65.000	-0.110	0.0	0.0	0.0
15768	65.400	65.000	-0.110	0.0	0.0	0.0
15792	65.400	65.000	-0.110	0.0	0.0	0.0
15816	65.400	65.000	-0.110	0.0	0.0	0.0
15840	65.400	65.000	-0.110	0.0	0.0	0.0
15864	65.400	65.000	-0.110	0.0	0.0	0.0
15888	65.400	65.000	-0.110	0.0	0.0	0.0
15912	65.400	65.000	-0.110	0.0	0.0	0.0
15936	65.400	65.000	-0.110	0.0	0.0	0.0
15960	65.400	65.000	-0.110	0.0	0.0	0.0
15984	65.400	65.000	-0.110	0.0	0.0	0.0
16008	65.400	65.000	-0.110	0.0	0.0	0.0
16032	65.400	65.000	-0.110	0.0	0.0	0.0
16056	65.400	65.000	-0.110	0.0	0.0	0.0
16080	65.400	65.000	-0.110	0.0	0.0	0.0
16104	65.400	65.000	-0.110	0.0	0.0	0.0
16128	65.400	65.000	-0.110	0.0	0.0	0.0
16152	65.400	65.000	-0.110	0.0	0.0	0.0
16176	65.400	65.000	-0.110	0.0	0.0	0.0
16200	65.400	65.000	-0.110	0.0	0.0	0.0
16224	65.400	65.000	-0.110	0.0	0.0	0.0
16248	65.400	65.000	-0.110	0.0	0.0	0.0
16272	65.400	65.000	-0.110	0.0	0.0	0.0
16296	65.400	65.000	-0.110	0.0	0.0	0.0
16320	65.400	65.000	-0.110	0.0	0.0	0.0
16344	65.400	65.000	-0.110	0.0	0.0	0.0
16368	65.400	65.000	-0.110	0.0	0.0	0.0
16392	65.400	65.000	-0.110	0.0	0.0	0.0
16416	65.400	65.000	-0.110	0.0	0.0	0.0
16440	65.400	65.000	-0.110	0.0	0.0	0.0
16464	65.400	65.000	-0.110	0.0	0.0	0.0
16488	65.400	65.000	-0.110	0.0	0.0	0.0
16512	65.400	65.000	-0.110	0.0	0.0	0.0
16536	65.400	65.000	-0.110	0.0	0.0	0.0
16560	65.400	65.000	-0.110	0.0	0.0	0.0
16584	65.400	65.000	-0.110	0.0	0.0	0.0
16608	65.400	65.000	-0.110	0.0	0.0	0.0
16632	65.400	65.000	-0.110	0.0	0.0	0.0
16656	65.400	65.000	-0.110	0.0	0.0	0.0
16680	65.400	65.000	-0.110	0.0	0.0	0.0
16704	65.400	65.000	-0.110	0.0	0.0	0.0
16728	65.400	65.000	-0.110	0.0	0.0	0.0
16752	65.400	65.000	-0.110	0.0	0.0	0.0
16776	65.400	65.000	-0.110	0.0	0.0	0.0
16800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	65.000	-0.110	0.0	0.0	0.0
16848	65.400	65.000	-0.110	0.0	0.0	0.0
16872	65.400	65.000	-0.110	0.0	0.0	0.0
16896	65.400	65.000	-0.110	0.0	0.0	0.0
16920	65.400	65.000	-0.110	0.0	0.0	0.0
16944	65.400	65.000	-0.110	0.0	0.0	0.0
16968	65.400	65.000	-0.110	0.0	0.0	0.0
16992	65.400	65.000	-0.110	0.0	0.0	0.0
17016	65.400	65.000	-0.110	0.0	0.0	0.0
17040	65.400	65.000	-0.110	0.0	0.0	0.0
17064	65.400	65.000	-0.110	0.0	0.0	0.0
17088	65.400	65.000	-0.110	0.0	0.0	0.0
17112	65.400	65.000	-0.110	0.0	0.0	0.0
17136	65.400	65.000	-0.110	0.0	0.0	0.0
17160	65.400	65.000	-0.110	0.0	0.0	0.0
17184	65.400	65.000	-0.110	0.0	0.0	0.0
17208	65.400	65.000	-0.110	0.0	0.0	0.0
17232	65.400	65.000	-0.110	0.0	0.0	0.0
17256	65.400	65.000	-0.110	0.0	0.0	0.0
17280	65.400	65.000	-0.110	0.0	0.0	0.0
17304	65.400	65.000	-0.110	0.0	0.0	0.0
17328	65.400	65.000	-0.110	0.0	0.0	0.0
17352	65.400	65.000	-0.110	0.0	0.0	0.0
17376	65.400	65.000	-0.110	0.0	0.0	0.0
17400	65.400	65.000	-0.110	0.0	0.0	0.0
17424	65.400	65.000	-0.110	0.0	0.0	0.0
17448	65.400	65.000	-0.110	0.0	0.0	0.0
17472	65.400	65.000	-0.110	0.0	0.0	0.0
17496	65.400	65.000	-0.110	0.0	0.0	0.0
17520	65.400	65.000	-0.110	0.0	0.0	0.0
17544	65.400	65.000	-0.110	0.0	0.0	0.0
17568	65.400	65.000	-0.110	0.0	0.0	0.0
17592	65.400	65.000	-0.110	0.0	0.0	0.0
17616	65.400	65.000	-0.110	0.0	0.0	0.0
17640	65.400	65.000	-0.110	0.0	0.0	0.0
17664	65.400	65.000	-0.110	0.0	0.0	0.0
17688	65.400	65.000	-0.110	0.0	0.0	0.0
17712	65.400	65.000	-0.110	0.0	0.0	0.0
17736	65.400	65.000	-0.110	0.0	0.0	0.0
17760	65.400	65.000	-0.110	0.0	0.0	0.0
17784	65.400	65.000	-0.110	0.0	0.0	0.0
17808	65.400	65.000	-0.110	0.0	0.0	0.0
17832	65.400	65.000	-0.110	0.0	0.0	0.0
17856	65.400	65.000	-0.110	0.0	0.0	0.0
17880	65.400	65.000	-0.110	0.0	0.0	0.0
17904	65.400	65.000	-0.110	0.0	0.0	0.0
17928	65.400	65.000	-0.110	0.0	0.0	0.0
17952	65.400	65.000	-0.110	0.0	0.0	0.0
17976	65.400	65.000	-0.110	0.0	0.0	0.0
18000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.400	65.000	-0.110	0.0	0.0	0.0
18048	65.400	65.000	-0.110	0.0	0.0	0.0
18072	65.400	65.000	-0.110	0.0	0.0	0.0
18096	65.400	65.000	-0.110	0.0	0.0	0.0
18120	65.400	65.000	-0.110	0.0	0.0	0.0
18144	65.400	65.000	-0.110	0.0	0.0	0.0
18168	65.400	65.000	-0.110	0.0	0.0	0.0
18192	65.400	65.000	-0.110	0.0	0.0	0.0
18216	65.400	65.000	-0.110	0.0	0.0	0.0
18240	65.400	65.000	-0.110	0.0	0.0	0.0
18264	65.400	65.000	-0.110	0.0	0.0	0.0
18288	65.400	65.000	-0.110	0.0	0.0	0.0
18312	65.400	65.000	-0.110	0.0	0.0	0.0
18336	65.400	65.000	-0.110	0.0	0.0	0.0
18360	65.400	65.000	-0.110	0.0	0.0	0.0
18384	65.400	65.000	-0.110	0.0	0.0	0.0
18408	65.400	65.000	-0.110	0.0	0.0	0.0
18432	65.400	65.000	-0.110	0.0	0.0	0.0
18456	65.400	65.000	-0.110	0.0	0.0	0.0
18480	65.400	65.000	-0.110	0.0	0.0	0.0
18504	65.400	65.000	-0.110	0.0	0.0	0.0
18528	65.400	65.000	-0.110	0.0	0.0	0.0
18552	65.400	65.000	-0.110	0.0	0.0	0.0
18576	65.400	65.000	-0.110	0.0	0.0	0.0
18600	65.400	65.000	-0.110	0.0	0.0	0.0
18624	65.400	65.000	-0.110	0.0	0.0	0.0
18648	65.400	65.000	-0.110	0.0	0.0	0.0
18672	65.400	65.000	-0.110	0.0	0.0	0.0
18696	65.400	65.000	-0.110	0.0	0.0	0.0
18720	65.400	65.000	-0.110	0.0	0.0	0.0
18744	65.400	65.000	-0.110	0.0	0.0	0.0
18768	65.400	65.000	-0.110	0.0	0.0	0.0
18792	65.400	65.000	-0.110	0.0	0.0	0.0
18816	65.400	65.000	-0.110	0.0	0.0	0.0
18840	65.400	65.000	-0.110	0.0	0.0	0.0
18864	65.400	65.000	-0.110	0.0	0.0	0.0
18888	65.400	65.000	-0.110	0.0	0.0	0.0
18912	65.400	65.000	-0.110	0.0	0.0	0.0
18936	65.400	65.000	-0.110	0.0	0.0	0.0
18960	65.400	65.000	-0.110	0.0	0.0	0.0
18984	65.400	65.000	-0.110	0.0	0.0	0.0
19008	65.400	65.000	-0.110	0.0	0.0	0.0
19032	65.400	65.000	-0.110	0.0	0.0	0.0
19056	65.400	65.000	-0.110	0.0	0.0	0.0
19080	65.400	65.000	-0.110	0.0	0.0	0.0
19104	65.400	65.000	-0.110	0.0	0.0	0.0
19128	65.400	65.000	-0.110	0.0	0.0	0.0
19152	65.400	65.000	-0.110	0.0	0.0	0.0
19176	65.400	65.000	-0.110	0.0	0.0	0.0
19200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.400	65.000	-0.110	0.0	0.0	0.0
19248	65.400	65.000	-0.110	0.0	0.0	0.0
19272	65.400	65.000	-0.110	0.0	0.0	0.0
19296	65.400	65.000	-0.110	0.0	0.0	0.0
19320	65.400	65.000	-0.110	0.0	0.0	0.0
19344	65.400	65.000	-0.110	0.0	0.0	0.0
19368	65.400	65.000	-0.110	0.0	0.0	0.0
19392	65.400	65.000	-0.110	0.0	0.0	0.0
19416	65.400	65.000	-0.110	0.0	0.0	0.0
19440	65.400	65.000	-0.110	0.0	0.0	0.0
19464	65.400	65.000	-0.110	0.0	0.0	0.0
19488	65.400	65.000	-0.110	0.0	0.0	0.0
19512	65.400	65.000	-0.110	0.0	0.0	0.0
19536	65.400	65.000	-0.110	0.0	0.0	0.0
19560	65.400	65.000	-0.110	0.0	0.0	0.0
19584	65.400	65.000	-0.110	0.0	0.0	0.0
19608	65.400	65.000	-0.110	0.0	0.0	0.0
19632	65.400	65.000	-0.110	0.0	0.0	0.0
19656	65.400	65.000	-0.110	0.0	0.0	0.0
19680	65.400	65.000	-0.110	0.0	0.0	0.0
19704	65.400	65.000	-0.110	0.0	0.0	0.0
19728	65.400	65.000	-0.110	0.0	0.0	0.0
19752	65.400	65.000	-0.110	0.0	0.0	0.0
19776	65.400	65.000	-0.110	0.0	0.0	0.0
19800	65.400	65.000	-0.110	0.0	0.0	0.0
19824	65.400	65.000	-0.110	0.0	0.0	0.0
19848	65.400	65.000	-0.110	0.0	0.0	0.0
19872	65.400	65.000	-0.110	0.0	0.0	0.0
19896	65.400	65.000	-0.110	0.0	0.0	0.0
19920	65.400	65.000	-0.110	0.0	0.0	0.0
19944	65.400	65.000	-0.110	0.0	0.0	0.0
19968	65.400	65.000	-0.110	0.0	0.0	0.0
19992	65.400	65.000	-0.110	0.0	0.0	0.0
20016	65.400	65.000	-0.110	0.0	0.0	0.0
20040	65.400	65.000	-0.110	0.0	0.0	0.0
20064	65.400	65.000	-0.110	0.0	0.0	0.0
20088	65.400	65.000	-0.110	0.0	0.0	0.0
20112	65.400	65.000	-0.110	0.0	0.0	0.0
20136	65.400	65.000	-0.110	0.0	0.0	0.0
20160	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.445	-0.110	0.0	0.0	0.0
48	65.000	63.445	-0.110	0.0	0.0	0.0
72	65.000	63.445	-0.110	0.0	0.0	0.0
96	65.000	63.445	-0.110	0.0	0.0	0.0
120	65.000	63.445	-0.110	0.0	0.0	0.0
144	65.000	63.445	-0.110	0.0	0.0	0.0
168	65.000	63.445	-0.110	0.0	0.0	0.0
192	65.000	63.445	-0.110	0.0	0.0	0.0
216	65.000	63.445	-0.110	0.0	0.0	0.0
240	65.000	63.445	-0.110	0.0	0.0	0.0
264	65.000	63.445	-0.110	0.0	0.0	0.0
288	65.000	63.445	-0.110	0.0	0.0	0.0
312	65.000	63.445	-0.110	0.0	0.0	0.0
336	65.000	63.445	-0.110	0.0	0.0	0.0
360	65.000	63.445	-0.110	0.0	0.0	0.0
384	65.000	63.445	-0.110	0.0	0.0	0.0
408	65.000	63.445	-0.110	0.0	0.0	0.0
432	65.000	63.445	-0.110	0.0	0.0	0.0
456	65.000	63.445	-0.110	0.0	0.0	0.0
480	65.000	63.445	-0.110	0.0	0.0	0.0
504	65.000	63.445	-0.110	0.0	0.0	0.0
528	65.000	63.445	-0.110	0.0	0.0	0.0
552	65.000	63.445	-0.110	0.0	0.0	0.0
576	65.000	63.445	-0.110	0.0	0.0	0.0
600	65.000	63.445	-0.110	0.0	0.0	0.0
624	65.000	63.445	-0.110	0.0	0.0	0.0
648	65.000	63.445	-0.110	0.0	0.0	0.0
672	65.000	63.445	-0.110	0.0	0.0	0.0
696	65.000	63.445	-0.110	0.0	0.0	0.0
720	65.000	63.446	-0.110	0.0	0.0	0.0
744	65.000	63.446	-0.110	0.0	0.0	0.0
768	65.000	63.446	-0.110	0.0	0.0	0.0
792	65.000	63.446	-0.110	0.0	0.0	0.0
816	65.000	63.446	-0.110	0.0	0.0	0.0
840	65.000	63.446	-0.110	0.0	0.0	0.0
864	65.000	63.446	-0.110	0.0	0.0	0.0
888	65.000	63.446	-0.110	0.0	0.0	0.0
912	65.000	63.446	-0.110	0.0	0.0	0.0
936	65.000	63.446	-0.110	0.0	0.0	0.0
960	65.000	63.446	-0.110	0.0	0.0	0.0
984	65.000	63.446	-0.110	0.0	0.0	0.0
1008	65.000	63.446	-0.110	0.0	0.0	0.0
1032	65.000	63.446	-0.110	0.0	0.0	0.0
1056	65.000	63.446	-0.110	0.0	0.0	0.0
1080	65.000	63.446	-0.110	0.0	0.0	0.0
1104	65.000	63.446	-0.110	0.0	0.0	0.0
1128	65.000	63.446	-0.110	0.0	0.0	0.0
1152	65.000	63.446	-0.110	0.0	0.0	0.0
1176	65.000	63.446	-0.110	0.0	0.0	0.0
1200	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.446	-0.110	0.0	0.0	0.0
1248	65.000	63.446	-0.110	0.0	0.0	0.0
1272	65.000	63.446	-0.110	0.0	0.0	0.0
1296	65.000	63.446	-0.110	0.0	0.0	0.0
1320	65.000	63.446	-0.110	0.0	0.0	0.0
1344	65.000	63.446	-0.110	0.0	0.0	0.0
1368	65.000	63.446	-0.110	0.0	0.0	0.0
1392	65.000	63.446	-0.110	0.0	0.0	0.0
1416	65.000	63.446	-0.110	0.0	0.0	0.0
1440	65.000	63.446	-0.110	0.0	0.0	0.0
1464	65.000	63.446	-0.110	0.0	0.0	0.0
1488	65.000	63.446	-0.110	0.0	0.0	0.0
1512	65.000	63.446	-0.110	0.0	0.0	0.0
1536	65.000	63.446	-0.110	0.0	0.0	0.0
1560	65.000	63.446	-0.110	0.0	0.0	0.0
1584	65.000	63.446	-0.110	0.0	0.0	0.0
1608	65.000	63.446	-0.110	0.0	0.0	0.0
1632	65.000	63.446	-0.110	0.0	0.0	0.0
1656	65.000	63.446	-0.110	0.0	0.0	0.0
1680	65.000	63.446	-0.110	0.0	0.0	0.0
1704	65.000	63.446	-0.110	0.0	0.0	0.0
1728	65.000	63.446	-0.110	0.0	0.0	0.0
1752	65.000	63.446	-0.110	0.0	0.0	0.0
1776	65.000	63.446	-0.110	0.0	0.0	0.0
1800	65.000	63.446	-0.110	0.0	0.0	0.0
1824	65.000	63.446	-0.110	0.0	0.0	0.0
1848	65.000	63.446	-0.110	0.0	0.0	0.0
1872	65.000	63.446	-0.110	0.0	0.0	0.0
1896	65.000	63.446	-0.110	0.0	0.0	0.0
1920	65.000	63.446	-0.110	0.0	0.0	0.0
1944	65.000	63.446	-0.110	0.0	0.0	0.0
1968	65.000	63.446	-0.110	0.0	0.0	0.0
1992	65.000	63.446	-0.110	0.0	0.0	0.0
2016	65.000	63.446	-0.110	0.0	0.0	0.0
2040	65.000	63.446	-0.110	0.0	0.1	0.0
2064	65.000	63.446	-0.110	0.0	0.1	0.0
2088	65.000	63.446	-0.110	0.0	0.1	0.0
2112	65.000	63.446	-0.110	0.0	0.1	0.0
2136	65.000	63.446	-0.110	0.0	0.1	0.0
2160	65.000	63.446	-0.110	0.0	0.1	0.0
2184	65.000	63.446	-0.110	0.0	0.1	0.0
2208	65.000	63.446	-0.110	0.0	0.1	0.0
2232	65.000	63.446	-0.110	0.0	0.1	0.0
2256	65.000	63.446	-0.110	0.0	0.1	0.0
2280	65.000	63.446	-0.110	0.0	0.1	0.0
2304	65.000	63.446	-0.110	0.0	0.1	0.0
2328	65.000	63.446	-0.110	0.0	0.1	0.0
2352	65.000	63.446	-0.110	0.0	0.1	0.0
2376	65.000	63.446	-0.110	0.0	0.1	0.0
2400	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.446	-0.110	0.0	0.1	0.0
2448	65.000	63.446	-0.110	0.0	0.1	0.0
2472	65.000	63.446	-0.110	0.0	0.1	0.0
2496	65.000	63.446	-0.110	0.0	0.1	0.0
2520	65.000	63.446	-0.110	0.0	0.1	0.0
2544	65.000	63.446	-0.110	0.0	0.1	0.0
2568	65.000	63.446	-0.110	0.0	0.1	0.0
2592	65.000	63.446	-0.110	0.0	0.1	0.0
2616	65.000	63.446	-0.110	0.0	0.1	0.0
2640	65.000	63.446	-0.110	0.0	0.1	0.0
2664	65.000	63.446	-0.110	0.0	0.1	0.0
2688	65.000	63.446	-0.110	0.0	0.1	0.0
2712	65.000	63.446	-0.110	0.0	0.1	0.0
2736	65.000	63.446	-0.110	0.0	0.1	0.0
2760	65.000	63.446	-0.110	0.0	0.1	0.0
2784	65.000	63.446	-0.110	0.0	0.1	0.0
2808	65.000	63.446	-0.110	0.0	0.1	0.0
2832	65.000	63.446	-0.110	0.0	0.1	0.0
2856	65.000	63.446	-0.110	0.0	0.1	0.0
2880	65.000	63.446	-0.110	0.0	0.1	0.0
2904	65.000	63.446	-0.110	0.0	0.1	0.0
2928	65.000	63.447	-0.110	0.0	0.1	0.0
2952	65.000	63.447	-0.110	0.0	0.1	0.0
2976	65.000	63.447	-0.110	0.0	0.1	0.0
3000	65.000	63.447	-0.110	0.0	0.1	0.0
3024	65.000	63.447	-0.110	0.0	0.1	0.0
3048	65.000	63.447	-0.110	0.0	0.1	0.0
3072	65.000	63.447	-0.110	0.0	0.1	0.0
3096	65.000	63.447	-0.110	0.0	0.1	0.0
3120	65.000	63.447	-0.110	0.0	0.1	0.0
3144	65.000	63.447	-0.110	0.0	0.1	0.0
3168	65.000	63.447	-0.110	0.0	0.1	0.0
3192	65.000	63.447	-0.110	0.0	0.1	0.0
3216	65.000	63.447	-0.110	0.0	0.1	0.0
3240	65.000	63.447	-0.110	0.0	0.1	0.0
3264	65.000	63.447	-0.110	0.0	0.1	0.0
3288	65.000	63.447	-0.110	0.0	0.1	0.0
3312	65.000	63.447	-0.110	0.0	0.1	0.0
3336	65.000	63.447	-0.110	0.0	0.1	0.0
3360	65.000	63.447	-0.110	0.0	0.1	0.0
3384	65.000	63.447	-0.110	0.0	0.1	0.0
3408	65.000	63.447	-0.110	0.0	0.1	0.0
3432	65.000	63.447	-0.110	0.0	0.1	0.0
3456	65.000	63.448	-0.110	0.0	0.1	0.0
3480	65.000	63.448	-0.110	0.0	0.1	0.0
3504	65.000	63.448	-0.110	0.0	0.1	0.0
3528	65.000	63.448	-0.110	0.0	0.1	0.0
3552	65.000	63.448	-0.110	0.0	0.1	0.0
3576	65.000	63.448	-0.110	0.0	0.1	0.0
3600	65.000	63.448	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.000	63.448	-0.110	0.0	0.1	0.0
3648	65.001	63.448	-0.109	0.0	0.1	0.0
3672	65.001	63.448	-0.109	0.0	0.1	0.0
3696	65.001	63.448	-0.109	0.0	0.1	0.0
3720	65.001	63.448	-0.109	0.0	0.1	0.0
3744	65.001	63.449	-0.109	0.0	0.1	0.0
3768	65.001	63.449	-0.109	0.0	0.1	0.0
3792	65.001	63.449	-0.109	0.0	0.1	0.0
3816	65.001	63.449	-0.109	0.0	0.1	0.0
3840	65.001	63.449	-0.109	0.0	0.1	0.0
3864	65.001	63.449	-0.109	0.0	0.1	0.0
3888	65.001	63.449	-0.109	0.0	0.2	0.0
3912	65.001	63.449	-0.109	0.0	0.2	0.0
3936	65.001	63.450	-0.109	0.0	0.2	0.0
3960	65.001	63.450	-0.109	0.0	0.2	0.0
3984	65.001	63.450	-0.109	0.0	0.2	0.0
4008	65.001	63.450	-0.109	0.0	0.2	0.0
4032	65.001	63.450	-0.109	0.0	0.2	0.0
4056	65.001	63.451	-0.109	0.0	0.2	0.0
4080	65.001	63.451	-0.109	0.0	0.2	0.0
4104	65.001	63.451	-0.109	0.0	0.2	0.0
4128	65.001	63.451	-0.109	0.0	0.2	0.0
4152	65.001	63.451	-0.109	0.0	0.2	0.0
4176	65.001	63.451	-0.109	0.0	0.2	0.1
4200	65.001	63.451	-0.109	0.0	0.2	0.1
4224	65.001	63.451	-0.109	0.0	0.2	0.1
4248	65.001	63.452	-0.109	0.0	0.2	0.1
4272	65.001	63.452	-0.109	0.0	0.2	0.1
4296	65.001	63.452	-0.109	0.0	0.2	0.1
4320	65.001	63.452	-0.109	0.0	0.2	0.1
4344	65.001	63.453	-0.109	0.0	0.2	0.1
4368	65.001	63.453	-0.109	0.0	0.3	0.1
4392	65.001	63.453	-0.109	0.0	0.3	0.1
4416	65.001	63.453	-0.109	0.0	0.3	0.1
4440	65.001	63.453	-0.109	0.0	0.3	0.1
4464	65.001	63.454	-0.109	0.0	0.3	0.1
4488	65.001	63.454	-0.109	0.0	0.3	0.1
4512	65.001	63.454	-0.109	0.0	0.3	0.1
4536	65.001	63.454	-0.109	0.0	0.3	0.1
4560	65.001	63.455	-0.109	0.0	0.3	0.1
4584	65.001	63.455	-0.109	0.0	0.3	0.1
4608	65.001	63.455	-0.109	0.0	0.3	0.1
4632	65.001	63.455	-0.109	0.0	0.3	0.1
4656	65.001	63.455	-0.109	0.0	0.3	0.1
4680	65.001	63.455	-0.109	0.0	0.3	0.1
4704	65.001	63.455	-0.109	0.0	0.3	0.1
4728	65.001	63.455	-0.109	0.0	0.3	0.1
4752	65.001	63.456	-0.109	0.0	0.3	0.1
4776	65.002	63.456	-0.108	0.0	0.4	0.1
4800	65.002	63.456	-0.108	0.0	0.4	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.002	63.456	-0.108	0.0	0.4	0.1
4848	65.002	63.456	-0.108	0.0	0.4	0.1
4872	65.002	63.456	-0.108	0.0	0.4	0.1
4896	65.002	63.456	-0.108	0.0	0.4	0.1
4920	65.002	63.456	-0.108	0.0	0.4	0.1
4944	65.002	63.456	-0.108	0.0	0.4	0.1
4968	65.002	63.456	-0.108	0.0	0.4	0.1
4992	65.002	63.456	-0.108	0.0	0.4	0.1
5016	65.002	63.456	-0.108	0.0	0.4	0.1
5040	65.002	63.456	-0.108	0.0	0.4	0.1
5064	65.002	63.456	-0.108	0.0	0.4	0.1
5088	65.002	63.456	-0.108	0.0	0.4	0.1
5112	65.002	63.456	-0.108	0.0	0.4	0.1
5136	65.002	63.456	-0.108	0.0	0.4	0.1
5160	65.002	63.456	-0.108	0.0	0.4	0.1
5184	65.002	63.456	-0.108	0.0	0.4	0.1
5208	65.002	63.456	-0.108	0.0	0.4	0.1
5232	65.002	63.456	-0.108	0.0	0.4	0.1
5256	65.002	63.456	-0.108	0.0	0.4	0.1
5280	65.002	63.457	-0.108	0.0	0.4	0.1
5304	65.002	63.459	-0.108	0.0	0.4	0.1
5328	65.002	63.461	-0.108	0.0	0.4	0.1
5352	65.001	63.464	-0.109	0.0	0.4	0.1
5376	65.001	63.467	-0.109	0.0	0.3	0.1
5400	65.001	63.470	-0.109	0.0	0.3	0.1
5424	65.001	63.473	-0.109	0.0	0.3	0.1
5448	65.001	63.476	-0.109	0.0	0.3	0.1
5472	65.001	63.479	-0.109	0.0	0.3	0.1
5496	65.001	63.482	-0.109	0.0	0.3	0.1
5520	65.001	63.484	-0.109	0.0	0.3	0.1
5544	65.001	63.487	-0.109	0.0	0.3	0.1
5568	65.001	63.489	-0.109	0.0	0.3	0.1
5592	65.001	63.491	-0.109	0.0	0.3	0.1
5616	65.001	63.493	-0.109	0.0	0.3	0.1
5640	65.001	63.496	-0.109	0.0	0.3	0.1
5664	65.001	63.498	-0.109	0.0	0.3	0.1
5688	65.001	63.499	-0.109	0.0	0.3	0.1
5712	65.001	63.501	-0.109	0.0	0.3	0.1
5736	65.001	63.503	-0.109	0.0	0.3	0.1
5760	65.001	63.504	-0.109	0.0	0.2	0.1
5784	65.001	63.505	-0.109	0.0	0.2	0.1
5808	65.001	63.507	-0.109	0.0	0.2	0.1
5832	65.001	63.508	-0.109	0.0	0.2	0.1
5856	65.001	63.509	-0.109	0.0	0.2	0.1
5880	65.001	63.510	-0.109	0.0	0.2	0.1
5904	65.001	63.510	-0.109	0.0	0.2	0.1
5928	65.001	63.511	-0.109	0.0	0.2	0.1
5952	65.001	63.512	-0.109	0.0	0.2	0.0
5976	65.001	63.512	-0.109	0.0	0.2	0.0
6000	65.001	63.513	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.001	63.513	-0.109	0.0	0.2	0.0
6048	65.001	63.513	-0.109	0.0	0.2	0.0
6072	65.001	63.513	-0.109	0.0	0.2	0.0
6096	65.001	63.513	-0.109	0.0	0.2	0.0
6120	65.001	63.513	-0.109	0.0	0.2	0.0
6144	65.001	63.513	-0.109	0.0	0.2	0.0
6168	65.001	63.513	-0.109	0.0	0.2	0.0
6192	65.001	63.513	-0.109	0.0	0.2	0.0
6216	65.001	63.512	-0.109	0.0	0.2	0.0
6240	65.001	63.512	-0.109	0.0	0.2	0.0
6264	65.001	63.511	-0.109	0.0	0.1	0.0
6288	65.001	63.511	-0.109	0.0	0.1	0.0
6312	65.001	63.510	-0.109	0.0	0.1	0.0
6336	65.001	63.509	-0.109	0.0	0.1	0.0
6360	65.001	63.509	-0.109	0.0	0.1	0.0
6384	65.001	63.508	-0.109	0.0	0.1	0.0
6408	65.001	63.506	-0.109	0.0	0.1	0.0
6432	65.001	63.506	-0.109	0.0	0.1	0.0
6456	65.001	63.505	-0.109	0.0	0.1	0.0
6480	65.000	63.504	-0.110	0.0	0.1	0.0
6504	65.000	63.503	-0.110	0.0	0.1	0.0
6528	65.000	63.501	-0.110	0.0	0.1	0.0
6552	65.000	63.500	-0.110	0.0	0.1	0.0
6576	65.000	63.499	-0.110	0.0	0.1	0.0
6600	65.000	63.497	-0.110	0.0	0.1	0.0
6624	65.000	63.496	-0.110	0.0	0.1	0.0
6648	65.000	63.495	-0.110	0.0	0.1	0.0
6672	65.000	63.493	-0.110	0.0	0.1	0.0
6696	65.000	63.492	-0.110	0.0	0.1	0.0
6720	65.000	63.490	-0.110	0.0	0.1	0.0
6744	65.000	63.489	-0.110	0.0	0.1	0.0
6768	65.000	63.487	-0.110	0.0	0.1	0.0
6792	65.000	63.486	-0.110	0.0	0.1	0.0
6816	65.000	63.484	-0.110	0.0	0.1	0.0
6840	65.000	63.482	-0.110	0.0	0.1	0.0
6864	65.000	63.481	-0.110	0.0	0.1	0.0
6888	65.000	63.479	-0.110	0.0	0.1	0.0
6912	65.000	63.477	-0.110	0.0	0.1	0.0
6936	65.000	63.476	-0.110	0.0	0.1	0.0
6960	65.000	63.474	-0.110	0.0	0.1	0.0
6984	65.000	63.472	-0.110	0.0	0.1	0.0
7008	65.000	63.470	-0.110	0.0	0.1	0.0
7032	65.000	63.468	-0.110	0.0	0.1	0.0
7056	65.000	63.466	-0.110	0.0	0.1	0.0
7080	65.000	63.465	-0.110	0.0	0.1	0.0
7104	65.000	63.462	-0.110	0.0	0.1	0.0
7128	65.000	63.461	-0.110	0.0	0.1	0.0
7152	65.000	63.459	-0.110	0.0	0.1	0.0
7176	65.000	63.458	-0.110	0.0	0.1	0.0
7200	65.000	63.456	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.454	-0.110	0.0	0.1	0.0
7248	65.000	63.452	-0.110	0.0	0.1	0.0
7272	65.000	63.450	-0.110	0.0	0.1	0.0
7296	65.000	63.448	-0.110	0.0	0.1	0.0
7320	65.000	63.448	-0.110	0.0	0.1	0.0
7344	65.000	63.447	-0.110	0.0	0.1	0.0
7368	65.000	63.447	-0.110	0.0	0.1	0.0
7392	65.000	63.447	-0.110	0.0	0.1	0.0
7416	65.000	63.447	-0.110	0.0	0.1	0.0
7440	65.000	63.446	-0.110	0.0	0.1	0.0
7464	65.000	63.446	-0.110	0.0	0.1	0.0
7488	65.000	63.446	-0.110	0.0	0.1	0.0
7512	65.000	63.446	-0.110	0.0	0.1	0.0
7536	65.000	63.446	-0.110	0.0	0.1	0.0
7560	65.000	63.446	-0.110	0.0	0.1	0.0
7584	65.000	63.446	-0.110	0.0	0.1	0.0
7608	65.000	63.446	-0.110	0.0	0.1	0.0
7632	65.000	63.446	-0.110	0.0	0.1	0.0
7656	65.000	63.446	-0.110	0.0	0.1	0.0
7680	65.000	63.446	-0.110	0.0	0.1	0.0
7704	65.000	63.446	-0.110	0.0	0.1	0.0
7728	65.000	63.446	-0.110	0.0	0.1	0.0
7752	65.000	63.446	-0.110	0.0	0.1	0.0
7776	65.000	63.446	-0.110	0.0	0.1	0.0
7800	65.000	63.446	-0.110	0.0	0.1	0.0
7824	65.000	63.446	-0.110	0.0	0.1	0.0
7848	65.000	63.446	-0.110	0.0	0.1	0.0
7872	65.000	63.446	-0.110	0.0	0.1	0.0
7896	65.000	63.446	-0.110	0.0	0.1	0.0
7920	65.000	63.446	-0.110	0.0	0.1	0.0
7944	65.000	63.446	-0.110	0.0	0.1	0.0
7968	65.000	63.446	-0.110	0.0	0.1	0.0
7992	65.000	63.446	-0.110	0.0	0.1	0.0
8016	65.000	63.446	-0.110	0.0	0.1	0.0
8040	65.000	63.446	-0.110	0.0	0.1	0.0
8064	65.000	63.446	-0.110	0.0	0.1	0.0
8088	65.000	63.446	-0.110	0.0	0.0	0.0
8112	65.000	63.446	-0.110	0.0	0.0	0.0
8136	65.000	63.446	-0.110	0.0	0.0	0.0
8160	65.000	63.446	-0.110	0.0	0.0	0.0
8184	65.000	63.446	-0.110	0.0	0.0	0.0
8208	65.000	63.446	-0.110	0.0	0.0	0.0
8232	65.000	63.446	-0.110	0.0	0.0	0.0
8256	65.000	63.446	-0.110	0.0	0.0	0.0
8280	65.000	63.446	-0.110	0.0	0.0	0.0
8304	65.000	63.446	-0.110	0.0	0.0	0.0
8328	65.000	63.446	-0.110	0.0	0.0	0.0
8352	65.000	63.446	-0.110	0.0	0.0	0.0
8376	65.000	63.446	-0.110	0.0	0.0	0.0
8400	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.446	-0.110	0.0	0.0	0.0
8448	65.000	63.446	-0.110	0.0	0.0	0.0
8472	65.000	63.446	-0.110	0.0	0.0	0.0
8496	65.000	63.446	-0.110	0.0	0.0	0.0
8520	65.000	63.446	-0.110	0.0	0.0	0.0
8544	65.000	63.446	-0.110	0.0	0.0	0.0
8568	65.000	63.446	-0.110	0.0	0.0	0.0
8592	65.000	63.446	-0.110	0.0	0.0	0.0
8616	65.000	63.446	-0.110	0.0	0.0	0.0
8640	65.000	63.446	-0.110	0.0	0.0	0.0
8664	65.000	63.446	-0.110	0.0	0.0	0.0
8688	65.000	63.446	-0.110	0.0	0.0	0.0
8712	65.000	63.446	-0.110	0.0	0.0	0.0
8736	65.000	63.446	-0.110	0.0	0.0	0.0
8760	65.000	63.446	-0.110	0.0	0.0	0.0
8784	65.000	63.446	-0.110	0.0	0.0	0.0
8808	65.000	63.446	-0.110	0.0	0.0	0.0
8832	65.000	63.446	-0.110	0.0	0.0	0.0
8856	65.000	63.446	-0.110	0.0	0.0	0.0
8880	65.000	63.446	-0.110	0.0	0.0	0.0
8904	65.000	63.446	-0.110	0.0	0.0	0.0
8928	65.000	63.446	-0.110	0.0	0.0	0.0
8952	65.000	63.446	-0.110	0.0	0.0	0.0
8976	65.000	63.446	-0.110	0.0	0.0	0.0
9000	65.000	63.446	-0.110	0.0	0.0	0.0
9024	65.000	63.446	-0.110	0.0	0.0	0.0
9048	65.000	63.446	-0.110	0.0	0.0	0.0
9072	65.000	63.446	-0.110	0.0	0.0	0.0
9096	65.000	63.446	-0.110	0.0	0.0	0.0
9120	65.000	63.446	-0.110	0.0	0.0	0.0
9144	65.000	63.446	-0.110	0.0	0.0	0.0
9168	65.000	63.446	-0.110	0.0	0.0	0.0
9192	65.000	63.446	-0.110	0.0	0.0	0.0
9216	65.000	63.446	-0.110	0.0	0.0	0.0
9240	65.000	63.446	-0.110	0.0	0.0	0.0
9264	65.000	63.446	-0.110	0.0	0.0	0.0
9288	65.000	63.446	-0.110	0.0	0.0	0.0
9312	65.000	63.446	-0.110	0.0	0.0	0.0
9336	65.000	63.446	-0.110	0.0	0.0	0.0
9360	65.000	63.446	-0.110	0.0	0.0	0.0
9384	65.000	63.446	-0.110	0.0	0.0	0.0
9408	65.000	63.445	-0.110	0.0	0.0	0.0
9432	65.000	63.445	-0.110	0.0	0.0	0.0
9456	65.000	63.445	-0.110	0.0	0.0	0.0
9480	65.000	63.445	-0.110	0.0	0.0	0.0
9504	65.000	63.445	-0.110	0.0	0.0	0.0
9528	65.000	63.445	-0.110	0.0	0.0	0.0
9552	65.000	63.445	-0.110	0.0	0.0	0.0
9576	65.000	63.445	-0.110	0.0	0.0	0.0
9600	65.000	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.445	-0.110	0.0	0.0	0.0
9648	65.000	63.445	-0.110	0.0	0.0	0.0
9672	65.000	63.445	-0.110	0.0	0.0	0.0
9696	65.000	63.445	-0.110	0.0	0.0	0.0
9720	65.000	63.445	-0.110	0.0	0.0	0.0
9744	65.000	63.445	-0.110	0.0	0.0	0.0
9768	65.000	63.445	-0.110	0.0	0.0	0.0
9792	65.000	63.445	-0.110	0.0	0.0	0.0
9816	65.000	63.445	-0.110	0.0	0.0	0.0
9840	65.000	63.445	-0.110	0.0	0.0	0.0
9864	65.000	63.445	-0.110	0.0	0.0	0.0
9888	65.000	63.445	-0.110	0.0	0.0	0.0
9912	65.000	63.445	-0.110	0.0	0.0	0.0
9936	65.000	63.445	-0.110	0.0	0.0	0.0
9960	65.000	63.445	-0.110	0.0	0.0	0.0
9984	65.000	63.445	-0.110	0.0	0.0	0.0
10008	65.000	63.445	-0.110	0.0	0.0	0.0
10032	65.000	63.445	-0.110	0.0	0.0	0.0
10056	65.000	63.445	-0.110	0.0	0.0	0.0
10080	65.000	63.445	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.000	63.444	-0.110	0.0	0.0	0.0
14448	65.000	63.444	-0.110	0.0	0.0	0.0
14472	65.000	63.444	-0.110	0.0	0.0	0.0
14496	65.000	63.444	-0.110	0.0	0.0	0.0
14520	65.000	63.444	-0.110	0.0	0.0	0.0
14544	65.000	63.444	-0.110	0.0	0.0	0.0
14568	65.000	63.444	-0.110	0.0	0.0	0.0
14592	65.000	63.444	-0.110	0.0	0.0	0.0
14616	65.000	63.444	-0.110	0.0	0.0	0.0
14640	65.000	63.444	-0.110	0.0	0.0	0.0
14664	65.000	63.444	-0.110	0.0	0.0	0.0
14688	65.000	63.444	-0.110	0.0	0.0	0.0
14712	65.000	63.444	-0.110	0.0	0.0	0.0
14736	65.000	63.444	-0.110	0.0	0.0	0.0
14760	65.000	63.444	-0.110	0.0	0.0	0.0
14784	65.000	63.444	-0.110	0.0	0.0	0.0
14808	65.000	63.444	-0.110	0.0	0.0	0.0
14832	65.000	63.444	-0.110	0.0	0.0	0.0
14856	65.000	63.444	-0.110	0.0	0.0	0.0
14880	65.000	63.444	-0.110	0.0	0.0	0.0
14904	65.000	63.444	-0.110	0.0	0.0	0.0
14928	65.000	63.444	-0.110	0.0	0.0	0.0
14952	65.000	63.444	-0.110	0.0	0.0	0.0
14976	65.000	63.444	-0.110	0.0	0.0	0.0
15000	65.000	63.444	-0.110	0.0	0.0	0.0
15024	65.000	63.444	-0.110	0.0	0.0	0.0
15048	65.000	63.444	-0.110	0.0	0.0	0.0
15072	65.000	63.444	-0.110	0.0	0.0	0.0
15096	65.000	63.444	-0.110	0.0	0.0	0.0
15120	65.000	63.444	-0.110	0.0	0.0	0.0
15144	65.000	63.444	-0.110	0.0	0.0	0.0
15168	65.000	63.444	-0.110	0.0	0.0	0.0
15192	65.000	63.444	-0.110	0.0	0.0	0.0
15216	65.000	63.444	-0.110	0.0	0.0	0.0
15240	65.000	63.444	-0.110	0.0	0.0	0.0
15264	65.000	63.444	-0.110	0.0	0.0	0.0
15288	65.000	63.444	-0.110	0.0	0.0	0.0
15312	65.000	63.444	-0.110	0.0	0.0	0.0
15336	65.000	63.444	-0.110	0.0	0.0	0.0
15360	65.000	63.444	-0.110	0.0	0.0	0.0
15384	65.000	63.444	-0.110	0.0	0.0	0.0
15408	65.000	63.444	-0.110	0.0	0.0	0.0
15432	65.000	63.444	-0.110	0.0	0.0	0.0
15456	65.000	63.444	-0.110	0.0	0.0	0.0
15480	65.000	63.444	-0.110	0.0	0.0	0.0
15504	65.000	63.444	-0.110	0.0	0.0	0.0
15528	65.000	63.444	-0.110	0.0	0.0	0.0
15552	65.000	63.444	-0.110	0.0	0.0	0.0
15576	65.000	63.444	-0.110	0.0	0.0	0.0
15600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.000	63.444	-0.110	0.0	0.0	0.0
15648	65.000	63.444	-0.110	0.0	0.0	0.0
15672	65.000	63.444	-0.110	0.0	0.0	0.0
15696	65.000	63.444	-0.110	0.0	0.0	0.0
15720	65.000	63.444	-0.110	0.0	0.0	0.0
15744	65.000	63.444	-0.110	0.0	0.0	0.0
15768	65.000	63.444	-0.110	0.0	0.0	0.0
15792	65.000	63.444	-0.110	0.0	0.0	0.0
15816	65.000	63.444	-0.110	0.0	0.0	0.0
15840	65.000	63.444	-0.110	0.0	0.0	0.0
15864	65.000	63.444	-0.110	0.0	0.0	0.0
15888	65.000	63.444	-0.110	0.0	0.0	0.0
15912	65.000	63.444	-0.110	0.0	0.0	0.0
15936	65.000	63.444	-0.110	0.0	0.0	0.0
15960	65.000	63.444	-0.110	0.0	0.0	0.0
15984	65.000	63.444	-0.110	0.0	0.0	0.0
16008	65.000	63.444	-0.110	0.0	0.0	0.0
16032	65.000	63.444	-0.110	0.0	0.0	0.0
16056	65.000	63.444	-0.110	0.0	0.0	0.0
16080	65.000	63.444	-0.110	0.0	0.0	0.0
16104	65.000	63.444	-0.110	0.0	0.0	0.0
16128	65.000	63.444	-0.110	0.0	0.0	0.0
16152	65.000	63.444	-0.110	0.0	0.0	0.0
16176	65.000	63.444	-0.110	0.0	0.0	0.0
16200	65.000	63.444	-0.110	0.0	0.0	0.0
16224	65.000	63.444	-0.110	0.0	0.0	0.0
16248	65.000	63.444	-0.110	0.0	0.0	0.0
16272	65.000	63.444	-0.110	0.0	0.0	0.0
16296	65.000	63.444	-0.110	0.0	0.0	0.0
16320	65.000	63.444	-0.110	0.0	0.0	0.0
16344	65.000	63.444	-0.110	0.0	0.0	0.0
16368	65.000	63.444	-0.110	0.0	0.0	0.0
16392	65.000	63.444	-0.110	0.0	0.0	0.0
16416	65.000	63.444	-0.110	0.0	0.0	0.0
16440	65.000	63.444	-0.110	0.0	0.0	0.0
16464	65.000	63.444	-0.110	0.0	0.0	0.0
16488	65.000	63.444	-0.110	0.0	0.0	0.0
16512	65.000	63.444	-0.110	0.0	0.0	0.0
16536	65.000	63.444	-0.110	0.0	0.0	0.0
16560	65.000	63.444	-0.110	0.0	0.0	0.0
16584	65.000	63.444	-0.110	0.0	0.0	0.0
16608	65.000	63.444	-0.110	0.0	0.0	0.0
16632	65.000	63.444	-0.110	0.0	0.0	0.0
16656	65.000	63.444	-0.110	0.0	0.0	0.0
16680	65.000	63.444	-0.110	0.0	0.0	0.0
16704	65.000	63.444	-0.110	0.0	0.0	0.0
16728	65.000	63.444	-0.110	0.0	0.0	0.0
16752	65.000	63.444	-0.110	0.0	0.0	0.0
16776	65.000	63.444	-0.110	0.0	0.0	0.0
16800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.000	63.444	-0.110	0.0	0.0	0.0
16848	65.000	63.444	-0.110	0.0	0.0	0.0
16872	65.000	63.444	-0.110	0.0	0.0	0.0
16896	65.000	63.444	-0.110	0.0	0.0	0.0
16920	65.000	63.444	-0.110	0.0	0.0	0.0
16944	65.000	63.444	-0.110	0.0	0.0	0.0
16968	65.000	63.444	-0.110	0.0	0.0	0.0
16992	65.000	63.444	-0.110	0.0	0.0	0.0
17016	65.000	63.444	-0.110	0.0	0.0	0.0
17040	65.000	63.444	-0.110	0.0	0.0	0.0
17064	65.000	63.444	-0.110	0.0	0.0	0.0
17088	65.000	63.444	-0.110	0.0	0.0	0.0
17112	65.000	63.444	-0.110	0.0	0.0	0.0
17136	65.000	63.444	-0.110	0.0	0.0	0.0
17160	65.000	63.444	-0.110	0.0	0.0	0.0
17184	65.000	63.444	-0.110	0.0	0.0	0.0
17208	65.000	63.444	-0.110	0.0	0.0	0.0
17232	65.000	63.444	-0.110	0.0	0.0	0.0
17256	65.000	63.444	-0.110	0.0	0.0	0.0
17280	65.000	63.444	-0.110	0.0	0.0	0.0
17304	65.000	63.444	-0.110	0.0	0.0	0.0
17328	65.000	63.444	-0.110	0.0	0.0	0.0
17352	65.000	63.444	-0.110	0.0	0.0	0.0
17376	65.000	63.444	-0.110	0.0	0.0	0.0
17400	65.000	63.444	-0.110	0.0	0.0	0.0
17424	65.000	63.444	-0.110	0.0	0.0	0.0
17448	65.000	63.444	-0.110	0.0	0.0	0.0
17472	65.000	63.444	-0.110	0.0	0.0	0.0
17496	65.000	63.444	-0.110	0.0	0.0	0.0
17520	65.000	63.444	-0.110	0.0	0.0	0.0
17544	65.000	63.444	-0.110	0.0	0.0	0.0
17568	65.000	63.444	-0.110	0.0	0.0	0.0
17592	65.000	63.444	-0.110	0.0	0.0	0.0
17616	65.000	63.444	-0.110	0.0	0.0	0.0
17640	65.000	63.444	-0.110	0.0	0.0	0.0
17664	65.000	63.444	-0.110	0.0	0.0	0.0
17688	65.000	63.444	-0.110	0.0	0.0	0.0
17712	65.000	63.444	-0.110	0.0	0.0	0.0
17736	65.000	63.444	-0.110	0.0	0.0	0.0
17760	65.000	63.444	-0.110	0.0	0.0	0.0
17784	65.000	63.444	-0.110	0.0	0.0	0.0
17808	65.000	63.444	-0.110	0.0	0.0	0.0
17832	65.000	63.444	-0.110	0.0	0.0	0.0
17856	65.000	63.444	-0.110	0.0	0.0	0.0
17880	65.000	63.444	-0.110	0.0	0.0	0.0
17904	65.000	63.444	-0.110	0.0	0.0	0.0
17928	65.000	63.444	-0.110	0.0	0.0	0.0
17952	65.000	63.444	-0.110	0.0	0.0	0.0
17976	65.000	63.444	-0.110	0.0	0.0	0.0
18000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.000	63.444	-0.110	0.0	0.0	0.0
18048	65.000	63.444	-0.110	0.0	0.0	0.0
18072	65.000	63.444	-0.110	0.0	0.0	0.0
18096	65.000	63.444	-0.110	0.0	0.0	0.0
18120	65.000	63.444	-0.110	0.0	0.0	0.0
18144	65.000	63.444	-0.110	0.0	0.0	0.0
18168	65.000	63.444	-0.110	0.0	0.0	0.0
18192	65.000	63.444	-0.110	0.0	0.0	0.0
18216	65.000	63.444	-0.110	0.0	0.0	0.0
18240	65.000	63.444	-0.110	0.0	0.0	0.0
18264	65.000	63.444	-0.110	0.0	0.0	0.0
18288	65.000	63.444	-0.110	0.0	0.0	0.0
18312	65.000	63.444	-0.110	0.0	0.0	0.0
18336	65.000	63.444	-0.110	0.0	0.0	0.0
18360	65.000	63.444	-0.110	0.0	0.0	0.0
18384	65.000	63.444	-0.110	0.0	0.0	0.0
18408	65.000	63.444	-0.110	0.0	0.0	0.0
18432	65.000	63.444	-0.110	0.0	0.0	0.0
18456	65.000	63.444	-0.110	0.0	0.0	0.0
18480	65.000	63.444	-0.110	0.0	0.0	0.0
18504	65.000	63.444	-0.110	0.0	0.0	0.0
18528	65.000	63.444	-0.110	0.0	0.0	0.0
18552	65.000	63.444	-0.110	0.0	0.0	0.0
18576	65.000	63.444	-0.110	0.0	0.0	0.0
18600	65.000	63.444	-0.110	0.0	0.0	0.0
18624	65.000	63.444	-0.110	0.0	0.0	0.0
18648	65.000	63.444	-0.110	0.0	0.0	0.0
18672	65.000	63.444	-0.110	0.0	0.0	0.0
18696	65.000	63.444	-0.110	0.0	0.0	0.0
18720	65.000	63.444	-0.110	0.0	0.0	0.0
18744	65.000	63.444	-0.110	0.0	0.0	0.0
18768	65.000	63.444	-0.110	0.0	0.0	0.0
18792	65.000	63.444	-0.110	0.0	0.0	0.0
18816	65.000	63.444	-0.110	0.0	0.0	0.0
18840	65.000	63.444	-0.110	0.0	0.0	0.0
18864	65.000	63.444	-0.110	0.0	0.0	0.0
18888	65.000	63.444	-0.110	0.0	0.0	0.0
18912	65.000	63.444	-0.110	0.0	0.0	0.0
18936	65.000	63.444	-0.110	0.0	0.0	0.0
18960	65.000	63.444	-0.110	0.0	0.0	0.0
18984	65.000	63.444	-0.110	0.0	0.0	0.0
19008	65.000	63.444	-0.110	0.0	0.0	0.0
19032	65.000	63.444	-0.110	0.0	0.0	0.0
19056	65.000	63.444	-0.110	0.0	0.0	0.0
19080	65.000	63.444	-0.110	0.0	0.0	0.0
19104	65.000	63.444	-0.110	0.0	0.0	0.0
19128	65.000	63.444	-0.110	0.0	0.0	0.0
19152	65.000	63.444	-0.110	0.0	0.0	0.0
19176	65.000	63.444	-0.110	0.0	0.0	0.0
19200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.000	63.444	-0.110	0.0	0.0	0.0
19248	65.000	63.444	-0.110	0.0	0.0	0.0
19272	65.000	63.444	-0.110	0.0	0.0	0.0
19296	65.000	63.444	-0.110	0.0	0.0	0.0
19320	65.000	63.444	-0.110	0.0	0.0	0.0
19344	65.000	63.444	-0.110	0.0	0.0	0.0
19368	65.000	63.444	-0.110	0.0	0.0	0.0
19392	65.000	63.444	-0.110	0.0	0.0	0.0
19416	65.000	63.444	-0.110	0.0	0.0	0.0
19440	65.000	63.444	-0.110	0.0	0.0	0.0
19464	65.000	63.444	-0.110	0.0	0.0	0.0
19488	65.000	63.444	-0.110	0.0	0.0	0.0
19512	65.000	63.444	-0.110	0.0	0.0	0.0
19536	65.000	63.444	-0.110	0.0	0.0	0.0
19560	65.000	63.444	-0.110	0.0	0.0	0.0
19584	65.000	63.444	-0.110	0.0	0.0	0.0
19608	65.000	63.444	-0.110	0.0	0.0	0.0
19632	65.000	63.444	-0.110	0.0	0.0	0.0
19656	65.000	63.444	-0.110	0.0	0.0	0.0
19680	65.000	63.444	-0.110	0.0	0.0	0.0
19704	65.000	63.444	-0.110	0.0	0.0	0.0
19728	65.000	63.444	-0.110	0.0	0.0	0.0
19752	65.000	63.444	-0.110	0.0	0.0	0.0
19776	65.000	63.444	-0.110	0.0	0.0	0.0
19800	65.000	63.444	-0.110	0.0	0.0	0.0
19824	65.000	63.444	-0.110	0.0	0.0	0.0
19848	65.000	63.444	-0.110	0.0	0.0	0.0
19872	65.000	63.444	-0.110	0.0	0.0	0.0
19896	65.000	63.444	-0.110	0.0	0.0	0.0
19920	65.000	63.444	-0.110	0.0	0.0	0.0
19944	65.000	63.444	-0.110	0.0	0.0	0.0
19968	65.000	63.444	-0.110	0.0	0.0	0.0
19992	65.000	63.444	-0.110	0.0	0.0	0.0
20016	65.000	63.444	-0.110	0.0	0.0	0.0
20040	65.000	63.444	-0.110	0.0	0.0	0.0
20064	65.000	63.444	-0.110	0.0	0.0	0.0
20088	65.000	63.444	-0.110	0.0	0.0	0.0
20112	65.000	63.444	-0.110	0.0	0.0	0.0
20136	65.000	63.444	-0.110	0.0	0.0	0.0
20160	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.445	63.251	-0.109	0.0	0.1	0.0
48	63.445	63.251	-0.109	0.0	0.1	0.0
72	63.445	63.252	-0.109	0.0	0.1	0.0
96	63.445	63.253	-0.109	0.0	0.1	0.0
120	63.445	63.254	-0.109	0.0	0.1	0.0
144	63.445	63.254	-0.109	0.0	0.1	0.0
168	63.445	63.255	-0.109	0.0	0.1	0.0
192	63.445	63.255	-0.109	0.0	0.1	0.0
216	63.445	63.256	-0.109	0.0	0.1	0.0
240	63.445	63.256	-0.109	0.0	0.1	0.0
264	63.445	63.257	-0.109	0.0	0.1	0.0
288	63.445	63.257	-0.109	0.0	0.1	0.0
312	63.445	63.258	-0.109	0.0	0.1	0.0
336	63.445	63.258	-0.109	0.0	0.1	0.0
360	63.445	63.258	-0.109	0.0	0.1	0.0
384	63.445	63.258	-0.109	0.0	0.1	0.0
408	63.445	63.259	-0.109	0.0	0.1	0.0
432	63.445	63.259	-0.109	0.0	0.1	0.0
456	63.445	63.259	-0.109	0.0	0.1	0.0
480	63.445	63.259	-0.109	0.0	0.1	0.0
504	63.445	63.259	-0.109	0.0	0.1	0.0
528	63.445	63.259	-0.109	0.0	0.1	0.0
552	63.445	63.259	-0.109	0.0	0.1	0.0
576	63.445	63.259	-0.109	0.0	0.1	0.0
600	63.445	63.259	-0.109	0.0	0.1	0.0
624	63.445	63.259	-0.109	0.0	0.1	0.0
648	63.445	63.260	-0.109	0.0	0.1	0.0
672	63.445	63.260	-0.109	0.0	0.1	0.0
696	63.445	63.260	-0.109	0.0	0.1	0.0
720	63.446	63.260	-0.109	0.0	0.1	0.0
744	63.446	63.260	-0.109	0.0	0.1	0.0
768	63.446	63.260	-0.109	0.0	0.1	0.0
792	63.446	63.260	-0.109	0.0	0.1	0.0
816	63.446	63.260	-0.109	0.0	0.1	0.0
840	63.446	63.260	-0.109	0.0	0.1	0.0
864	63.446	63.260	-0.109	0.0	0.1	0.0
888	63.446	63.260	-0.109	0.0	0.1	0.0
912	63.446	63.260	-0.109	0.0	0.1	0.0
936	63.446	63.260	-0.109	0.0	0.1	0.0
960	63.446	63.260	-0.109	0.0	0.1	0.0
984	63.446	63.260	-0.109	0.0	0.1	0.0
1008	63.446	63.260	-0.109	0.0	0.1	0.0
1032	63.446	63.260	-0.109	0.0	0.1	0.0
1056	63.446	63.260	-0.109	0.0	0.1	0.0
1080	63.446	63.260	-0.109	0.0	0.1	0.0
1104	63.446	63.260	-0.109	0.0	0.1	0.0
1128	63.446	63.260	-0.109	0.0	0.1	0.0
1152	63.446	63.260	-0.109	0.0	0.1	0.0
1176	63.446	63.260	-0.109	0.0	0.1	0.0
1200	63.446	63.260	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.446	63.260	-0.109	0.0	0.1	0.0
1248	63.446	63.260	-0.109	0.0	0.1	0.0
1272	63.446	63.260	-0.109	0.0	0.1	0.0
1296	63.446	63.260	-0.109	0.0	0.1	0.0
1320	63.446	63.260	-0.109	0.0	0.1	0.0
1344	63.446	63.260	-0.108	0.0	0.1	0.0
1368	63.446	63.260	-0.108	0.0	0.1	0.0
1392	63.446	63.260	-0.108	0.0	0.1	0.0
1416	63.446	63.260	-0.108	0.0	0.1	0.0
1440	63.446	63.260	-0.108	0.0	0.1	0.0
1464	63.446	63.260	-0.108	0.0	0.1	0.0
1488	63.446	63.260	-0.108	0.0	0.1	0.0
1512	63.446	63.260	-0.108	0.0	0.1	0.0
1536	63.446	63.260	-0.108	0.0	0.1	0.0
1560	63.446	63.260	-0.108	0.0	0.1	0.0
1584	63.446	63.260	-0.108	0.0	0.1	0.0
1608	63.446	63.260	-0.108	0.0	0.1	0.0
1632	63.446	63.261	-0.108	0.0	0.1	0.0
1656	63.446	63.261	-0.108	0.0	0.1	0.0
1680	63.446	63.261	-0.108	0.0	0.1	0.0
1704	63.446	63.261	-0.108	0.0	0.1	0.0
1728	63.446	63.261	-0.108	0.0	0.1	0.0
1752	63.446	63.261	-0.108	0.0	0.1	0.0
1776	63.446	63.261	-0.108	0.0	0.1	0.0
1800	63.446	63.261	-0.108	0.0	0.1	0.0
1824	63.446	63.261	-0.108	0.0	0.1	0.0
1848	63.446	63.261	-0.108	0.0	0.1	0.0
1872	63.446	63.261	-0.108	0.0	0.1	0.0
1896	63.446	63.261	-0.108	0.0	0.1	0.0
1920	63.446	63.261	-0.108	0.0	0.1	0.0
1944	63.446	63.261	-0.108	0.0	0.1	0.0
1968	63.446	63.261	-0.108	0.0	0.1	0.0
1992	63.446	63.261	-0.108	0.0	0.1	0.0
2016	63.446	63.261	-0.108	0.0	0.1	0.0
2040	63.446	63.261	-0.108	0.0	0.1	0.0
2064	63.446	63.261	-0.108	0.0	0.1	0.0
2088	63.446	63.261	-0.108	0.0	0.1	0.0
2112	63.446	63.261	-0.108	0.0	0.1	0.0
2136	63.446	63.261	-0.108	0.0	0.1	0.0
2160	63.446	63.261	-0.108	0.0	0.1	0.0
2184	63.446	63.262	-0.108	0.0	0.1	0.0
2208	63.446	63.262	-0.108	0.0	0.1	0.0
2232	63.446	63.262	-0.108	0.0	0.1	0.0
2256	63.446	63.262	-0.108	0.0	0.1	0.0
2280	63.446	63.262	-0.108	0.0	0.1	0.0
2304	63.446	63.262	-0.108	0.0	0.1	0.0
2328	63.446	63.262	-0.108	0.0	0.1	0.0
2352	63.446	63.262	-0.108	0.0	0.1	0.0
2376	63.446	63.262	-0.108	0.0	0.1	0.0
2400	63.446	63.262	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.446	63.262	-0.108	0.0	0.1	0.0
2448	63.446	63.262	-0.108	0.0	0.1	0.0
2472	63.446	63.262	-0.108	0.0	0.1	0.0
2496	63.446	63.262	-0.108	0.0	0.1	0.0
2520	63.446	63.262	-0.108	0.0	0.1	0.0
2544	63.446	63.262	-0.108	0.0	0.1	0.0
2568	63.446	63.262	-0.108	0.0	0.1	0.0
2592	63.446	63.263	-0.108	0.0	0.1	0.0
2616	63.446	63.263	-0.108	0.0	0.1	0.0
2640	63.446	63.263	-0.108	0.0	0.1	0.0
2664	63.446	63.263	-0.108	0.0	0.1	0.0
2688	63.446	63.263	-0.108	0.0	0.1	0.0
2712	63.446	63.263	-0.108	0.0	0.1	0.0
2736	63.446	63.263	-0.108	0.0	0.1	0.0
2760	63.446	63.263	-0.108	0.0	0.1	0.0
2784	63.446	63.263	-0.108	0.0	0.1	0.0
2808	63.446	63.263	-0.108	0.0	0.1	0.0
2832	63.446	63.263	-0.108	0.0	0.1	0.0
2856	63.446	63.263	-0.108	0.0	0.1	0.0
2880	63.446	63.264	-0.108	0.0	0.1	0.0
2904	63.446	63.264	-0.108	0.0	0.1	0.0
2928	63.447	63.264	-0.108	0.0	0.1	0.0
2952	63.447	63.264	-0.108	0.0	0.1	0.0
2976	63.447	63.264	-0.108	0.0	0.1	0.0
3000	63.447	63.264	-0.108	0.0	0.1	0.0
3024	63.447	63.264	-0.108	0.0	0.1	0.0
3048	63.447	63.264	-0.107	0.0	0.1	0.0
3072	63.447	63.264	-0.107	0.0	0.2	0.0
3096	63.447	63.264	-0.107	0.0	0.2	0.0
3120	63.447	63.265	-0.107	0.0	0.2	0.0
3144	63.447	63.265	-0.107	0.0	0.2	0.0
3168	63.447	63.265	-0.107	0.0	0.2	0.0
3192	63.447	63.265	-0.107	0.0	0.2	0.0
3216	63.447	63.265	-0.107	0.0	0.2	0.0
3240	63.447	63.265	-0.107	0.0	0.2	0.0
3264	63.447	63.265	-0.107	0.0	0.2	0.0
3288	63.447	63.265	-0.107	0.0	0.2	0.0
3312	63.447	63.266	-0.107	0.0	0.2	0.0
3336	63.447	63.266	-0.107	0.0	0.2	0.0
3360	63.447	63.266	-0.107	0.0	0.2	0.0
3384	63.447	63.266	-0.107	0.0	0.2	0.0
3408	63.447	63.266	-0.107	0.0	0.2	0.0
3432	63.447	63.266	-0.107	0.0	0.2	0.0
3456	63.448	63.267	-0.106	0.0	0.2	0.0
3480	63.448	63.267	-0.106	0.0	0.2	0.0
3504	63.448	63.267	-0.106	0.0	0.2	0.0
3528	63.448	63.267	-0.106	0.0	0.2	0.0
3552	63.448	63.267	-0.106	0.0	0.2	0.1
3576	63.448	63.268	-0.106	0.0	0.2	0.1
3600	63.448	63.268	-0.106	0.0	0.2	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.448	63.268	-0.106	0.0	0.2	0.1
3648	63.448	63.268	-0.106	0.0	0.2	0.1
3672	63.448	63.269	-0.106	0.0	0.2	0.1
3696	63.448	63.269	-0.106	0.0	0.2	0.1
3720	63.448	63.269	-0.106	0.0	0.2	0.1
3744	63.449	63.270	-0.105	0.0	0.3	0.1
3768	63.449	63.270	-0.105	0.0	0.3	0.1
3792	63.449	63.270	-0.105	0.0	0.3	0.1
3816	63.449	63.271	-0.105	0.0	0.3	0.1
3840	63.449	63.271	-0.105	0.0	0.3	0.1
3864	63.449	63.271	-0.105	0.0	0.3	0.1
3888	63.449	63.272	-0.105	0.0	0.3	0.1
3912	63.449	63.272	-0.105	0.0	0.3	0.1
3936	63.450	63.272	-0.105	0.0	0.3	0.1
3960	63.450	63.273	-0.104	0.0	0.3	0.1
3984	63.450	63.273	-0.104	0.0	0.3	0.1
4008	63.450	63.274	-0.104	0.0	0.3	0.1
4032	63.450	63.274	-0.104	0.0	0.3	0.1
4056	63.451	63.275	-0.103	0.0	0.4	0.1
4080	63.451	63.275	-0.103	0.0	0.4	0.1
4104	63.451	63.276	-0.103	0.0	0.4	0.1
4128	63.451	63.276	-0.103	0.0	0.4	0.1
4152	63.451	63.277	-0.103	0.0	0.4	0.1
4176	63.451	63.278	-0.103	0.0	0.4	0.1
4200	63.451	63.278	-0.103	0.0	0.4	0.1
4224	63.451	63.279	-0.103	0.0	0.4	0.1
4248	63.452	63.280	-0.102	0.0	0.4	0.1
4272	63.452	63.281	-0.102	0.0	0.4	0.1
4296	63.452	63.282	-0.102	0.0	0.4	0.1
4320	63.452	63.284	-0.102	0.0	0.4	0.1
4344	63.453	63.285	-0.102	0.0	0.3	0.1
4368	63.453	63.287	-0.101	0.0	0.4	0.1
4392	63.453	63.290	-0.101	0.0	0.4	0.1
4416	63.453	63.292	-0.101	0.0	0.4	0.1
4440	63.453	63.295	-0.101	0.0	0.3	0.1
4464	63.454	63.297	-0.100	0.0	0.3	0.1
4488	63.454	63.301	-0.100	0.0	0.3	0.1
4512	63.454	63.303	-0.100	0.0	0.3	0.1
4536	63.454	63.306	-0.100	0.0	0.3	0.1
4560	63.455	63.310	-0.099	0.0	0.3	0.1
4584	63.455	63.313	-0.099	0.0	0.3	0.1
4608	63.455	63.317	-0.099	0.0	0.3	0.1
4632	63.455	63.320	-0.099	0.0	0.3	0.1
4656	63.455	63.324	-0.099	0.0	0.3	0.2
4680	63.455	63.328	-0.099	0.0	0.3	0.2
4704	63.455	63.331	-0.099	0.0	0.3	0.2
4728	63.455	63.335	-0.099	0.0	0.3	0.2
4752	63.456	63.339	-0.099	0.0	0.3	0.2
4776	63.456	63.344	-0.098	0.0	0.3	0.2
4800	63.456	63.348	-0.098	0.0	0.3	0.2

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.456	63.353	-0.098	0.0	0.3	0.2
4848	63.456	63.357	-0.098	0.0	0.3	0.2
4872	63.456	63.363	-0.098	0.0	0.3	0.2
4896	63.456	63.371	-0.098	0.0	0.3	0.2
4920	63.456	63.378	-0.098	0.0	0.3	0.2
4944	63.456	63.384	-0.098	0.0	0.3	0.2
4968	63.456	63.390	-0.098	0.0	0.4	0.2
4992	63.456	63.396	-0.098	0.0	0.4	0.2
5016	63.456	63.402	-0.098	0.0	0.4	0.2
5040	63.456	63.407	-0.098	0.0	0.4	0.2
5064	63.456	63.412	-0.098	0.0	0.4	0.2
5088	63.456	63.416	-0.098	0.0	0.4	0.2
5112	63.456	63.420	-0.098	0.0	0.4	0.2
5136	63.456	63.425	-0.098	0.0	0.4	0.2
5160	63.456	63.429	-0.098	0.0	0.3	0.2
5184	63.456	63.433	-0.098	0.0	0.3	0.2
5208	63.456	63.438	-0.098	0.0	0.3	0.2
5232	63.456	63.442	-0.098	0.0	0.3	0.2
5256	63.456	63.447	-0.098	0.0	0.3	0.2
5280	63.457	63.451	-0.097	0.0	0.3	0.2
5304	63.459	63.455	-0.095	0.0	0.3	0.2
5328	63.461	63.459	-0.093	0.0	0.2	0.2
5352	63.464	63.463	-0.090	0.0	0.2	0.2
5376	63.467	63.466	-0.088	0.0	0.1	0.2
5400	63.470	63.469	-0.084	0.0	0.1	0.2
5424	63.473	63.473	-0.081	0.0	0.1	0.2
5448	63.476	63.476	-0.078	0.0	0.1	0.2
5472	63.479	63.479	-0.075	0.0	0.1	0.1
5496	63.482	63.481	-0.072	0.0	0.1	0.1
5520	63.484	63.484	-0.070	0.0	0.0	0.1
5544	63.487	63.486	-0.067	0.0	0.0	0.1
5568	63.489	63.489	-0.065	0.0	0.0	0.1
5592	63.491	63.491	-0.063	0.0	0.0	0.1
5616	63.493	63.493	-0.061	0.0	0.0	0.1
5640	63.496	63.495	-0.058	0.0	0.0	0.1
5664	63.498	63.497	-0.057	0.0	0.0	0.1
5688	63.499	63.499	-0.055	0.0	0.0	0.1
5712	63.501	63.501	-0.053	0.0	0.0	0.1
5736	63.503	63.502	-0.052	0.0	0.0	0.1
5760	63.504	63.504	-0.050	0.0	0.0	0.1
5784	63.505	63.505	-0.049	0.0	0.0	0.1
5808	63.507	63.506	-0.048	0.0	0.0	0.1
5832	63.508	63.507	-0.046	0.0	0.0	0.1
5856	63.509	63.508	-0.045	0.0	0.0	0.1
5880	63.510	63.509	-0.045	0.0	0.0	0.1
5904	63.510	63.510	-0.044	0.0	0.0	0.1
5928	63.511	63.511	-0.043	0.0	0.0	0.1
5952	63.512	63.511	-0.042	0.0	0.0	0.1
5976	63.512	63.512	-0.042	0.0	0.0	0.1
6000	63.513	63.512	-0.042	0.0	0.0	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.513	63.513	-0.041	0.0	0.0	0.1
6048	63.513	63.513	-0.041	0.0	0.0	0.1
6072	63.513	63.513	-0.041	0.0	0.0	0.1
6096	63.513	63.513	-0.041	0.0	0.0	0.1
6120	63.513	63.513	-0.041	0.0	0.0	0.1
6144	63.513	63.513	-0.041	0.0	0.0	0.1
6168	63.513	63.513	-0.041	0.0	0.0	0.1
6192	63.513	63.512	-0.042	0.0	0.0	0.1
6216	63.512	63.512	-0.042	0.0	0.0	0.1
6240	63.512	63.512	-0.042	0.0	0.0	0.1
6264	63.511	63.511	-0.043	0.0	0.0	0.1
6288	63.511	63.510	-0.043	0.0	0.0	0.1
6312	63.510	63.510	-0.044	0.0	0.0	0.1
6336	63.509	63.509	-0.045	0.0	0.0	0.1
6360	63.509	63.508	-0.046	0.0	0.0	0.1
6384	63.508	63.507	-0.046	0.0	0.0	0.1
6408	63.506	63.506	-0.048	0.0	0.0	0.1
6432	63.506	63.506	-0.048	0.0	0.0	0.1
6456	63.505	63.505	-0.049	0.0	0.0	0.1
6480	63.504	63.504	-0.050	0.0	0.0	0.1
6504	63.503	63.502	-0.052	0.0	0.0	0.1
6528	63.501	63.501	-0.053	0.0	0.0	0.1
6552	63.500	63.500	-0.054	0.0	0.0	0.1
6576	63.499	63.499	-0.055	0.0	0.0	0.1
6600	63.497	63.497	-0.057	0.0	0.0	0.0
6624	63.496	63.496	-0.058	0.0	0.0	0.0
6648	63.495	63.495	-0.059	0.0	0.0	0.0
6672	63.493	63.493	-0.061	0.0	0.0	0.0
6696	63.492	63.492	-0.062	0.0	0.0	0.0
6720	63.490	63.490	-0.064	0.0	0.0	0.0
6744	63.489	63.489	-0.065	0.0	0.0	0.0
6768	63.487	63.487	-0.067	0.0	0.0	0.0
6792	63.486	63.486	-0.068	0.0	0.0	0.0
6816	63.484	63.484	-0.070	0.0	0.0	0.0
6840	63.482	63.482	-0.072	0.0	0.0	0.0
6864	63.481	63.481	-0.073	0.0	0.0	0.0
6888	63.479	63.479	-0.075	0.0	0.0	0.0
6912	63.477	63.477	-0.077	0.0	0.0	0.0
6936	63.476	63.475	-0.079	0.0	0.0	0.0
6960	63.474	63.474	-0.080	0.0	0.0	0.0
6984	63.472	63.472	-0.082	0.0	0.0	0.0
7008	63.470	63.470	-0.084	0.0	0.0	0.0
7032	63.468	63.468	-0.086	0.0	0.0	0.0
7056	63.466	63.466	-0.088	0.0	0.0	0.0
7080	63.465	63.465	-0.089	0.0	0.0	0.0
7104	63.462	63.463	-0.092	0.0	0.0	0.0
7128	63.461	63.461	-0.093	0.0	0.0	0.0
7152	63.459	63.459	-0.095	0.0	0.0	0.0
7176	63.458	63.457	-0.096	0.0	0.0	0.0
7200	63.456	63.455	-0.098	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.454	63.453	-0.100	0.0	0.1	0.0
7248	63.452	63.451	-0.102	0.0	0.1	0.0
7272	63.450	63.449	-0.104	0.0	0.1	0.0
7296	63.448	63.447	-0.107	0.0	0.1	0.0
7320	63.448	63.445	-0.106	0.0	0.1	0.0
7344	63.447	63.443	-0.107	0.0	0.1	0.0
7368	63.447	63.441	-0.107	0.0	0.1	0.0
7392	63.447	63.439	-0.107	0.0	0.1	0.0
7416	63.447	63.437	-0.108	0.0	0.1	0.0
7440	63.446	63.435	-0.108	0.0	0.1	0.0
7464	63.446	63.433	-0.108	0.0	0.1	0.0
7488	63.446	63.431	-0.108	0.0	0.1	0.0
7512	63.446	63.429	-0.108	0.0	0.1	0.0
7536	63.446	63.427	-0.108	0.0	0.1	0.0
7560	63.446	63.424	-0.108	0.0	0.1	0.0
7584	63.446	63.422	-0.108	0.0	0.1	0.0
7608	63.446	63.420	-0.108	0.0	0.1	0.0
7632	63.446	63.418	-0.108	0.0	0.1	0.0
7656	63.446	63.416	-0.108	0.0	0.1	0.0
7680	63.446	63.414	-0.108	0.0	0.1	0.0
7704	63.446	63.412	-0.108	0.0	0.1	0.0
7728	63.446	63.410	-0.108	0.0	0.1	0.0
7752	63.446	63.408	-0.108	0.0	0.1	0.0
7776	63.446	63.405	-0.108	0.0	0.1	0.0
7800	63.446	63.403	-0.108	0.0	0.1	0.0
7824	63.446	63.401	-0.108	0.0	0.1	0.0
7848	63.446	63.399	-0.108	0.0	0.1	0.0
7872	63.446	63.397	-0.108	0.0	0.1	0.0
7896	63.446	63.395	-0.108	0.0	0.1	0.0
7920	63.446	63.393	-0.108	0.0	0.1	0.0
7944	63.446	63.391	-0.108	0.0	0.1	0.0
7968	63.446	63.389	-0.108	0.0	0.1	0.0
7992	63.446	63.387	-0.108	0.0	0.1	0.0
8016	63.446	63.385	-0.108	0.0	0.1	0.0
8040	63.446	63.383	-0.108	0.0	0.1	0.0
8064	63.446	63.381	-0.108	0.0	0.1	0.0
8088	63.446	63.379	-0.108	0.0	0.1	0.0
8112	63.446	63.377	-0.108	0.0	0.1	0.0
8136	63.446	63.376	-0.108	0.0	0.1	0.0
8160	63.446	63.374	-0.108	0.0	0.1	0.0
8184	63.446	63.373	-0.108	0.0	0.1	0.0
8208	63.446	63.372	-0.108	0.0	0.1	0.0
8232	63.446	63.371	-0.108	0.0	0.1	0.0
8256	63.446	63.369	-0.108	0.0	0.1	0.0
8280	63.446	63.368	-0.108	0.0	0.1	0.0
8304	63.446	63.365	-0.108	0.0	0.1	0.0
8328	63.446	63.363	-0.108	0.0	0.1	0.0
8352	63.446	63.362	-0.108	0.0	0.1	0.0
8376	63.446	63.358	-0.108	0.0	0.1	0.0
8400	63.446	63.355	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.446	63.352	-0.108	0.0	0.1	0.0
8448	63.446	63.350	-0.108	0.0	0.1	0.0
8472	63.446	63.348	-0.108	0.0	0.1	0.0
8496	63.446	63.345	-0.108	0.0	0.1	0.0
8520	63.446	63.343	-0.108	0.0	0.1	0.0
8544	63.446	63.341	-0.108	0.0	0.1	0.0
8568	63.446	63.339	-0.108	0.0	0.1	0.0
8592	63.446	63.337	-0.108	0.0	0.1	0.0
8616	63.446	63.334	-0.108	0.0	0.1	0.0
8640	63.446	63.332	-0.108	0.0	0.1	0.0
8664	63.446	63.330	-0.108	0.0	0.1	0.0
8688	63.446	63.328	-0.108	0.0	0.1	0.0
8712	63.446	63.326	-0.108	0.0	0.1	0.0
8736	63.446	63.324	-0.108	0.0	0.1	0.0
8760	63.446	63.322	-0.108	0.0	0.1	0.0
8784	63.446	63.319	-0.109	0.0	0.1	0.0
8808	63.446	63.317	-0.109	0.0	0.1	0.0
8832	63.446	63.315	-0.109	0.0	0.1	0.0
8856	63.446	63.313	-0.109	0.0	0.1	0.0
8880	63.446	63.310	-0.109	0.0	0.1	0.0
8904	63.446	63.308	-0.109	0.0	0.1	0.0
8928	63.446	63.306	-0.109	0.0	0.1	0.0
8952	63.446	63.304	-0.109	0.0	0.1	0.0
8976	63.446	63.302	-0.109	0.0	0.1	0.0
9000	63.446	63.299	-0.109	0.0	0.1	0.0
9024	63.446	63.297	-0.109	0.0	0.1	0.0
9048	63.446	63.295	-0.109	0.0	0.1	0.0
9072	63.446	63.292	-0.109	0.0	0.1	0.0
9096	63.446	63.290	-0.109	0.0	0.1	0.0
9120	63.446	63.288	-0.109	0.0	0.1	0.0
9144	63.446	63.286	-0.109	0.0	0.1	0.0
9168	63.446	63.283	-0.109	0.0	0.1	0.0
9192	63.446	63.281	-0.109	0.0	0.1	0.0
9216	63.446	63.279	-0.109	0.0	0.1	0.0
9240	63.446	63.276	-0.109	0.0	0.1	0.0
9264	63.446	63.274	-0.109	0.0	0.1	0.0
9288	63.446	63.272	-0.109	0.0	0.1	0.0
9312	63.446	63.270	-0.109	0.0	0.1	0.0
9336	63.446	63.269	-0.109	0.0	0.1	0.0
9360	63.446	63.267	-0.109	0.0	0.1	0.0
9384	63.446	63.266	-0.109	0.0	0.1	0.0
9408	63.445	63.265	-0.109	0.0	0.1	0.0
9432	63.445	63.264	-0.109	0.0	0.1	0.0
9456	63.445	63.264	-0.109	0.0	0.1	0.0
9480	63.445	63.263	-0.109	0.0	0.1	0.0
9504	63.445	63.263	-0.109	0.0	0.1	0.0
9528	63.445	63.262	-0.109	0.0	0.1	0.0
9552	63.445	63.262	-0.109	0.0	0.1	0.0
9576	63.445	63.262	-0.109	0.0	0.1	0.0
9600	63.445	63.261	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.445	63.261	-0.109	0.0	0.1	0.0
9648	63.445	63.261	-0.109	0.0	0.1	0.0
9672	63.445	63.261	-0.109	0.0	0.1	0.0
9696	63.445	63.261	-0.109	0.0	0.1	0.0
9720	63.445	63.260	-0.109	0.0	0.1	0.0
9744	63.445	63.260	-0.109	0.0	0.1	0.0
9768	63.445	63.260	-0.109	0.0	0.1	0.0
9792	63.445	63.260	-0.109	0.0	0.1	0.0
9816	63.445	63.260	-0.109	0.0	0.1	0.0
9840	63.445	63.260	-0.109	0.0	0.1	0.0
9864	63.445	63.260	-0.109	0.0	0.1	0.0
9888	63.445	63.260	-0.109	0.0	0.1	0.0
9912	63.445	63.260	-0.109	0.0	0.1	0.0
9936	63.445	63.260	-0.109	0.0	0.1	0.0
9960	63.445	63.260	-0.109	0.0	0.1	0.0
9984	63.445	63.260	-0.109	0.0	0.1	0.0
10008	63.445	63.260	-0.109	0.0	0.1	0.0
10032	63.445	63.260	-0.109	0.0	0.1	0.0
10056	63.445	63.259	-0.109	0.0	0.1	0.0
10080	63.445	63.259	-0.109	0.0	0.1	0.0
10104	63.444	63.259	-0.110	0.0	0.0	0.0
10128	63.444	63.258	-0.110	0.0	0.0	0.0
10152	63.444	63.258	-0.110	0.0	0.0	0.0
10176	63.444	63.257	-0.110	0.0	0.0	0.0
10200	63.444	63.257	-0.110	0.0	0.0	0.0
10224	63.444	63.256	-0.110	0.0	0.0	0.0
10248	63.444	63.256	-0.110	0.0	0.0	0.0
10272	63.444	63.256	-0.110	0.0	0.0	0.0
10296	63.444	63.255	-0.110	0.0	0.0	0.0
10320	63.444	63.255	-0.110	0.0	0.0	0.0
10344	63.444	63.255	-0.110	0.0	0.0	0.0
10368	63.444	63.255	-0.110	0.0	0.0	0.0
10392	63.444	63.255	-0.110	0.0	0.0	0.0
10416	63.444	63.254	-0.110	0.0	0.0	0.0
10440	63.444	63.254	-0.110	0.0	0.0	0.0
10464	63.444	63.254	-0.110	0.0	0.0	0.0
10488	63.444	63.254	-0.110	0.0	0.0	0.0
10512	63.444	63.254	-0.110	0.0	0.0	0.0
10536	63.444	63.254	-0.110	0.0	0.0	0.0
10560	63.444	63.254	-0.110	0.0	0.0	0.0
10584	63.444	63.253	-0.110	0.0	0.0	0.0
10608	63.444	63.253	-0.110	0.0	0.0	0.0
10632	63.444	63.253	-0.110	0.0	0.0	0.0
10656	63.444	63.253	-0.110	0.0	0.0	0.0
10680	63.444	63.253	-0.110	0.0	0.0	0.0
10704	63.444	63.253	-0.110	0.0	0.0	0.0
10728	63.444	63.253	-0.110	0.0	0.0	0.0
10752	63.444	63.253	-0.110	0.0	0.0	0.0
10776	63.444	63.253	-0.110	0.0	0.0	0.0
10800	63.444	63.253	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.253	-0.110	0.0	0.0	0.0
10848	63.444	63.253	-0.110	0.0	0.0	0.0
10872	63.444	63.252	-0.110	0.0	0.0	0.0
10896	63.444	63.252	-0.110	0.0	0.0	0.0
10920	63.444	63.252	-0.110	0.0	0.0	0.0
10944	63.444	63.252	-0.110	0.0	0.0	0.0
10968	63.444	63.252	-0.110	0.0	0.0	0.0
10992	63.444	63.252	-0.110	0.0	0.0	0.0
11016	63.444	63.252	-0.110	0.0	0.0	0.0
11040	63.444	63.252	-0.110	0.0	0.0	0.0
11064	63.444	63.252	-0.110	0.0	0.0	0.0
11088	63.444	63.252	-0.110	0.0	0.0	0.0
11112	63.444	63.252	-0.110	0.0	0.0	0.0
11136	63.444	63.252	-0.110	0.0	0.0	0.0
11160	63.444	63.252	-0.110	0.0	0.0	0.0
11184	63.444	63.252	-0.110	0.0	0.0	0.0
11208	63.444	63.252	-0.110	0.0	0.0	0.0
11232	63.444	63.252	-0.110	0.0	0.0	0.0
11256	63.444	63.252	-0.110	0.0	0.0	0.0
11280	63.444	63.252	-0.110	0.0	0.0	0.0
11304	63.444	63.252	-0.110	0.0	0.0	0.0
11328	63.444	63.252	-0.110	0.0	0.0	0.0
11352	63.444	63.252	-0.110	0.0	0.0	0.0
11376	63.444	63.252	-0.110	0.0	0.0	0.0
11400	63.444	63.252	-0.110	0.0	0.0	0.0
11424	63.444	63.252	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.251	-0.110	0.0	0.0	0.0
12408	63.444	63.251	-0.110	0.0	0.0	0.0
12432	63.444	63.251	-0.110	0.0	0.0	0.0
12456	63.444	63.251	-0.110	0.0	0.0	0.0
12480	63.444	63.251	-0.110	0.0	0.0	0.0
12504	63.444	63.251	-0.110	0.0	0.0	0.0
12528	63.444	63.251	-0.110	0.0	0.0	0.0
12552	63.444	63.251	-0.110	0.0	0.0	0.0
12576	63.444	63.251	-0.110	0.0	0.0	0.0
12600	63.444	63.251	-0.110	0.0	0.0	0.0
12624	63.444	63.251	-0.110	0.0	0.0	0.0
12648	63.444	63.251	-0.110	0.0	0.0	0.0
12672	63.444	63.251	-0.110	0.0	0.0	0.0
12696	63.444	63.251	-0.110	0.0	0.0	0.0
12720	63.444	63.251	-0.110	0.0	0.0	0.0
12744	63.444	63.251	-0.110	0.0	0.0	0.0
12768	63.444	63.251	-0.110	0.0	0.0	0.0
12792	63.444	63.251	-0.110	0.0	0.0	0.0
12816	63.444	63.251	-0.110	0.0	0.0	0.0
12840	63.444	63.251	-0.110	0.0	0.0	0.0
12864	63.444	63.251	-0.110	0.0	0.0	0.0
12888	63.444	63.251	-0.110	0.0	0.0	0.0
12912	63.444	63.251	-0.110	0.0	0.0	0.0
12936	63.444	63.251	-0.110	0.0	0.0	0.0
12960	63.444	63.251	-0.110	0.0	0.0	0.0
12984	63.444	63.251	-0.110	0.0	0.0	0.0
13008	63.444	63.251	-0.110	0.0	0.0	0.0
13032	63.444	63.251	-0.110	0.0	0.0	0.0
13056	63.444	63.251	-0.110	0.0	0.0	0.0
13080	63.444	63.251	-0.110	0.0	0.0	0.0
13104	63.444	63.251	-0.110	0.0	0.0	0.0
13128	63.444	63.251	-0.110	0.0	0.0	0.0
13152	63.444	63.251	-0.110	0.0	0.0	0.0
13176	63.444	63.251	-0.110	0.0	0.0	0.0
13200	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.251	-0.110	0.0	0.0	0.0
13248	63.444	63.251	-0.110	0.0	0.0	0.0
13272	63.444	63.251	-0.110	0.0	0.0	0.0
13296	63.444	63.251	-0.110	0.0	0.0	0.0
13320	63.444	63.251	-0.110	0.0	0.0	0.0
13344	63.444	63.251	-0.110	0.0	0.0	0.0
13368	63.444	63.251	-0.110	0.0	0.0	0.0
13392	63.444	63.251	-0.110	0.0	0.0	0.0
13416	63.444	63.251	-0.110	0.0	0.0	0.0
13440	63.444	63.251	-0.110	0.0	0.0	0.0
13464	63.444	63.251	-0.110	0.0	0.0	0.0
13488	63.444	63.251	-0.110	0.0	0.0	0.0
13512	63.444	63.251	-0.110	0.0	0.0	0.0
13536	63.444	63.251	-0.110	0.0	0.0	0.0
13560	63.444	63.251	-0.110	0.0	0.0	0.0
13584	63.444	63.251	-0.110	0.0	0.0	0.0
13608	63.444	63.251	-0.110	0.0	0.0	0.0
13632	63.444	63.251	-0.110	0.0	0.0	0.0
13656	63.444	63.251	-0.110	0.0	0.0	0.0
13680	63.444	63.251	-0.110	0.0	0.0	0.0
13704	63.444	63.251	-0.110	0.0	0.0	0.0
13728	63.444	63.251	-0.110	0.0	0.0	0.0
13752	63.444	63.251	-0.110	0.0	0.0	0.0
13776	63.444	63.251	-0.110	0.0	0.0	0.0
13800	63.444	63.251	-0.110	0.0	0.0	0.0
13824	63.444	63.251	-0.110	0.0	0.0	0.0
13848	63.444	63.251	-0.110	0.0	0.0	0.0
13872	63.444	63.251	-0.110	0.0	0.0	0.0
13896	63.444	63.251	-0.110	0.0	0.0	0.0
13920	63.444	63.251	-0.110	0.0	0.0	0.0
13944	63.444	63.251	-0.110	0.0	0.0	0.0
13968	63.444	63.251	-0.110	0.0	0.0	0.0
13992	63.444	63.251	-0.110	0.0	0.0	0.0
14016	63.444	63.251	-0.110	0.0	0.0	0.0
14040	63.444	63.251	-0.110	0.0	0.0	0.0
14064	63.444	63.251	-0.110	0.0	0.0	0.0
14088	63.444	63.251	-0.110	0.0	0.0	0.0
14112	63.444	63.251	-0.110	0.0	0.0	0.0
14136	63.444	63.251	-0.110	0.0	0.0	0.0
14160	63.444	63.251	-0.110	0.0	0.0	0.0
14184	63.444	63.251	-0.110	0.0	0.0	0.0
14208	63.444	63.251	-0.110	0.0	0.0	0.0
14232	63.444	63.251	-0.110	0.0	0.0	0.0
14256	63.444	63.251	-0.110	0.0	0.0	0.0
14280	63.444	63.251	-0.110	0.0	0.0	0.0
14304	63.444	63.251	-0.110	0.0	0.0	0.0
14328	63.444	63.251	-0.110	0.0	0.0	0.0
14352	63.444	63.251	-0.110	0.0	0.0	0.0
14376	63.444	63.251	-0.110	0.0	0.0	0.0
14400	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.444	63.251	-0.110	0.0	0.0	0.0
14448	63.444	63.251	-0.110	0.0	0.0	0.0
14472	63.444	63.251	-0.110	0.0	0.0	0.0
14496	63.444	63.250	-0.110	0.0	0.0	0.0
14520	63.444	63.250	-0.110	0.0	0.0	0.0
14544	63.444	63.250	-0.110	0.0	0.0	0.0
14568	63.444	63.250	-0.110	0.0	0.0	0.0
14592	63.444	63.250	-0.110	0.0	0.0	0.0
14616	63.444	63.250	-0.110	0.0	0.0	0.0
14640	63.444	63.250	-0.110	0.0	0.0	0.0
14664	63.444	63.250	-0.110	0.0	0.0	0.0
14688	63.444	63.250	-0.110	0.0	0.0	0.0
14712	63.444	63.250	-0.110	0.0	0.0	0.0
14736	63.444	63.250	-0.110	0.0	0.0	0.0
14760	63.444	63.250	-0.110	0.0	0.0	0.0
14784	63.444	63.250	-0.110	0.0	0.0	0.0
14808	63.444	63.250	-0.110	0.0	0.0	0.0
14832	63.444	63.250	-0.110	0.0	0.0	0.0
14856	63.444	63.250	-0.110	0.0	0.0	0.0
14880	63.444	63.250	-0.110	0.0	0.0	0.0
14904	63.444	63.250	-0.110	0.0	0.0	0.0
14928	63.444	63.250	-0.110	0.0	0.0	0.0
14952	63.444	63.250	-0.110	0.0	0.0	0.0
14976	63.444	63.250	-0.110	0.0	0.0	0.0
15000	63.444	63.250	-0.110	0.0	0.0	0.0
15024	63.444	63.250	-0.110	0.0	0.0	0.0
15048	63.444	63.250	-0.110	0.0	0.0	0.0
15072	63.444	63.250	-0.110	0.0	0.0	0.0
15096	63.444	63.250	-0.110	0.0	0.0	0.0
15120	63.444	63.250	-0.110	0.0	0.0	0.0
15144	63.444	63.250	-0.110	0.0	0.0	0.0
15168	63.444	63.250	-0.110	0.0	0.0	0.0
15192	63.444	63.250	-0.110	0.0	0.0	0.0
15216	63.444	63.250	-0.110	0.0	0.0	0.0
15240	63.444	63.250	-0.110	0.0	0.0	0.0
15264	63.444	63.250	-0.110	0.0	0.0	0.0
15288	63.444	63.250	-0.110	0.0	0.0	0.0
15312	63.444	63.250	-0.110	0.0	0.0	0.0
15336	63.444	63.250	-0.110	0.0	0.0	0.0
15360	63.444	63.250	-0.110	0.0	0.0	0.0
15384	63.444	63.250	-0.110	0.0	0.0	0.0
15408	63.444	63.250	-0.110	0.0	0.0	0.0
15432	63.444	63.250	-0.110	0.0	0.0	0.0
15456	63.444	63.250	-0.110	0.0	0.0	0.0
15480	63.444	63.250	-0.110	0.0	0.0	0.0
15504	63.444	63.250	-0.110	0.0	0.0	0.0
15528	63.444	63.250	-0.110	0.0	0.0	0.0
15552	63.444	63.250	-0.110	0.0	0.0	0.0
15576	63.444	63.250	-0.110	0.0	0.0	0.0
15600	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.444	63.250	-0.110	0.0	0.0	0.0
15648	63.444	63.250	-0.110	0.0	0.0	0.0
15672	63.444	63.250	-0.110	0.0	0.0	0.0
15696	63.444	63.250	-0.110	0.0	0.0	0.0
15720	63.444	63.250	-0.110	0.0	0.0	0.0
15744	63.444	63.250	-0.110	0.0	0.0	0.0
15768	63.444	63.250	-0.110	0.0	0.0	0.0
15792	63.444	63.250	-0.110	0.0	0.0	0.0
15816	63.444	63.250	-0.110	0.0	0.0	0.0
15840	63.444	63.250	-0.110	0.0	0.0	0.0
15864	63.444	63.250	-0.110	0.0	0.0	0.0
15888	63.444	63.250	-0.110	0.0	0.0	0.0
15912	63.444	63.250	-0.110	0.0	0.0	0.0
15936	63.444	63.250	-0.110	0.0	0.0	0.0
15960	63.444	63.250	-0.110	0.0	0.0	0.0
15984	63.444	63.250	-0.110	0.0	0.0	0.0
16008	63.444	63.250	-0.110	0.0	0.0	0.0
16032	63.444	63.250	-0.110	0.0	0.0	0.0
16056	63.444	63.250	-0.110	0.0	0.0	0.0
16080	63.444	63.250	-0.110	0.0	0.0	0.0
16104	63.444	63.250	-0.110	0.0	0.0	0.0
16128	63.444	63.250	-0.110	0.0	0.0	0.0
16152	63.444	63.250	-0.110	0.0	0.0	0.0
16176	63.444	63.250	-0.110	0.0	0.0	0.0
16200	63.444	63.250	-0.110	0.0	0.0	0.0
16224	63.444	63.250	-0.110	0.0	0.0	0.0
16248	63.444	63.250	-0.110	0.0	0.0	0.0
16272	63.444	63.250	-0.110	0.0	0.0	0.0
16296	63.444	63.250	-0.110	0.0	0.0	0.0
16320	63.444	63.250	-0.110	0.0	0.0	0.0
16344	63.444	63.250	-0.110	0.0	0.0	0.0
16368	63.444	63.250	-0.110	0.0	0.0	0.0
16392	63.444	63.250	-0.110	0.0	0.0	0.0
16416	63.444	63.250	-0.110	0.0	0.0	0.0
16440	63.444	63.250	-0.110	0.0	0.0	0.0
16464	63.444	63.250	-0.110	0.0	0.0	0.0
16488	63.444	63.250	-0.110	0.0	0.0	0.0
16512	63.444	63.250	-0.110	0.0	0.0	0.0
16536	63.444	63.250	-0.110	0.0	0.0	0.0
16560	63.444	63.250	-0.110	0.0	0.0	0.0
16584	63.444	63.250	-0.110	0.0	0.0	0.0
16608	63.444	63.250	-0.110	0.0	0.0	0.0
16632	63.444	63.250	-0.110	0.0	0.0	0.0
16656	63.444	63.250	-0.110	0.0	0.0	0.0
16680	63.444	63.250	-0.110	0.0	0.0	0.0
16704	63.444	63.250	-0.110	0.0	0.0	0.0
16728	63.444	63.250	-0.110	0.0	0.0	0.0
16752	63.444	63.250	-0.110	0.0	0.0	0.0
16776	63.444	63.250	-0.110	0.0	0.0	0.0
16800	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.444	63.250	-0.110	0.0	0.0	0.0
16848	63.444	63.250	-0.110	0.0	0.0	0.0
16872	63.444	63.250	-0.110	0.0	0.0	0.0
16896	63.444	63.250	-0.110	0.0	0.0	0.0
16920	63.444	63.250	-0.110	0.0	0.0	0.0
16944	63.444	63.250	-0.110	0.0	0.0	0.0
16968	63.444	63.250	-0.110	0.0	0.0	0.0
16992	63.444	63.250	-0.110	0.0	0.0	0.0
17016	63.444	63.250	-0.110	0.0	0.0	0.0
17040	63.444	63.250	-0.110	0.0	0.0	0.0
17064	63.444	63.250	-0.110	0.0	0.0	0.0
17088	63.444	63.250	-0.110	0.0	0.0	0.0
17112	63.444	63.250	-0.110	0.0	0.0	0.0
17136	63.444	63.250	-0.110	0.0	0.0	0.0
17160	63.444	63.250	-0.110	0.0	0.0	0.0
17184	63.444	63.250	-0.110	0.0	0.0	0.0
17208	63.444	63.250	-0.110	0.0	0.0	0.0
17232	63.444	63.250	-0.110	0.0	0.0	0.0
17256	63.444	63.250	-0.110	0.0	0.0	0.0
17280	63.444	63.250	-0.110	0.0	0.0	0.0
17304	63.444	63.250	-0.110	0.0	0.0	0.0
17328	63.444	63.250	-0.110	0.0	0.0	0.0
17352	63.444	63.250	-0.110	0.0	0.0	0.0
17376	63.444	63.250	-0.110	0.0	0.0	0.0
17400	63.444	63.250	-0.110	0.0	0.0	0.0
17424	63.444	63.250	-0.110	0.0	0.0	0.0
17448	63.444	63.250	-0.110	0.0	0.0	0.0
17472	63.444	63.250	-0.110	0.0	0.0	0.0
17496	63.444	63.250	-0.110	0.0	0.0	0.0
17520	63.444	63.250	-0.110	0.0	0.0	0.0
17544	63.444	63.250	-0.110	0.0	0.0	0.0
17568	63.444	63.250	-0.110	0.0	0.0	0.0
17592	63.444	63.250	-0.110	0.0	0.0	0.0
17616	63.444	63.250	-0.110	0.0	0.0	0.0
17640	63.444	63.250	-0.110	0.0	0.0	0.0
17664	63.444	63.250	-0.110	0.0	0.0	0.0
17688	63.444	63.250	-0.110	0.0	0.0	0.0
17712	63.444	63.250	-0.110	0.0	0.0	0.0
17736	63.444	63.250	-0.110	0.0	0.0	0.0
17760	63.444	63.250	-0.110	0.0	0.0	0.0
17784	63.444	63.250	-0.110	0.0	0.0	0.0
17808	63.444	63.250	-0.110	0.0	0.0	0.0
17832	63.444	63.250	-0.110	0.0	0.0	0.0
17856	63.444	63.250	-0.110	0.0	0.0	0.0
17880	63.444	63.250	-0.110	0.0	0.0	0.0
17904	63.444	63.250	-0.110	0.0	0.0	0.0
17928	63.444	63.250	-0.110	0.0	0.0	0.0
17952	63.444	63.250	-0.110	0.0	0.0	0.0
17976	63.444	63.250	-0.110	0.0	0.0	0.0
18000	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.444	63.250	-0.110	0.0	0.0	0.0
18048	63.444	63.250	-0.110	0.0	0.0	0.0
18072	63.444	63.250	-0.110	0.0	0.0	0.0
18096	63.444	63.250	-0.110	0.0	0.0	0.0
18120	63.444	63.250	-0.110	0.0	0.0	0.0
18144	63.444	63.250	-0.110	0.0	0.0	0.0
18168	63.444	63.250	-0.110	0.0	0.0	0.0
18192	63.444	63.250	-0.110	0.0	0.0	0.0
18216	63.444	63.250	-0.110	0.0	0.0	0.0
18240	63.444	63.250	-0.110	0.0	0.0	0.0
18264	63.444	63.250	-0.110	0.0	0.0	0.0
18288	63.444	63.250	-0.110	0.0	0.0	0.0
18312	63.444	63.250	-0.110	0.0	0.0	0.0
18336	63.444	63.250	-0.110	0.0	0.0	0.0
18360	63.444	63.250	-0.110	0.0	0.0	0.0
18384	63.444	63.250	-0.110	0.0	0.0	0.0
18408	63.444	63.250	-0.110	0.0	0.0	0.0
18432	63.444	63.250	-0.110	0.0	0.0	0.0
18456	63.444	63.250	-0.110	0.0	0.0	0.0
18480	63.444	63.250	-0.110	0.0	0.0	0.0
18504	63.444	63.250	-0.110	0.0	0.0	0.0
18528	63.444	63.250	-0.110	0.0	0.0	0.0
18552	63.444	63.250	-0.110	0.0	0.0	0.0
18576	63.444	63.250	-0.110	0.0	0.0	0.0
18600	63.444	63.250	-0.110	0.0	0.0	0.0
18624	63.444	63.250	-0.110	0.0	0.0	0.0
18648	63.444	63.250	-0.110	0.0	0.0	0.0
18672	63.444	63.250	-0.110	0.0	0.0	0.0
18696	63.444	63.250	-0.110	0.0	0.0	0.0
18720	63.444	63.250	-0.110	0.0	0.0	0.0
18744	63.444	63.250	-0.110	0.0	0.0	0.0
18768	63.444	63.250	-0.110	0.0	0.0	0.0
18792	63.444	63.250	-0.110	0.0	0.0	0.0
18816	63.444	63.250	-0.110	0.0	0.0	0.0
18840	63.444	63.250	-0.110	0.0	0.0	0.0
18864	63.444	63.250	-0.110	0.0	0.0	0.0
18888	63.444	63.250	-0.110	0.0	0.0	0.0
18912	63.444	63.250	-0.110	0.0	0.0	0.0
18936	63.444	63.250	-0.110	0.0	0.0	0.0
18960	63.444	63.250	-0.110	0.0	0.0	0.0
18984	63.444	63.250	-0.110	0.0	0.0	0.0
19008	63.444	63.250	-0.110	0.0	0.0	0.0
19032	63.444	63.250	-0.110	0.0	0.0	0.0
19056	63.444	63.250	-0.110	0.0	0.0	0.0
19080	63.444	63.250	-0.110	0.0	0.0	0.0
19104	63.444	63.250	-0.110	0.0	0.0	0.0
19128	63.444	63.250	-0.110	0.0	0.0	0.0
19152	63.444	63.250	-0.110	0.0	0.0	0.0
19176	63.444	63.250	-0.110	0.0	0.0	0.0
19200	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.444	63.250	-0.110	0.0	0.0	0.0
19248	63.444	63.250	-0.110	0.0	0.0	0.0
19272	63.444	63.250	-0.110	0.0	0.0	0.0
19296	63.444	63.250	-0.110	0.0	0.0	0.0
19320	63.444	63.250	-0.110	0.0	0.0	0.0
19344	63.444	63.250	-0.110	0.0	0.0	0.0
19368	63.444	63.250	-0.110	0.0	0.0	0.0
19392	63.444	63.250	-0.110	0.0	0.0	0.0
19416	63.444	63.250	-0.110	0.0	0.0	0.0
19440	63.444	63.250	-0.110	0.0	0.0	0.0
19464	63.444	63.250	-0.110	0.0	0.0	0.0
19488	63.444	63.250	-0.110	0.0	0.0	0.0
19512	63.444	63.250	-0.110	0.0	0.0	0.0
19536	63.444	63.250	-0.110	0.0	0.0	0.0
19560	63.444	63.250	-0.110	0.0	0.0	0.0
19584	63.444	63.250	-0.110	0.0	0.0	0.0
19608	63.444	63.250	-0.110	0.0	0.0	0.0
19632	63.444	63.250	-0.110	0.0	0.0	0.0
19656	63.444	63.250	-0.110	0.0	0.0	0.0
19680	63.444	63.250	-0.110	0.0	0.0	0.0
19704	63.444	63.250	-0.110	0.0	0.0	0.0
19728	63.444	63.250	-0.110	0.0	0.0	0.0
19752	63.444	63.250	-0.110	0.0	0.0	0.0
19776	63.444	63.250	-0.110	0.0	0.0	0.0
19800	63.444	63.250	-0.110	0.0	0.0	0.0
19824	63.444	63.250	-0.110	0.0	0.0	0.0
19848	63.444	63.250	-0.110	0.0	0.0	0.0
19872	63.444	63.250	-0.110	0.0	0.0	0.0
19896	63.444	63.250	-0.110	0.0	0.0	0.0
19920	63.444	63.250	-0.110	0.0	0.0	0.0
19944	63.444	63.250	-0.110	0.0	0.0	0.0
19968	63.444	63.250	-0.110	0.0	0.0	0.0
19992	63.444	63.250	-0.110	0.0	0.0	0.0
20016	63.444	63.250	-0.110	0.0	0.0	0.0
20040	63.444	63.250	-0.110	0.0	0.0	0.0
20064	63.444	63.250	-0.110	0.0	0.0	0.0
20088	63.444	63.250	-0.110	0.0	0.0	0.0
20112	63.444	63.250	-0.110	0.0	0.0	0.0
20136	63.444	63.250	-0.110	0.0	0.0	0.0
20160	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.251	63.100	-0.109	0.0	0.0	0.0
48	63.251	63.100	-0.109	0.0	0.0	0.0
72	63.252	63.100	-0.108	0.0	0.0	0.0
96	63.253	63.101	-0.107	0.0	0.0	0.0
120	63.254	63.101	-0.106	0.0	0.0	0.0
144	63.254	63.102	-0.106	0.0	0.0	0.0
168	63.255	63.102	-0.105	0.0	0.0	0.0
192	63.255	63.103	-0.105	0.0	0.0	0.0
216	63.256	63.104	-0.104	0.0	0.0	0.0
240	63.256	63.105	-0.104	0.0	0.0	0.0
264	63.257	63.106	-0.103	0.0	0.0	0.0
288	63.257	63.106	-0.103	0.0	0.0	0.0
312	63.258	63.107	-0.102	0.0	0.0	0.0
336	63.258	63.108	-0.102	0.0	0.0	0.0
360	63.258	63.108	-0.102	0.0	0.1	0.0
384	63.258	63.109	-0.102	0.0	0.1	0.0
408	63.259	63.110	-0.101	0.0	0.1	0.0
432	63.259	63.111	-0.101	0.0	0.1	0.0
456	63.259	63.111	-0.101	0.0	0.1	0.0
480	63.259	63.112	-0.101	0.0	0.1	0.0
504	63.259	63.112	-0.101	0.0	0.1	0.0
528	63.259	63.112	-0.101	0.0	0.1	0.0
552	63.259	63.113	-0.101	0.0	0.1	0.0
576	63.259	63.113	-0.101	0.0	0.1	0.0
600	63.259	63.113	-0.101	0.0	0.1	0.0
624	63.259	63.113	-0.101	0.0	0.1	0.0
648	63.260	63.114	-0.100	0.0	0.1	0.0
672	63.260	63.114	-0.100	0.0	0.1	0.0
696	63.260	63.114	-0.100	0.0	0.1	0.0
720	63.260	63.114	-0.100	0.0	0.1	0.0
744	63.260	63.114	-0.100	0.0	0.1	0.0
768	63.260	63.114	-0.100	0.0	0.1	0.0
792	63.260	63.114	-0.100	0.0	0.1	0.0
816	63.260	63.114	-0.100	0.0	0.1	0.0
840	63.260	63.115	-0.100	0.0	0.1	0.0
864	63.260	63.115	-0.100	0.0	0.1	0.0
888	63.260	63.115	-0.100	0.0	0.1	0.0
912	63.260	63.115	-0.100	0.0	0.1	0.0
936	63.260	63.115	-0.100	0.0	0.1	0.0
960	63.260	63.115	-0.100	0.0	0.1	0.0
984	63.260	63.115	-0.100	0.0	0.1	0.0
1008	63.260	63.115	-0.100	0.0	0.1	0.0
1032	63.260	63.115	-0.100	0.0	0.1	0.0
1056	63.260	63.115	-0.100	0.0	0.1	0.0
1080	63.260	63.115	-0.100	0.0	0.1	0.0
1104	63.260	63.115	-0.100	0.0	0.1	0.0
1128	63.260	63.115	-0.100	0.0	0.1	0.0
1152	63.260	63.115	-0.100	0.0	0.1	0.0
1176	63.260	63.115	-0.100	0.0	0.1	0.0
1200	63.260	63.115	-0.100	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.260	63.115	-0.100	0.0	0.1	0.0
1248	63.260	63.116	-0.100	0.0	0.1	0.0
1272	63.260	63.116	-0.100	0.0	0.1	0.0
1296	63.260	63.116	-0.100	0.0	0.1	0.0
1320	63.260	63.116	-0.100	0.0	0.1	0.0
1344	63.260	63.116	-0.100	0.0	0.1	0.0
1368	63.260	63.116	-0.100	0.0	0.1	0.0
1392	63.260	63.116	-0.100	0.0	0.1	0.0
1416	63.260	63.116	-0.100	0.0	0.1	0.0
1440	63.260	63.116	-0.100	0.0	0.1	0.0
1464	63.260	63.116	-0.100	0.0	0.1	0.0
1488	63.260	63.116	-0.100	0.0	0.1	0.0
1512	63.260	63.116	-0.100	0.0	0.1	0.0
1536	63.260	63.116	-0.100	0.0	0.1	0.0
1560	63.260	63.116	-0.100	0.0	0.1	0.0
1584	63.260	63.116	-0.100	0.0	0.1	0.0
1608	63.260	63.116	-0.100	0.0	0.1	0.0
1632	63.261	63.117	-0.099	0.0	0.1	0.0
1656	63.261	63.117	-0.099	0.0	0.1	0.0
1680	63.261	63.117	-0.099	0.0	0.1	0.0
1704	63.261	63.117	-0.099	0.0	0.1	0.0
1728	63.261	63.117	-0.099	0.0	0.1	0.0
1752	63.261	63.117	-0.099	0.0	0.1	0.0
1776	63.261	63.117	-0.099	0.0	0.1	0.0
1800	63.261	63.117	-0.099	0.0	0.1	0.0
1824	63.261	63.117	-0.099	0.0	0.1	0.0
1848	63.261	63.117	-0.099	0.0	0.1	0.0
1872	63.261	63.117	-0.099	0.0	0.1	0.0
1896	63.261	63.118	-0.099	0.0	0.1	0.0
1920	63.261	63.118	-0.099	0.0	0.1	0.0
1944	63.261	63.118	-0.099	0.0	0.1	0.0
1968	63.261	63.118	-0.099	0.0	0.1	0.0
1992	63.261	63.118	-0.099	0.0	0.1	0.0
2016	63.261	63.118	-0.099	0.0	0.1	0.0
2040	63.261	63.118	-0.099	0.0	0.1	0.0
2064	63.261	63.118	-0.099	0.0	0.1	0.0
2088	63.261	63.118	-0.099	0.0	0.1	0.0
2112	63.261	63.118	-0.099	0.0	0.1	0.0
2136	63.261	63.119	-0.099	0.0	0.1	0.0
2160	63.261	63.119	-0.099	0.0	0.1	0.0
2184	63.262	63.119	-0.098	0.0	0.1	0.0
2208	63.262	63.119	-0.098	0.0	0.1	0.0
2232	63.262	63.119	-0.098	0.0	0.1	0.0
2256	63.262	63.119	-0.098	0.0	0.1	0.0
2280	63.262	63.119	-0.098	0.0	0.1	0.0
2304	63.262	63.119	-0.098	0.0	0.1	0.0
2328	63.262	63.120	-0.098	0.0	0.1	0.0
2352	63.262	63.120	-0.098	0.0	0.1	0.0
2376	63.262	63.120	-0.098	0.0	0.1	0.0
2400	63.262	63.120	-0.098	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.262	63.120	-0.098	0.0	0.1	0.0
2448	63.262	63.120	-0.098	0.0	0.1	0.0
2472	63.262	63.120	-0.098	0.0	0.1	0.0
2496	63.262	63.121	-0.098	0.0	0.1	0.0
2520	63.262	63.121	-0.098	0.0	0.1	0.0
2544	63.262	63.121	-0.098	0.0	0.1	0.0
2568	63.262	63.121	-0.098	0.0	0.1	0.0
2592	63.263	63.121	-0.097	0.0	0.1	0.0
2616	63.263	63.121	-0.097	0.0	0.1	0.0
2640	63.263	63.121	-0.097	0.0	0.1	0.0
2664	63.263	63.122	-0.097	0.0	0.1	0.0
2688	63.263	63.122	-0.097	0.0	0.1	0.0
2712	63.263	63.122	-0.097	0.0	0.1	0.0
2736	63.263	63.122	-0.097	0.0	0.1	0.0
2760	63.263	63.122	-0.097	0.0	0.1	0.0
2784	63.263	63.123	-0.097	0.0	0.1	0.0
2808	63.263	63.123	-0.097	0.0	0.1	0.0
2832	63.263	63.123	-0.097	0.0	0.1	0.0
2856	63.263	63.123	-0.097	0.0	0.1	0.0
2880	63.264	63.123	-0.096	0.0	0.1	0.0
2904	63.264	63.124	-0.096	0.0	0.1	0.0
2928	63.264	63.124	-0.096	0.0	0.1	0.0
2952	63.264	63.124	-0.096	0.0	0.1	0.0
2976	63.264	63.124	-0.096	0.0	0.1	0.0
3000	63.264	63.125	-0.096	0.0	0.1	0.0
3024	63.264	63.125	-0.096	0.0	0.1	0.0
3048	63.264	63.125	-0.096	0.0	0.1	0.0
3072	63.264	63.126	-0.096	0.0	0.1	0.0
3096	63.264	63.126	-0.096	0.0	0.1	0.0
3120	63.265	63.126	-0.095	0.0	0.1	0.0
3144	63.265	63.127	-0.095	0.0	0.1	0.0
3168	63.265	63.127	-0.095	0.0	0.1	0.0
3192	63.265	63.127	-0.095	0.0	0.1	0.0
3216	63.265	63.128	-0.095	0.0	0.2	0.0
3240	63.265	63.128	-0.095	0.0	0.2	0.0
3264	63.265	63.129	-0.095	0.0	0.2	0.0
3288	63.265	63.129	-0.095	0.0	0.2	0.0
3312	63.266	63.130	-0.094	0.0	0.2	0.0
3336	63.266	63.130	-0.094	0.0	0.2	0.0
3360	63.266	63.130	-0.094	0.0	0.2	0.0
3384	63.266	63.131	-0.094	0.0	0.2	0.0
3408	63.266	63.132	-0.094	0.0	0.2	0.0
3432	63.266	63.132	-0.094	0.0	0.2	0.0
3456	63.267	63.133	-0.093	0.0	0.2	0.0
3480	63.267	63.133	-0.093	0.0	0.2	0.0
3504	63.267	63.134	-0.093	0.0	0.2	0.0
3528	63.267	63.135	-0.093	0.0	0.2	0.0
3552	63.267	63.135	-0.093	0.0	0.2	0.0
3576	63.268	63.136	-0.092	0.0	0.2	0.0
3600	63.268	63.137	-0.092	0.0	0.2	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.268	63.137	-0.092	0.0	0.2	0.0
3648	63.268	63.138	-0.092	0.0	0.2	0.0
3672	63.269	63.139	-0.091	0.0	0.2	0.1
3696	63.269	63.140	-0.091	0.0	0.2	0.1
3720	63.269	63.141	-0.091	0.0	0.2	0.1
3744	63.270	63.141	-0.090	0.0	0.2	0.1
3768	63.270	63.142	-0.090	0.0	0.2	0.1
3792	63.270	63.144	-0.090	0.0	0.2	0.1
3816	63.271	63.145	-0.089	0.0	0.2	0.1
3840	63.271	63.146	-0.089	0.0	0.2	0.1
3864	63.271	63.147	-0.089	0.0	0.2	0.1
3888	63.272	63.148	-0.088	0.0	0.2	0.1
3912	63.272	63.149	-0.088	0.0	0.2	0.1
3936	63.272	63.151	-0.088	0.0	0.2	0.1
3960	63.273	63.152	-0.087	0.0	0.2	0.1
3984	63.273	63.155	-0.087	0.0	0.2	0.1
4008	63.274	63.159	-0.086	0.0	0.2	0.1
4032	63.274	63.163	-0.086	0.0	0.3	0.1
4056	63.275	63.168	-0.085	0.0	0.3	0.1
4080	63.275	63.173	-0.085	0.0	0.3	0.1
4104	63.276	63.179	-0.084	0.0	0.3	0.1
4128	63.276	63.186	-0.084	0.0	0.3	0.1
4152	63.277	63.193	-0.083	0.0	0.3	0.1
4176	63.278	63.200	-0.082	0.0	0.3	0.1
4200	63.278	63.208	-0.082	0.0	0.3	0.1
4224	63.279	63.217	-0.081	0.0	0.3	0.1
4248	63.280	63.225	-0.080	0.0	0.3	0.1
4272	63.281	63.235	-0.079	0.0	0.3	0.1
4296	63.282	63.244	-0.078	0.0	0.3	0.1
4320	63.284	63.250	-0.076	0.0	0.2	0.1
4344	63.285	63.251	-0.075	0.0	0.2	0.1
4368	63.287	63.249	-0.073	0.0	0.2	0.1
4392	63.290	63.252	-0.070	0.0	0.2	0.1
4416	63.292	63.249	-0.068	0.0	0.2	0.1
4440	63.295	63.250	-0.065	0.0	0.2	0.1
4464	63.297	63.250	-0.063	0.0	0.2	0.1
4488	63.301	63.250	-0.059	0.0	0.2	0.1
4512	63.303	63.251	-0.057	0.0	0.2	0.1
4536	63.306	63.251	-0.054	0.0	0.2	0.1
4560	63.310	63.251	-0.050	0.0	0.2	0.1
4584	63.313	63.251	-0.047	0.0	0.2	0.1
4608	63.317	63.251	-0.043	0.0	0.2	0.1
4632	63.320	63.252	-0.040	0.0	0.2	0.1
4656	63.324	63.253	-0.036	0.0	0.2	0.1
4680	63.328	63.255	-0.032	0.0	0.3	0.1
4704	63.331	63.258	-0.029	0.0	0.3	0.1
4728	63.335	63.261	-0.025	0.0	0.3	0.1
4752	63.339	63.265	-0.021	0.0	0.3	0.1
4776	63.344	63.268	-0.016	0.0	0.3	0.1
4800	63.348	63.272	-0.012	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.353	63.276	-0.007	0.0	0.3	0.1
4848	63.357	63.280	-0.003	0.0	0.3	0.1
4872	63.363	63.279	0.003	0.0	0.2	0.1
4896	63.371	63.263	0.011	0.0	0.2	0.0
4920	63.378	63.256	0.018	0.0	0.2	0.1
4944	63.384	63.252	0.024	0.0	0.2	0.1
4968	63.390	63.253	0.030	0.0	0.2	0.1
4992	63.396	63.258	0.036	0.0	0.3	0.1
5016	63.402	63.266	0.042	0.0	0.3	0.1
5040	63.407	63.277	0.047	0.0	0.3	0.1
5064	63.412	63.291	0.052	0.0	0.3	0.1
5088	63.416	63.307	0.056	0.0	0.3	0.1
5112	63.420	63.326	0.060	0.0	0.3	0.1
5136	63.425	63.347	0.065	0.0	0.3	0.1
5160	63.429	63.361	0.069	0.0	0.3	0.1
5184	63.433	63.370	0.073	0.0	0.3	0.1
5208	63.438	63.376	0.078	0.0	0.3	0.1
5232	63.442	63.382	0.082	0.0	0.3	0.1
5256	63.447	63.387	0.087	0.0	0.3	0.1
5280	63.451	63.392	0.091	0.0	0.3	0.1
5304	63.455	63.396	0.095	0.0	0.3	0.1
5328	63.459	63.400	0.099	0.0	0.2	0.1
5352	63.463	63.404	0.103	0.0	0.2	0.1
5376	63.466	63.408	0.106	0.0	0.1	0.1
5400	63.469	63.411	0.109	0.0	0.1	0.1
5424	63.473	63.415	0.113	0.0	0.1	0.1
5448	63.476	63.418	0.116	0.0	0.1	0.1
5472	63.479	63.421	0.119	0.0	0.0	0.1
5496	63.481	63.424	0.121	0.0	0.0	0.1
5520	63.484	63.426	0.124	0.0	0.0	0.1
5544	63.486	63.429	0.126	0.0	0.0	0.1
5568	63.489	63.431	0.129	0.0	0.0	0.1
5592	63.491	63.434	0.131	0.0	0.0	0.1
5616	63.493	63.436	0.133	0.0	0.0	0.1
5640	63.495	63.438	0.135	0.0	0.0	0.1
5664	63.497	63.440	0.137	0.0	0.0	0.1
5688	63.499	63.442	0.139	0.0	0.0	0.1
5712	63.501	63.444	0.141	0.0	0.0	0.1
5736	63.502	63.446	0.142	0.0	0.0	0.1
5760	63.504	63.447	0.144	0.0	0.0	0.1
5784	63.505	63.449	0.145	0.0	0.0	0.1
5808	63.506	63.450	0.146	0.0	0.0	0.1
5832	63.507	63.451	0.147	0.0	0.0	0.1
5856	63.508	63.452	0.148	0.0	0.0	0.1
5880	63.509	63.453	0.149	0.0	0.0	0.1
5904	63.510	63.454	0.150	0.0	0.0	0.1
5928	63.511	63.455	0.151	0.0	0.0	0.1
5952	63.511	63.456	0.151	0.0	0.0	0.1
5976	63.512	63.457	0.152	0.0	0.0	0.1
6000	63.512	63.457	0.152	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.513	63.458	0.153	0.0	0.0	0.1
6048	63.513	63.458	0.153	0.0	0.0	0.1
6072	63.513	63.458	0.153	0.0	0.0	0.1
6096	63.513	63.458	0.153	0.0	0.0	0.1
6120	63.513	63.458	0.153	0.0	0.0	0.1
6144	63.513	63.458	0.153	0.0	0.0	0.1
6168	63.513	63.458	0.153	0.0	0.0	0.1
6192	63.512	63.458	0.152	0.0	0.0	0.1
6216	63.512	63.458	0.152	0.0	0.0	0.1
6240	63.512	63.458	0.152	0.0	0.0	0.1
6264	63.511	63.457	0.151	0.0	0.0	0.1
6288	63.510	63.457	0.150	0.0	0.0	0.1
6312	63.510	63.456	0.150	0.0	0.0	0.1
6336	63.509	63.456	0.149	0.0	0.0	0.1
6360	63.508	63.455	0.148	0.0	0.0	0.1
6384	63.507	63.454	0.147	0.0	0.0	0.1
6408	63.506	63.453	0.146	0.0	0.0	0.1
6432	63.506	63.453	0.146	0.0	0.0	0.1
6456	63.505	63.452	0.145	0.0	0.0	0.1
6480	63.504	63.451	0.144	0.0	0.0	0.1
6504	63.502	63.450	0.142	0.0	0.0	0.1
6528	63.501	63.449	0.141	0.0	0.0	0.1
6552	63.500	63.448	0.140	0.0	0.0	0.1
6576	63.499	63.446	0.139	0.0	0.0	0.1
6600	63.497	63.445	0.137	0.0	0.0	0.1
6624	63.496	63.444	0.136	0.0	0.0	0.1
6648	63.495	63.443	0.135	0.0	0.0	0.1
6672	63.493	63.441	0.133	0.0	0.0	0.1
6696	63.492	63.440	0.132	0.0	0.0	0.1
6720	63.490	63.439	0.130	0.0	0.0	0.1
6744	63.489	63.437	0.129	0.0	0.0	0.1
6768	63.487	63.436	0.127	0.0	0.0	0.1
6792	63.486	63.434	0.126	0.0	0.0	0.1
6816	63.484	63.433	0.124	0.0	0.0	0.1
6840	63.482	63.431	0.122	0.0	0.0	0.1
6864	63.481	63.430	0.121	0.0	0.0	0.1
6888	63.479	63.428	0.119	0.0	0.0	0.1
6912	63.477	63.426	0.117	0.0	0.0	0.1
6936	63.475	63.425	0.115	0.0	0.0	0.1
6960	63.474	63.423	0.114	0.0	0.0	0.1
6984	63.472	63.421	0.112	0.0	0.0	0.1
7008	63.470	63.420	0.110	0.0	0.0	0.1
7032	63.468	63.418	0.108	0.0	0.0	0.1
7056	63.466	63.416	0.106	0.0	0.0	0.1
7080	63.465	63.414	0.105	0.0	0.0	0.1
7104	63.463	63.412	0.103	0.0	0.1	0.1
7128	63.461	63.411	0.101	0.0	0.1	0.1
7152	63.459	63.409	0.099	0.0	0.1	0.1
7176	63.457	63.407	0.097	0.0	0.1	0.1
7200	63.455	63.405	0.095	0.0	0.1	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.453	63.403	0.093	0.0	0.1	0.1
7248	63.451	63.401	0.091	0.0	0.1	0.1
7272	63.449	63.400	0.089	0.0	0.2	0.1
7296	63.447	63.398	0.087	0.0	0.2	0.1
7320	63.445	63.396	0.085	0.0	0.3	0.1
7344	63.443	63.394	0.083	0.0	0.3	0.1
7368	63.441	63.392	0.081	0.0	0.3	0.1
7392	63.439	63.390	0.079	0.0	0.3	0.1
7416	63.437	63.388	0.077	0.0	0.2	0.1
7440	63.435	63.386	0.075	0.0	0.2	0.1
7464	63.433	63.384	0.073	0.0	0.2	0.1
7488	63.431	63.382	0.071	0.0	0.2	0.1
7512	63.429	63.380	0.069	0.0	0.2	0.1
7536	63.427	63.378	0.067	0.0	0.3	0.1
7560	63.424	63.376	0.064	0.0	0.3	0.1
7584	63.422	63.374	0.062	0.0	0.2	0.1
7608	63.420	63.372	0.060	0.0	0.2	0.1
7632	63.418	63.370	0.058	0.0	0.2	0.1
7656	63.416	63.368	0.056	0.0	0.2	0.1
7680	63.414	63.366	0.054	0.0	0.2	0.1
7704	63.412	63.364	0.052	0.0	0.2	0.1
7728	63.410	63.362	0.050	0.0	0.2	0.1
7752	63.408	63.360	0.048	0.0	0.2	0.1
7776	63.405	63.358	0.045	0.0	0.2	0.1
7800	63.403	63.356	0.043	0.0	0.2	0.1
7824	63.401	63.354	0.041	0.0	0.2	0.1
7848	63.399	63.351	0.039	0.0	0.2	0.1
7872	63.397	63.349	0.037	0.0	0.2	0.1
7896	63.395	63.347	0.035	0.0	0.2	0.1
7920	63.393	63.344	0.033	0.0	0.2	0.1
7944	63.391	63.341	0.031	0.0	0.2	0.1
7968	63.389	63.338	0.029	0.0	0.2	0.1
7992	63.387	63.334	0.027	0.0	0.2	0.1
8016	63.385	63.331	0.025	0.0	0.2	0.1
8040	63.383	63.327	0.023	0.0	0.2	0.1
8064	63.381	63.323	0.021	0.0	0.2	0.1
8088	63.379	63.317	0.019	0.0	0.2	0.1
8112	63.377	63.311	0.017	0.0	0.2	0.1
8136	63.376	63.304	0.016	0.0	0.2	0.1
8160	63.374	63.295	0.014	0.0	0.2	0.1
8184	63.373	63.287	0.013	0.0	0.2	0.1
8208	63.372	63.277	0.012	0.0	0.2	0.1
8232	63.371	63.266	0.011	0.0	0.2	0.0
8256	63.369	63.256	0.009	0.0	0.2	0.0
8280	63.368	63.251	0.008	0.0	0.2	0.1
8304	63.365	63.250	0.005	0.0	0.2	0.1
8328	63.363	63.251	0.003	0.0	0.2	0.1
8352	63.362	63.251	0.002	0.0	0.2	0.1
8376	63.358	63.258	-0.002	0.0	0.2	0.1
8400	63.355	63.270	-0.005	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.352	63.275	-0.008	0.0	0.3	0.1
8448	63.350	63.278	-0.010	0.0	0.3	0.1
8472	63.348	63.279	-0.012	0.0	0.2	0.1
8496	63.345	63.279	-0.015	0.0	0.2	0.1
8520	63.343	63.278	-0.017	0.0	0.2	0.1
8544	63.341	63.276	-0.019	0.0	0.2	0.1
8568	63.339	63.275	-0.021	0.0	0.2	0.1
8592	63.337	63.273	-0.023	0.0	0.2	0.1
8616	63.334	63.271	-0.026	0.0	0.2	0.1
8640	63.332	63.269	-0.028	0.0	0.2	0.1
8664	63.330	63.267	-0.030	0.0	0.2	0.1
8688	63.328	63.265	-0.032	0.0	0.2	0.1
8712	63.326	63.263	-0.034	0.0	0.2	0.1
8736	63.324	63.261	-0.036	0.0	0.2	0.1
8760	63.322	63.259	-0.038	0.0	0.2	0.1
8784	63.319	63.257	-0.041	0.0	0.2	0.1
8808	63.317	63.255	-0.043	0.0	0.2	0.1
8832	63.315	63.253	-0.045	0.0	0.2	0.1
8856	63.313	63.251	-0.047	0.0	0.2	0.1
8880	63.310	63.252	-0.050	0.0	0.2	0.1
8904	63.308	63.253	-0.052	0.0	0.2	0.1
8928	63.306	63.251	-0.054	0.0	0.2	0.1
8952	63.304	63.251	-0.056	0.0	0.2	0.1
8976	63.302	63.250	-0.058	0.0	0.2	0.1
9000	63.299	63.251	-0.061	0.0	0.2	0.1
9024	63.297	63.250	-0.063	0.0	0.2	0.1
9048	63.295	63.252	-0.065	0.0	0.2	0.1
9072	63.292	63.250	-0.068	0.0	0.2	0.1
9096	63.290	63.250	-0.070	0.0	0.2	0.1
9120	63.288	63.250	-0.072	0.0	0.2	0.1
9144	63.286	63.250	-0.074	0.0	0.2	0.1
9168	63.283	63.250	-0.077	0.0	0.2	0.1
9192	63.281	63.250	-0.079	0.0	0.2	0.1
9216	63.279	63.249	-0.081	0.0	0.2	0.1
9240	63.276	63.250	-0.084	0.0	0.2	0.1
9264	63.274	63.250	-0.086	0.0	0.2	0.1
9288	63.272	63.247	-0.088	0.0	0.2	0.1
9312	63.270	63.245	-0.090	0.0	0.2	0.1
9336	63.269	63.240	-0.091	0.0	0.2	0.1
9360	63.267	63.232	-0.093	0.0	0.2	0.0
9384	63.266	63.222	-0.094	0.0	0.2	0.0
9408	63.265	63.208	-0.095	0.0	0.2	0.0
9432	63.264	63.195	-0.096	0.0	0.1	0.0
9456	63.264	63.181	-0.096	0.0	0.1	0.0
9480	63.263	63.167	-0.097	0.0	0.1	0.0
9504	63.263	63.151	-0.097	0.0	0.1	0.0
9528	63.262	63.139	-0.098	0.0	0.1	0.0
9552	63.262	63.131	-0.098	0.0	0.1	0.0
9576	63.262	63.126	-0.098	0.0	0.1	0.0
9600	63.261	63.124	-0.099	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.261	63.121	-0.099	0.0	0.1	0.0
9648	63.261	63.120	-0.099	0.0	0.1	0.0
9672	63.261	63.119	-0.099	0.0	0.1	0.0
9696	63.261	63.118	-0.099	0.0	0.1	0.0
9720	63.260	63.117	-0.100	0.0	0.1	0.0
9744	63.260	63.117	-0.100	0.0	0.1	0.0
9768	63.260	63.117	-0.100	0.0	0.1	0.0
9792	63.260	63.116	-0.100	0.0	0.1	0.0
9816	63.260	63.116	-0.100	0.0	0.1	0.0
9840	63.260	63.116	-0.100	0.0	0.1	0.0
9864	63.260	63.115	-0.100	0.0	0.1	0.0
9888	63.260	63.115	-0.100	0.0	0.1	0.0
9912	63.260	63.115	-0.100	0.0	0.1	0.0
9936	63.260	63.115	-0.100	0.0	0.1	0.0
9960	63.260	63.115	-0.100	0.0	0.1	0.0
9984	63.260	63.114	-0.100	0.0	0.1	0.0
10008	63.260	63.114	-0.100	0.0	0.1	0.0
10032	63.260	63.114	-0.100	0.0	0.1	0.0
10056	63.259	63.114	-0.101	0.0	0.1	0.0
10080	63.259	63.114	-0.101	0.0	0.1	0.0
10104	63.259	63.114	-0.101	0.0	0.1	0.0
10128	63.258	63.113	-0.102	0.0	0.1	0.0
10152	63.258	63.112	-0.102	0.0	0.0	0.0
10176	63.257	63.110	-0.103	0.0	0.0	0.0
10200	63.257	63.109	-0.103	0.0	0.0	0.0
10224	63.256	63.108	-0.104	0.0	0.0	0.0
10248	63.256	63.107	-0.104	0.0	0.0	0.0
10272	63.256	63.106	-0.104	0.0	0.0	0.0
10296	63.255	63.106	-0.105	0.0	0.0	0.0
10320	63.255	63.105	-0.105	0.0	0.0	0.0
10344	63.255	63.105	-0.105	0.0	0.0	0.0
10368	63.255	63.104	-0.105	0.0	0.0	0.0
10392	63.255	63.104	-0.105	0.0	0.0	0.0
10416	63.254	63.103	-0.106	0.0	0.0	0.0
10440	63.254	63.103	-0.106	0.0	0.0	0.0
10464	63.254	63.103	-0.106	0.0	0.0	0.0
10488	63.254	63.103	-0.106	0.0	0.0	0.0
10512	63.254	63.103	-0.106	0.0	0.0	0.0
10536	63.254	63.102	-0.106	0.0	0.0	0.0
10560	63.254	63.102	-0.106	0.0	0.0	0.0
10584	63.253	63.102	-0.107	0.0	0.0	0.0
10608	63.253	63.102	-0.107	0.0	0.0	0.0
10632	63.253	63.102	-0.107	0.0	0.0	0.0
10656	63.253	63.102	-0.107	0.0	0.0	0.0
10680	63.253	63.102	-0.107	0.0	0.0	0.0
10704	63.253	63.101	-0.107	0.0	0.0	0.0
10728	63.253	63.101	-0.107	0.0	0.0	0.0
10752	63.253	63.101	-0.107	0.0	0.0	0.0
10776	63.253	63.101	-0.107	0.0	0.0	0.0
10800	63.253	63.101	-0.107	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.253	63.101	-0.107	0.0	0.0	0.0
10848	63.253	63.101	-0.107	0.0	0.0	0.0
10872	63.252	63.101	-0.108	0.0	0.0	0.0
10896	63.252	63.101	-0.108	0.0	0.0	0.0
10920	63.252	63.101	-0.108	0.0	0.0	0.0
10944	63.252	63.101	-0.108	0.0	0.0	0.0
10968	63.252	63.101	-0.108	0.0	0.0	0.0
10992	63.252	63.101	-0.108	0.0	0.0	0.0
11016	63.252	63.101	-0.108	0.0	0.0	0.0
11040	63.252	63.101	-0.108	0.0	0.0	0.0
11064	63.252	63.101	-0.108	0.0	0.0	0.0
11088	63.252	63.101	-0.108	0.0	0.0	0.0
11112	63.252	63.101	-0.108	0.0	0.0	0.0
11136	63.252	63.101	-0.108	0.0	0.0	0.0
11160	63.252	63.101	-0.108	0.0	0.0	0.0
11184	63.252	63.101	-0.108	0.0	0.0	0.0
11208	63.252	63.101	-0.108	0.0	0.0	0.0
11232	63.252	63.101	-0.108	0.0	0.0	0.0
11256	63.252	63.101	-0.108	0.0	0.0	0.0
11280	63.252	63.101	-0.108	0.0	0.0	0.0
11304	63.252	63.101	-0.108	0.0	0.0	0.0
11328	63.252	63.101	-0.108	0.0	0.0	0.0
11352	63.252	63.101	-0.108	0.0	0.0	0.0
11376	63.252	63.101	-0.108	0.0	0.0	0.0
11400	63.252	63.100	-0.108	0.0	0.0	0.0
11424	63.252	63.100	-0.108	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.251	63.100	-0.109	0.0	0.0	0.0
12408	63.251	63.100	-0.109	0.0	0.0	0.0
12432	63.251	63.100	-0.109	0.0	0.0	0.0
12456	63.251	63.100	-0.109	0.0	0.0	0.0
12480	63.251	63.100	-0.109	0.0	0.0	0.0
12504	63.251	63.100	-0.109	0.0	0.0	0.0
12528	63.251	63.100	-0.109	0.0	0.0	0.0
12552	63.251	63.100	-0.109	0.0	0.0	0.0
12576	63.251	63.100	-0.109	0.0	0.0	0.0
12600	63.251	63.100	-0.109	0.0	0.0	0.0
12624	63.251	63.100	-0.109	0.0	0.0	0.0
12648	63.251	63.100	-0.109	0.0	0.0	0.0
12672	63.251	63.100	-0.109	0.0	0.0	0.0
12696	63.251	63.100	-0.109	0.0	0.0	0.0
12720	63.251	63.100	-0.109	0.0	0.0	0.0
12744	63.251	63.100	-0.109	0.0	0.0	0.0
12768	63.251	63.100	-0.109	0.0	0.0	0.0
12792	63.251	63.100	-0.109	0.0	0.0	0.0
12816	63.251	63.100	-0.109	0.0	0.0	0.0
12840	63.251	63.100	-0.109	0.0	0.0	0.0
12864	63.251	63.100	-0.109	0.0	0.0	0.0
12888	63.251	63.100	-0.109	0.0	0.0	0.0
12912	63.251	63.100	-0.109	0.0	0.0	0.0
12936	63.251	63.100	-0.109	0.0	0.0	0.0
12960	63.251	63.100	-0.109	0.0	0.0	0.0
12984	63.251	63.100	-0.109	0.0	0.0	0.0
13008	63.251	63.100	-0.109	0.0	0.0	0.0
13032	63.251	63.100	-0.109	0.0	0.0	0.0
13056	63.251	63.100	-0.109	0.0	0.0	0.0
13080	63.251	63.100	-0.109	0.0	0.0	0.0
13104	63.251	63.100	-0.109	0.0	0.0	0.0
13128	63.251	63.100	-0.109	0.0	0.0	0.0
13152	63.251	63.100	-0.109	0.0	0.0	0.0
13176	63.251	63.100	-0.109	0.0	0.0	0.0
13200	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.251	63.100	-0.109	0.0	0.0	0.0
13248	63.251	63.100	-0.109	0.0	0.0	0.0
13272	63.251	63.100	-0.109	0.0	0.0	0.0
13296	63.251	63.100	-0.109	0.0	0.0	0.0
13320	63.251	63.100	-0.109	0.0	0.0	0.0
13344	63.251	63.100	-0.109	0.0	0.0	0.0
13368	63.251	63.100	-0.109	0.0	0.0	0.0
13392	63.251	63.100	-0.109	0.0	0.0	0.0
13416	63.251	63.100	-0.109	0.0	0.0	0.0
13440	63.251	63.100	-0.109	0.0	0.0	0.0
13464	63.251	63.100	-0.109	0.0	0.0	0.0
13488	63.251	63.100	-0.109	0.0	0.0	0.0
13512	63.251	63.100	-0.109	0.0	0.0	0.0
13536	63.251	63.100	-0.109	0.0	0.0	0.0
13560	63.251	63.100	-0.109	0.0	0.0	0.0
13584	63.251	63.100	-0.109	0.0	0.0	0.0
13608	63.251	63.100	-0.109	0.0	0.0	0.0
13632	63.251	63.100	-0.109	0.0	0.0	0.0
13656	63.251	63.100	-0.109	0.0	0.0	0.0
13680	63.251	63.100	-0.109	0.0	0.0	0.0
13704	63.251	63.100	-0.109	0.0	0.0	0.0
13728	63.251	63.100	-0.109	0.0	0.0	0.0
13752	63.251	63.100	-0.109	0.0	0.0	0.0
13776	63.251	63.100	-0.109	0.0	0.0	0.0
13800	63.251	63.100	-0.109	0.0	0.0	0.0
13824	63.251	63.100	-0.109	0.0	0.0	0.0
13848	63.251	63.100	-0.109	0.0	0.0	0.0
13872	63.251	63.100	-0.109	0.0	0.0	0.0
13896	63.251	63.100	-0.109	0.0	0.0	0.0
13920	63.251	63.100	-0.109	0.0	0.0	0.0
13944	63.251	63.100	-0.109	0.0	0.0	0.0
13968	63.251	63.100	-0.109	0.0	0.0	0.0
13992	63.251	63.100	-0.109	0.0	0.0	0.0
14016	63.251	63.100	-0.109	0.0	0.0	0.0
14040	63.251	63.100	-0.109	0.0	0.0	0.0
14064	63.251	63.100	-0.109	0.0	0.0	0.0
14088	63.251	63.100	-0.109	0.0	0.0	0.0
14112	63.251	63.100	-0.109	0.0	0.0	0.0
14136	63.251	63.100	-0.109	0.0	0.0	0.0
14160	63.251	63.100	-0.109	0.0	0.0	0.0
14184	63.251	63.100	-0.109	0.0	0.0	0.0
14208	63.251	63.100	-0.109	0.0	0.0	0.0
14232	63.251	63.100	-0.109	0.0	0.0	0.0
14256	63.251	63.100	-0.109	0.0	0.0	0.0
14280	63.251	63.100	-0.109	0.0	0.0	0.0
14304	63.251	63.100	-0.109	0.0	0.0	0.0
14328	63.251	63.100	-0.109	0.0	0.0	0.0
14352	63.251	63.100	-0.109	0.0	0.0	0.0
14376	63.251	63.100	-0.109	0.0	0.0	0.0
14400	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.251	63.100	-0.109	0.0	0.0	0.0
14448	63.251	63.100	-0.109	0.0	0.0	0.0
14472	63.251	63.100	-0.109	0.0	0.0	0.0
14496	63.250	63.100	-0.110	0.0	0.0	0.0
14520	63.250	63.100	-0.110	0.0	0.0	0.0
14544	63.250	63.100	-0.110	0.0	0.0	0.0
14568	63.250	63.100	-0.110	0.0	0.0	0.0
14592	63.250	63.100	-0.110	0.0	0.0	0.0
14616	63.250	63.100	-0.110	0.0	0.0	0.0
14640	63.250	63.100	-0.110	0.0	0.0	0.0
14664	63.250	63.100	-0.110	0.0	0.0	0.0
14688	63.250	63.100	-0.110	0.0	0.0	0.0
14712	63.250	63.100	-0.110	0.0	0.0	0.0
14736	63.250	63.100	-0.110	0.0	0.0	0.0
14760	63.250	63.100	-0.110	0.0	0.0	0.0
14784	63.250	63.100	-0.110	0.0	0.0	0.0
14808	63.250	63.100	-0.110	0.0	0.0	0.0
14832	63.250	63.100	-0.110	0.0	0.0	0.0
14856	63.250	63.100	-0.110	0.0	0.0	0.0
14880	63.250	63.100	-0.110	0.0	0.0	0.0
14904	63.250	63.100	-0.110	0.0	0.0	0.0
14928	63.250	63.100	-0.110	0.0	0.0	0.0
14952	63.250	63.100	-0.110	0.0	0.0	0.0
14976	63.250	63.100	-0.110	0.0	0.0	0.0
15000	63.250	63.100	-0.110	0.0	0.0	0.0
15024	63.250	63.100	-0.110	0.0	0.0	0.0
15048	63.250	63.100	-0.110	0.0	0.0	0.0
15072	63.250	63.100	-0.110	0.0	0.0	0.0
15096	63.250	63.100	-0.110	0.0	0.0	0.0
15120	63.250	63.100	-0.110	0.0	0.0	0.0
15144	63.250	63.100	-0.110	0.0	0.0	0.0
15168	63.250	63.100	-0.110	0.0	0.0	0.0
15192	63.250	63.100	-0.110	0.0	0.0	0.0
15216	63.250	63.100	-0.110	0.0	0.0	0.0
15240	63.250	63.100	-0.110	0.0	0.0	0.0
15264	63.250	63.100	-0.110	0.0	0.0	0.0
15288	63.250	63.100	-0.110	0.0	0.0	0.0
15312	63.250	63.100	-0.110	0.0	0.0	0.0
15336	63.250	63.100	-0.110	0.0	0.0	0.0
15360	63.250	63.100	-0.110	0.0	0.0	0.0
15384	63.250	63.100	-0.110	0.0	0.0	0.0
15408	63.250	63.100	-0.110	0.0	0.0	0.0
15432	63.250	63.100	-0.110	0.0	0.0	0.0
15456	63.250	63.100	-0.110	0.0	0.0	0.0
15480	63.250	63.100	-0.110	0.0	0.0	0.0
15504	63.250	63.100	-0.110	0.0	0.0	0.0
15528	63.250	63.100	-0.110	0.0	0.0	0.0
15552	63.250	63.100	-0.110	0.0	0.0	0.0
15576	63.250	63.100	-0.110	0.0	0.0	0.0
15600	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.250	63.100	-0.110	0.0	0.0	0.0
15648	63.250	63.100	-0.110	0.0	0.0	0.0
15672	63.250	63.100	-0.110	0.0	0.0	0.0
15696	63.250	63.100	-0.110	0.0	0.0	0.0
15720	63.250	63.100	-0.110	0.0	0.0	0.0
15744	63.250	63.100	-0.110	0.0	0.0	0.0
15768	63.250	63.100	-0.110	0.0	0.0	0.0
15792	63.250	63.100	-0.110	0.0	0.0	0.0
15816	63.250	63.100	-0.110	0.0	0.0	0.0
15840	63.250	63.100	-0.110	0.0	0.0	0.0
15864	63.250	63.100	-0.110	0.0	0.0	0.0
15888	63.250	63.100	-0.110	0.0	0.0	0.0
15912	63.250	63.100	-0.110	0.0	0.0	0.0
15936	63.250	63.100	-0.110	0.0	0.0	0.0
15960	63.250	63.100	-0.110	0.0	0.0	0.0
15984	63.250	63.100	-0.110	0.0	0.0	0.0
16008	63.250	63.100	-0.110	0.0	0.0	0.0
16032	63.250	63.100	-0.110	0.0	0.0	0.0
16056	63.250	63.100	-0.110	0.0	0.0	0.0
16080	63.250	63.100	-0.110	0.0	0.0	0.0
16104	63.250	63.100	-0.110	0.0	0.0	0.0
16128	63.250	63.100	-0.110	0.0	0.0	0.0
16152	63.250	63.100	-0.110	0.0	0.0	0.0
16176	63.250	63.100	-0.110	0.0	0.0	0.0
16200	63.250	63.100	-0.110	0.0	0.0	0.0
16224	63.250	63.100	-0.110	0.0	0.0	0.0
16248	63.250	63.100	-0.110	0.0	0.0	0.0
16272	63.250	63.100	-0.110	0.0	0.0	0.0
16296	63.250	63.100	-0.110	0.0	0.0	0.0
16320	63.250	63.100	-0.110	0.0	0.0	0.0
16344	63.250	63.100	-0.110	0.0	0.0	0.0
16368	63.250	63.100	-0.110	0.0	0.0	0.0
16392	63.250	63.100	-0.110	0.0	0.0	0.0
16416	63.250	63.100	-0.110	0.0	0.0	0.0
16440	63.250	63.100	-0.110	0.0	0.0	0.0
16464	63.250	63.100	-0.110	0.0	0.0	0.0
16488	63.250	63.100	-0.110	0.0	0.0	0.0
16512	63.250	63.100	-0.110	0.0	0.0	0.0
16536	63.250	63.100	-0.110	0.0	0.0	0.0
16560	63.250	63.100	-0.110	0.0	0.0	0.0
16584	63.250	63.100	-0.110	0.0	0.0	0.0
16608	63.250	63.100	-0.110	0.0	0.0	0.0
16632	63.250	63.100	-0.110	0.0	0.0	0.0
16656	63.250	63.100	-0.110	0.0	0.0	0.0
16680	63.250	63.100	-0.110	0.0	0.0	0.0
16704	63.250	63.100	-0.110	0.0	0.0	0.0
16728	63.250	63.100	-0.110	0.0	0.0	0.0
16752	63.250	63.100	-0.110	0.0	0.0	0.0
16776	63.250	63.100	-0.110	0.0	0.0	0.0
16800	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.250	63.100	-0.110	0.0	0.0	0.0
16848	63.250	63.100	-0.110	0.0	0.0	0.0
16872	63.250	63.100	-0.110	0.0	0.0	0.0
16896	63.250	63.100	-0.110	0.0	0.0	0.0
16920	63.250	63.100	-0.110	0.0	0.0	0.0
16944	63.250	63.100	-0.110	0.0	0.0	0.0
16968	63.250	63.100	-0.110	0.0	0.0	0.0
16992	63.250	63.100	-0.110	0.0	0.0	0.0
17016	63.250	63.100	-0.110	0.0	0.0	0.0
17040	63.250	63.100	-0.110	0.0	0.0	0.0
17064	63.250	63.100	-0.110	0.0	0.0	0.0
17088	63.250	63.100	-0.110	0.0	0.0	0.0
17112	63.250	63.100	-0.110	0.0	0.0	0.0
17136	63.250	63.100	-0.110	0.0	0.0	0.0
17160	63.250	63.100	-0.110	0.0	0.0	0.0
17184	63.250	63.100	-0.110	0.0	0.0	0.0
17208	63.250	63.100	-0.110	0.0	0.0	0.0
17232	63.250	63.100	-0.110	0.0	0.0	0.0
17256	63.250	63.100	-0.110	0.0	0.0	0.0
17280	63.250	63.100	-0.110	0.0	0.0	0.0
17304	63.250	63.100	-0.110	0.0	0.0	0.0
17328	63.250	63.100	-0.110	0.0	0.0	0.0
17352	63.250	63.100	-0.110	0.0	0.0	0.0
17376	63.250	63.100	-0.110	0.0	0.0	0.0
17400	63.250	63.100	-0.110	0.0	0.0	0.0
17424	63.250	63.100	-0.110	0.0	0.0	0.0
17448	63.250	63.100	-0.110	0.0	0.0	0.0
17472	63.250	63.100	-0.110	0.0	0.0	0.0
17496	63.250	63.100	-0.110	0.0	0.0	0.0
17520	63.250	63.100	-0.110	0.0	0.0	0.0
17544	63.250	63.100	-0.110	0.0	0.0	0.0
17568	63.250	63.100	-0.110	0.0	0.0	0.0
17592	63.250	63.100	-0.110	0.0	0.0	0.0
17616	63.250	63.100	-0.110	0.0	0.0	0.0
17640	63.250	63.100	-0.110	0.0	0.0	0.0
17664	63.250	63.100	-0.110	0.0	0.0	0.0
17688	63.250	63.100	-0.110	0.0	0.0	0.0
17712	63.250	63.100	-0.110	0.0	0.0	0.0
17736	63.250	63.100	-0.110	0.0	0.0	0.0
17760	63.250	63.100	-0.110	0.0	0.0	0.0
17784	63.250	63.100	-0.110	0.0	0.0	0.0
17808	63.250	63.100	-0.110	0.0	0.0	0.0
17832	63.250	63.100	-0.110	0.0	0.0	0.0
17856	63.250	63.100	-0.110	0.0	0.0	0.0
17880	63.250	63.100	-0.110	0.0	0.0	0.0
17904	63.250	63.100	-0.110	0.0	0.0	0.0
17928	63.250	63.100	-0.110	0.0	0.0	0.0
17952	63.250	63.100	-0.110	0.0	0.0	0.0
17976	63.250	63.100	-0.110	0.0	0.0	0.0
18000	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.250	63.100	-0.110	0.0	0.0	0.0
18048	63.250	63.100	-0.110	0.0	0.0	0.0
18072	63.250	63.100	-0.110	0.0	0.0	0.0
18096	63.250	63.100	-0.110	0.0	0.0	0.0
18120	63.250	63.100	-0.110	0.0	0.0	0.0
18144	63.250	63.100	-0.110	0.0	0.0	0.0
18168	63.250	63.100	-0.110	0.0	0.0	0.0
18192	63.250	63.100	-0.110	0.0	0.0	0.0
18216	63.250	63.100	-0.110	0.0	0.0	0.0
18240	63.250	63.100	-0.110	0.0	0.0	0.0
18264	63.250	63.100	-0.110	0.0	0.0	0.0
18288	63.250	63.100	-0.110	0.0	0.0	0.0
18312	63.250	63.100	-0.110	0.0	0.0	0.0
18336	63.250	63.100	-0.110	0.0	0.0	0.0
18360	63.250	63.100	-0.110	0.0	0.0	0.0
18384	63.250	63.100	-0.110	0.0	0.0	0.0
18408	63.250	63.100	-0.110	0.0	0.0	0.0
18432	63.250	63.100	-0.110	0.0	0.0	0.0
18456	63.250	63.100	-0.110	0.0	0.0	0.0
18480	63.250	63.100	-0.110	0.0	0.0	0.0
18504	63.250	63.100	-0.110	0.0	0.0	0.0
18528	63.250	63.100	-0.110	0.0	0.0	0.0
18552	63.250	63.100	-0.110	0.0	0.0	0.0
18576	63.250	63.100	-0.110	0.0	0.0	0.0
18600	63.250	63.100	-0.110	0.0	0.0	0.0
18624	63.250	63.100	-0.110	0.0	0.0	0.0
18648	63.250	63.100	-0.110	0.0	0.0	0.0
18672	63.250	63.100	-0.110	0.0	0.0	0.0
18696	63.250	63.100	-0.110	0.0	0.0	0.0
18720	63.250	63.100	-0.110	0.0	0.0	0.0
18744	63.250	63.100	-0.110	0.0	0.0	0.0
18768	63.250	63.100	-0.110	0.0	0.0	0.0
18792	63.250	63.100	-0.110	0.0	0.0	0.0
18816	63.250	63.100	-0.110	0.0	0.0	0.0
18840	63.250	63.100	-0.110	0.0	0.0	0.0
18864	63.250	63.100	-0.110	0.0	0.0	0.0
18888	63.250	63.100	-0.110	0.0	0.0	0.0
18912	63.250	63.100	-0.110	0.0	0.0	0.0
18936	63.250	63.100	-0.110	0.0	0.0	0.0
18960	63.250	63.100	-0.110	0.0	0.0	0.0
18984	63.250	63.100	-0.110	0.0	0.0	0.0
19008	63.250	63.100	-0.110	0.0	0.0	0.0
19032	63.250	63.100	-0.110	0.0	0.0	0.0
19056	63.250	63.100	-0.110	0.0	0.0	0.0
19080	63.250	63.100	-0.110	0.0	0.0	0.0
19104	63.250	63.100	-0.110	0.0	0.0	0.0
19128	63.250	63.100	-0.110	0.0	0.0	0.0
19152	63.250	63.100	-0.110	0.0	0.0	0.0
19176	63.250	63.100	-0.110	0.0	0.0	0.0
19200	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.250	63.100	-0.110	0.0	0.0	0.0
19248	63.250	63.100	-0.110	0.0	0.0	0.0
19272	63.250	63.100	-0.110	0.0	0.0	0.0
19296	63.250	63.100	-0.110	0.0	0.0	0.0
19320	63.250	63.100	-0.110	0.0	0.0	0.0
19344	63.250	63.100	-0.110	0.0	0.0	0.0
19368	63.250	63.100	-0.110	0.0	0.0	0.0
19392	63.250	63.100	-0.110	0.0	0.0	0.0
19416	63.250	63.100	-0.110	0.0	0.0	0.0
19440	63.250	63.100	-0.110	0.0	0.0	0.0
19464	63.250	63.100	-0.110	0.0	0.0	0.0
19488	63.250	63.100	-0.110	0.0	0.0	0.0
19512	63.250	63.100	-0.110	0.0	0.0	0.0
19536	63.250	63.100	-0.110	0.0	0.0	0.0
19560	63.250	63.100	-0.110	0.0	0.0	0.0
19584	63.250	63.100	-0.110	0.0	0.0	0.0
19608	63.250	63.100	-0.110	0.0	0.0	0.0
19632	63.250	63.100	-0.110	0.0	0.0	0.0
19656	63.250	63.100	-0.110	0.0	0.0	0.0
19680	63.250	63.100	-0.110	0.0	0.0	0.0
19704	63.250	63.100	-0.110	0.0	0.0	0.0
19728	63.250	63.100	-0.110	0.0	0.0	0.0
19752	63.250	63.100	-0.110	0.0	0.0	0.0
19776	63.250	63.100	-0.110	0.0	0.0	0.0
19800	63.250	63.100	-0.110	0.0	0.0	0.0
19824	63.250	63.100	-0.110	0.0	0.0	0.0
19848	63.250	63.100	-0.110	0.0	0.0	0.0
19872	63.250	63.100	-0.110	0.0	0.0	0.0
19896	63.250	63.100	-0.110	0.0	0.0	0.0
19920	63.250	63.100	-0.110	0.0	0.0	0.0
19944	63.250	63.100	-0.110	0.0	0.0	0.0
19968	63.250	63.100	-0.110	0.0	0.0	0.0
19992	63.250	63.100	-0.110	0.0	0.0	0.0
20016	63.250	63.100	-0.110	0.0	0.0	0.0
20040	63.250	63.100	-0.110	0.0	0.0	0.0
20064	63.250	63.100	-0.110	0.0	0.0	0.0
20088	63.250	63.100	-0.110	0.0	0.0	0.0
20112	63.250	63.100	-0.110	0.0	0.0	0.0
20136	63.250	63.100	-0.110	0.0	0.0	0.0
20160	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.101	63.096	-0.109	0.0	0.0	0.0
120	63.101	63.096	-0.109	0.0	0.0	0.0
144	63.102	63.096	-0.108	0.0	0.0	0.0
168	63.102	63.096	-0.108	0.0	0.0	0.0
192	63.103	63.096	-0.107	0.0	0.0	0.0
216	63.104	63.096	-0.106	0.0	0.0	0.0
240	63.105	63.096	-0.105	0.0	0.0	0.0
264	63.106	63.096	-0.104	0.0	0.0	0.0
288	63.106	63.096	-0.104	0.0	0.0	0.0
312	63.107	63.096	-0.103	0.0	0.0	0.0
336	63.108	63.096	-0.102	0.0	0.0	0.0
360	63.108	63.096	-0.102	0.0	0.0	0.0
384	63.109	63.096	-0.101	0.0	0.0	0.0
408	63.110	63.096	-0.100	0.0	0.0	0.0
432	63.111	63.096	-0.099	0.0	0.0	0.0
456	63.111	63.096	-0.099	0.0	0.0	0.0
480	63.112	63.096	-0.098	0.0	0.0	0.0
504	63.112	63.096	-0.098	0.0	0.0	0.0
528	63.112	63.096	-0.098	0.0	0.0	0.0
552	63.113	63.096	-0.097	0.0	0.0	0.0
576	63.113	63.096	-0.097	0.0	0.0	0.0
600	63.113	63.096	-0.097	0.0	0.0	0.0
624	63.113	63.096	-0.097	0.0	0.0	0.0
648	63.114	63.096	-0.096	0.0	0.0	0.0
672	63.114	63.096	-0.096	0.0	0.0	0.0
696	63.114	63.096	-0.096	0.0	0.0	0.0
720	63.114	63.096	-0.096	0.0	0.0	0.0
744	63.114	63.096	-0.096	0.0	0.0	0.0
768	63.114	63.096	-0.096	0.0	0.0	0.0
792	63.114	63.096	-0.096	0.0	0.0	0.0
816	63.114	63.096	-0.096	0.0	0.0	0.0
840	63.115	63.096	-0.095	0.0	0.0	0.0
864	63.115	63.096	-0.095	0.0	0.0	0.0
888	63.115	63.096	-0.095	0.0	0.0	0.0
912	63.115	63.096	-0.095	0.0	0.0	0.0
936	63.115	63.096	-0.095	0.0	0.0	0.0
960	63.115	63.096	-0.095	0.0	0.0	0.0
984	63.115	63.096	-0.095	0.0	0.0	0.0
1008	63.115	63.096	-0.095	0.0	0.0	0.0
1032	63.115	63.096	-0.095	0.0	0.0	0.0
1056	63.115	63.096	-0.095	0.0	0.0	0.0
1080	63.115	63.096	-0.095	0.0	0.0	0.0
1104	63.115	63.096	-0.095	0.0	0.0	0.0
1128	63.115	63.096	-0.095	0.0	0.0	0.0
1152	63.115	63.096	-0.095	0.0	0.0	0.0
1176	63.115	63.096	-0.095	0.0	0.0	0.0
1200	63.115	63.096	-0.095	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.115	63.096	-0.095	0.0	0.0	0.0
1248	63.116	63.096	-0.094	0.0	0.0	0.0
1272	63.116	63.096	-0.094	0.0	0.0	0.0
1296	63.116	63.096	-0.094	0.0	0.0	0.0
1320	63.116	63.096	-0.094	0.0	0.0	0.0
1344	63.116	63.096	-0.094	0.0	0.0	0.0
1368	63.116	63.096	-0.094	0.0	0.0	0.0
1392	63.116	63.096	-0.094	0.0	0.0	0.0
1416	63.116	63.096	-0.094	0.0	0.0	0.0
1440	63.116	63.096	-0.094	0.0	0.0	0.0
1464	63.116	63.096	-0.094	0.0	0.0	0.0
1488	63.116	63.096	-0.094	0.0	0.0	0.0
1512	63.116	63.096	-0.094	0.0	0.0	0.0
1536	63.116	63.096	-0.094	0.0	0.0	0.0
1560	63.116	63.096	-0.094	0.0	0.0	0.0
1584	63.116	63.096	-0.094	0.0	0.0	0.0
1608	63.116	63.096	-0.094	0.0	0.0	0.0
1632	63.117	63.096	-0.093	0.0	0.0	0.0
1656	63.117	63.096	-0.093	0.0	0.0	0.0
1680	63.117	63.096	-0.093	0.0	0.0	0.0
1704	63.117	63.096	-0.093	0.0	0.0	0.0
1728	63.117	63.096	-0.093	0.0	0.0	0.0
1752	63.117	63.096	-0.093	0.0	0.0	0.0
1776	63.117	63.096	-0.093	0.0	0.0	0.0
1800	63.117	63.096	-0.093	0.0	0.0	0.0
1824	63.117	63.096	-0.093	0.0	0.0	0.0
1848	63.117	63.096	-0.093	0.0	0.0	0.0
1872	63.117	63.096	-0.093	0.0	0.0	0.0
1896	63.118	63.096	-0.092	0.0	0.0	0.0
1920	63.118	63.096	-0.092	0.0	0.0	0.0
1944	63.118	63.096	-0.092	0.0	0.0	0.0
1968	63.118	63.096	-0.092	0.0	0.0	0.0
1992	63.118	63.096	-0.092	0.0	0.0	0.0
2016	63.118	63.096	-0.092	0.0	0.0	0.0
2040	63.118	63.096	-0.092	0.0	0.0	0.0
2064	63.118	63.096	-0.092	0.0	0.0	0.0
2088	63.118	63.096	-0.092	0.0	0.0	0.0
2112	63.118	63.096	-0.092	0.0	0.0	0.0
2136	63.119	63.096	-0.091	0.0	0.0	0.0
2160	63.119	63.096	-0.091	0.0	0.0	0.0
2184	63.119	63.096	-0.091	0.0	0.0	0.0
2208	63.119	63.096	-0.091	0.0	0.0	0.0
2232	63.119	63.096	-0.091	0.0	0.0	0.0
2256	63.119	63.096	-0.091	0.0	0.0	0.0
2280	63.119	63.096	-0.091	0.0	0.0	0.0
2304	63.119	63.096	-0.091	0.0	0.0	0.0
2328	63.120	63.096	-0.090	0.0	0.0	0.0
2352	63.120	63.096	-0.090	0.0	0.0	0.0
2376	63.120	63.096	-0.090	0.0	0.0	0.0
2400	63.120	63.096	-0.090	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.120	63.096	-0.090	0.0	0.0	0.0
2448	63.120	63.096	-0.090	0.0	0.0	0.0
2472	63.120	63.096	-0.090	0.0	0.0	0.0
2496	63.121	63.096	-0.089	0.0	0.0	0.0
2520	63.121	63.096	-0.089	0.0	0.0	0.0
2544	63.121	63.096	-0.089	0.0	0.0	0.0
2568	63.121	63.096	-0.089	0.0	0.0	0.0
2592	63.121	63.096	-0.089	0.0	0.0	0.0
2616	63.121	63.096	-0.089	0.0	0.0	0.0
2640	63.121	63.096	-0.089	0.0	0.0	0.0
2664	63.122	63.096	-0.088	0.0	0.0	0.0
2688	63.122	63.096	-0.088	0.0	0.0	0.0
2712	63.122	63.096	-0.088	0.0	0.0	0.0
2736	63.122	63.096	-0.088	0.0	0.0	0.0
2760	63.122	63.096	-0.088	0.0	0.0	0.0
2784	63.123	63.096	-0.087	0.0	0.0	0.0
2808	63.123	63.096	-0.087	0.0	0.0	0.0
2832	63.123	63.096	-0.087	0.0	0.0	0.0
2856	63.123	63.096	-0.087	0.0	0.0	0.0
2880	63.123	63.096	-0.087	0.0	0.0	0.0
2904	63.124	63.096	-0.086	0.0	0.0	0.0
2928	63.124	63.096	-0.086	0.0	0.0	0.0
2952	63.124	63.096	-0.086	0.0	0.0	0.0
2976	63.124	63.096	-0.086	0.0	0.0	0.0
3000	63.125	63.096	-0.085	0.0	0.0	0.0
3024	63.125	63.096	-0.085	0.0	0.0	0.0
3048	63.125	63.096	-0.085	0.0	0.0	0.0
3072	63.126	63.096	-0.084	0.0	0.0	0.0
3096	63.126	63.096	-0.084	0.0	0.0	0.0
3120	63.126	63.096	-0.084	0.0	0.0	0.0
3144	63.127	63.096	-0.083	0.0	0.0	0.0
3168	63.127	63.096	-0.083	0.0	0.0	0.0
3192	63.127	63.096	-0.083	0.0	0.0	0.0
3216	63.128	63.096	-0.082	0.0	0.0	0.0
3240	63.128	63.096	-0.082	0.0	0.0	0.0
3264	63.129	63.096	-0.081	0.0	0.0	0.0
3288	63.129	63.096	-0.081	0.0	0.0	0.0
3312	63.130	63.096	-0.080	0.0	0.0	0.0
3336	63.130	63.096	-0.080	0.0	0.0	0.0
3360	63.130	63.096	-0.080	0.0	0.0	0.0
3384	63.131	63.096	-0.079	0.0	0.0	0.0
3408	63.132	63.096	-0.078	0.0	0.0	0.0
3432	63.132	63.096	-0.078	0.0	0.0	0.0
3456	63.133	63.096	-0.077	0.0	0.0	0.0
3480	63.133	63.096	-0.077	0.0	0.0	0.0
3504	63.134	63.096	-0.076	0.0	0.0	0.0
3528	63.135	63.096	-0.075	0.0	0.0	0.0
3552	63.135	63.096	-0.075	0.0	0.0	0.0
3576	63.136	63.096	-0.074	0.0	0.0	0.0
3600	63.137	63.096	-0.073	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.137	63.096	-0.073	0.0	0.0	0.0
3648	63.138	63.096	-0.072	0.0	0.0	0.0
3672	63.139	63.096	-0.071	0.0	0.0	0.0
3696	63.140	63.096	-0.070	0.0	0.0	0.0
3720	63.141	63.096	-0.069	0.0	0.0	0.0
3744	63.141	63.096	-0.069	0.0	0.0	0.0
3768	63.142	63.096	-0.068	0.0	0.0	0.0
3792	63.144	63.096	-0.066	0.0	0.0	0.0
3816	63.145	63.096	-0.065	0.0	0.0	0.0
3840	63.146	63.096	-0.064	0.0	0.0	0.0
3864	63.147	63.096	-0.063	0.0	0.0	0.0
3888	63.148	63.096	-0.062	0.0	0.0	0.0
3912	63.149	63.096	-0.061	0.0	0.0	0.0
3936	63.151	63.096	-0.059	0.0	0.0	0.0
3960	63.152	63.096	-0.058	0.0	0.0	0.0
3984	63.155	63.096	-0.055	0.0	0.0	0.0
4008	63.159	63.096	-0.051	0.0	0.0	0.0
4032	63.163	63.096	-0.047	0.0	0.0	0.0
4056	63.168	63.096	-0.042	0.0	0.0	0.0
4080	63.173	63.096	-0.037	0.0	0.0	0.0
4104	63.179	63.096	-0.031	0.0	0.0	0.0
4128	63.186	63.096	-0.024	0.0	0.0	0.0
4152	63.193	63.096	-0.017	0.0	0.0	0.0
4176	63.200	63.096	-0.010	0.0	0.0	0.0
4200	63.208	63.096	-0.002	0.0	0.0	0.0
4224	63.217	63.096	0.007	0.0	0.0	0.0
4248	63.225	63.096	0.015	0.0	0.0	0.0
4272	63.235	63.096	0.025	0.0	0.0	0.0
4296	63.244	63.096	0.034	0.0	0.0	0.0
4320	63.250	63.096	0.040	0.0	0.0	0.0
4344	63.251	63.096	0.041	0.0	0.0	0.0
4368	63.249	63.096	0.039	0.0	0.0	0.0
4392	63.252	63.096	0.042	0.0	0.0	0.0
4416	63.249	63.096	0.039	0.0	0.0	0.0
4440	63.250	63.096	0.040	0.0	0.0	0.0
4464	63.250	63.096	0.040	0.0	0.0	0.0
4488	63.250	63.096	0.040	0.0	0.0	0.0
4512	63.251	63.096	0.041	0.0	0.0	0.0
4536	63.251	63.096	0.041	0.0	0.0	0.0
4560	63.251	63.096	0.041	0.0	0.0	0.0
4584	63.251	63.096	0.041	0.0	0.0	0.0
4608	63.251	63.096	0.041	0.0	0.0	0.0
4632	63.252	63.096	0.042	0.0	0.0	0.0
4656	63.253	63.096	0.043	0.0	0.0	0.0
4680	63.255	63.096	0.045	0.0	0.0	0.0
4704	63.258	63.096	0.048	0.0	0.0	0.0
4728	63.261	63.096	0.051	0.0	0.0	0.0
4752	63.265	63.096	0.055	0.0	0.0	0.0
4776	63.268	63.096	0.058	0.0	0.0	0.0
4800	63.272	63.096	0.062	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.276	63.096	0.066	0.0	0.0	0.0
4848	63.280	63.096	0.070	0.0	0.0	0.0
4872	63.279	63.096	0.069	0.0	0.0	0.0
4896	63.263	63.096	0.053	0.0	0.0	0.0
4920	63.256	63.096	0.046	0.0	0.0	0.0
4944	63.252	63.096	0.042	0.0	0.0	0.0
4968	63.253	63.096	0.043	0.0	0.0	0.0
4992	63.258	63.096	0.048	0.0	0.0	0.0
5016	63.266	63.096	0.056	0.0	0.0	0.0
5040	63.277	63.096	0.067	0.0	0.0	0.0
5064	63.291	63.096	0.081	0.0	0.0	0.0
5088	63.307	63.096	0.097	0.0	0.0	0.0
5112	63.326	63.096	0.116	0.0	0.0	0.0
5136	63.347	63.096	0.137	0.0	0.1	0.0
5160	63.361	63.096	0.151	0.0	0.1	0.0
5184	63.370	63.096	0.160	0.0	0.1	0.0
5208	63.376	63.096	0.166	0.0	0.1	0.0
5232	63.382	63.096	0.172	0.0	0.1	0.0
5256	63.387	63.096	0.177	0.0	0.1	0.0
5280	63.392	63.096	0.182	0.0	0.1	0.0
5304	63.396	63.096	0.186	0.0	0.1	0.0
5328	63.400	63.096	0.190	0.0	0.1	0.0
5352	63.404	63.096	0.194	0.0	0.1	0.0
5376	63.408	63.096	0.198	0.0	0.1	0.0
5400	63.411	63.096	0.201	0.0	0.1	0.0
5424	63.415	63.096	0.205	0.0	0.1	0.0
5448	63.418	63.096	0.208	0.0	0.1	0.0
5472	63.421	63.096	0.211	0.0	0.1	0.0
5496	63.424	63.096	0.214	0.0	0.1	0.0
5520	63.426	63.096	0.216	0.0	0.1	0.0
5544	63.429	63.096	0.219	0.0	0.1	0.0
5568	63.431	63.096	0.221	0.0	0.1	0.0
5592	63.434	63.096	0.224	0.0	0.1	0.0
5616	63.436	63.096	0.226	0.0	0.1	0.0
5640	63.438	63.096	0.228	0.0	0.1	0.0
5664	63.440	63.096	0.230	0.0	0.1	0.0
5688	63.442	63.096	0.232	0.0	0.1	0.0
5712	63.444	63.096	0.234	0.0	0.1	0.0
5736	63.446	63.096	0.236	0.0	0.1	0.0
5760	63.447	63.096	0.237	0.0	0.1	0.0
5784	63.449	63.096	0.239	0.0	0.1	0.0
5808	63.450	63.096	0.240	0.0	0.1	0.0
5832	63.451	63.096	0.241	0.0	0.1	0.0
5856	63.452	63.096	0.242	0.0	0.1	0.0
5880	63.453	63.096	0.243	0.0	0.1	0.0
5904	63.454	63.096	0.244	0.0	0.1	0.0
5928	63.455	63.096	0.245	0.0	0.1	0.0
5952	63.456	63.096	0.246	0.0	0.1	0.0
5976	63.457	63.096	0.247	0.0	0.1	0.0
6000	63.457	63.096	0.247	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.458	63.096	0.248	0.0	0.1	0.0
6048	63.458	63.096	0.248	0.0	0.1	0.0
6072	63.458	63.096	0.248	0.0	0.1	0.0
6096	63.458	63.096	0.248	0.0	0.1	0.0
6120	63.458	63.096	0.248	0.0	0.1	0.0
6144	63.458	63.096	0.248	0.0	0.1	0.0
6168	63.458	63.096	0.248	0.0	0.1	0.0
6192	63.458	63.096	0.248	0.0	0.1	0.0
6216	63.458	63.096	0.248	0.0	0.1	0.0
6240	63.458	63.096	0.248	0.0	0.1	0.0
6264	63.457	63.096	0.247	0.0	0.1	0.0
6288	63.457	63.096	0.247	0.0	0.1	0.0
6312	63.456	63.096	0.246	0.0	0.1	0.0
6336	63.456	63.096	0.246	0.0	0.1	0.0
6360	63.455	63.096	0.245	0.0	0.1	0.0
6384	63.454	63.096	0.244	0.0	0.1	0.0
6408	63.453	63.096	0.243	0.0	0.1	0.0
6432	63.453	63.096	0.243	0.0	0.1	0.0
6456	63.452	63.096	0.242	0.0	0.1	0.0
6480	63.451	63.096	0.241	0.0	0.1	0.0
6504	63.450	63.096	0.240	0.0	0.1	0.0
6528	63.449	63.096	0.239	0.0	0.1	0.0
6552	63.448	63.096	0.238	0.0	0.1	0.0
6576	63.446	63.096	0.236	0.0	0.1	0.0
6600	63.445	63.096	0.235	0.0	0.1	0.0
6624	63.444	63.096	0.234	0.0	0.1	0.0
6648	63.443	63.096	0.233	0.0	0.1	0.0
6672	63.441	63.096	0.231	0.0	0.1	0.0
6696	63.440	63.096	0.230	0.0	0.1	0.0
6720	63.439	63.096	0.229	0.0	0.1	0.0
6744	63.437	63.096	0.227	0.0	0.1	0.0
6768	63.436	63.096	0.226	0.0	0.1	0.0
6792	63.434	63.096	0.224	0.0	0.1	0.0
6816	63.433	63.096	0.223	0.0	0.1	0.0
6840	63.431	63.096	0.221	0.0	0.1	0.0
6864	63.430	63.096	0.220	0.0	0.1	0.0
6888	63.428	63.096	0.218	0.0	0.1	0.0
6912	63.426	63.096	0.216	0.0	0.1	0.0
6936	63.425	63.096	0.215	0.0	0.1	0.0
6960	63.423	63.096	0.213	0.0	0.1	0.0
6984	63.421	63.096	0.211	0.0	0.1	0.0
7008	63.420	63.096	0.210	0.0	0.1	0.0
7032	63.418	63.096	0.208	0.0	0.1	0.0
7056	63.416	63.096	0.206	0.0	0.1	0.0
7080	63.414	63.096	0.204	0.0	0.1	0.0
7104	63.412	63.096	0.202	0.0	0.1	0.0
7128	63.411	63.096	0.201	0.0	0.1	0.0
7152	63.409	63.096	0.199	0.0	0.1	0.0
7176	63.407	63.096	0.197	0.0	0.1	0.0
7200	63.405	63.096	0.195	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.403	63.096	0.193	0.0	0.1	0.0
7248	63.401	63.096	0.191	0.0	0.1	0.0
7272	63.400	63.096	0.190	0.0	0.1	0.0
7296	63.398	63.096	0.188	0.0	0.1	0.0
7320	63.396	63.096	0.186	0.0	0.1	0.0
7344	63.394	63.096	0.184	0.0	0.1	0.0
7368	63.392	63.096	0.182	0.0	0.1	0.0
7392	63.390	63.096	0.180	0.0	0.1	0.0
7416	63.388	63.096	0.178	0.0	0.1	0.0
7440	63.386	63.096	0.176	0.0	0.1	0.0
7464	63.384	63.096	0.174	0.0	0.1	0.0
7488	63.382	63.096	0.172	0.0	0.1	0.0
7512	63.380	63.096	0.170	0.0	0.1	0.0
7536	63.378	63.096	0.168	0.0	0.1	0.0
7560	63.376	63.096	0.166	0.0	0.1	0.0
7584	63.374	63.096	0.164	0.0	0.1	0.0
7608	63.372	63.096	0.162	0.0	0.1	0.0
7632	63.370	63.096	0.160	0.0	0.1	0.0
7656	63.368	63.096	0.158	0.0	0.1	0.0
7680	63.366	63.096	0.156	0.0	0.1	0.0
7704	63.364	63.096	0.154	0.0	0.1	0.0
7728	63.362	63.096	0.152	0.0	0.1	0.0
7752	63.360	63.096	0.150	0.0	0.1	0.0
7776	63.358	63.096	0.148	0.0	0.1	0.0
7800	63.356	63.096	0.146	0.0	0.1	0.0
7824	63.354	63.096	0.144	0.0	0.1	0.0
7848	63.351	63.096	0.141	0.0	0.1	0.0
7872	63.349	63.096	0.139	0.0	0.1	0.0
7896	63.347	63.096	0.137	0.0	0.1	0.0
7920	63.344	63.096	0.134	0.0	0.1	0.0
7944	63.341	63.096	0.131	0.0	0.1	0.0
7968	63.338	63.096	0.128	0.0	0.1	0.0
7992	63.334	63.096	0.124	0.0	0.1	0.0
8016	63.331	63.096	0.121	0.0	0.1	0.0
8040	63.327	63.096	0.117	0.0	0.1	0.0
8064	63.323	63.096	0.113	0.0	0.0	0.0
8088	63.317	63.096	0.107	0.0	0.0	0.0
8112	63.311	63.096	0.101	0.0	0.0	0.0
8136	63.304	63.096	0.094	0.0	0.0	0.0
8160	63.295	63.096	0.085	0.0	0.0	0.0
8184	63.287	63.096	0.077	0.0	0.0	0.0
8208	63.277	63.096	0.067	0.0	0.0	0.0
8232	63.266	63.096	0.056	0.0	0.0	0.0
8256	63.256	63.096	0.046	0.0	0.0	0.0
8280	63.251	63.096	0.041	0.0	0.0	0.0
8304	63.250	63.096	0.040	0.0	0.0	0.0
8328	63.251	63.096	0.041	0.0	0.0	0.0
8352	63.251	63.096	0.041	0.0	0.0	0.0
8376	63.258	63.096	0.048	0.0	0.0	0.0
8400	63.270	63.096	0.060	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.275	63.096	0.065	0.0	0.0	0.0
8448	63.278	63.096	0.068	0.0	0.0	0.0
8472	63.279	63.096	0.069	0.0	0.0	0.0
8496	63.279	63.096	0.069	0.0	0.0	0.0
8520	63.278	63.096	0.068	0.0	0.0	0.0
8544	63.276	63.096	0.066	0.0	0.0	0.0
8568	63.275	63.096	0.065	0.0	0.0	0.0
8592	63.273	63.096	0.063	0.0	0.0	0.0
8616	63.271	63.096	0.061	0.0	0.0	0.0
8640	63.269	63.096	0.059	0.0	0.0	0.0
8664	63.267	63.096	0.057	0.0	0.0	0.0
8688	63.265	63.096	0.055	0.0	0.0	0.0
8712	63.263	63.096	0.053	0.0	0.0	0.0
8736	63.261	63.096	0.051	0.0	0.0	0.0
8760	63.259	63.096	0.049	0.0	0.0	0.0
8784	63.257	63.096	0.047	0.0	0.0	0.0
8808	63.255	63.096	0.045	0.0	0.0	0.0
8832	63.253	63.096	0.043	0.0	0.0	0.0
8856	63.251	63.096	0.041	0.0	0.0	0.0
8880	63.252	63.096	0.042	0.0	0.0	0.0
8904	63.253	63.096	0.043	0.0	0.0	0.0
8928	63.251	63.096	0.041	0.0	0.0	0.0
8952	63.251	63.096	0.041	0.0	0.0	0.0
8976	63.250	63.096	0.040	0.0	0.0	0.0
9000	63.251	63.096	0.041	0.0	0.0	0.0
9024	63.250	63.096	0.040	0.0	0.0	0.0
9048	63.252	63.096	0.042	0.0	0.0	0.0
9072	63.250	63.096	0.040	0.0	0.0	0.0
9096	63.250	63.096	0.040	0.0	0.0	0.0
9120	63.250	63.096	0.040	0.0	0.0	0.0
9144	63.250	63.096	0.040	0.0	0.0	0.0
9168	63.250	63.096	0.040	0.0	0.0	0.0
9192	63.250	63.096	0.040	0.0	0.0	0.0
9216	63.249	63.096	0.039	0.0	0.0	0.0
9240	63.250	63.096	0.040	0.0	0.0	0.0
9264	63.250	63.096	0.040	0.0	0.0	0.0
9288	63.247	63.096	0.037	0.0	0.0	0.0
9312	63.245	63.096	0.035	0.0	0.0	0.0
9336	63.240	63.096	0.030	0.0	0.0	0.0
9360	63.232	63.096	0.022	0.0	0.0	0.0
9384	63.222	63.096	0.012	0.0	0.0	0.0
9408	63.208	63.096	-0.002	0.0	0.0	0.0
9432	63.195	63.096	-0.015	0.0	0.0	0.0
9456	63.181	63.096	-0.029	0.0	0.0	0.0
9480	63.167	63.096	-0.043	0.0	0.0	0.0
9504	63.151	63.096	-0.059	0.0	0.0	0.0
9528	63.139	63.096	-0.071	0.0	0.0	0.0
9552	63.131	63.096	-0.079	0.0	0.0	0.0
9576	63.126	63.096	-0.084	0.0	0.0	0.0
9600	63.124	63.096	-0.086	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.121	63.096	-0.089	0.0	0.0	0.0
9648	63.120	63.096	-0.090	0.0	0.0	0.0
9672	63.119	63.096	-0.091	0.0	0.0	0.0
9696	63.118	63.096	-0.092	0.0	0.0	0.0
9720	63.117	63.096	-0.093	0.0	0.0	0.0
9744	63.117	63.096	-0.093	0.0	0.0	0.0
9768	63.117	63.096	-0.093	0.0	0.0	0.0
9792	63.116	63.096	-0.094	0.0	0.0	0.0
9816	63.116	63.096	-0.094	0.0	0.0	0.0
9840	63.116	63.096	-0.094	0.0	0.0	0.0
9864	63.115	63.096	-0.095	0.0	0.0	0.0
9888	63.115	63.096	-0.095	0.0	0.0	0.0
9912	63.115	63.096	-0.095	0.0	0.0	0.0
9936	63.115	63.096	-0.095	0.0	0.0	0.0
9960	63.115	63.096	-0.095	0.0	0.0	0.0
9984	63.114	63.096	-0.096	0.0	0.0	0.0
10008	63.114	63.096	-0.096	0.0	0.0	0.0
10032	63.114	63.096	-0.096	0.0	0.0	0.0
10056	63.114	63.096	-0.096	0.0	0.0	0.0
10080	63.114	63.096	-0.096	0.0	0.0	0.0
10104	63.114	63.096	-0.096	0.0	0.0	0.0
10128	63.113	63.096	-0.097	0.0	0.0	0.0
10152	63.112	63.096	-0.098	0.0	0.0	0.0
10176	63.110	63.096	-0.100	0.0	0.0	0.0
10200	63.109	63.096	-0.101	0.0	0.0	0.0
10224	63.108	63.096	-0.102	0.0	0.0	0.0
10248	63.107	63.096	-0.103	0.0	0.0	0.0
10272	63.106	63.096	-0.104	0.0	0.0	0.0
10296	63.106	63.096	-0.104	0.0	0.0	0.0
10320	63.105	63.096	-0.105	0.0	0.0	0.0
10344	63.105	63.096	-0.105	0.0	0.0	0.0
10368	63.104	63.096	-0.106	0.0	0.0	0.0
10392	63.104	63.096	-0.106	0.0	0.0	0.0
10416	63.103	63.096	-0.107	0.0	0.0	0.0
10440	63.103	63.096	-0.107	0.0	0.0	0.0
10464	63.103	63.096	-0.107	0.0	0.0	0.0
10488	63.103	63.096	-0.107	0.0	0.0	0.0
10512	63.103	63.096	-0.107	0.0	0.0	0.0
10536	63.102	63.096	-0.108	0.0	0.0	0.0
10560	63.102	63.096	-0.108	0.0	0.0	0.0
10584	63.102	63.096	-0.108	0.0	0.0	0.0
10608	63.102	63.096	-0.108	0.0	0.0	0.0
10632	63.102	63.096	-0.108	0.0	0.0	0.0
10656	63.102	63.096	-0.108	0.0	0.0	0.0
10680	63.102	63.096	-0.108	0.0	0.0	0.0
10704	63.101	63.096	-0.109	0.0	0.0	0.0
10728	63.101	63.096	-0.109	0.0	0.0	0.0
10752	63.101	63.096	-0.109	0.0	0.0	0.0
10776	63.101	63.096	-0.109	0.0	0.0	0.0
10800	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.101	63.096	-0.109	0.0	0.0	0.0
10848	63.101	63.096	-0.109	0.0	0.0	0.0
10872	63.101	63.096	-0.109	0.0	0.0	0.0
10896	63.101	63.096	-0.109	0.0	0.0	0.0
10920	63.101	63.096	-0.109	0.0	0.0	0.0
10944	63.101	63.096	-0.109	0.0	0.0	0.0
10968	63.101	63.096	-0.109	0.0	0.0	0.0
10992	63.101	63.096	-0.109	0.0	0.0	0.0
11016	63.101	63.096	-0.109	0.0	0.0	0.0
11040	63.101	63.096	-0.109	0.0	0.0	0.0
11064	63.101	63.096	-0.109	0.0	0.0	0.0
11088	63.101	63.096	-0.109	0.0	0.0	0.0
11112	63.101	63.096	-0.109	0.0	0.0	0.0
11136	63.101	63.096	-0.109	0.0	0.0	0.0
11160	63.101	63.096	-0.109	0.0	0.0	0.0
11184	63.101	63.096	-0.109	0.0	0.0	0.0
11208	63.101	63.096	-0.109	0.0	0.0	0.0
11232	63.101	63.096	-0.109	0.0	0.0	0.0
11256	63.101	63.096	-0.109	0.0	0.0	0.0
11280	63.101	63.096	-0.109	0.0	0.0	0.0
11304	63.101	63.096	-0.109	0.0	0.0	0.0
11328	63.101	63.096	-0.109	0.0	0.0	0.0
11352	63.101	63.096	-0.109	0.0	0.0	0.0
11376	63.101	63.096	-0.109	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.100	63.096	-0.110	0.0	0.0	0.0
14448	63.100	63.096	-0.110	0.0	0.0	0.0
14472	63.100	63.096	-0.110	0.0	0.0	0.0
14496	63.100	63.096	-0.110	0.0	0.0	0.0
14520	63.100	63.096	-0.110	0.0	0.0	0.0
14544	63.100	63.096	-0.110	0.0	0.0	0.0
14568	63.100	63.096	-0.110	0.0	0.0	0.0
14592	63.100	63.096	-0.110	0.0	0.0	0.0
14616	63.100	63.096	-0.110	0.0	0.0	0.0
14640	63.100	63.096	-0.110	0.0	0.0	0.0
14664	63.100	63.096	-0.110	0.0	0.0	0.0
14688	63.100	63.096	-0.110	0.0	0.0	0.0
14712	63.100	63.096	-0.110	0.0	0.0	0.0
14736	63.100	63.096	-0.110	0.0	0.0	0.0
14760	63.100	63.096	-0.110	0.0	0.0	0.0
14784	63.100	63.096	-0.110	0.0	0.0	0.0
14808	63.100	63.096	-0.110	0.0	0.0	0.0
14832	63.100	63.096	-0.110	0.0	0.0	0.0
14856	63.100	63.096	-0.110	0.0	0.0	0.0
14880	63.100	63.096	-0.110	0.0	0.0	0.0
14904	63.100	63.096	-0.110	0.0	0.0	0.0
14928	63.100	63.096	-0.110	0.0	0.0	0.0
14952	63.100	63.096	-0.110	0.0	0.0	0.0
14976	63.100	63.096	-0.110	0.0	0.0	0.0
15000	63.100	63.096	-0.110	0.0	0.0	0.0
15024	63.100	63.096	-0.110	0.0	0.0	0.0
15048	63.100	63.096	-0.110	0.0	0.0	0.0
15072	63.100	63.096	-0.110	0.0	0.0	0.0
15096	63.100	63.096	-0.110	0.0	0.0	0.0
15120	63.100	63.096	-0.110	0.0	0.0	0.0
15144	63.100	63.096	-0.110	0.0	0.0	0.0
15168	63.100	63.096	-0.110	0.0	0.0	0.0
15192	63.100	63.096	-0.110	0.0	0.0	0.0
15216	63.100	63.096	-0.110	0.0	0.0	0.0
15240	63.100	63.096	-0.110	0.0	0.0	0.0
15264	63.100	63.096	-0.110	0.0	0.0	0.0
15288	63.100	63.096	-0.110	0.0	0.0	0.0
15312	63.100	63.096	-0.110	0.0	0.0	0.0
15336	63.100	63.096	-0.110	0.0	0.0	0.0
15360	63.100	63.096	-0.110	0.0	0.0	0.0
15384	63.100	63.096	-0.110	0.0	0.0	0.0
15408	63.100	63.096	-0.110	0.0	0.0	0.0
15432	63.100	63.096	-0.110	0.0	0.0	0.0
15456	63.100	63.096	-0.110	0.0	0.0	0.0
15480	63.100	63.096	-0.110	0.0	0.0	0.0
15504	63.100	63.096	-0.110	0.0	0.0	0.0
15528	63.100	63.096	-0.110	0.0	0.0	0.0
15552	63.100	63.096	-0.110	0.0	0.0	0.0
15576	63.100	63.096	-0.110	0.0	0.0	0.0
15600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.100	63.096	-0.110	0.0	0.0	0.0
15648	63.100	63.096	-0.110	0.0	0.0	0.0
15672	63.100	63.096	-0.110	0.0	0.0	0.0
15696	63.100	63.096	-0.110	0.0	0.0	0.0
15720	63.100	63.096	-0.110	0.0	0.0	0.0
15744	63.100	63.096	-0.110	0.0	0.0	0.0
15768	63.100	63.096	-0.110	0.0	0.0	0.0
15792	63.100	63.096	-0.110	0.0	0.0	0.0
15816	63.100	63.096	-0.110	0.0	0.0	0.0
15840	63.100	63.096	-0.110	0.0	0.0	0.0
15864	63.100	63.096	-0.110	0.0	0.0	0.0
15888	63.100	63.096	-0.110	0.0	0.0	0.0
15912	63.100	63.096	-0.110	0.0	0.0	0.0
15936	63.100	63.096	-0.110	0.0	0.0	0.0
15960	63.100	63.096	-0.110	0.0	0.0	0.0
15984	63.100	63.096	-0.110	0.0	0.0	0.0
16008	63.100	63.096	-0.110	0.0	0.0	0.0
16032	63.100	63.096	-0.110	0.0	0.0	0.0
16056	63.100	63.096	-0.110	0.0	0.0	0.0
16080	63.100	63.096	-0.110	0.0	0.0	0.0
16104	63.100	63.096	-0.110	0.0	0.0	0.0
16128	63.100	63.096	-0.110	0.0	0.0	0.0
16152	63.100	63.096	-0.110	0.0	0.0	0.0
16176	63.100	63.096	-0.110	0.0	0.0	0.0
16200	63.100	63.096	-0.110	0.0	0.0	0.0
16224	63.100	63.096	-0.110	0.0	0.0	0.0
16248	63.100	63.096	-0.110	0.0	0.0	0.0
16272	63.100	63.096	-0.110	0.0	0.0	0.0
16296	63.100	63.096	-0.110	0.0	0.0	0.0
16320	63.100	63.096	-0.110	0.0	0.0	0.0
16344	63.100	63.096	-0.110	0.0	0.0	0.0
16368	63.100	63.096	-0.110	0.0	0.0	0.0
16392	63.100	63.096	-0.110	0.0	0.0	0.0
16416	63.100	63.096	-0.110	0.0	0.0	0.0
16440	63.100	63.096	-0.110	0.0	0.0	0.0
16464	63.100	63.096	-0.110	0.0	0.0	0.0
16488	63.100	63.096	-0.110	0.0	0.0	0.0
16512	63.100	63.096	-0.110	0.0	0.0	0.0
16536	63.100	63.096	-0.110	0.0	0.0	0.0
16560	63.100	63.096	-0.110	0.0	0.0	0.0
16584	63.100	63.096	-0.110	0.0	0.0	0.0
16608	63.100	63.096	-0.110	0.0	0.0	0.0
16632	63.100	63.096	-0.110	0.0	0.0	0.0
16656	63.100	63.096	-0.110	0.0	0.0	0.0
16680	63.100	63.096	-0.110	0.0	0.0	0.0
16704	63.100	63.096	-0.110	0.0	0.0	0.0
16728	63.100	63.096	-0.110	0.0	0.0	0.0
16752	63.100	63.096	-0.110	0.0	0.0	0.0
16776	63.100	63.096	-0.110	0.0	0.0	0.0
16800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.100	63.096	-0.110	0.0	0.0	0.0
16848	63.100	63.096	-0.110	0.0	0.0	0.0
16872	63.100	63.096	-0.110	0.0	0.0	0.0
16896	63.100	63.096	-0.110	0.0	0.0	0.0
16920	63.100	63.096	-0.110	0.0	0.0	0.0
16944	63.100	63.096	-0.110	0.0	0.0	0.0
16968	63.100	63.096	-0.110	0.0	0.0	0.0
16992	63.100	63.096	-0.110	0.0	0.0	0.0
17016	63.100	63.096	-0.110	0.0	0.0	0.0
17040	63.100	63.096	-0.110	0.0	0.0	0.0
17064	63.100	63.096	-0.110	0.0	0.0	0.0
17088	63.100	63.096	-0.110	0.0	0.0	0.0
17112	63.100	63.096	-0.110	0.0	0.0	0.0
17136	63.100	63.096	-0.110	0.0	0.0	0.0
17160	63.100	63.096	-0.110	0.0	0.0	0.0
17184	63.100	63.096	-0.110	0.0	0.0	0.0
17208	63.100	63.096	-0.110	0.0	0.0	0.0
17232	63.100	63.096	-0.110	0.0	0.0	0.0
17256	63.100	63.096	-0.110	0.0	0.0	0.0
17280	63.100	63.096	-0.110	0.0	0.0	0.0
17304	63.100	63.096	-0.110	0.0	0.0	0.0
17328	63.100	63.096	-0.110	0.0	0.0	0.0
17352	63.100	63.096	-0.110	0.0	0.0	0.0
17376	63.100	63.096	-0.110	0.0	0.0	0.0
17400	63.100	63.096	-0.110	0.0	0.0	0.0
17424	63.100	63.096	-0.110	0.0	0.0	0.0
17448	63.100	63.096	-0.110	0.0	0.0	0.0
17472	63.100	63.096	-0.110	0.0	0.0	0.0
17496	63.100	63.096	-0.110	0.0	0.0	0.0
17520	63.100	63.096	-0.110	0.0	0.0	0.0
17544	63.100	63.096	-0.110	0.0	0.0	0.0
17568	63.100	63.096	-0.110	0.0	0.0	0.0
17592	63.100	63.096	-0.110	0.0	0.0	0.0
17616	63.100	63.096	-0.110	0.0	0.0	0.0
17640	63.100	63.096	-0.110	0.0	0.0	0.0
17664	63.100	63.096	-0.110	0.0	0.0	0.0
17688	63.100	63.096	-0.110	0.0	0.0	0.0
17712	63.100	63.096	-0.110	0.0	0.0	0.0
17736	63.100	63.096	-0.110	0.0	0.0	0.0
17760	63.100	63.096	-0.110	0.0	0.0	0.0
17784	63.100	63.096	-0.110	0.0	0.0	0.0
17808	63.100	63.096	-0.110	0.0	0.0	0.0
17832	63.100	63.096	-0.110	0.0	0.0	0.0
17856	63.100	63.096	-0.110	0.0	0.0	0.0
17880	63.100	63.096	-0.110	0.0	0.0	0.0
17904	63.100	63.096	-0.110	0.0	0.0	0.0
17928	63.100	63.096	-0.110	0.0	0.0	0.0
17952	63.100	63.096	-0.110	0.0	0.0	0.0
17976	63.100	63.096	-0.110	0.0	0.0	0.0
18000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.100	63.096	-0.110	0.0	0.0	0.0
18048	63.100	63.096	-0.110	0.0	0.0	0.0
18072	63.100	63.096	-0.110	0.0	0.0	0.0
18096	63.100	63.096	-0.110	0.0	0.0	0.0
18120	63.100	63.096	-0.110	0.0	0.0	0.0
18144	63.100	63.096	-0.110	0.0	0.0	0.0
18168	63.100	63.096	-0.110	0.0	0.0	0.0
18192	63.100	63.096	-0.110	0.0	0.0	0.0
18216	63.100	63.096	-0.110	0.0	0.0	0.0
18240	63.100	63.096	-0.110	0.0	0.0	0.0
18264	63.100	63.096	-0.110	0.0	0.0	0.0
18288	63.100	63.096	-0.110	0.0	0.0	0.0
18312	63.100	63.096	-0.110	0.0	0.0	0.0
18336	63.100	63.096	-0.110	0.0	0.0	0.0
18360	63.100	63.096	-0.110	0.0	0.0	0.0
18384	63.100	63.096	-0.110	0.0	0.0	0.0
18408	63.100	63.096	-0.110	0.0	0.0	0.0
18432	63.100	63.096	-0.110	0.0	0.0	0.0
18456	63.100	63.096	-0.110	0.0	0.0	0.0
18480	63.100	63.096	-0.110	0.0	0.0	0.0
18504	63.100	63.096	-0.110	0.0	0.0	0.0
18528	63.100	63.096	-0.110	0.0	0.0	0.0
18552	63.100	63.096	-0.110	0.0	0.0	0.0
18576	63.100	63.096	-0.110	0.0	0.0	0.0
18600	63.100	63.096	-0.110	0.0	0.0	0.0
18624	63.100	63.096	-0.110	0.0	0.0	0.0
18648	63.100	63.096	-0.110	0.0	0.0	0.0
18672	63.100	63.096	-0.110	0.0	0.0	0.0
18696	63.100	63.096	-0.110	0.0	0.0	0.0
18720	63.100	63.096	-0.110	0.0	0.0	0.0
18744	63.100	63.096	-0.110	0.0	0.0	0.0
18768	63.100	63.096	-0.110	0.0	0.0	0.0
18792	63.100	63.096	-0.110	0.0	0.0	0.0
18816	63.100	63.096	-0.110	0.0	0.0	0.0
18840	63.100	63.096	-0.110	0.0	0.0	0.0
18864	63.100	63.096	-0.110	0.0	0.0	0.0
18888	63.100	63.096	-0.110	0.0	0.0	0.0
18912	63.100	63.096	-0.110	0.0	0.0	0.0
18936	63.100	63.096	-0.110	0.0	0.0	0.0
18960	63.100	63.096	-0.110	0.0	0.0	0.0
18984	63.100	63.096	-0.110	0.0	0.0	0.0
19008	63.100	63.096	-0.110	0.0	0.0	0.0
19032	63.100	63.096	-0.110	0.0	0.0	0.0
19056	63.100	63.096	-0.110	0.0	0.0	0.0
19080	63.100	63.096	-0.110	0.0	0.0	0.0
19104	63.100	63.096	-0.110	0.0	0.0	0.0
19128	63.100	63.096	-0.110	0.0	0.0	0.0
19152	63.100	63.096	-0.110	0.0	0.0	0.0
19176	63.100	63.096	-0.110	0.0	0.0	0.0
19200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Summer
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.100	63.096	-0.110	0.0	0.0	0.0
19248	63.100	63.096	-0.110	0.0	0.0	0.0
19272	63.100	63.096	-0.110	0.0	0.0	0.0
19296	63.100	63.096	-0.110	0.0	0.0	0.0
19320	63.100	63.096	-0.110	0.0	0.0	0.0
19344	63.100	63.096	-0.110	0.0	0.0	0.0
19368	63.100	63.096	-0.110	0.0	0.0	0.0
19392	63.100	63.096	-0.110	0.0	0.0	0.0
19416	63.100	63.096	-0.110	0.0	0.0	0.0
19440	63.100	63.096	-0.110	0.0	0.0	0.0
19464	63.100	63.096	-0.110	0.0	0.0	0.0
19488	63.100	63.096	-0.110	0.0	0.0	0.0
19512	63.100	63.096	-0.110	0.0	0.0	0.0
19536	63.100	63.096	-0.110	0.0	0.0	0.0
19560	63.100	63.096	-0.110	0.0	0.0	0.0
19584	63.100	63.096	-0.110	0.0	0.0	0.0
19608	63.100	63.096	-0.110	0.0	0.0	0.0
19632	63.100	63.096	-0.110	0.0	0.0	0.0
19656	63.100	63.096	-0.110	0.0	0.0	0.0
19680	63.100	63.096	-0.110	0.0	0.0	0.0
19704	63.100	63.096	-0.110	0.0	0.0	0.0
19728	63.100	63.096	-0.110	0.0	0.0	0.0
19752	63.100	63.096	-0.110	0.0	0.0	0.0
19776	63.100	63.096	-0.110	0.0	0.0	0.0
19800	63.100	63.096	-0.110	0.0	0.0	0.0
19824	63.100	63.096	-0.110	0.0	0.0	0.0
19848	63.100	63.096	-0.110	0.0	0.0	0.0
19872	63.100	63.096	-0.110	0.0	0.0	0.0
19896	63.100	63.096	-0.110	0.0	0.0	0.0
19920	63.100	63.096	-0.110	0.0	0.0	0.0
19944	63.100	63.096	-0.110	0.0	0.0	0.0
19968	63.100	63.096	-0.110	0.0	0.0	0.0
19992	63.100	63.096	-0.110	0.0	0.0	0.0
20016	63.100	63.096	-0.110	0.0	0.0	0.0
20040	63.100	63.096	-0.110	0.0	0.0	0.0
20064	63.100	63.096	-0.110	0.0	0.0	0.0
20088	63.100	63.096	-0.110	0.0	0.0	0.0
20112	63.100	63.096	-0.110	0.0	0.0	0.0
20136	63.100	63.096	-0.110	0.0	0.0	0.0
20160	63.100	63.096	-0.110	0.0	0.0	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.850	0.750	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.850	63.100	0.640	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.850	63.240	0.500	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.004	Dummy	63.800	63.085	63.100	600	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	20160
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	10080
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m)	Flow (l/s)
0.750	0.0400

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Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	32.0	32.0	0.500	0.0	46.4
0.400	32.0	46.4			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 8.5
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 10080 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.401	-0.109	0.000	0.00	0.0	0.0	OK
1.001	S1	63.499	-0.105	0.000	0.01	0.0	0.1	OK
2.000	RE2	65.401	-0.109	0.000	0.00	0.0	0.0	OK
2.001	S2	65.001	-0.109	0.000	0.00	0.0	0.1	OK
1.002	S3	63.456	-0.098	0.000	0.02	0.0	0.1	OK
1.003	S4	63.454	0.094	0.000	0.02	0.0	0.1	SURCHARGED
1.004	RAIN GARDEN	63.402	0.192	0.000	0.00	0.0	0.0	SURCHARGED

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Rainfall Hyetograph for 10080 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
24	0.027	1296	0.370	2568	0.537	3840	1.343	5112	2.097
48	0.027	1320	0.369	2592	0.537	3864	1.393	5136	2.097
72	0.027	1344	0.369	2616	0.537	3888	1.393	5160	2.074
96	0.027	1368	0.369	2640	0.570	3912	1.393	5184	2.068
120	0.091	1392	0.369	2664	0.578	3936	1.409	5208	2.068
144	0.106	1416	0.369	2688	0.578	3960	1.475	5232	2.068
168	0.106	1440	0.368	2712	0.578	3984	1.475	5256	2.044
192	0.106	1464	0.368	2736	0.606	4008	1.475	5280	2.028
216	0.146	1488	0.368	2760	0.624	4032	1.475	5304	2.028
240	0.172	1512	0.368	2784	0.624	4056	1.557	5328	2.028
264	0.172	1536	0.369	2808	0.624	4080	1.557	5352	2.009
288	0.172	1560	0.369	2832	0.645	4104	1.557	5376	1.980
312	0.193	1584	0.369	2856	0.675	4128	1.557	5400	1.980
336	0.225	1608	0.369	2880	0.675	4152	1.621	5424	1.980
360	0.225	1632	0.370	2904	0.675	4176	1.637	5448	1.968
384	0.225	1656	0.371	2928	0.686	4200	1.637	5472	1.923
408	0.234	1680	0.371	2952	0.731	4224	1.637	5496	1.923
432	0.268	1704	0.371	2976	0.731	4248	1.684	5520	1.923
456	0.268	1728	0.373	3000	0.731	4272	1.715	5544	1.923
480	0.268	1752	0.375	3024	0.731	4296	1.715	5568	1.859
504	0.268	1776	0.375	3048	0.791	4320	1.715	5592	1.859
528	0.301	1800	0.375	3072	0.791	4344	1.745	5616	1.859
552	0.301	1824	0.377	3096	0.791	4368	1.789	5640	1.859
576	0.301	1848	0.381	3120	0.791	4392	1.789	5664	1.803
600	0.301	1872	0.381	3144	0.842	4416	1.789	5688	1.789
624	0.320	1896	0.381	3168	0.855	4440	1.803	5712	1.789
648	0.325	1920	0.383	3192	0.855	4464	1.859	5736	1.789
672	0.325	1944	0.391	3216	0.855	4488	1.859	5760	1.745
696	0.325	1968	0.391	3240	0.896	4512	1.859	5784	1.715
720	0.336	1992	0.391	3264	0.923	4536	1.859	5808	1.715
744	0.343	2016	0.391	3288	0.923	4560	1.923	5832	1.715
768	0.343	2040	0.405	3312	0.923	4584	1.923	5856	1.684
792	0.343	2064	0.405	3336	0.952	4608	1.923	5880	1.637
816	0.348	2088	0.405	3360	0.996	4632	1.923	5904	1.637
840	0.356	2112	0.405	3384	0.996	4656	1.968	5928	1.637
864	0.356	2136	0.419	3408	0.996	4680	1.980	5952	1.621
888	0.356	2160	0.422	3432	1.011	4704	1.980	5976	1.557
912	0.357	2184	0.422	3456	1.071	4728	1.980	6000	1.557
936	0.364	2208	0.422	3480	1.071	4752	2.009	6024	1.557
960	0.364	2232	0.435	3504	1.071	4776	2.028	6048	1.557
984	0.364	2256	0.444	3528	1.071	4800	2.028	6072	1.475
1008	0.364	2280	0.444	3552	1.149	4824	2.028	6096	1.475
1032	0.368	2304	0.444	3576	1.149	4848	2.044	6120	1.475
1056	0.368	2328	0.454	3600	1.149	4872	2.068	6144	1.475
1080	0.368	2352	0.470	3624	1.149	4896	2.068	6168	1.409
1104	0.368	2376	0.470	3648	1.213	4920	2.068	6192	1.393
1128	0.369	2400	0.470	3672	1.229	4944	2.074	6216	1.393
1152	0.369	2424	0.477	3696	1.229	4968	2.097	6240	1.393
1176	0.369	2448	0.501	3720	1.229	4992	2.097	6264	1.343
1200	0.369	2472	0.501	3744	1.278	5016	2.097	6288	1.310
1224	0.370	2496	0.501	3768	1.310	5040	2.097	6312	1.310
1248	0.370	2520	0.501	3792	1.310	5064	2.097	6336	1.310
1272	0.370	2544	0.537	3816	1.310	5088	2.097	6360	1.278

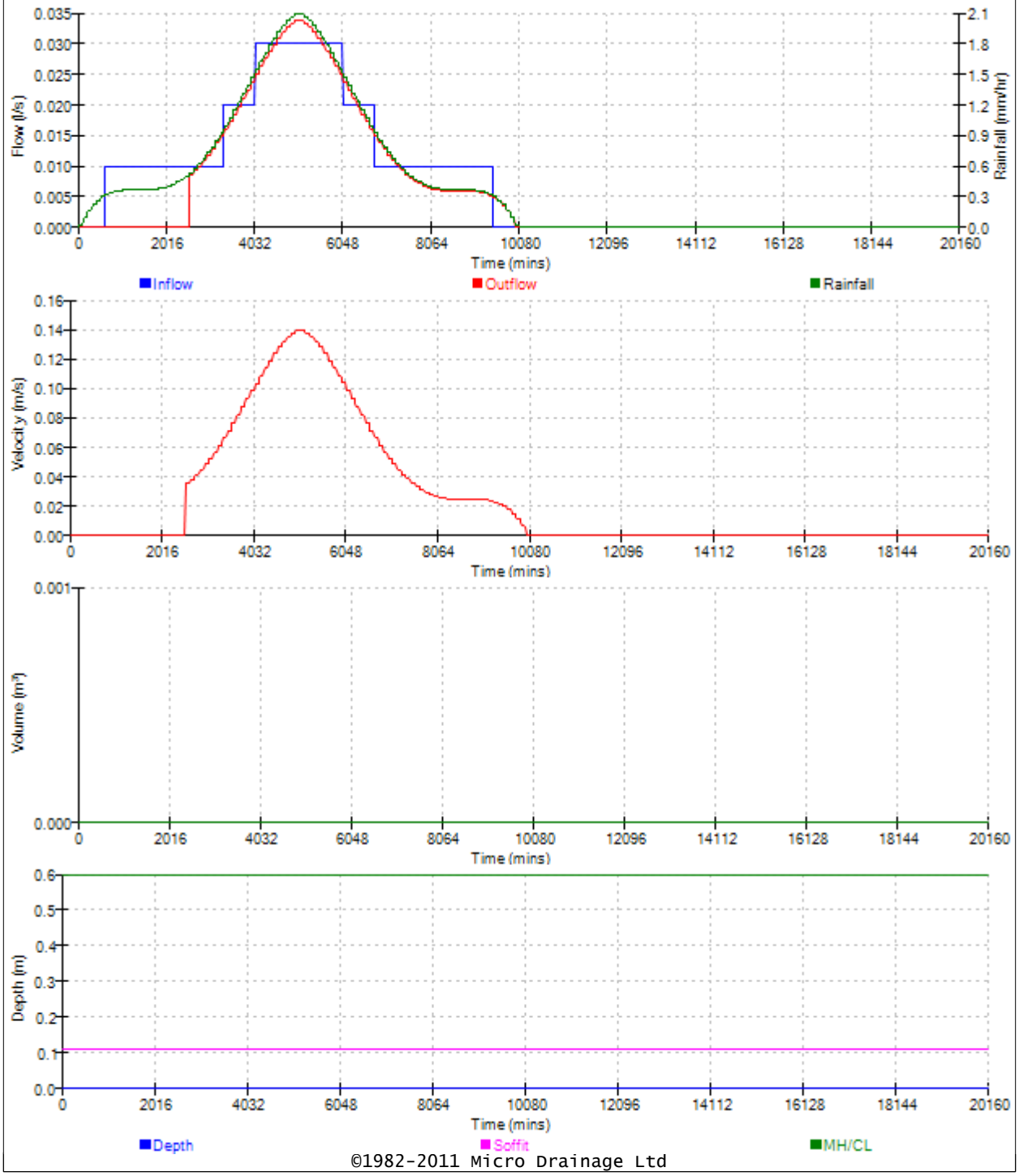
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Rainfall Hyetograph for 10080 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6384	1.229	7128	0.731	7872	0.435	8616	0.368	9360	0.343
6408	1.229	7152	0.731	7896	0.422	8640	0.368	9384	0.336
6432	1.229	7176	0.686	7920	0.422	8664	0.368	9408	0.325
6456	1.213	7200	0.675	7944	0.422	8688	0.369	9432	0.325
6480	1.149	7224	0.675	7968	0.419	8712	0.369	9456	0.325
6504	1.149	7248	0.675	7992	0.405	8736	0.369	9480	0.320
6528	1.149	7272	0.645	8016	0.405	8760	0.369	9504	0.301
6552	1.149	7296	0.624	8040	0.405	8784	0.369	9528	0.301
6576	1.071	7320	0.624	8064	0.405	8808	0.370	9552	0.301
6600	1.071	7344	0.624	8088	0.391	8832	0.370	9576	0.301
6624	1.071	7368	0.606	8112	0.391	8856	0.370	9600	0.268
6648	1.071	7392	0.578	8136	0.391	8880	0.370	9624	0.268
6672	1.011	7416	0.578	8160	0.391	8904	0.369	9648	0.268
6696	0.996	7440	0.578	8184	0.383	8928	0.369	9672	0.268
6720	0.996	7464	0.570	8208	0.381	8952	0.369	9696	0.234
6744	0.996	7488	0.537	8232	0.381	8976	0.369	9720	0.225
6768	0.952	7512	0.537	8256	0.381	9000	0.368	9744	0.225
6792	0.923	7536	0.537	8280	0.377	9024	0.368	9768	0.225
6816	0.923	7560	0.537	8304	0.375	9048	0.368	9792	0.193
6840	0.923	7584	0.501	8328	0.375	9072	0.368	9816	0.172
6864	0.896	7608	0.501	8352	0.375	9096	0.364	9840	0.172
6888	0.855	7632	0.501	8376	0.373	9120	0.364	9864	0.172
6912	0.855	7656	0.501	8400	0.371	9144	0.364	9888	0.146
6936	0.855	7680	0.477	8424	0.371	9168	0.364	9912	0.106
6960	0.842	7704	0.470	8448	0.371	9192	0.357	9936	0.106
6984	0.791	7728	0.470	8472	0.370	9216	0.356	9960	0.106
7008	0.791	7752	0.470	8496	0.369	9240	0.356	9984	0.091
7032	0.791	7776	0.454	8520	0.369	9264	0.356	10008	0.027
7056	0.791	7800	0.444	8544	0.369	9288	0.348	10032	0.027
7080	0.731	7824	0.444	8568	0.369	9312	0.343	10056	0.027
7104	0.731	7848	0.444	8592	0.368	9336	0.343	10080	0.027

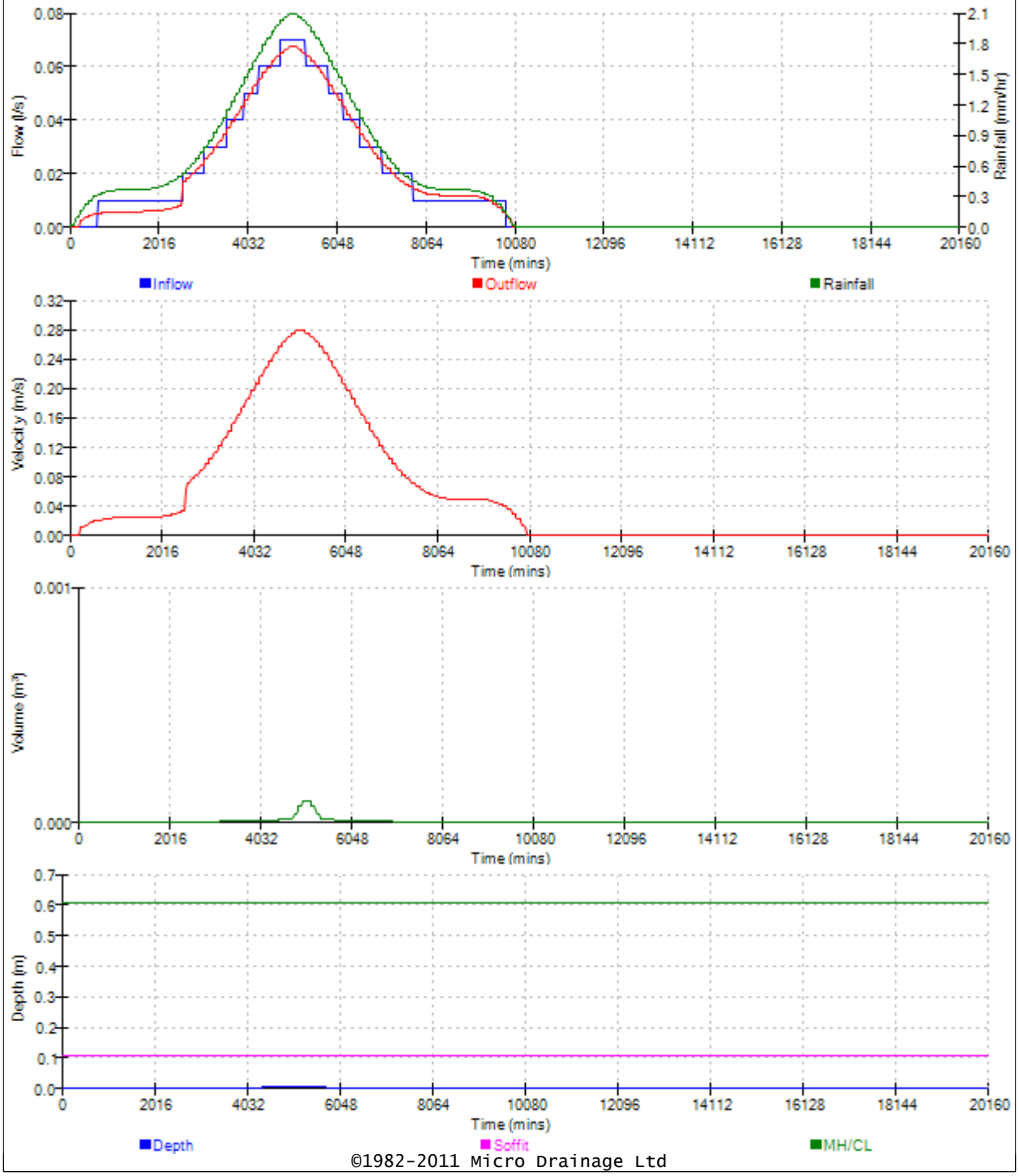
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Status: OK



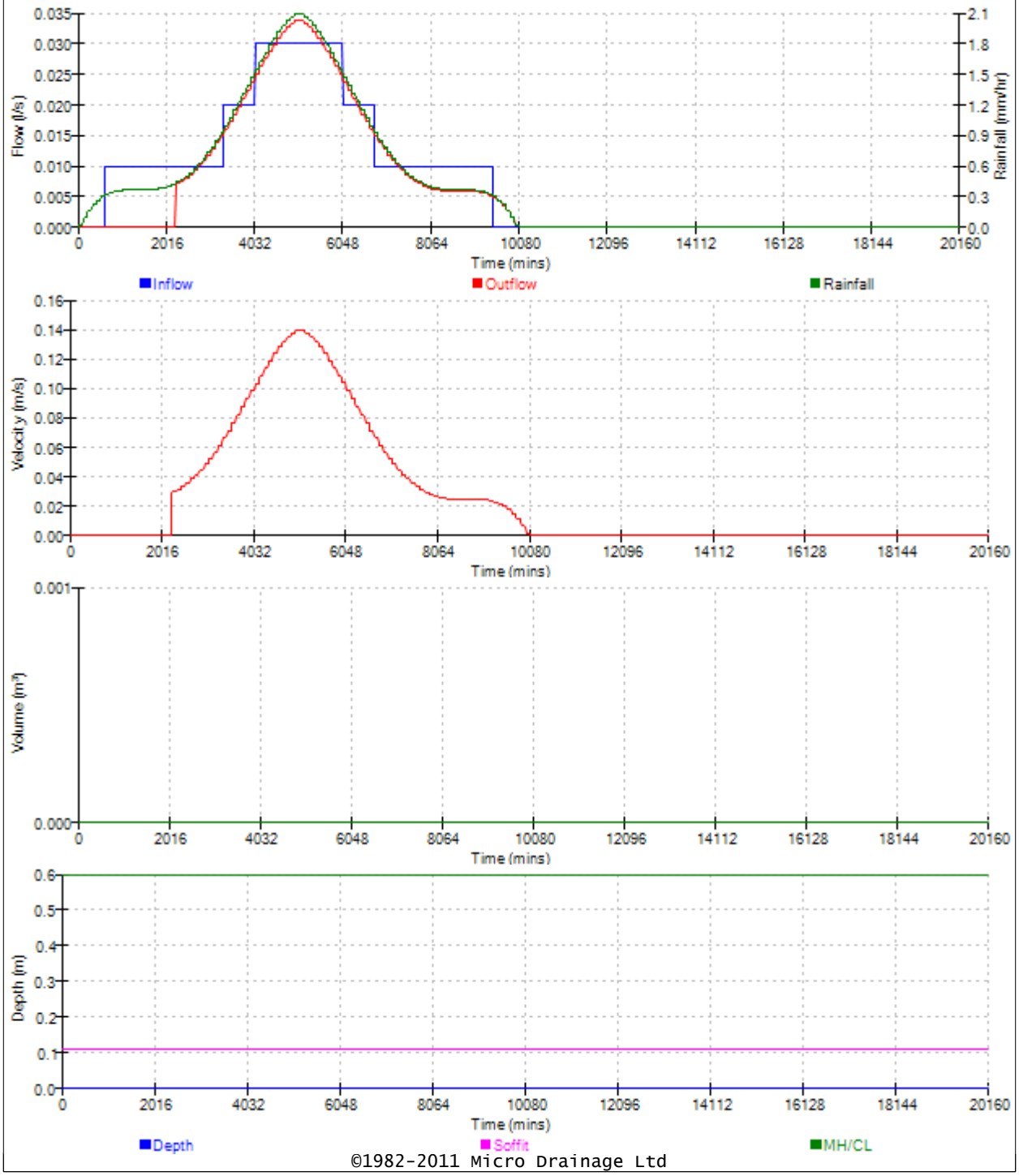
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Graphs for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Status: OK



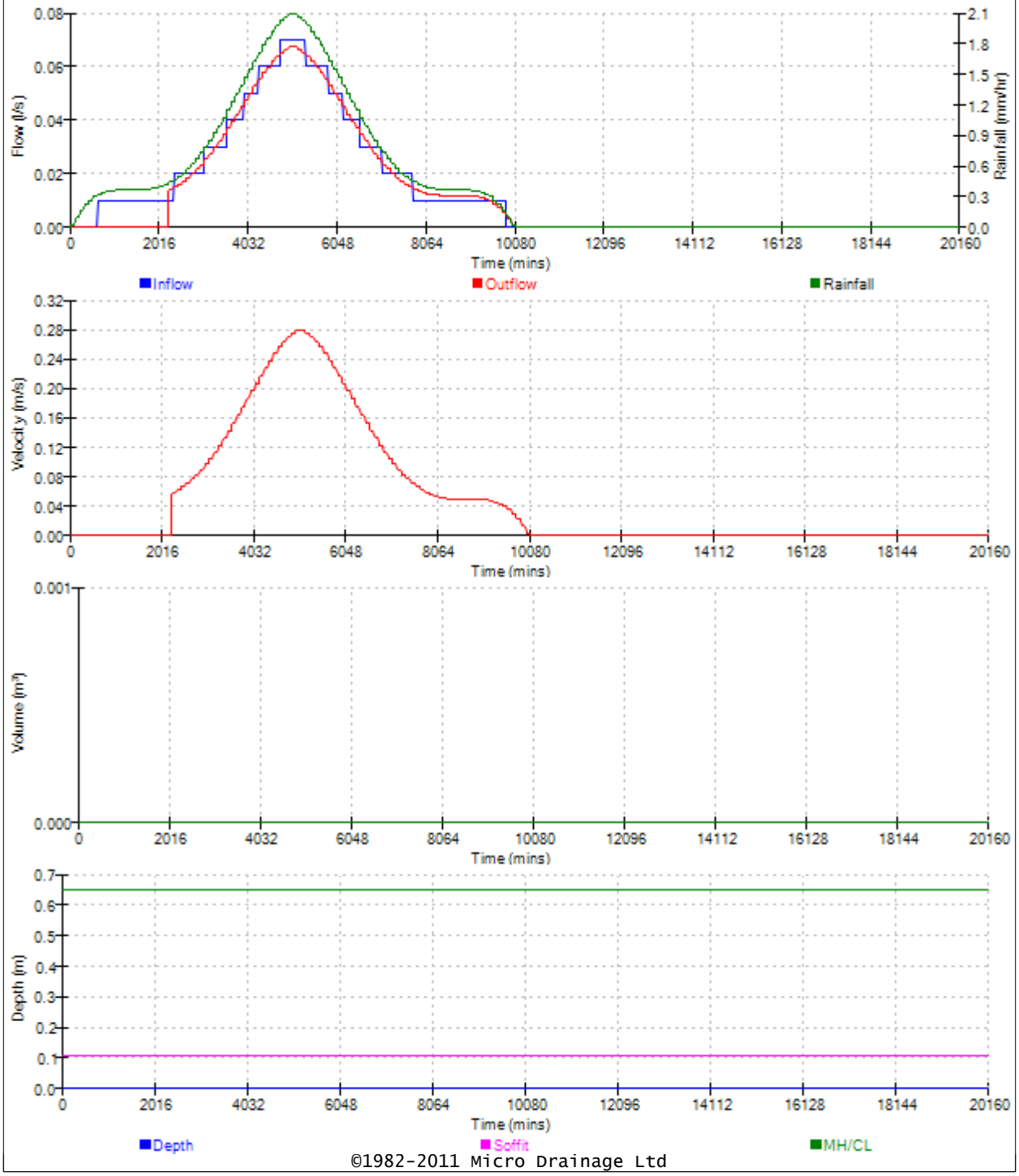
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Status: OK



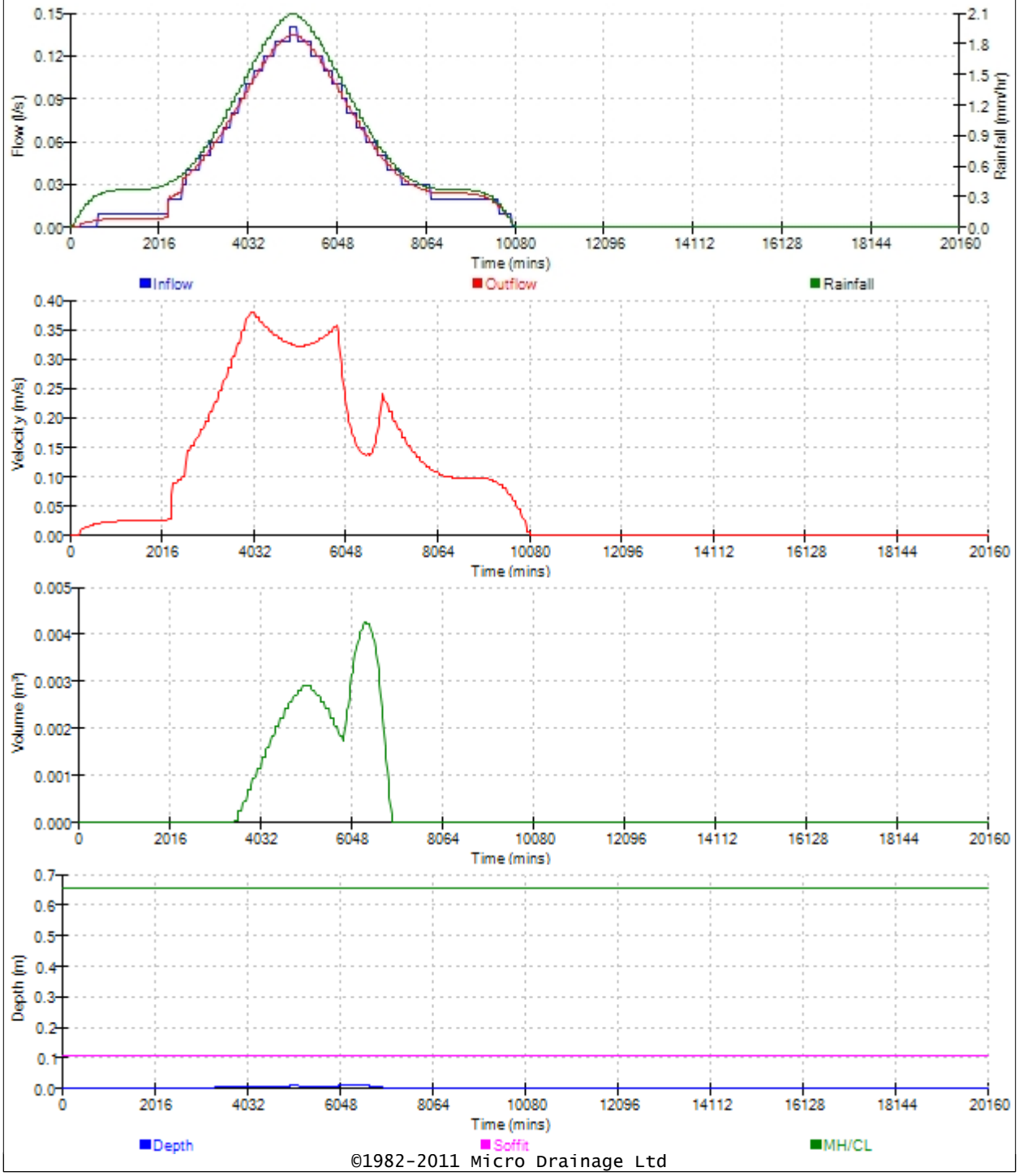
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Graphs for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Status: OK



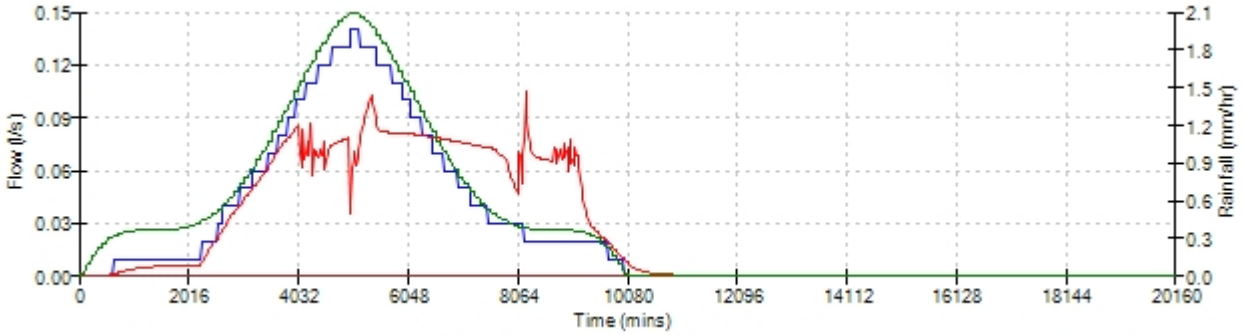
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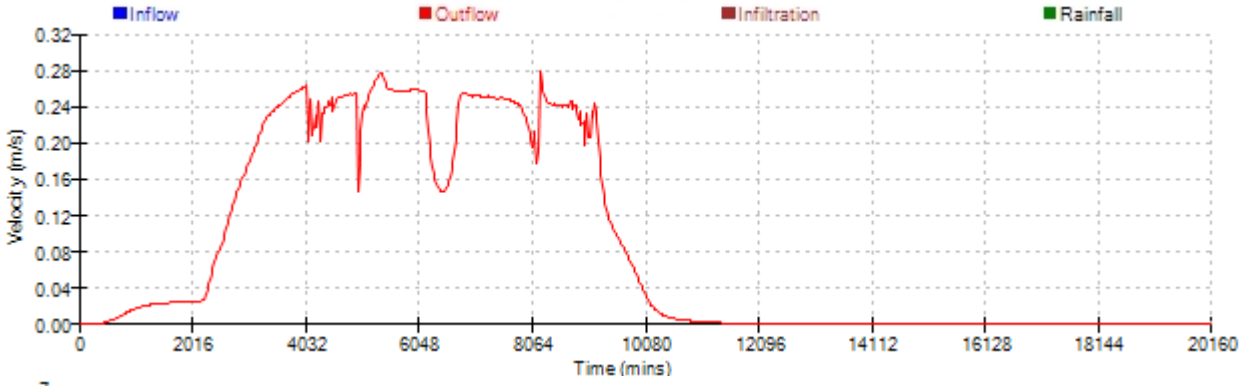
Graphs for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Status: OK

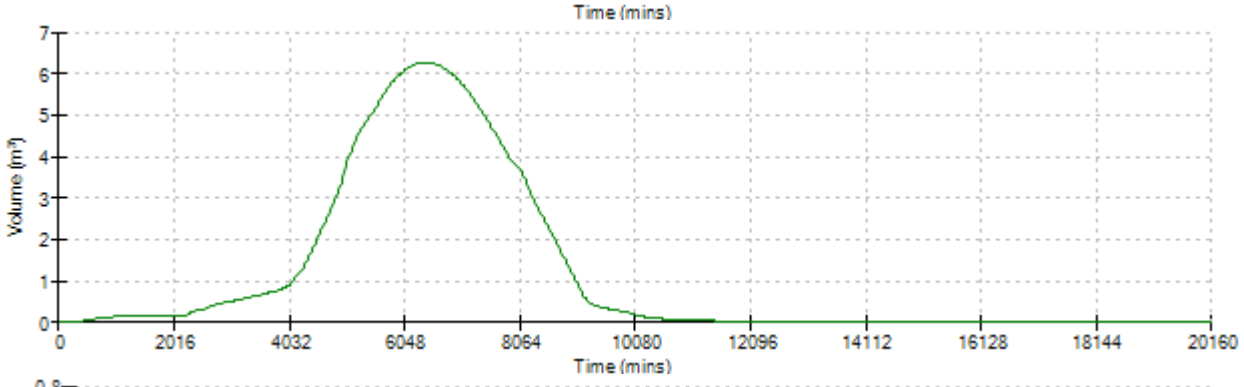


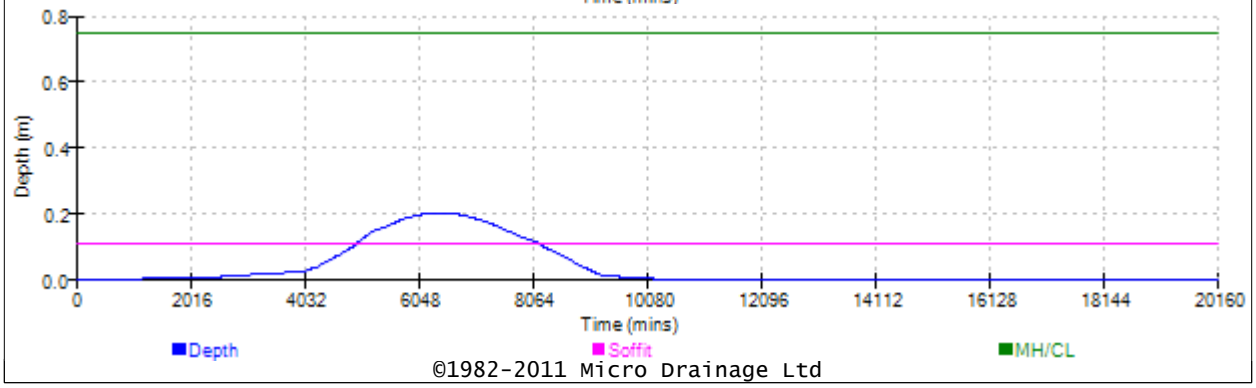
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Graphs for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Status: SURCHARGED



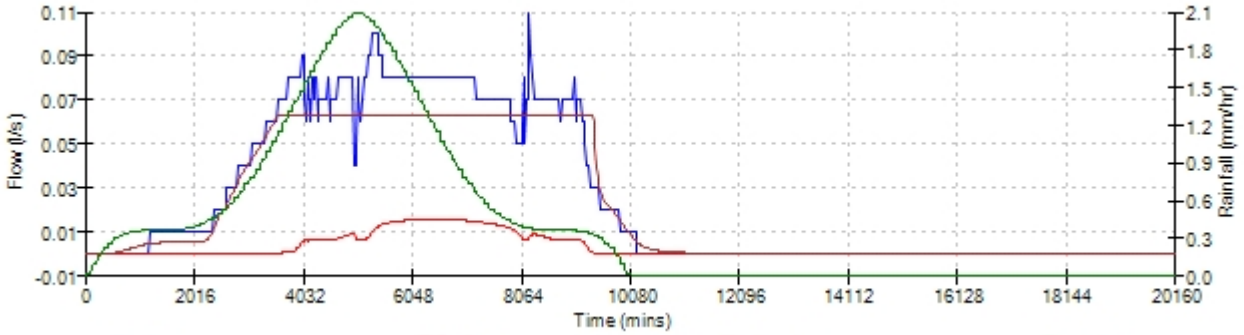


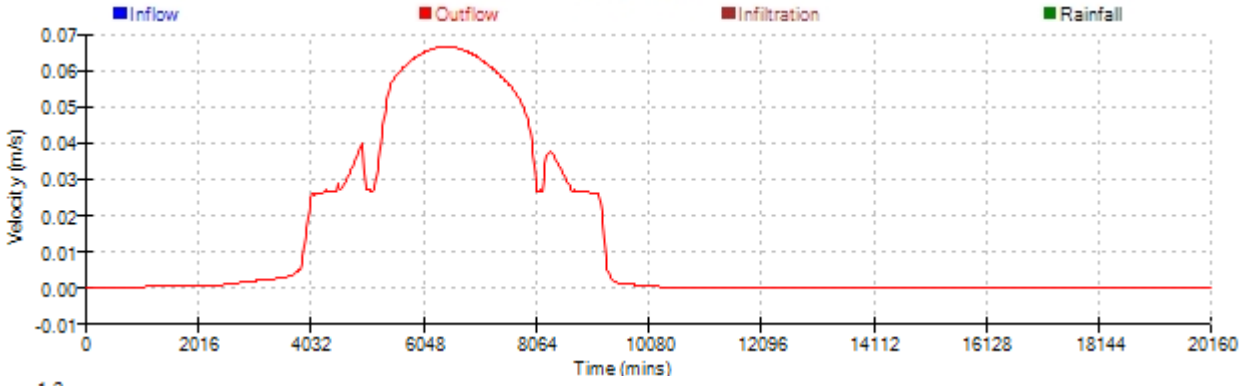


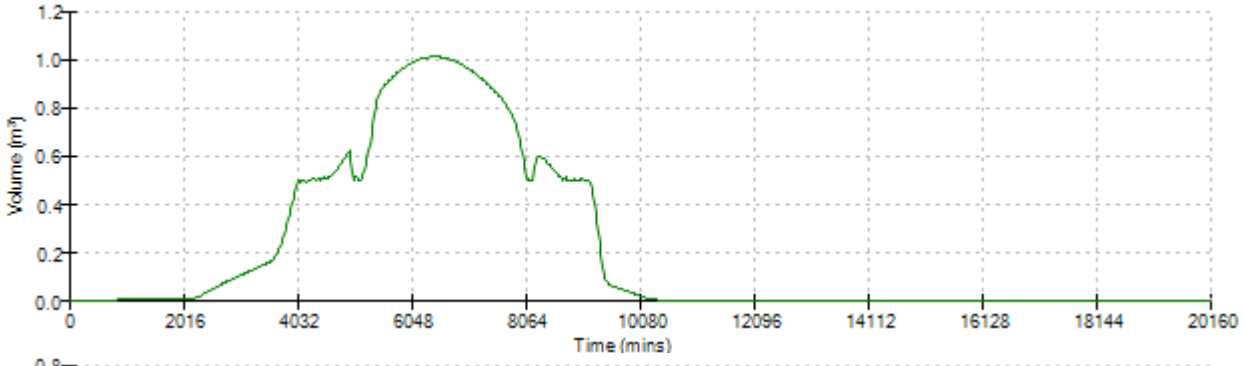


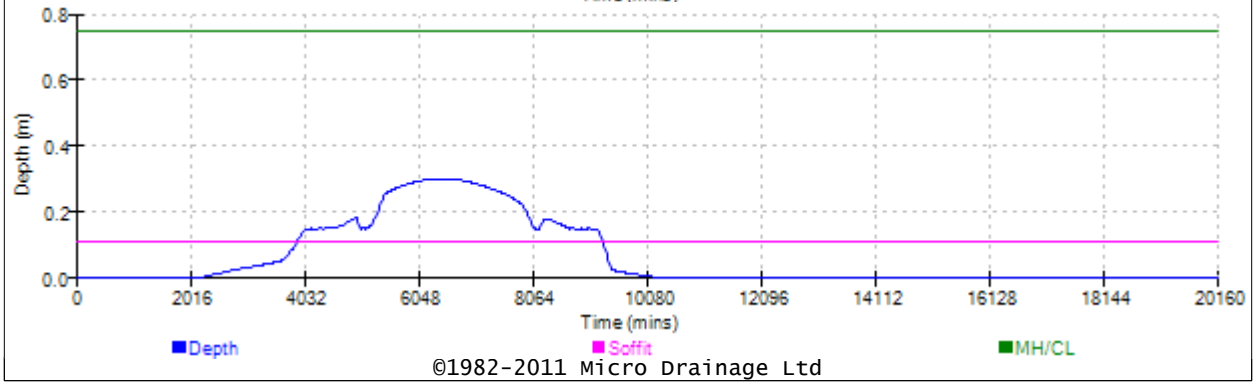
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Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Status: SURCHARGED









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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
72	65.400	63.494	-0.110	0.0	0.0	0.0
96	65.400	63.494	-0.110	0.0	0.0	0.0
120	65.400	63.494	-0.110	0.0	0.0	0.0
144	65.400	63.494	-0.110	0.0	0.0	0.0
168	65.400	63.494	-0.110	0.0	0.0	0.0
192	65.400	63.494	-0.110	0.0	0.0	0.0
216	65.400	63.494	-0.110	0.0	0.0	0.0
240	65.400	63.494	-0.110	0.0	0.0	0.0
264	65.400	63.494	-0.110	0.0	0.0	0.0
288	65.400	63.494	-0.110	0.0	0.0	0.0
312	65.400	63.494	-0.110	0.0	0.0	0.0
336	65.400	63.494	-0.110	0.0	0.0	0.0
360	65.400	63.494	-0.110	0.0	0.0	0.0
384	65.400	63.494	-0.110	0.0	0.0	0.0
408	65.400	63.494	-0.110	0.0	0.0	0.0
432	65.400	63.494	-0.110	0.0	0.0	0.0
456	65.400	63.494	-0.110	0.0	0.0	0.0
480	65.400	63.494	-0.110	0.0	0.0	0.0
504	65.400	63.494	-0.110	0.0	0.0	0.0
528	65.400	63.494	-0.110	0.0	0.0	0.0
552	65.400	63.494	-0.110	0.0	0.0	0.0
576	65.400	63.494	-0.110	0.0	0.0	0.0
600	65.400	63.494	-0.110	0.0	0.0	0.0
624	65.400	63.495	-0.110	0.0	0.0	0.0
648	65.400	63.495	-0.110	0.0	0.0	0.0
672	65.400	63.495	-0.110	0.0	0.0	0.0
696	65.400	63.495	-0.110	0.0	0.0	0.0
720	65.400	63.495	-0.110	0.0	0.0	0.0
744	65.400	63.495	-0.110	0.0	0.0	0.0
768	65.400	63.495	-0.110	0.0	0.0	0.0
792	65.400	63.495	-0.110	0.0	0.0	0.0
816	65.400	63.495	-0.110	0.0	0.0	0.0
840	65.400	63.495	-0.110	0.0	0.0	0.0
864	65.400	63.495	-0.110	0.0	0.0	0.0
888	65.400	63.495	-0.110	0.0	0.0	0.0
912	65.400	63.495	-0.110	0.0	0.0	0.0
936	65.400	63.495	-0.110	0.0	0.0	0.0
960	65.400	63.495	-0.110	0.0	0.0	0.0
984	65.400	63.495	-0.110	0.0	0.0	0.0
1008	65.400	63.495	-0.110	0.0	0.0	0.0
1032	65.400	63.495	-0.110	0.0	0.0	0.0
1056	65.400	63.495	-0.110	0.0	0.0	0.0
1080	65.400	63.495	-0.110	0.0	0.0	0.0
1104	65.400	63.495	-0.110	0.0	0.0	0.0
1128	65.400	63.495	-0.110	0.0	0.0	0.0
1152	65.400	63.495	-0.110	0.0	0.0	0.0
1176	65.400	63.495	-0.110	0.0	0.0	0.0
1200	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	63.495	-0.110	0.0	0.0	0.0
1248	65.400	63.495	-0.110	0.0	0.0	0.0
1272	65.400	63.495	-0.110	0.0	0.0	0.0
1296	65.400	63.495	-0.110	0.0	0.0	0.0
1320	65.400	63.495	-0.110	0.0	0.0	0.0
1344	65.400	63.495	-0.110	0.0	0.0	0.0
1368	65.400	63.495	-0.110	0.0	0.0	0.0
1392	65.400	63.495	-0.110	0.0	0.0	0.0
1416	65.400	63.495	-0.110	0.0	0.0	0.0
1440	65.400	63.495	-0.110	0.0	0.0	0.0
1464	65.400	63.495	-0.110	0.0	0.0	0.0
1488	65.400	63.495	-0.110	0.0	0.0	0.0
1512	65.400	63.495	-0.110	0.0	0.0	0.0
1536	65.400	63.495	-0.110	0.0	0.0	0.0
1560	65.400	63.495	-0.110	0.0	0.0	0.0
1584	65.400	63.495	-0.110	0.0	0.0	0.0
1608	65.400	63.495	-0.110	0.0	0.0	0.0
1632	65.400	63.495	-0.110	0.0	0.0	0.0
1656	65.400	63.495	-0.110	0.0	0.0	0.0
1680	65.400	63.495	-0.110	0.0	0.0	0.0
1704	65.400	63.495	-0.110	0.0	0.0	0.0
1728	65.400	63.495	-0.110	0.0	0.0	0.0
1752	65.400	63.495	-0.110	0.0	0.0	0.0
1776	65.400	63.495	-0.110	0.0	0.0	0.0
1800	65.400	63.495	-0.110	0.0	0.0	0.0
1824	65.400	63.495	-0.110	0.0	0.0	0.0
1848	65.400	63.495	-0.110	0.0	0.0	0.0
1872	65.400	63.495	-0.110	0.0	0.0	0.0
1896	65.400	63.495	-0.110	0.0	0.0	0.0
1920	65.400	63.495	-0.110	0.0	0.0	0.0
1944	65.400	63.495	-0.110	0.0	0.0	0.0
1968	65.400	63.495	-0.110	0.0	0.0	0.0
1992	65.400	63.495	-0.110	0.0	0.0	0.0
2016	65.400	63.495	-0.110	0.0	0.0	0.0
2040	65.400	63.495	-0.110	0.0	0.0	0.0
2064	65.400	63.495	-0.110	0.0	0.0	0.0
2088	65.400	63.495	-0.110	0.0	0.0	0.0
2112	65.400	63.495	-0.110	0.0	0.0	0.0
2136	65.400	63.495	-0.110	0.0	0.0	0.0
2160	65.400	63.495	-0.110	0.0	0.0	0.0
2184	65.400	63.495	-0.110	0.0	0.0	0.0
2208	65.400	63.495	-0.110	0.0	0.0	0.0
2232	65.400	63.495	-0.110	0.0	0.0	0.0
2256	65.400	63.495	-0.110	0.0	0.0	0.0
2280	65.400	63.495	-0.110	0.0	0.0	0.0
2304	65.400	63.495	-0.110	0.0	0.0	0.0
2328	65.400	63.495	-0.110	0.0	0.0	0.0
2352	65.400	63.495	-0.110	0.0	0.0	0.0
2376	65.400	63.495	-0.110	0.0	0.0	0.0
2400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	63.495	-0.110	0.0	0.0	0.0
2448	65.400	63.495	-0.110	0.0	0.0	0.0
2472	65.400	63.495	-0.110	0.0	0.0	0.0
2496	65.400	63.495	-0.110	0.0	0.0	0.0
2520	65.400	63.495	-0.110	0.0	0.0	0.0
2544	65.400	63.495	-0.110	0.0	0.0	0.0
2568	65.400	63.495	-0.110	0.0	0.0	0.0
2592	65.400	63.496	-0.110	0.0	0.0	0.0
2616	65.400	63.495	-0.110	0.0	0.0	0.0
2640	65.400	63.496	-0.110	0.0	0.0	0.0
2664	65.400	63.496	-0.110	0.0	0.0	0.0
2688	65.400	63.496	-0.110	0.0	0.0	0.0
2712	65.400	63.496	-0.110	0.0	0.0	0.0
2736	65.400	63.496	-0.110	0.0	0.0	0.0
2760	65.400	63.496	-0.110	0.0	0.0	0.0
2784	65.400	63.496	-0.110	0.0	0.0	0.0
2808	65.400	63.496	-0.110	0.0	0.0	0.0
2832	65.400	63.496	-0.110	0.0	0.0	0.0
2856	65.400	63.496	-0.110	0.0	0.0	0.0
2880	65.400	63.496	-0.110	0.0	0.0	0.0
2904	65.400	63.496	-0.110	0.0	0.0	0.0
2928	65.400	63.496	-0.110	0.0	0.0	0.0
2952	65.400	63.496	-0.110	0.0	0.0	0.0
2976	65.400	63.496	-0.110	0.0	0.0	0.0
3000	65.400	63.496	-0.110	0.0	0.0	0.0
3024	65.400	63.496	-0.110	0.0	0.0	0.0
3048	65.400	63.496	-0.110	0.0	0.1	0.0
3072	65.400	63.496	-0.110	0.0	0.1	0.0
3096	65.400	63.496	-0.110	0.0	0.1	0.0
3120	65.400	63.496	-0.110	0.0	0.1	0.0
3144	65.400	63.496	-0.110	0.0	0.1	0.0
3168	65.400	63.496	-0.110	0.0	0.1	0.0
3192	65.400	63.496	-0.110	0.0	0.1	0.0
3216	65.400	63.496	-0.110	0.0	0.1	0.0
3240	65.400	63.496	-0.110	0.0	0.1	0.0
3264	65.400	63.496	-0.110	0.0	0.1	0.0
3288	65.400	63.496	-0.110	0.0	0.1	0.0
3312	65.400	63.496	-0.110	0.0	0.1	0.0
3336	65.400	63.496	-0.110	0.0	0.1	0.0
3360	65.400	63.497	-0.110	0.0	0.1	0.0
3384	65.400	63.497	-0.110	0.0	0.1	0.0
3408	65.400	63.497	-0.110	0.0	0.1	0.0
3432	65.400	63.497	-0.110	0.0	0.1	0.0
3456	65.400	63.497	-0.110	0.0	0.1	0.0
3480	65.400	63.497	-0.110	0.0	0.1	0.0
3504	65.400	63.497	-0.110	0.0	0.1	0.0
3528	65.400	63.497	-0.110	0.0	0.1	0.0
3552	65.400	63.497	-0.110	0.0	0.1	0.0
3576	65.400	63.497	-0.110	0.0	0.1	0.0
3600	65.400	63.497	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	63.497	-0.110	0.0	0.1	0.0
3648	65.400	63.497	-0.110	0.0	0.1	0.0
3672	65.400	63.497	-0.110	0.0	0.1	0.0
3696	65.400	63.497	-0.110	0.0	0.1	0.0
3720	65.400	63.497	-0.110	0.0	0.1	0.0
3744	65.400	63.497	-0.110	0.0	0.1	0.0
3768	65.400	63.497	-0.110	0.0	0.1	0.0
3792	65.400	63.497	-0.110	0.0	0.1	0.0
3816	65.400	63.497	-0.110	0.0	0.1	0.0
3840	65.400	63.497	-0.110	0.0	0.1	0.0
3864	65.400	63.498	-0.110	0.0	0.1	0.0
3888	65.400	63.498	-0.110	0.0	0.1	0.0
3912	65.400	63.498	-0.110	0.0	0.1	0.0
3936	65.400	63.498	-0.110	0.0	0.1	0.0
3960	65.400	63.498	-0.110	0.0	0.1	0.0
3984	65.400	63.498	-0.110	0.0	0.1	0.0
4008	65.400	63.498	-0.110	0.0	0.1	0.0
4032	65.400	63.498	-0.110	0.0	0.1	0.0
4056	65.401	63.498	-0.109	0.0	0.1	0.0
4080	65.401	63.498	-0.109	0.0	0.1	0.0
4104	65.401	63.498	-0.109	0.0	0.1	0.0
4128	65.401	63.498	-0.109	0.0	0.1	0.0
4152	65.401	63.498	-0.109	0.0	0.1	0.0
4176	65.401	63.498	-0.109	0.0	0.1	0.0
4200	65.401	63.498	-0.109	0.0	0.1	0.0
4224	65.401	63.498	-0.109	0.0	0.1	0.0
4248	65.401	63.498	-0.109	0.0	0.1	0.0
4272	65.401	63.498	-0.109	0.0	0.1	0.0
4296	65.401	63.498	-0.109	0.0	0.1	0.0
4320	65.401	63.498	-0.109	0.0	0.1	0.0
4344	65.401	63.498	-0.109	0.0	0.1	0.0
4368	65.401	63.499	-0.109	0.0	0.1	0.0
4392	65.401	63.499	-0.109	0.0	0.1	0.0
4416	65.401	63.499	-0.109	0.0	0.1	0.0
4440	65.401	63.499	-0.109	0.0	0.1	0.0
4464	65.401	63.499	-0.109	0.0	0.1	0.0
4488	65.401	63.499	-0.109	0.0	0.1	0.0
4512	65.401	63.499	-0.109	0.0	0.1	0.0
4536	65.401	63.499	-0.109	0.0	0.1	0.0
4560	65.401	63.499	-0.109	0.0	0.1	0.0
4584	65.401	63.499	-0.109	0.0	0.1	0.0
4608	65.401	63.499	-0.109	0.0	0.1	0.0
4632	65.401	63.499	-0.109	0.0	0.1	0.0
4656	65.401	63.499	-0.109	0.0	0.1	0.0
4680	65.401	63.499	-0.109	0.0	0.1	0.0
4704	65.401	63.499	-0.109	0.0	0.1	0.0
4728	65.401	63.499	-0.109	0.0	0.1	0.0
4752	65.401	63.499	-0.109	0.0	0.1	0.0
4776	65.401	63.499	-0.109	0.0	0.1	0.0
4800	65.401	63.499	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	63.499	-0.109	0.0	0.1	0.0
4848	65.401	63.499	-0.109	0.0	0.1	0.0
4872	65.401	63.499	-0.109	0.0	0.1	0.0
4896	65.401	63.499	-0.109	0.0	0.1	0.0
4920	65.401	63.499	-0.109	0.0	0.1	0.0
4944	65.401	63.499	-0.109	0.0	0.1	0.0
4968	65.401	63.499	-0.109	0.0	0.1	0.0
4992	65.401	63.499	-0.109	0.0	0.1	0.0
5016	65.401	63.499	-0.109	0.0	0.1	0.0
5040	65.401	63.499	-0.109	0.0	0.1	0.0
5064	65.401	63.499	-0.109	0.0	0.1	0.0
5088	65.401	63.499	-0.109	0.0	0.1	0.0
5112	65.401	63.499	-0.109	0.0	0.1	0.0
5136	65.401	63.499	-0.109	0.0	0.1	0.0
5160	65.401	63.499	-0.109	0.0	0.1	0.0
5184	65.401	63.499	-0.109	0.0	0.1	0.0
5208	65.401	63.499	-0.109	0.0	0.1	0.0
5232	65.401	63.499	-0.109	0.0	0.1	0.0
5256	65.401	63.499	-0.109	0.0	0.1	0.0
5280	65.401	63.499	-0.109	0.0	0.1	0.0
5304	65.401	63.499	-0.109	0.0	0.1	0.0
5328	65.401	63.499	-0.109	0.0	0.1	0.0
5352	65.401	63.499	-0.109	0.0	0.1	0.0
5376	65.401	63.499	-0.109	0.0	0.1	0.0
5400	65.401	63.499	-0.109	0.0	0.1	0.0
5424	65.401	63.499	-0.109	0.0	0.1	0.0
5448	65.401	63.499	-0.109	0.0	0.1	0.0
5472	65.401	63.499	-0.109	0.0	0.1	0.0
5496	65.401	63.499	-0.109	0.0	0.1	0.0
5520	65.401	63.499	-0.109	0.0	0.1	0.0
5544	65.401	63.499	-0.109	0.0	0.1	0.0
5568	65.401	63.499	-0.109	0.0	0.1	0.0
5592	65.401	63.499	-0.109	0.0	0.1	0.0
5616	65.401	63.499	-0.109	0.0	0.1	0.0
5640	65.401	63.499	-0.109	0.0	0.1	0.0
5664	65.401	63.499	-0.109	0.0	0.1	0.0
5688	65.401	63.499	-0.109	0.0	0.1	0.0
5712	65.401	63.499	-0.109	0.0	0.1	0.0
5736	65.401	63.499	-0.109	0.0	0.1	0.0
5760	65.401	63.498	-0.109	0.0	0.1	0.0
5784	65.401	63.498	-0.109	0.0	0.1	0.0
5808	65.401	63.498	-0.109	0.0	0.1	0.0
5832	65.401	63.498	-0.109	0.0	0.1	0.0
5856	65.401	63.498	-0.109	0.0	0.1	0.0
5880	65.401	63.498	-0.109	0.0	0.1	0.0
5904	65.401	63.498	-0.109	0.0	0.1	0.0
5928	65.401	63.498	-0.109	0.0	0.1	0.0
5952	65.401	63.498	-0.109	0.0	0.1	0.0
5976	65.401	63.498	-0.109	0.0	0.1	0.0
6000	65.401	63.498	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.401	63.498	-0.109	0.0	0.1	0.0
6048	65.401	63.498	-0.109	0.0	0.1	0.0
6072	65.400	63.498	-0.110	0.0	0.1	0.0
6096	65.400	63.498	-0.110	0.0	0.1	0.0
6120	65.400	63.498	-0.110	0.0	0.1	0.0
6144	65.400	63.498	-0.110	0.0	0.1	0.0
6168	65.400	63.498	-0.110	0.0	0.1	0.0
6192	65.400	63.498	-0.110	0.0	0.1	0.0
6216	65.400	63.498	-0.110	0.0	0.1	0.0
6240	65.400	63.498	-0.110	0.0	0.1	0.0
6264	65.400	63.497	-0.110	0.0	0.1	0.0
6288	65.400	63.497	-0.110	0.0	0.1	0.0
6312	65.400	63.497	-0.110	0.0	0.1	0.0
6336	65.400	63.497	-0.110	0.0	0.1	0.0
6360	65.400	63.497	-0.110	0.0	0.1	0.0
6384	65.400	63.497	-0.110	0.0	0.1	0.0
6408	65.400	63.497	-0.110	0.0	0.1	0.0
6432	65.400	63.497	-0.110	0.0	0.1	0.0
6456	65.400	63.497	-0.110	0.0	0.1	0.0
6480	65.400	63.497	-0.110	0.0	0.1	0.0
6504	65.400	63.497	-0.110	0.0	0.1	0.0
6528	65.400	63.497	-0.110	0.0	0.1	0.0
6552	65.400	63.497	-0.110	0.0	0.1	0.0
6576	65.400	63.497	-0.110	0.0	0.1	0.0
6600	65.400	63.497	-0.110	0.0	0.1	0.0
6624	65.400	63.497	-0.110	0.0	0.1	0.0
6648	65.400	63.497	-0.110	0.0	0.1	0.0
6672	65.400	63.497	-0.110	0.0	0.1	0.0
6696	65.400	63.497	-0.110	0.0	0.1	0.0
6720	65.400	63.497	-0.110	0.0	0.1	0.0
6744	65.400	63.497	-0.110	0.0	0.1	0.0
6768	65.400	63.496	-0.110	0.0	0.1	0.0
6792	65.400	63.496	-0.110	0.0	0.1	0.0
6816	65.400	63.496	-0.110	0.0	0.1	0.0
6840	65.400	63.496	-0.110	0.0	0.1	0.0
6864	65.400	63.496	-0.110	0.0	0.1	0.0
6888	65.400	63.496	-0.110	0.0	0.1	0.0
6912	65.400	63.496	-0.110	0.0	0.1	0.0
6936	65.400	63.496	-0.110	0.0	0.1	0.0
6960	65.400	63.496	-0.110	0.0	0.1	0.0
6984	65.400	63.496	-0.110	0.0	0.1	0.0
7008	65.400	63.496	-0.110	0.0	0.1	0.0
7032	65.400	63.496	-0.110	0.0	0.1	0.0
7056	65.400	63.496	-0.110	0.0	0.1	0.0
7080	65.400	63.496	-0.110	0.0	0.0	0.0
7104	65.400	63.496	-0.110	0.0	0.0	0.0
7128	65.400	63.496	-0.110	0.0	0.0	0.0
7152	65.400	63.496	-0.110	0.0	0.0	0.0
7176	65.400	63.496	-0.110	0.0	0.0	0.0
7200	65.400	63.496	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	63.496	-0.110	0.0	0.0	0.0
7248	65.400	63.496	-0.110	0.0	0.0	0.0
7272	65.400	63.496	-0.110	0.0	0.0	0.0
7296	65.400	63.496	-0.110	0.0	0.0	0.0
7320	65.400	63.496	-0.110	0.0	0.0	0.0
7344	65.400	63.496	-0.110	0.0	0.0	0.0
7368	65.400	63.496	-0.110	0.0	0.0	0.0
7392	65.400	63.496	-0.110	0.0	0.0	0.0
7416	65.400	63.496	-0.110	0.0	0.0	0.0
7440	65.400	63.496	-0.110	0.0	0.0	0.0
7464	65.400	63.496	-0.110	0.0	0.0	0.0
7488	65.400	63.495	-0.110	0.0	0.0	0.0
7512	65.400	63.495	-0.110	0.0	0.0	0.0
7536	65.400	63.495	-0.110	0.0	0.0	0.0
7560	65.400	63.495	-0.110	0.0	0.0	0.0
7584	65.400	63.495	-0.110	0.0	0.0	0.0
7608	65.400	63.495	-0.110	0.0	0.0	0.0
7632	65.400	63.495	-0.110	0.0	0.0	0.0
7656	65.400	63.495	-0.110	0.0	0.0	0.0
7680	65.400	63.495	-0.110	0.0	0.0	0.0
7704	65.400	63.495	-0.110	0.0	0.0	0.0
7728	65.400	63.495	-0.110	0.0	0.0	0.0
7752	65.400	63.495	-0.110	0.0	0.0	0.0
7776	65.400	63.495	-0.110	0.0	0.0	0.0
7800	65.400	63.495	-0.110	0.0	0.0	0.0
7824	65.400	63.495	-0.110	0.0	0.0	0.0
7848	65.400	63.495	-0.110	0.0	0.0	0.0
7872	65.400	63.495	-0.110	0.0	0.0	0.0
7896	65.400	63.495	-0.110	0.0	0.0	0.0
7920	65.400	63.495	-0.110	0.0	0.0	0.0
7944	65.400	63.495	-0.110	0.0	0.0	0.0
7968	65.400	63.495	-0.110	0.0	0.0	0.0
7992	65.400	63.495	-0.110	0.0	0.0	0.0
8016	65.400	63.495	-0.110	0.0	0.0	0.0
8040	65.400	63.495	-0.110	0.0	0.0	0.0
8064	65.400	63.495	-0.110	0.0	0.0	0.0
8088	65.400	63.495	-0.110	0.0	0.0	0.0
8112	65.400	63.495	-0.110	0.0	0.0	0.0
8136	65.400	63.495	-0.110	0.0	0.0	0.0
8160	65.400	63.495	-0.110	0.0	0.0	0.0
8184	65.400	63.495	-0.110	0.0	0.0	0.0
8208	65.400	63.495	-0.110	0.0	0.0	0.0
8232	65.400	63.495	-0.110	0.0	0.0	0.0
8256	65.400	63.495	-0.110	0.0	0.0	0.0
8280	65.400	63.495	-0.110	0.0	0.0	0.0
8304	65.400	63.495	-0.110	0.0	0.0	0.0
8328	65.400	63.495	-0.110	0.0	0.0	0.0
8352	65.400	63.495	-0.110	0.0	0.0	0.0
8376	65.400	63.495	-0.110	0.0	0.0	0.0
8400	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	63.495	-0.110	0.0	0.0	0.0
8448	65.400	63.495	-0.110	0.0	0.0	0.0
8472	65.400	63.495	-0.110	0.0	0.0	0.0
8496	65.400	63.495	-0.110	0.0	0.0	0.0
8520	65.400	63.495	-0.110	0.0	0.0	0.0
8544	65.400	63.495	-0.110	0.0	0.0	0.0
8568	65.400	63.495	-0.110	0.0	0.0	0.0
8592	65.400	63.495	-0.110	0.0	0.0	0.0
8616	65.400	63.495	-0.110	0.0	0.0	0.0
8640	65.400	63.495	-0.110	0.0	0.0	0.0
8664	65.400	63.495	-0.110	0.0	0.0	0.0
8688	65.400	63.495	-0.110	0.0	0.0	0.0
8712	65.400	63.495	-0.110	0.0	0.0	0.0
8736	65.400	63.495	-0.110	0.0	0.0	0.0
8760	65.400	63.495	-0.110	0.0	0.0	0.0
8784	65.400	63.495	-0.110	0.0	0.0	0.0
8808	65.400	63.495	-0.110	0.0	0.0	0.0
8832	65.400	63.495	-0.110	0.0	0.0	0.0
8856	65.400	63.495	-0.110	0.0	0.0	0.0
8880	65.400	63.495	-0.110	0.0	0.0	0.0
8904	65.400	63.495	-0.110	0.0	0.0	0.0
8928	65.400	63.495	-0.110	0.0	0.0	0.0
8952	65.400	63.495	-0.110	0.0	0.0	0.0
8976	65.400	63.495	-0.110	0.0	0.0	0.0
9000	65.400	63.495	-0.110	0.0	0.0	0.0
9024	65.400	63.495	-0.110	0.0	0.0	0.0
9048	65.400	63.495	-0.110	0.0	0.0	0.0
9072	65.400	63.495	-0.110	0.0	0.0	0.0
9096	65.400	63.495	-0.110	0.0	0.0	0.0
9120	65.400	63.495	-0.110	0.0	0.0	0.0
9144	65.400	63.495	-0.110	0.0	0.0	0.0
9168	65.400	63.495	-0.110	0.0	0.0	0.0
9192	65.400	63.495	-0.110	0.0	0.0	0.0
9216	65.400	63.495	-0.110	0.0	0.0	0.0
9240	65.400	63.495	-0.110	0.0	0.0	0.0
9264	65.400	63.495	-0.110	0.0	0.0	0.0
9288	65.400	63.495	-0.110	0.0	0.0	0.0
9312	65.400	63.495	-0.110	0.0	0.0	0.0
9336	65.400	63.495	-0.110	0.0	0.0	0.0
9360	65.400	63.495	-0.110	0.0	0.0	0.0
9384	65.400	63.495	-0.110	0.0	0.0	0.0
9408	65.400	63.495	-0.110	0.0	0.0	0.0
9432	65.400	63.495	-0.110	0.0	0.0	0.0
9456	65.400	63.495	-0.110	0.0	0.0	0.0
9480	65.400	63.495	-0.110	0.0	0.0	0.0
9504	65.400	63.495	-0.110	0.0	0.0	0.0
9528	65.400	63.495	-0.110	0.0	0.0	0.0
9552	65.400	63.495	-0.110	0.0	0.0	0.0
9576	65.400	63.495	-0.110	0.0	0.0	0.0
9600	65.400	63.495	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	63.495	-0.110	0.0	0.0	0.0
9648	65.400	63.495	-0.110	0.0	0.0	0.0
9672	65.400	63.495	-0.110	0.0	0.0	0.0
9696	65.400	63.495	-0.110	0.0	0.0	0.0
9720	65.400	63.495	-0.110	0.0	0.0	0.0
9744	65.400	63.495	-0.110	0.0	0.0	0.0
9768	65.400	63.495	-0.110	0.0	0.0	0.0
9792	65.400	63.495	-0.110	0.0	0.0	0.0
9816	65.400	63.495	-0.110	0.0	0.0	0.0
9840	65.400	63.495	-0.110	0.0	0.0	0.0
9864	65.400	63.495	-0.110	0.0	0.0	0.0
9888	65.400	63.494	-0.110	0.0	0.0	0.0
9912	65.400	63.494	-0.110	0.0	0.0	0.0
9936	65.400	63.494	-0.110	0.0	0.0	0.0
9960	65.400	63.494	-0.110	0.0	0.0	0.0
9984	65.400	63.494	-0.110	0.0	0.0	0.0
10008	65.400	63.494	-0.110	0.0	0.0	0.0
10032	65.400	63.494	-0.110	0.0	0.0	0.0
10056	65.400	63.494	-0.110	0.0	0.0	0.0
10080	65.400	63.494	-0.110	0.0	0.0	0.0
10104	65.400	63.494	-0.110	0.0	0.0	0.0
10128	65.400	63.494	-0.110	0.0	0.0	0.0
10152	65.400	63.494	-0.110	0.0	0.0	0.0
10176	65.400	63.494	-0.110	0.0	0.0	0.0
10200	65.400	63.494	-0.110	0.0	0.0	0.0
10224	65.400	63.494	-0.110	0.0	0.0	0.0
10248	65.400	63.494	-0.110	0.0	0.0	0.0
10272	65.400	63.494	-0.110	0.0	0.0	0.0
10296	65.400	63.494	-0.110	0.0	0.0	0.0
10320	65.400	63.494	-0.110	0.0	0.0	0.0
10344	65.400	63.494	-0.110	0.0	0.0	0.0
10368	65.400	63.494	-0.110	0.0	0.0	0.0
10392	65.400	63.494	-0.110	0.0	0.0	0.0
10416	65.400	63.494	-0.110	0.0	0.0	0.0
10440	65.400	63.494	-0.110	0.0	0.0	0.0
10464	65.400	63.494	-0.110	0.0	0.0	0.0
10488	65.400	63.494	-0.110	0.0	0.0	0.0
10512	65.400	63.494	-0.110	0.0	0.0	0.0
10536	65.400	63.494	-0.110	0.0	0.0	0.0
10560	65.400	63.494	-0.110	0.0	0.0	0.0
10584	65.400	63.494	-0.110	0.0	0.0	0.0
10608	65.400	63.494	-0.110	0.0	0.0	0.0
10632	65.400	63.494	-0.110	0.0	0.0	0.0
10656	65.400	63.494	-0.110	0.0	0.0	0.0
10680	65.400	63.494	-0.110	0.0	0.0	0.0
10704	65.400	63.494	-0.110	0.0	0.0	0.0
10728	65.400	63.494	-0.110	0.0	0.0	0.0
10752	65.400	63.494	-0.110	0.0	0.0	0.0
10776	65.400	63.494	-0.110	0.0	0.0	0.0
10800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	63.494	-0.110	0.0	0.0	0.0
10848	65.400	63.494	-0.110	0.0	0.0	0.0
10872	65.400	63.494	-0.110	0.0	0.0	0.0
10896	65.400	63.494	-0.110	0.0	0.0	0.0
10920	65.400	63.494	-0.110	0.0	0.0	0.0
10944	65.400	63.494	-0.110	0.0	0.0	0.0
10968	65.400	63.494	-0.110	0.0	0.0	0.0
10992	65.400	63.494	-0.110	0.0	0.0	0.0
11016	65.400	63.494	-0.110	0.0	0.0	0.0
11040	65.400	63.494	-0.110	0.0	0.0	0.0
11064	65.400	63.494	-0.110	0.0	0.0	0.0
11088	65.400	63.494	-0.110	0.0	0.0	0.0
11112	65.400	63.494	-0.110	0.0	0.0	0.0
11136	65.400	63.494	-0.110	0.0	0.0	0.0
11160	65.400	63.494	-0.110	0.0	0.0	0.0
11184	65.400	63.494	-0.110	0.0	0.0	0.0
11208	65.400	63.494	-0.110	0.0	0.0	0.0
11232	65.400	63.494	-0.110	0.0	0.0	0.0
11256	65.400	63.494	-0.110	0.0	0.0	0.0
11280	65.400	63.494	-0.110	0.0	0.0	0.0
11304	65.400	63.494	-0.110	0.0	0.0	0.0
11328	65.400	63.494	-0.110	0.0	0.0	0.0
11352	65.400	63.494	-0.110	0.0	0.0	0.0
11376	65.400	63.494	-0.110	0.0	0.0	0.0
11400	65.400	63.494	-0.110	0.0	0.0	0.0
11424	65.400	63.494	-0.110	0.0	0.0	0.0
11448	65.400	63.494	-0.110	0.0	0.0	0.0
11472	65.400	63.494	-0.110	0.0	0.0	0.0
11496	65.400	63.494	-0.110	0.0	0.0	0.0
11520	65.400	63.494	-0.110	0.0	0.0	0.0
11544	65.400	63.494	-0.110	0.0	0.0	0.0
11568	65.400	63.494	-0.110	0.0	0.0	0.0
11592	65.400	63.494	-0.110	0.0	0.0	0.0
11616	65.400	63.494	-0.110	0.0	0.0	0.0
11640	65.400	63.494	-0.110	0.0	0.0	0.0
11664	65.400	63.494	-0.110	0.0	0.0	0.0
11688	65.400	63.494	-0.110	0.0	0.0	0.0
11712	65.400	63.494	-0.110	0.0	0.0	0.0
11736	65.400	63.494	-0.110	0.0	0.0	0.0
11760	65.400	63.494	-0.110	0.0	0.0	0.0
11784	65.400	63.494	-0.110	0.0	0.0	0.0
11808	65.400	63.494	-0.110	0.0	0.0	0.0
11832	65.400	63.494	-0.110	0.0	0.0	0.0
11856	65.400	63.494	-0.110	0.0	0.0	0.0
11880	65.400	63.494	-0.110	0.0	0.0	0.0
11904	65.400	63.494	-0.110	0.0	0.0	0.0
11928	65.400	63.494	-0.110	0.0	0.0	0.0
11952	65.400	63.494	-0.110	0.0	0.0	0.0
11976	65.400	63.494	-0.110	0.0	0.0	0.0
12000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	63.494	-0.110	0.0	0.0	0.0
12048	65.400	63.494	-0.110	0.0	0.0	0.0
12072	65.400	63.494	-0.110	0.0	0.0	0.0
12096	65.400	63.494	-0.110	0.0	0.0	0.0
12120	65.400	63.494	-0.110	0.0	0.0	0.0
12144	65.400	63.494	-0.110	0.0	0.0	0.0
12168	65.400	63.494	-0.110	0.0	0.0	0.0
12192	65.400	63.494	-0.110	0.0	0.0	0.0
12216	65.400	63.494	-0.110	0.0	0.0	0.0
12240	65.400	63.494	-0.110	0.0	0.0	0.0
12264	65.400	63.494	-0.110	0.0	0.0	0.0
12288	65.400	63.494	-0.110	0.0	0.0	0.0
12312	65.400	63.494	-0.110	0.0	0.0	0.0
12336	65.400	63.494	-0.110	0.0	0.0	0.0
12360	65.400	63.494	-0.110	0.0	0.0	0.0
12384	65.400	63.494	-0.110	0.0	0.0	0.0
12408	65.400	63.494	-0.110	0.0	0.0	0.0
12432	65.400	63.494	-0.110	0.0	0.0	0.0
12456	65.400	63.494	-0.110	0.0	0.0	0.0
12480	65.400	63.494	-0.110	0.0	0.0	0.0
12504	65.400	63.494	-0.110	0.0	0.0	0.0
12528	65.400	63.494	-0.110	0.0	0.0	0.0
12552	65.400	63.494	-0.110	0.0	0.0	0.0
12576	65.400	63.494	-0.110	0.0	0.0	0.0
12600	65.400	63.494	-0.110	0.0	0.0	0.0
12624	65.400	63.494	-0.110	0.0	0.0	0.0
12648	65.400	63.494	-0.110	0.0	0.0	0.0
12672	65.400	63.494	-0.110	0.0	0.0	0.0
12696	65.400	63.494	-0.110	0.0	0.0	0.0
12720	65.400	63.494	-0.110	0.0	0.0	0.0
12744	65.400	63.494	-0.110	0.0	0.0	0.0
12768	65.400	63.494	-0.110	0.0	0.0	0.0
12792	65.400	63.494	-0.110	0.0	0.0	0.0
12816	65.400	63.494	-0.110	0.0	0.0	0.0
12840	65.400	63.494	-0.110	0.0	0.0	0.0
12864	65.400	63.494	-0.110	0.0	0.0	0.0
12888	65.400	63.494	-0.110	0.0	0.0	0.0
12912	65.400	63.494	-0.110	0.0	0.0	0.0
12936	65.400	63.494	-0.110	0.0	0.0	0.0
12960	65.400	63.494	-0.110	0.0	0.0	0.0
12984	65.400	63.494	-0.110	0.0	0.0	0.0
13008	65.400	63.494	-0.110	0.0	0.0	0.0
13032	65.400	63.494	-0.110	0.0	0.0	0.0
13056	65.400	63.494	-0.110	0.0	0.0	0.0
13080	65.400	63.494	-0.110	0.0	0.0	0.0
13104	65.400	63.494	-0.110	0.0	0.0	0.0
13128	65.400	63.494	-0.110	0.0	0.0	0.0
13152	65.400	63.494	-0.110	0.0	0.0	0.0
13176	65.400	63.494	-0.110	0.0	0.0	0.0
13200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	63.494	-0.110	0.0	0.0	0.0
13248	65.400	63.494	-0.110	0.0	0.0	0.0
13272	65.400	63.494	-0.110	0.0	0.0	0.0
13296	65.400	63.494	-0.110	0.0	0.0	0.0
13320	65.400	63.494	-0.110	0.0	0.0	0.0
13344	65.400	63.494	-0.110	0.0	0.0	0.0
13368	65.400	63.494	-0.110	0.0	0.0	0.0
13392	65.400	63.494	-0.110	0.0	0.0	0.0
13416	65.400	63.494	-0.110	0.0	0.0	0.0
13440	65.400	63.494	-0.110	0.0	0.0	0.0
13464	65.400	63.494	-0.110	0.0	0.0	0.0
13488	65.400	63.494	-0.110	0.0	0.0	0.0
13512	65.400	63.494	-0.110	0.0	0.0	0.0
13536	65.400	63.494	-0.110	0.0	0.0	0.0
13560	65.400	63.494	-0.110	0.0	0.0	0.0
13584	65.400	63.494	-0.110	0.0	0.0	0.0
13608	65.400	63.494	-0.110	0.0	0.0	0.0
13632	65.400	63.494	-0.110	0.0	0.0	0.0
13656	65.400	63.494	-0.110	0.0	0.0	0.0
13680	65.400	63.494	-0.110	0.0	0.0	0.0
13704	65.400	63.494	-0.110	0.0	0.0	0.0
13728	65.400	63.494	-0.110	0.0	0.0	0.0
13752	65.400	63.494	-0.110	0.0	0.0	0.0
13776	65.400	63.494	-0.110	0.0	0.0	0.0
13800	65.400	63.494	-0.110	0.0	0.0	0.0
13824	65.400	63.494	-0.110	0.0	0.0	0.0
13848	65.400	63.494	-0.110	0.0	0.0	0.0
13872	65.400	63.494	-0.110	0.0	0.0	0.0
13896	65.400	63.494	-0.110	0.0	0.0	0.0
13920	65.400	63.494	-0.110	0.0	0.0	0.0
13944	65.400	63.494	-0.110	0.0	0.0	0.0
13968	65.400	63.494	-0.110	0.0	0.0	0.0
13992	65.400	63.494	-0.110	0.0	0.0	0.0
14016	65.400	63.494	-0.110	0.0	0.0	0.0
14040	65.400	63.494	-0.110	0.0	0.0	0.0
14064	65.400	63.494	-0.110	0.0	0.0	0.0
14088	65.400	63.494	-0.110	0.0	0.0	0.0
14112	65.400	63.494	-0.110	0.0	0.0	0.0
14136	65.400	63.494	-0.110	0.0	0.0	0.0
14160	65.400	63.494	-0.110	0.0	0.0	0.0
14184	65.400	63.494	-0.110	0.0	0.0	0.0
14208	65.400	63.494	-0.110	0.0	0.0	0.0
14232	65.400	63.494	-0.110	0.0	0.0	0.0
14256	65.400	63.494	-0.110	0.0	0.0	0.0
14280	65.400	63.494	-0.110	0.0	0.0	0.0
14304	65.400	63.494	-0.110	0.0	0.0	0.0
14328	65.400	63.494	-0.110	0.0	0.0	0.0
14352	65.400	63.494	-0.110	0.0	0.0	0.0
14376	65.400	63.494	-0.110	0.0	0.0	0.0
14400	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	63.494	-0.110	0.0	0.0	0.0
14448	65.400	63.494	-0.110	0.0	0.0	0.0
14472	65.400	63.494	-0.110	0.0	0.0	0.0
14496	65.400	63.494	-0.110	0.0	0.0	0.0
14520	65.400	63.494	-0.110	0.0	0.0	0.0
14544	65.400	63.494	-0.110	0.0	0.0	0.0
14568	65.400	63.494	-0.110	0.0	0.0	0.0
14592	65.400	63.494	-0.110	0.0	0.0	0.0
14616	65.400	63.494	-0.110	0.0	0.0	0.0
14640	65.400	63.494	-0.110	0.0	0.0	0.0
14664	65.400	63.494	-0.110	0.0	0.0	0.0
14688	65.400	63.494	-0.110	0.0	0.0	0.0
14712	65.400	63.494	-0.110	0.0	0.0	0.0
14736	65.400	63.494	-0.110	0.0	0.0	0.0
14760	65.400	63.494	-0.110	0.0	0.0	0.0
14784	65.400	63.494	-0.110	0.0	0.0	0.0
14808	65.400	63.494	-0.110	0.0	0.0	0.0
14832	65.400	63.494	-0.110	0.0	0.0	0.0
14856	65.400	63.494	-0.110	0.0	0.0	0.0
14880	65.400	63.494	-0.110	0.0	0.0	0.0
14904	65.400	63.494	-0.110	0.0	0.0	0.0
14928	65.400	63.494	-0.110	0.0	0.0	0.0
14952	65.400	63.494	-0.110	0.0	0.0	0.0
14976	65.400	63.494	-0.110	0.0	0.0	0.0
15000	65.400	63.494	-0.110	0.0	0.0	0.0
15024	65.400	63.494	-0.110	0.0	0.0	0.0
15048	65.400	63.494	-0.110	0.0	0.0	0.0
15072	65.400	63.494	-0.110	0.0	0.0	0.0
15096	65.400	63.494	-0.110	0.0	0.0	0.0
15120	65.400	63.494	-0.110	0.0	0.0	0.0
15144	65.400	63.494	-0.110	0.0	0.0	0.0
15168	65.400	63.494	-0.110	0.0	0.0	0.0
15192	65.400	63.494	-0.110	0.0	0.0	0.0
15216	65.400	63.494	-0.110	0.0	0.0	0.0
15240	65.400	63.494	-0.110	0.0	0.0	0.0
15264	65.400	63.494	-0.110	0.0	0.0	0.0
15288	65.400	63.494	-0.110	0.0	0.0	0.0
15312	65.400	63.494	-0.110	0.0	0.0	0.0
15336	65.400	63.494	-0.110	0.0	0.0	0.0
15360	65.400	63.494	-0.110	0.0	0.0	0.0
15384	65.400	63.494	-0.110	0.0	0.0	0.0
15408	65.400	63.494	-0.110	0.0	0.0	0.0
15432	65.400	63.494	-0.110	0.0	0.0	0.0
15456	65.400	63.494	-0.110	0.0	0.0	0.0
15480	65.400	63.494	-0.110	0.0	0.0	0.0
15504	65.400	63.494	-0.110	0.0	0.0	0.0
15528	65.400	63.494	-0.110	0.0	0.0	0.0
15552	65.400	63.494	-0.110	0.0	0.0	0.0
15576	65.400	63.494	-0.110	0.0	0.0	0.0
15600	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	63.494	-0.110	0.0	0.0	0.0
15648	65.400	63.494	-0.110	0.0	0.0	0.0
15672	65.400	63.494	-0.110	0.0	0.0	0.0
15696	65.400	63.494	-0.110	0.0	0.0	0.0
15720	65.400	63.494	-0.110	0.0	0.0	0.0
15744	65.400	63.494	-0.110	0.0	0.0	0.0
15768	65.400	63.494	-0.110	0.0	0.0	0.0
15792	65.400	63.494	-0.110	0.0	0.0	0.0
15816	65.400	63.494	-0.110	0.0	0.0	0.0
15840	65.400	63.494	-0.110	0.0	0.0	0.0
15864	65.400	63.494	-0.110	0.0	0.0	0.0
15888	65.400	63.494	-0.110	0.0	0.0	0.0
15912	65.400	63.494	-0.110	0.0	0.0	0.0
15936	65.400	63.494	-0.110	0.0	0.0	0.0
15960	65.400	63.494	-0.110	0.0	0.0	0.0
15984	65.400	63.494	-0.110	0.0	0.0	0.0
16008	65.400	63.494	-0.110	0.0	0.0	0.0
16032	65.400	63.494	-0.110	0.0	0.0	0.0
16056	65.400	63.494	-0.110	0.0	0.0	0.0
16080	65.400	63.494	-0.110	0.0	0.0	0.0
16104	65.400	63.494	-0.110	0.0	0.0	0.0
16128	65.400	63.494	-0.110	0.0	0.0	0.0
16152	65.400	63.494	-0.110	0.0	0.0	0.0
16176	65.400	63.494	-0.110	0.0	0.0	0.0
16200	65.400	63.494	-0.110	0.0	0.0	0.0
16224	65.400	63.494	-0.110	0.0	0.0	0.0
16248	65.400	63.494	-0.110	0.0	0.0	0.0
16272	65.400	63.494	-0.110	0.0	0.0	0.0
16296	65.400	63.494	-0.110	0.0	0.0	0.0
16320	65.400	63.494	-0.110	0.0	0.0	0.0
16344	65.400	63.494	-0.110	0.0	0.0	0.0
16368	65.400	63.494	-0.110	0.0	0.0	0.0
16392	65.400	63.494	-0.110	0.0	0.0	0.0
16416	65.400	63.494	-0.110	0.0	0.0	0.0
16440	65.400	63.494	-0.110	0.0	0.0	0.0
16464	65.400	63.494	-0.110	0.0	0.0	0.0
16488	65.400	63.494	-0.110	0.0	0.0	0.0
16512	65.400	63.494	-0.110	0.0	0.0	0.0
16536	65.400	63.494	-0.110	0.0	0.0	0.0
16560	65.400	63.494	-0.110	0.0	0.0	0.0
16584	65.400	63.494	-0.110	0.0	0.0	0.0
16608	65.400	63.494	-0.110	0.0	0.0	0.0
16632	65.400	63.494	-0.110	0.0	0.0	0.0
16656	65.400	63.494	-0.110	0.0	0.0	0.0
16680	65.400	63.494	-0.110	0.0	0.0	0.0
16704	65.400	63.494	-0.110	0.0	0.0	0.0
16728	65.400	63.494	-0.110	0.0	0.0	0.0
16752	65.400	63.494	-0.110	0.0	0.0	0.0
16776	65.400	63.494	-0.110	0.0	0.0	0.0
16800	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	63.494	-0.110	0.0	0.0	0.0
16848	65.400	63.494	-0.110	0.0	0.0	0.0
16872	65.400	63.494	-0.110	0.0	0.0	0.0
16896	65.400	63.494	-0.110	0.0	0.0	0.0
16920	65.400	63.494	-0.110	0.0	0.0	0.0
16944	65.400	63.494	-0.110	0.0	0.0	0.0
16968	65.400	63.494	-0.110	0.0	0.0	0.0
16992	65.400	63.494	-0.110	0.0	0.0	0.0
17016	65.400	63.494	-0.110	0.0	0.0	0.0
17040	65.400	63.494	-0.110	0.0	0.0	0.0
17064	65.400	63.494	-0.110	0.0	0.0	0.0
17088	65.400	63.494	-0.110	0.0	0.0	0.0
17112	65.400	63.494	-0.110	0.0	0.0	0.0
17136	65.400	63.494	-0.110	0.0	0.0	0.0
17160	65.400	63.494	-0.110	0.0	0.0	0.0
17184	65.400	63.494	-0.110	0.0	0.0	0.0
17208	65.400	63.494	-0.110	0.0	0.0	0.0
17232	65.400	63.494	-0.110	0.0	0.0	0.0
17256	65.400	63.494	-0.110	0.0	0.0	0.0
17280	65.400	63.494	-0.110	0.0	0.0	0.0
17304	65.400	63.494	-0.110	0.0	0.0	0.0
17328	65.400	63.494	-0.110	0.0	0.0	0.0
17352	65.400	63.494	-0.110	0.0	0.0	0.0
17376	65.400	63.494	-0.110	0.0	0.0	0.0
17400	65.400	63.494	-0.110	0.0	0.0	0.0
17424	65.400	63.494	-0.110	0.0	0.0	0.0
17448	65.400	63.494	-0.110	0.0	0.0	0.0
17472	65.400	63.494	-0.110	0.0	0.0	0.0
17496	65.400	63.494	-0.110	0.0	0.0	0.0
17520	65.400	63.494	-0.110	0.0	0.0	0.0
17544	65.400	63.494	-0.110	0.0	0.0	0.0
17568	65.400	63.494	-0.110	0.0	0.0	0.0
17592	65.400	63.494	-0.110	0.0	0.0	0.0
17616	65.400	63.494	-0.110	0.0	0.0	0.0
17640	65.400	63.494	-0.110	0.0	0.0	0.0
17664	65.400	63.494	-0.110	0.0	0.0	0.0
17688	65.400	63.494	-0.110	0.0	0.0	0.0
17712	65.400	63.494	-0.110	0.0	0.0	0.0
17736	65.400	63.494	-0.110	0.0	0.0	0.0
17760	65.400	63.494	-0.110	0.0	0.0	0.0
17784	65.400	63.494	-0.110	0.0	0.0	0.0
17808	65.400	63.494	-0.110	0.0	0.0	0.0
17832	65.400	63.494	-0.110	0.0	0.0	0.0
17856	65.400	63.494	-0.110	0.0	0.0	0.0
17880	65.400	63.494	-0.110	0.0	0.0	0.0
17904	65.400	63.494	-0.110	0.0	0.0	0.0
17928	65.400	63.494	-0.110	0.0	0.0	0.0
17952	65.400	63.494	-0.110	0.0	0.0	0.0
17976	65.400	63.494	-0.110	0.0	0.0	0.0
18000	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.400	63.494	-0.110	0.0	0.0	0.0
18048	65.400	63.494	-0.110	0.0	0.0	0.0
18072	65.400	63.494	-0.110	0.0	0.0	0.0
18096	65.400	63.494	-0.110	0.0	0.0	0.0
18120	65.400	63.494	-0.110	0.0	0.0	0.0
18144	65.400	63.494	-0.110	0.0	0.0	0.0
18168	65.400	63.494	-0.110	0.0	0.0	0.0
18192	65.400	63.494	-0.110	0.0	0.0	0.0
18216	65.400	63.494	-0.110	0.0	0.0	0.0
18240	65.400	63.494	-0.110	0.0	0.0	0.0
18264	65.400	63.494	-0.110	0.0	0.0	0.0
18288	65.400	63.494	-0.110	0.0	0.0	0.0
18312	65.400	63.494	-0.110	0.0	0.0	0.0
18336	65.400	63.494	-0.110	0.0	0.0	0.0
18360	65.400	63.494	-0.110	0.0	0.0	0.0
18384	65.400	63.494	-0.110	0.0	0.0	0.0
18408	65.400	63.494	-0.110	0.0	0.0	0.0
18432	65.400	63.494	-0.110	0.0	0.0	0.0
18456	65.400	63.494	-0.110	0.0	0.0	0.0
18480	65.400	63.494	-0.110	0.0	0.0	0.0
18504	65.400	63.494	-0.110	0.0	0.0	0.0
18528	65.400	63.494	-0.110	0.0	0.0	0.0
18552	65.400	63.494	-0.110	0.0	0.0	0.0
18576	65.400	63.494	-0.110	0.0	0.0	0.0
18600	65.400	63.494	-0.110	0.0	0.0	0.0
18624	65.400	63.494	-0.110	0.0	0.0	0.0
18648	65.400	63.494	-0.110	0.0	0.0	0.0
18672	65.400	63.494	-0.110	0.0	0.0	0.0
18696	65.400	63.494	-0.110	0.0	0.0	0.0
18720	65.400	63.494	-0.110	0.0	0.0	0.0
18744	65.400	63.494	-0.110	0.0	0.0	0.0
18768	65.400	63.494	-0.110	0.0	0.0	0.0
18792	65.400	63.494	-0.110	0.0	0.0	0.0
18816	65.400	63.494	-0.110	0.0	0.0	0.0
18840	65.400	63.494	-0.110	0.0	0.0	0.0
18864	65.400	63.494	-0.110	0.0	0.0	0.0
18888	65.400	63.494	-0.110	0.0	0.0	0.0
18912	65.400	63.494	-0.110	0.0	0.0	0.0
18936	65.400	63.494	-0.110	0.0	0.0	0.0
18960	65.400	63.494	-0.110	0.0	0.0	0.0
18984	65.400	63.494	-0.110	0.0	0.0	0.0
19008	65.400	63.494	-0.110	0.0	0.0	0.0
19032	65.400	63.494	-0.110	0.0	0.0	0.0
19056	65.400	63.494	-0.110	0.0	0.0	0.0
19080	65.400	63.494	-0.110	0.0	0.0	0.0
19104	65.400	63.494	-0.110	0.0	0.0	0.0
19128	65.400	63.494	-0.110	0.0	0.0	0.0
19152	65.400	63.494	-0.110	0.0	0.0	0.0
19176	65.400	63.494	-0.110	0.0	0.0	0.0
19200	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.400	63.494	-0.110	0.0	0.0	0.0
19248	65.400	63.494	-0.110	0.0	0.0	0.0
19272	65.400	63.494	-0.110	0.0	0.0	0.0
19296	65.400	63.494	-0.110	0.0	0.0	0.0
19320	65.400	63.494	-0.110	0.0	0.0	0.0
19344	65.400	63.494	-0.110	0.0	0.0	0.0
19368	65.400	63.494	-0.110	0.0	0.0	0.0
19392	65.400	63.494	-0.110	0.0	0.0	0.0
19416	65.400	63.494	-0.110	0.0	0.0	0.0
19440	65.400	63.494	-0.110	0.0	0.0	0.0
19464	65.400	63.494	-0.110	0.0	0.0	0.0
19488	65.400	63.494	-0.110	0.0	0.0	0.0
19512	65.400	63.494	-0.110	0.0	0.0	0.0
19536	65.400	63.494	-0.110	0.0	0.0	0.0
19560	65.400	63.494	-0.110	0.0	0.0	0.0
19584	65.400	63.494	-0.110	0.0	0.0	0.0
19608	65.400	63.494	-0.110	0.0	0.0	0.0
19632	65.400	63.494	-0.110	0.0	0.0	0.0
19656	65.400	63.494	-0.110	0.0	0.0	0.0
19680	65.400	63.494	-0.110	0.0	0.0	0.0
19704	65.400	63.494	-0.110	0.0	0.0	0.0
19728	65.400	63.494	-0.110	0.0	0.0	0.0
19752	65.400	63.494	-0.110	0.0	0.0	0.0
19776	65.400	63.494	-0.110	0.0	0.0	0.0
19800	65.400	63.494	-0.110	0.0	0.0	0.0
19824	65.400	63.494	-0.110	0.0	0.0	0.0
19848	65.400	63.494	-0.110	0.0	0.0	0.0
19872	65.400	63.494	-0.110	0.0	0.0	0.0
19896	65.400	63.494	-0.110	0.0	0.0	0.0
19920	65.400	63.494	-0.110	0.0	0.0	0.0
19944	65.400	63.494	-0.110	0.0	0.0	0.0
19968	65.400	63.494	-0.110	0.0	0.0	0.0
19992	65.400	63.494	-0.110	0.0	0.0	0.0
20016	65.400	63.494	-0.110	0.0	0.0	0.0
20040	65.400	63.494	-0.110	0.0	0.0	0.0
20064	65.400	63.494	-0.110	0.0	0.0	0.0
20088	65.400	63.494	-0.110	0.0	0.0	0.0
20112	65.400	63.494	-0.110	0.0	0.0	0.0
20136	65.400	63.494	-0.110	0.0	0.0	0.0
20160	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
72	63.494	63.444	-0.110	0.0	0.0	0.0
96	63.494	63.444	-0.110	0.0	0.0	0.0
120	63.494	63.444	-0.110	0.0	0.0	0.0
144	63.494	63.444	-0.110	0.0	0.0	0.0
168	63.494	63.444	-0.110	0.0	0.0	0.0
192	63.494	63.444	-0.110	0.0	0.0	0.0
216	63.494	63.444	-0.110	0.0	0.0	0.0
240	63.494	63.444	-0.110	0.0	0.0	0.0
264	63.494	63.444	-0.110	0.0	0.0	0.0
288	63.494	63.444	-0.110	0.0	0.0	0.0
312	63.494	63.444	-0.110	0.0	0.0	0.0
336	63.494	63.444	-0.110	0.0	0.0	0.0
360	63.494	63.444	-0.110	0.0	0.0	0.0
384	63.494	63.444	-0.110	0.0	0.0	0.0
408	63.494	63.444	-0.110	0.0	0.0	0.0
432	63.494	63.444	-0.110	0.0	0.0	0.0
456	63.494	63.444	-0.110	0.0	0.0	0.0
480	63.494	63.444	-0.110	0.0	0.0	0.0
504	63.494	63.444	-0.110	0.0	0.0	0.0
528	63.494	63.444	-0.110	0.0	0.0	0.0
552	63.494	63.444	-0.110	0.0	0.0	0.0
576	63.494	63.444	-0.110	0.0	0.0	0.0
600	63.494	63.444	-0.110	0.0	0.0	0.0
624	63.495	63.444	-0.110	0.0	0.0	0.0
648	63.495	63.444	-0.110	0.0	0.0	0.0
672	63.495	63.444	-0.110	0.0	0.0	0.0
696	63.495	63.444	-0.110	0.0	0.0	0.0
720	63.495	63.445	-0.110	0.0	0.0	0.0
744	63.495	63.445	-0.110	0.0	0.0	0.0
768	63.495	63.445	-0.110	0.0	0.0	0.0
792	63.495	63.445	-0.110	0.0	0.0	0.0
816	63.495	63.445	-0.110	0.0	0.0	0.0
840	63.495	63.445	-0.110	0.0	0.0	0.0
864	63.495	63.445	-0.110	0.0	0.0	0.0
888	63.495	63.445	-0.110	0.0	0.0	0.0
912	63.495	63.445	-0.110	0.0	0.0	0.0
936	63.495	63.445	-0.110	0.0	0.0	0.0
960	63.495	63.445	-0.110	0.0	0.0	0.0
984	63.495	63.445	-0.110	0.0	0.0	0.0
1008	63.495	63.445	-0.110	0.0	0.0	0.0
1032	63.495	63.445	-0.110	0.0	0.0	0.0
1056	63.495	63.445	-0.110	0.0	0.0	0.0
1080	63.495	63.445	-0.110	0.0	0.0	0.0
1104	63.495	63.445	-0.110	0.0	0.0	0.0
1128	63.495	63.445	-0.110	0.0	0.0	0.0
1152	63.495	63.445	-0.110	0.0	0.0	0.0
1176	63.495	63.445	-0.110	0.0	0.0	0.0
1200	63.495	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.495	63.445	-0.110	0.0	0.0	0.0
1248	63.495	63.445	-0.110	0.0	0.0	0.0
1272	63.495	63.445	-0.110	0.0	0.0	0.0
1296	63.495	63.445	-0.110	0.0	0.0	0.0
1320	63.495	63.445	-0.110	0.0	0.0	0.0
1344	63.495	63.445	-0.110	0.0	0.0	0.0
1368	63.495	63.445	-0.110	0.0	0.0	0.0
1392	63.495	63.445	-0.110	0.0	0.0	0.0
1416	63.495	63.445	-0.110	0.0	0.0	0.0
1440	63.495	63.445	-0.110	0.0	0.0	0.0
1464	63.495	63.445	-0.110	0.0	0.0	0.0
1488	63.495	63.445	-0.110	0.0	0.0	0.0
1512	63.495	63.445	-0.110	0.0	0.0	0.0
1536	63.495	63.445	-0.110	0.0	0.0	0.0
1560	63.495	63.445	-0.110	0.0	0.0	0.0
1584	63.495	63.445	-0.110	0.0	0.0	0.0
1608	63.495	63.445	-0.110	0.0	0.0	0.0
1632	63.495	63.445	-0.110	0.0	0.0	0.0
1656	63.495	63.445	-0.110	0.0	0.0	0.0
1680	63.495	63.445	-0.110	0.0	0.0	0.0
1704	63.495	63.445	-0.110	0.0	0.0	0.0
1728	63.495	63.445	-0.110	0.0	0.0	0.0
1752	63.495	63.445	-0.110	0.0	0.0	0.0
1776	63.495	63.445	-0.110	0.0	0.0	0.0
1800	63.495	63.445	-0.110	0.0	0.0	0.0
1824	63.495	63.445	-0.110	0.0	0.0	0.0
1848	63.495	63.445	-0.110	0.0	0.0	0.0
1872	63.495	63.445	-0.110	0.0	0.0	0.0
1896	63.495	63.445	-0.110	0.0	0.0	0.0
1920	63.495	63.445	-0.110	0.0	0.0	0.0
1944	63.495	63.445	-0.110	0.0	0.0	0.0
1968	63.495	63.445	-0.110	0.0	0.0	0.0
1992	63.495	63.445	-0.110	0.0	0.0	0.0
2016	63.495	63.445	-0.110	0.0	0.0	0.0
2040	63.495	63.445	-0.109	0.0	0.0	0.0
2064	63.495	63.445	-0.109	0.0	0.0	0.0
2088	63.495	63.445	-0.109	0.0	0.0	0.0
2112	63.495	63.445	-0.109	0.0	0.0	0.0
2136	63.495	63.445	-0.109	0.0	0.0	0.0
2160	63.495	63.445	-0.109	0.0	0.0	0.0
2184	63.495	63.445	-0.109	0.0	0.0	0.0
2208	63.495	63.445	-0.109	0.0	0.0	0.0
2232	63.495	63.446	-0.109	0.0	0.0	0.0
2256	63.495	63.446	-0.109	0.0	0.0	0.0
2280	63.495	63.446	-0.109	0.0	0.0	0.0
2304	63.495	63.446	-0.109	0.0	0.0	0.0
2328	63.495	63.446	-0.109	0.0	0.0	0.0
2352	63.495	63.446	-0.109	0.0	0.0	0.0
2376	63.495	63.446	-0.109	0.0	0.0	0.0
2400	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.495	63.446	-0.109	0.0	0.0	0.0
2448	63.495	63.446	-0.109	0.0	0.0	0.0
2472	63.495	63.446	-0.109	0.0	0.0	0.0
2496	63.495	63.446	-0.109	0.0	0.0	0.0
2520	63.495	63.446	-0.109	0.0	0.0	0.0
2544	63.495	63.447	-0.109	0.0	0.1	0.0
2568	63.495	63.447	-0.109	0.0	0.1	0.0
2592	63.496	63.447	-0.109	0.0	0.1	0.0
2616	63.495	63.447	-0.109	0.0	0.1	0.0
2640	63.496	63.447	-0.109	0.0	0.1	0.0
2664	63.496	63.447	-0.109	0.0	0.1	0.0
2688	63.496	63.447	-0.109	0.0	0.1	0.0
2712	63.496	63.447	-0.109	0.0	0.1	0.0
2736	63.496	63.447	-0.108	0.0	0.1	0.0
2760	63.496	63.447	-0.108	0.0	0.1	0.0
2784	63.496	63.447	-0.108	0.0	0.1	0.0
2808	63.496	63.447	-0.108	0.0	0.1	0.0
2832	63.496	63.447	-0.108	0.0	0.1	0.0
2856	63.496	63.447	-0.108	0.0	0.1	0.0
2880	63.496	63.447	-0.108	0.0	0.1	0.0
2904	63.496	63.447	-0.108	0.0	0.1	0.0
2928	63.496	63.447	-0.108	0.0	0.1	0.0
2952	63.496	63.448	-0.108	0.0	0.1	0.0
2976	63.496	63.448	-0.108	0.0	0.1	0.0
3000	63.496	63.448	-0.108	0.0	0.1	0.0
3024	63.496	63.448	-0.108	0.0	0.1	0.0
3048	63.496	63.448	-0.108	0.0	0.1	0.0
3072	63.496	63.448	-0.108	0.0	0.1	0.0
3096	63.496	63.448	-0.108	0.0	0.1	0.0
3120	63.496	63.448	-0.108	0.0	0.1	0.0
3144	63.496	63.448	-0.108	0.0	0.1	0.0
3168	63.496	63.448	-0.108	0.0	0.1	0.0
3192	63.496	63.448	-0.108	0.0	0.1	0.0
3216	63.496	63.448	-0.108	0.0	0.1	0.0
3240	63.496	63.448	-0.108	0.0	0.1	0.0
3264	63.496	63.448	-0.108	0.0	0.1	0.0
3288	63.496	63.448	-0.108	0.0	0.1	0.0
3312	63.496	63.448	-0.108	0.0	0.1	0.0
3336	63.496	63.449	-0.108	0.0	0.1	0.0
3360	63.497	63.449	-0.108	0.0	0.1	0.0
3384	63.497	63.449	-0.108	0.0	0.1	0.0
3408	63.497	63.449	-0.108	0.0	0.1	0.0
3432	63.497	63.449	-0.107	0.0	0.1	0.0
3456	63.497	63.449	-0.107	0.0	0.1	0.0
3480	63.497	63.449	-0.107	0.0	0.1	0.0
3504	63.497	63.449	-0.107	0.0	0.1	0.0
3528	63.497	63.449	-0.107	0.0	0.1	0.0
3552	63.497	63.450	-0.107	0.0	0.2	0.0
3576	63.497	63.450	-0.107	0.0	0.2	0.0
3600	63.497	63.450	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.497	63.450	-0.107	0.0	0.2	0.0
3648	63.497	63.450	-0.107	0.0	0.2	0.0
3672	63.497	63.450	-0.107	0.0	0.2	0.0
3696	63.497	63.450	-0.107	0.0	0.2	0.0
3720	63.497	63.450	-0.107	0.0	0.2	0.0
3744	63.497	63.450	-0.107	0.0	0.2	0.0
3768	63.497	63.450	-0.107	0.0	0.2	0.0
3792	63.497	63.450	-0.107	0.0	0.2	0.0
3816	63.497	63.450	-0.107	0.0	0.2	0.0
3840	63.497	63.450	-0.107	0.0	0.2	0.0
3864	63.498	63.451	-0.107	0.0	0.2	0.0
3888	63.498	63.451	-0.107	0.0	0.2	0.0
3912	63.498	63.451	-0.107	0.0	0.2	0.0
3936	63.498	63.451	-0.106	0.0	0.2	0.0
3960	63.498	63.451	-0.106	0.0	0.2	0.0
3984	63.498	63.451	-0.106	0.0	0.2	0.0
4008	63.498	63.451	-0.106	0.0	0.2	0.0
4032	63.498	63.451	-0.106	0.0	0.2	0.0
4056	63.498	63.451	-0.106	0.0	0.2	0.0
4080	63.498	63.451	-0.106	0.0	0.2	0.1
4104	63.498	63.451	-0.106	0.0	0.2	0.1
4128	63.498	63.451	-0.106	0.0	0.2	0.1
4152	63.498	63.452	-0.106	0.0	0.2	0.1
4176	63.498	63.452	-0.106	0.0	0.2	0.1
4200	63.498	63.452	-0.106	0.0	0.2	0.1
4224	63.498	63.452	-0.106	0.0	0.2	0.1
4248	63.498	63.452	-0.106	0.0	0.2	0.1
4272	63.498	63.452	-0.106	0.0	0.2	0.1
4296	63.498	63.452	-0.106	0.0	0.2	0.1
4320	63.498	63.452	-0.106	0.0	0.2	0.1
4344	63.498	63.452	-0.106	0.0	0.2	0.1
4368	63.499	63.453	-0.106	0.0	0.2	0.1
4392	63.499	63.453	-0.106	0.0	0.2	0.1
4416	63.499	63.453	-0.106	0.0	0.2	0.1
4440	63.499	63.453	-0.105	0.0	0.2	0.1
4464	63.499	63.453	-0.105	0.0	0.2	0.1
4488	63.499	63.453	-0.105	0.0	0.2	0.1
4512	63.499	63.453	-0.105	0.0	0.2	0.1
4536	63.499	63.453	-0.105	0.0	0.2	0.1
4560	63.499	63.453	-0.105	0.0	0.3	0.1
4584	63.499	63.453	-0.105	0.0	0.3	0.1
4608	63.499	63.453	-0.105	0.0	0.3	0.1
4632	63.499	63.453	-0.105	0.0	0.3	0.1
4656	63.499	63.453	-0.105	0.0	0.3	0.1
4680	63.499	63.453	-0.105	0.0	0.3	0.1
4704	63.499	63.453	-0.105	0.0	0.3	0.1
4728	63.499	63.453	-0.105	0.0	0.3	0.1
4752	63.499	63.454	-0.105	0.0	0.3	0.1
4776	63.499	63.454	-0.105	0.0	0.3	0.1
4800	63.499	63.454	-0.105	0.0	0.3	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.499	63.454	-0.105	0.0	0.3	0.1
4848	63.499	63.454	-0.105	0.0	0.3	0.1
4872	63.499	63.454	-0.105	0.0	0.3	0.1
4896	63.499	63.454	-0.105	0.0	0.3	0.1
4920	63.499	63.454	-0.105	0.0	0.3	0.1
4944	63.499	63.454	-0.105	0.0	0.3	0.1
4968	63.499	63.454	-0.105	0.0	0.3	0.1
4992	63.499	63.454	-0.105	0.0	0.3	0.1
5016	63.499	63.454	-0.105	0.0	0.3	0.1
5040	63.499	63.454	-0.105	0.0	0.3	0.1
5064	63.499	63.454	-0.105	0.0	0.3	0.1
5088	63.499	63.454	-0.105	0.0	0.3	0.1
5112	63.499	63.454	-0.105	0.0	0.3	0.1
5136	63.499	63.454	-0.105	0.0	0.3	0.1
5160	63.499	63.454	-0.105	0.0	0.3	0.1
5184	63.499	63.454	-0.105	0.0	0.3	0.1
5208	63.499	63.454	-0.105	0.0	0.3	0.1
5232	63.499	63.454	-0.105	0.0	0.3	0.1
5256	63.499	63.454	-0.105	0.0	0.3	0.1
5280	63.499	63.454	-0.105	0.0	0.3	0.1
5304	63.499	63.454	-0.105	0.0	0.3	0.1
5328	63.499	63.454	-0.105	0.0	0.3	0.1
5352	63.499	63.454	-0.105	0.0	0.3	0.1
5376	63.499	63.453	-0.105	0.0	0.3	0.1
5400	63.499	63.453	-0.105	0.0	0.3	0.1
5424	63.499	63.453	-0.105	0.0	0.3	0.1
5448	63.499	63.453	-0.105	0.0	0.3	0.1
5472	63.499	63.453	-0.105	0.0	0.3	0.1
5496	63.499	63.453	-0.105	0.0	0.3	0.1
5520	63.499	63.453	-0.105	0.0	0.3	0.1
5544	63.499	63.453	-0.105	0.0	0.3	0.1
5568	63.499	63.453	-0.105	0.0	0.2	0.1
5592	63.499	63.453	-0.105	0.0	0.2	0.1
5616	63.499	63.453	-0.105	0.0	0.2	0.1
5640	63.499	63.453	-0.105	0.0	0.2	0.1
5664	63.499	63.453	-0.105	0.0	0.2	0.1
5688	63.499	63.453	-0.106	0.0	0.2	0.1
5712	63.499	63.453	-0.106	0.0	0.2	0.1
5736	63.499	63.453	-0.106	0.0	0.2	0.1
5760	63.498	63.452	-0.106	0.0	0.2	0.1
5784	63.498	63.452	-0.106	0.0	0.2	0.1
5808	63.498	63.452	-0.106	0.0	0.2	0.1
5832	63.498	63.452	-0.106	0.0	0.2	0.1
5856	63.498	63.452	-0.106	0.0	0.2	0.1
5880	63.498	63.452	-0.106	0.0	0.2	0.1
5904	63.498	63.452	-0.106	0.0	0.2	0.1
5928	63.498	63.453	-0.106	0.0	0.2	0.1
5952	63.498	63.453	-0.106	0.0	0.2	0.1
5976	63.498	63.453	-0.106	0.0	0.2	0.1
6000	63.498	63.454	-0.106	0.0	0.2	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.498	63.454	-0.106	0.0	0.2	0.1
6048	63.498	63.454	-0.106	0.0	0.2	0.1
6072	63.498	63.454	-0.106	0.0	0.2	0.0
6096	63.498	63.455	-0.106	0.0	0.2	0.0
6120	63.498	63.455	-0.106	0.0	0.2	0.0
6144	63.498	63.455	-0.106	0.0	0.2	0.0
6168	63.498	63.455	-0.106	0.0	0.2	0.0
6192	63.498	63.456	-0.107	0.0	0.2	0.0
6216	63.498	63.456	-0.107	0.0	0.2	0.0
6240	63.498	63.456	-0.107	0.0	0.2	0.0
6264	63.497	63.456	-0.107	0.0	0.2	0.0
6288	63.497	63.456	-0.107	0.0	0.2	0.0
6312	63.497	63.456	-0.107	0.0	0.2	0.0
6336	63.497	63.456	-0.107	0.0	0.2	0.0
6360	63.497	63.456	-0.107	0.0	0.2	0.0
6384	63.497	63.456	-0.107	0.0	0.2	0.0
6408	63.497	63.456	-0.107	0.0	0.2	0.0
6432	63.497	63.456	-0.107	0.0	0.2	0.0
6456	63.497	63.456	-0.107	0.0	0.2	0.0
6480	63.497	63.456	-0.107	0.0	0.2	0.0
6504	63.497	63.456	-0.107	0.0	0.2	0.0
6528	63.497	63.456	-0.107	0.0	0.2	0.0
6552	63.497	63.456	-0.107	0.0	0.2	0.0
6576	63.497	63.455	-0.107	0.0	0.1	0.0
6600	63.497	63.455	-0.107	0.0	0.1	0.0
6624	63.497	63.455	-0.107	0.0	0.1	0.0
6648	63.497	63.455	-0.107	0.0	0.1	0.0
6672	63.497	63.454	-0.107	0.0	0.1	0.0
6696	63.497	63.454	-0.108	0.0	0.1	0.0
6720	63.497	63.453	-0.108	0.0	0.1	0.0
6744	63.497	63.453	-0.108	0.0	0.1	0.0
6768	63.496	63.452	-0.108	0.0	0.1	0.0
6792	63.496	63.452	-0.108	0.0	0.1	0.0
6816	63.496	63.451	-0.108	0.0	0.1	0.0
6840	63.496	63.451	-0.108	0.0	0.1	0.0
6864	63.496	63.451	-0.108	0.0	0.1	0.0
6888	63.496	63.450	-0.108	0.0	0.1	0.0
6912	63.496	63.450	-0.108	0.0	0.1	0.0
6936	63.496	63.449	-0.108	0.0	0.1	0.0
6960	63.496	63.449	-0.108	0.0	0.1	0.0
6984	63.496	63.449	-0.108	0.0	0.1	0.0
7008	63.496	63.448	-0.108	0.0	0.1	0.0
7032	63.496	63.448	-0.108	0.0	0.1	0.0
7056	63.496	63.448	-0.108	0.0	0.1	0.0
7080	63.496	63.448	-0.108	0.0	0.1	0.0
7104	63.496	63.448	-0.108	0.0	0.1	0.0
7128	63.496	63.448	-0.108	0.0	0.1	0.0
7152	63.496	63.448	-0.108	0.0	0.1	0.0
7176	63.496	63.447	-0.108	0.0	0.1	0.0
7200	63.496	63.447	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.496	63.447	-0.108	0.0	0.1	0.0
7248	63.496	63.447	-0.108	0.0	0.1	0.0
7272	63.496	63.447	-0.108	0.0	0.1	0.0
7296	63.496	63.447	-0.108	0.0	0.1	0.0
7320	63.496	63.447	-0.108	0.0	0.1	0.0
7344	63.496	63.447	-0.108	0.0	0.1	0.0
7368	63.496	63.447	-0.108	0.0	0.1	0.0
7392	63.496	63.447	-0.109	0.0	0.1	0.0
7416	63.496	63.447	-0.109	0.0	0.1	0.0
7440	63.496	63.447	-0.109	0.0	0.1	0.0
7464	63.496	63.447	-0.109	0.0	0.1	0.0
7488	63.495	63.447	-0.109	0.0	0.1	0.0
7512	63.495	63.447	-0.109	0.0	0.1	0.0
7536	63.495	63.447	-0.109	0.0	0.1	0.0
7560	63.495	63.447	-0.109	0.0	0.1	0.0
7584	63.495	63.446	-0.109	0.0	0.1	0.0
7608	63.495	63.446	-0.109	0.0	0.1	0.0
7632	63.495	63.446	-0.109	0.0	0.1	0.0
7656	63.495	63.446	-0.109	0.0	0.1	0.0
7680	63.495	63.446	-0.109	0.0	0.1	0.0
7704	63.495	63.446	-0.109	0.0	0.1	0.0
7728	63.495	63.446	-0.109	0.0	0.1	0.0
7752	63.495	63.446	-0.109	0.0	0.1	0.0
7776	63.495	63.446	-0.109	0.0	0.1	0.0
7800	63.495	63.446	-0.109	0.0	0.1	0.0
7824	63.495	63.446	-0.109	0.0	0.1	0.0
7848	63.495	63.446	-0.109	0.0	0.1	0.0
7872	63.495	63.446	-0.109	0.0	0.1	0.0
7896	63.495	63.446	-0.109	0.0	0.1	0.0
7920	63.495	63.446	-0.109	0.0	0.1	0.0
7944	63.495	63.446	-0.109	0.0	0.1	0.0
7968	63.495	63.446	-0.109	0.0	0.1	0.0
7992	63.495	63.446	-0.109	0.0	0.1	0.0
8016	63.495	63.446	-0.109	0.0	0.1	0.0
8040	63.495	63.446	-0.109	0.0	0.1	0.0
8064	63.495	63.446	-0.109	0.0	0.1	0.0
8088	63.495	63.446	-0.109	0.0	0.1	0.0
8112	63.495	63.446	-0.109	0.0	0.1	0.0
8136	63.495	63.446	-0.109	0.0	0.1	0.0
8160	63.495	63.446	-0.109	0.0	0.1	0.0
8184	63.495	63.446	-0.109	0.0	0.1	0.0
8208	63.495	63.446	-0.109	0.0	0.1	0.0
8232	63.495	63.446	-0.109	0.0	0.1	0.0
8256	63.495	63.446	-0.109	0.0	0.1	0.0
8280	63.495	63.446	-0.109	0.0	0.1	0.0
8304	63.495	63.446	-0.109	0.0	0.0	0.0
8328	63.495	63.446	-0.109	0.0	0.0	0.0
8352	63.495	63.446	-0.109	0.0	0.0	0.0
8376	63.495	63.446	-0.109	0.0	0.0	0.0
8400	63.495	63.446	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.495	63.446	-0.109	0.0	0.0	0.0
8448	63.495	63.446	-0.109	0.0	0.0	0.0
8472	63.495	63.446	-0.109	0.0	0.0	0.0
8496	63.495	63.446	-0.109	0.0	0.0	0.0
8520	63.495	63.446	-0.109	0.0	0.0	0.0
8544	63.495	63.446	-0.109	0.0	0.0	0.0
8568	63.495	63.446	-0.109	0.0	0.0	0.0
8592	63.495	63.446	-0.109	0.0	0.0	0.0
8616	63.495	63.446	-0.109	0.0	0.0	0.0
8640	63.495	63.446	-0.109	0.0	0.0	0.0
8664	63.495	63.446	-0.109	0.0	0.0	0.0
8688	63.495	63.446	-0.109	0.0	0.0	0.0
8712	63.495	63.446	-0.109	0.0	0.0	0.0
8736	63.495	63.446	-0.109	0.0	0.0	0.0
8760	63.495	63.446	-0.109	0.0	0.0	0.0
8784	63.495	63.446	-0.109	0.0	0.0	0.0
8808	63.495	63.446	-0.109	0.0	0.0	0.0
8832	63.495	63.446	-0.109	0.0	0.0	0.0
8856	63.495	63.446	-0.109	0.0	0.0	0.0
8880	63.495	63.446	-0.109	0.0	0.0	0.0
8904	63.495	63.446	-0.109	0.0	0.0	0.0
8928	63.495	63.446	-0.109	0.0	0.0	0.0
8952	63.495	63.446	-0.109	0.0	0.0	0.0
8976	63.495	63.446	-0.109	0.0	0.0	0.0
9000	63.495	63.446	-0.109	0.0	0.0	0.0
9024	63.495	63.446	-0.109	0.0	0.0	0.0
9048	63.495	63.446	-0.109	0.0	0.0	0.0
9072	63.495	63.446	-0.109	0.0	0.0	0.0
9096	63.495	63.446	-0.109	0.0	0.0	0.0
9120	63.495	63.446	-0.109	0.0	0.0	0.0
9144	63.495	63.446	-0.109	0.0	0.0	0.0
9168	63.495	63.446	-0.109	0.0	0.0	0.0
9192	63.495	63.446	-0.109	0.0	0.0	0.0
9216	63.495	63.446	-0.109	0.0	0.0	0.0
9240	63.495	63.446	-0.109	0.0	0.0	0.0
9264	63.495	63.446	-0.109	0.0	0.0	0.0
9288	63.495	63.446	-0.109	0.0	0.0	0.0
9312	63.495	63.446	-0.109	0.0	0.0	0.0
9336	63.495	63.446	-0.109	0.0	0.0	0.0
9360	63.495	63.446	-0.109	0.0	0.0	0.0
9384	63.495	63.446	-0.109	0.0	0.0	0.0
9408	63.495	63.446	-0.109	0.0	0.0	0.0
9432	63.495	63.446	-0.109	0.0	0.0	0.0
9456	63.495	63.446	-0.109	0.0	0.0	0.0
9480	63.495	63.446	-0.109	0.0	0.0	0.0
9504	63.495	63.446	-0.109	0.0	0.0	0.0
9528	63.495	63.446	-0.109	0.0	0.0	0.0
9552	63.495	63.446	-0.109	0.0	0.0	0.0
9576	63.495	63.446	-0.109	0.0	0.0	0.0
9600	63.495	63.445	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.495	63.445	-0.109	0.0	0.0	0.0
9648	63.495	63.445	-0.109	0.0	0.0	0.0
9672	63.495	63.445	-0.109	0.0	0.0	0.0
9696	63.495	63.445	-0.109	0.0	0.0	0.0
9720	63.495	63.445	-0.109	0.0	0.0	0.0
9744	63.495	63.445	-0.109	0.0	0.0	0.0
9768	63.495	63.445	-0.109	0.0	0.0	0.0
9792	63.495	63.445	-0.110	0.0	0.0	0.0
9816	63.495	63.445	-0.110	0.0	0.0	0.0
9840	63.495	63.445	-0.110	0.0	0.0	0.0
9864	63.495	63.445	-0.110	0.0	0.0	0.0
9888	63.494	63.445	-0.110	0.0	0.0	0.0
9912	63.494	63.445	-0.110	0.0	0.0	0.0
9936	63.494	63.445	-0.110	0.0	0.0	0.0
9960	63.494	63.445	-0.110	0.0	0.0	0.0
9984	63.494	63.445	-0.110	0.0	0.0	0.0
10008	63.494	63.444	-0.110	0.0	0.0	0.0
10032	63.494	63.444	-0.110	0.0	0.0	0.0
10056	63.494	63.444	-0.110	0.0	0.0	0.0
10080	63.494	63.444	-0.110	0.0	0.0	0.0
10104	63.494	63.444	-0.110	0.0	0.0	0.0
10128	63.494	63.444	-0.110	0.0	0.0	0.0
10152	63.494	63.444	-0.110	0.0	0.0	0.0
10176	63.494	63.444	-0.110	0.0	0.0	0.0
10200	63.494	63.444	-0.110	0.0	0.0	0.0
10224	63.494	63.444	-0.110	0.0	0.0	0.0
10248	63.494	63.444	-0.110	0.0	0.0	0.0
10272	63.494	63.444	-0.110	0.0	0.0	0.0
10296	63.494	63.444	-0.110	0.0	0.0	0.0
10320	63.494	63.444	-0.110	0.0	0.0	0.0
10344	63.494	63.444	-0.110	0.0	0.0	0.0
10368	63.494	63.444	-0.110	0.0	0.0	0.0
10392	63.494	63.444	-0.110	0.0	0.0	0.0
10416	63.494	63.444	-0.110	0.0	0.0	0.0
10440	63.494	63.444	-0.110	0.0	0.0	0.0
10464	63.494	63.444	-0.110	0.0	0.0	0.0
10488	63.494	63.444	-0.110	0.0	0.0	0.0
10512	63.494	63.444	-0.110	0.0	0.0	0.0
10536	63.494	63.444	-0.110	0.0	0.0	0.0
10560	63.494	63.444	-0.110	0.0	0.0	0.0
10584	63.494	63.444	-0.110	0.0	0.0	0.0
10608	63.494	63.444	-0.110	0.0	0.0	0.0
10632	63.494	63.444	-0.110	0.0	0.0	0.0
10656	63.494	63.444	-0.110	0.0	0.0	0.0
10680	63.494	63.444	-0.110	0.0	0.0	0.0
10704	63.494	63.444	-0.110	0.0	0.0	0.0
10728	63.494	63.444	-0.110	0.0	0.0	0.0
10752	63.494	63.444	-0.110	0.0	0.0	0.0
10776	63.494	63.444	-0.110	0.0	0.0	0.0
10800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.494	63.444	-0.110	0.0	0.0	0.0
10848	63.494	63.444	-0.110	0.0	0.0	0.0
10872	63.494	63.444	-0.110	0.0	0.0	0.0
10896	63.494	63.444	-0.110	0.0	0.0	0.0
10920	63.494	63.444	-0.110	0.0	0.0	0.0
10944	63.494	63.444	-0.110	0.0	0.0	0.0
10968	63.494	63.444	-0.110	0.0	0.0	0.0
10992	63.494	63.444	-0.110	0.0	0.0	0.0
11016	63.494	63.444	-0.110	0.0	0.0	0.0
11040	63.494	63.444	-0.110	0.0	0.0	0.0
11064	63.494	63.444	-0.110	0.0	0.0	0.0
11088	63.494	63.444	-0.110	0.0	0.0	0.0
11112	63.494	63.444	-0.110	0.0	0.0	0.0
11136	63.494	63.444	-0.110	0.0	0.0	0.0
11160	63.494	63.444	-0.110	0.0	0.0	0.0
11184	63.494	63.444	-0.110	0.0	0.0	0.0
11208	63.494	63.444	-0.110	0.0	0.0	0.0
11232	63.494	63.444	-0.110	0.0	0.0	0.0
11256	63.494	63.444	-0.110	0.0	0.0	0.0
11280	63.494	63.444	-0.110	0.0	0.0	0.0
11304	63.494	63.444	-0.110	0.0	0.0	0.0
11328	63.494	63.444	-0.110	0.0	0.0	0.0
11352	63.494	63.444	-0.110	0.0	0.0	0.0
11376	63.494	63.444	-0.110	0.0	0.0	0.0
11400	63.494	63.444	-0.110	0.0	0.0	0.0
11424	63.494	63.444	-0.110	0.0	0.0	0.0
11448	63.494	63.444	-0.110	0.0	0.0	0.0
11472	63.494	63.444	-0.110	0.0	0.0	0.0
11496	63.494	63.444	-0.110	0.0	0.0	0.0
11520	63.494	63.444	-0.110	0.0	0.0	0.0
11544	63.494	63.444	-0.110	0.0	0.0	0.0
11568	63.494	63.444	-0.110	0.0	0.0	0.0
11592	63.494	63.444	-0.110	0.0	0.0	0.0
11616	63.494	63.444	-0.110	0.0	0.0	0.0
11640	63.494	63.444	-0.110	0.0	0.0	0.0
11664	63.494	63.444	-0.110	0.0	0.0	0.0
11688	63.494	63.444	-0.110	0.0	0.0	0.0
11712	63.494	63.444	-0.110	0.0	0.0	0.0
11736	63.494	63.444	-0.110	0.0	0.0	0.0
11760	63.494	63.444	-0.110	0.0	0.0	0.0
11784	63.494	63.444	-0.110	0.0	0.0	0.0
11808	63.494	63.444	-0.110	0.0	0.0	0.0
11832	63.494	63.444	-0.110	0.0	0.0	0.0
11856	63.494	63.444	-0.110	0.0	0.0	0.0
11880	63.494	63.444	-0.110	0.0	0.0	0.0
11904	63.494	63.444	-0.110	0.0	0.0	0.0
11928	63.494	63.444	-0.110	0.0	0.0	0.0
11952	63.494	63.444	-0.110	0.0	0.0	0.0
11976	63.494	63.444	-0.110	0.0	0.0	0.0
12000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.494	63.444	-0.110	0.0	0.0	0.0
12048	63.494	63.444	-0.110	0.0	0.0	0.0
12072	63.494	63.444	-0.110	0.0	0.0	0.0
12096	63.494	63.444	-0.110	0.0	0.0	0.0
12120	63.494	63.444	-0.110	0.0	0.0	0.0
12144	63.494	63.444	-0.110	0.0	0.0	0.0
12168	63.494	63.444	-0.110	0.0	0.0	0.0
12192	63.494	63.444	-0.110	0.0	0.0	0.0
12216	63.494	63.444	-0.110	0.0	0.0	0.0
12240	63.494	63.444	-0.110	0.0	0.0	0.0
12264	63.494	63.444	-0.110	0.0	0.0	0.0
12288	63.494	63.444	-0.110	0.0	0.0	0.0
12312	63.494	63.444	-0.110	0.0	0.0	0.0
12336	63.494	63.444	-0.110	0.0	0.0	0.0
12360	63.494	63.444	-0.110	0.0	0.0	0.0
12384	63.494	63.444	-0.110	0.0	0.0	0.0
12408	63.494	63.444	-0.110	0.0	0.0	0.0
12432	63.494	63.444	-0.110	0.0	0.0	0.0
12456	63.494	63.444	-0.110	0.0	0.0	0.0
12480	63.494	63.444	-0.110	0.0	0.0	0.0
12504	63.494	63.444	-0.110	0.0	0.0	0.0
12528	63.494	63.444	-0.110	0.0	0.0	0.0
12552	63.494	63.444	-0.110	0.0	0.0	0.0
12576	63.494	63.444	-0.110	0.0	0.0	0.0
12600	63.494	63.444	-0.110	0.0	0.0	0.0
12624	63.494	63.444	-0.110	0.0	0.0	0.0
12648	63.494	63.444	-0.110	0.0	0.0	0.0
12672	63.494	63.444	-0.110	0.0	0.0	0.0
12696	63.494	63.444	-0.110	0.0	0.0	0.0
12720	63.494	63.444	-0.110	0.0	0.0	0.0
12744	63.494	63.444	-0.110	0.0	0.0	0.0
12768	63.494	63.444	-0.110	0.0	0.0	0.0
12792	63.494	63.444	-0.110	0.0	0.0	0.0
12816	63.494	63.444	-0.110	0.0	0.0	0.0
12840	63.494	63.444	-0.110	0.0	0.0	0.0
12864	63.494	63.444	-0.110	0.0	0.0	0.0
12888	63.494	63.444	-0.110	0.0	0.0	0.0
12912	63.494	63.444	-0.110	0.0	0.0	0.0
12936	63.494	63.444	-0.110	0.0	0.0	0.0
12960	63.494	63.444	-0.110	0.0	0.0	0.0
12984	63.494	63.444	-0.110	0.0	0.0	0.0
13008	63.494	63.444	-0.110	0.0	0.0	0.0
13032	63.494	63.444	-0.110	0.0	0.0	0.0
13056	63.494	63.444	-0.110	0.0	0.0	0.0
13080	63.494	63.444	-0.110	0.0	0.0	0.0
13104	63.494	63.444	-0.110	0.0	0.0	0.0
13128	63.494	63.444	-0.110	0.0	0.0	0.0
13152	63.494	63.444	-0.110	0.0	0.0	0.0
13176	63.494	63.444	-0.110	0.0	0.0	0.0
13200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.494	63.444	-0.110	0.0	0.0	0.0
13248	63.494	63.444	-0.110	0.0	0.0	0.0
13272	63.494	63.444	-0.110	0.0	0.0	0.0
13296	63.494	63.444	-0.110	0.0	0.0	0.0
13320	63.494	63.444	-0.110	0.0	0.0	0.0
13344	63.494	63.444	-0.110	0.0	0.0	0.0
13368	63.494	63.444	-0.110	0.0	0.0	0.0
13392	63.494	63.444	-0.110	0.0	0.0	0.0
13416	63.494	63.444	-0.110	0.0	0.0	0.0
13440	63.494	63.444	-0.110	0.0	0.0	0.0
13464	63.494	63.444	-0.110	0.0	0.0	0.0
13488	63.494	63.444	-0.110	0.0	0.0	0.0
13512	63.494	63.444	-0.110	0.0	0.0	0.0
13536	63.494	63.444	-0.110	0.0	0.0	0.0
13560	63.494	63.444	-0.110	0.0	0.0	0.0
13584	63.494	63.444	-0.110	0.0	0.0	0.0
13608	63.494	63.444	-0.110	0.0	0.0	0.0
13632	63.494	63.444	-0.110	0.0	0.0	0.0
13656	63.494	63.444	-0.110	0.0	0.0	0.0
13680	63.494	63.444	-0.110	0.0	0.0	0.0
13704	63.494	63.444	-0.110	0.0	0.0	0.0
13728	63.494	63.444	-0.110	0.0	0.0	0.0
13752	63.494	63.444	-0.110	0.0	0.0	0.0
13776	63.494	63.444	-0.110	0.0	0.0	0.0
13800	63.494	63.444	-0.110	0.0	0.0	0.0
13824	63.494	63.444	-0.110	0.0	0.0	0.0
13848	63.494	63.444	-0.110	0.0	0.0	0.0
13872	63.494	63.444	-0.110	0.0	0.0	0.0
13896	63.494	63.444	-0.110	0.0	0.0	0.0
13920	63.494	63.444	-0.110	0.0	0.0	0.0
13944	63.494	63.444	-0.110	0.0	0.0	0.0
13968	63.494	63.444	-0.110	0.0	0.0	0.0
13992	63.494	63.444	-0.110	0.0	0.0	0.0
14016	63.494	63.444	-0.110	0.0	0.0	0.0
14040	63.494	63.444	-0.110	0.0	0.0	0.0
14064	63.494	63.444	-0.110	0.0	0.0	0.0
14088	63.494	63.444	-0.110	0.0	0.0	0.0
14112	63.494	63.444	-0.110	0.0	0.0	0.0
14136	63.494	63.444	-0.110	0.0	0.0	0.0
14160	63.494	63.444	-0.110	0.0	0.0	0.0
14184	63.494	63.444	-0.110	0.0	0.0	0.0
14208	63.494	63.444	-0.110	0.0	0.0	0.0
14232	63.494	63.444	-0.110	0.0	0.0	0.0
14256	63.494	63.444	-0.110	0.0	0.0	0.0
14280	63.494	63.444	-0.110	0.0	0.0	0.0
14304	63.494	63.444	-0.110	0.0	0.0	0.0
14328	63.494	63.444	-0.110	0.0	0.0	0.0
14352	63.494	63.444	-0.110	0.0	0.0	0.0
14376	63.494	63.444	-0.110	0.0	0.0	0.0
14400	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.494	63.444	-0.110	0.0	0.0	0.0
14448	63.494	63.444	-0.110	0.0	0.0	0.0
14472	63.494	63.444	-0.110	0.0	0.0	0.0
14496	63.494	63.444	-0.110	0.0	0.0	0.0
14520	63.494	63.444	-0.110	0.0	0.0	0.0
14544	63.494	63.444	-0.110	0.0	0.0	0.0
14568	63.494	63.444	-0.110	0.0	0.0	0.0
14592	63.494	63.444	-0.110	0.0	0.0	0.0
14616	63.494	63.444	-0.110	0.0	0.0	0.0
14640	63.494	63.444	-0.110	0.0	0.0	0.0
14664	63.494	63.444	-0.110	0.0	0.0	0.0
14688	63.494	63.444	-0.110	0.0	0.0	0.0
14712	63.494	63.444	-0.110	0.0	0.0	0.0
14736	63.494	63.444	-0.110	0.0	0.0	0.0
14760	63.494	63.444	-0.110	0.0	0.0	0.0
14784	63.494	63.444	-0.110	0.0	0.0	0.0
14808	63.494	63.444	-0.110	0.0	0.0	0.0
14832	63.494	63.444	-0.110	0.0	0.0	0.0
14856	63.494	63.444	-0.110	0.0	0.0	0.0
14880	63.494	63.444	-0.110	0.0	0.0	0.0
14904	63.494	63.444	-0.110	0.0	0.0	0.0
14928	63.494	63.444	-0.110	0.0	0.0	0.0
14952	63.494	63.444	-0.110	0.0	0.0	0.0
14976	63.494	63.444	-0.110	0.0	0.0	0.0
15000	63.494	63.444	-0.110	0.0	0.0	0.0
15024	63.494	63.444	-0.110	0.0	0.0	0.0
15048	63.494	63.444	-0.110	0.0	0.0	0.0
15072	63.494	63.444	-0.110	0.0	0.0	0.0
15096	63.494	63.444	-0.110	0.0	0.0	0.0
15120	63.494	63.444	-0.110	0.0	0.0	0.0
15144	63.494	63.444	-0.110	0.0	0.0	0.0
15168	63.494	63.444	-0.110	0.0	0.0	0.0
15192	63.494	63.444	-0.110	0.0	0.0	0.0
15216	63.494	63.444	-0.110	0.0	0.0	0.0
15240	63.494	63.444	-0.110	0.0	0.0	0.0
15264	63.494	63.444	-0.110	0.0	0.0	0.0
15288	63.494	63.444	-0.110	0.0	0.0	0.0
15312	63.494	63.444	-0.110	0.0	0.0	0.0
15336	63.494	63.444	-0.110	0.0	0.0	0.0
15360	63.494	63.444	-0.110	0.0	0.0	0.0
15384	63.494	63.444	-0.110	0.0	0.0	0.0
15408	63.494	63.444	-0.110	0.0	0.0	0.0
15432	63.494	63.444	-0.110	0.0	0.0	0.0
15456	63.494	63.444	-0.110	0.0	0.0	0.0
15480	63.494	63.444	-0.110	0.0	0.0	0.0
15504	63.494	63.444	-0.110	0.0	0.0	0.0
15528	63.494	63.444	-0.110	0.0	0.0	0.0
15552	63.494	63.444	-0.110	0.0	0.0	0.0
15576	63.494	63.444	-0.110	0.0	0.0	0.0
15600	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.494	63.444	-0.110	0.0	0.0	0.0
15648	63.494	63.444	-0.110	0.0	0.0	0.0
15672	63.494	63.444	-0.110	0.0	0.0	0.0
15696	63.494	63.444	-0.110	0.0	0.0	0.0
15720	63.494	63.444	-0.110	0.0	0.0	0.0
15744	63.494	63.444	-0.110	0.0	0.0	0.0
15768	63.494	63.444	-0.110	0.0	0.0	0.0
15792	63.494	63.444	-0.110	0.0	0.0	0.0
15816	63.494	63.444	-0.110	0.0	0.0	0.0
15840	63.494	63.444	-0.110	0.0	0.0	0.0
15864	63.494	63.444	-0.110	0.0	0.0	0.0
15888	63.494	63.444	-0.110	0.0	0.0	0.0
15912	63.494	63.444	-0.110	0.0	0.0	0.0
15936	63.494	63.444	-0.110	0.0	0.0	0.0
15960	63.494	63.444	-0.110	0.0	0.0	0.0
15984	63.494	63.444	-0.110	0.0	0.0	0.0
16008	63.494	63.444	-0.110	0.0	0.0	0.0
16032	63.494	63.444	-0.110	0.0	0.0	0.0
16056	63.494	63.444	-0.110	0.0	0.0	0.0
16080	63.494	63.444	-0.110	0.0	0.0	0.0
16104	63.494	63.444	-0.110	0.0	0.0	0.0
16128	63.494	63.444	-0.110	0.0	0.0	0.0
16152	63.494	63.444	-0.110	0.0	0.0	0.0
16176	63.494	63.444	-0.110	0.0	0.0	0.0
16200	63.494	63.444	-0.110	0.0	0.0	0.0
16224	63.494	63.444	-0.110	0.0	0.0	0.0
16248	63.494	63.444	-0.110	0.0	0.0	0.0
16272	63.494	63.444	-0.110	0.0	0.0	0.0
16296	63.494	63.444	-0.110	0.0	0.0	0.0
16320	63.494	63.444	-0.110	0.0	0.0	0.0
16344	63.494	63.444	-0.110	0.0	0.0	0.0
16368	63.494	63.444	-0.110	0.0	0.0	0.0
16392	63.494	63.444	-0.110	0.0	0.0	0.0
16416	63.494	63.444	-0.110	0.0	0.0	0.0
16440	63.494	63.444	-0.110	0.0	0.0	0.0
16464	63.494	63.444	-0.110	0.0	0.0	0.0
16488	63.494	63.444	-0.110	0.0	0.0	0.0
16512	63.494	63.444	-0.110	0.0	0.0	0.0
16536	63.494	63.444	-0.110	0.0	0.0	0.0
16560	63.494	63.444	-0.110	0.0	0.0	0.0
16584	63.494	63.444	-0.110	0.0	0.0	0.0
16608	63.494	63.444	-0.110	0.0	0.0	0.0
16632	63.494	63.444	-0.110	0.0	0.0	0.0
16656	63.494	63.444	-0.110	0.0	0.0	0.0
16680	63.494	63.444	-0.110	0.0	0.0	0.0
16704	63.494	63.444	-0.110	0.0	0.0	0.0
16728	63.494	63.444	-0.110	0.0	0.0	0.0
16752	63.494	63.444	-0.110	0.0	0.0	0.0
16776	63.494	63.444	-0.110	0.0	0.0	0.0
16800	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.494	63.444	-0.110	0.0	0.0	0.0
16848	63.494	63.444	-0.110	0.0	0.0	0.0
16872	63.494	63.444	-0.110	0.0	0.0	0.0
16896	63.494	63.444	-0.110	0.0	0.0	0.0
16920	63.494	63.444	-0.110	0.0	0.0	0.0
16944	63.494	63.444	-0.110	0.0	0.0	0.0
16968	63.494	63.444	-0.110	0.0	0.0	0.0
16992	63.494	63.444	-0.110	0.0	0.0	0.0
17016	63.494	63.444	-0.110	0.0	0.0	0.0
17040	63.494	63.444	-0.110	0.0	0.0	0.0
17064	63.494	63.444	-0.110	0.0	0.0	0.0
17088	63.494	63.444	-0.110	0.0	0.0	0.0
17112	63.494	63.444	-0.110	0.0	0.0	0.0
17136	63.494	63.444	-0.110	0.0	0.0	0.0
17160	63.494	63.444	-0.110	0.0	0.0	0.0
17184	63.494	63.444	-0.110	0.0	0.0	0.0
17208	63.494	63.444	-0.110	0.0	0.0	0.0
17232	63.494	63.444	-0.110	0.0	0.0	0.0
17256	63.494	63.444	-0.110	0.0	0.0	0.0
17280	63.494	63.444	-0.110	0.0	0.0	0.0
17304	63.494	63.444	-0.110	0.0	0.0	0.0
17328	63.494	63.444	-0.110	0.0	0.0	0.0
17352	63.494	63.444	-0.110	0.0	0.0	0.0
17376	63.494	63.444	-0.110	0.0	0.0	0.0
17400	63.494	63.444	-0.110	0.0	0.0	0.0
17424	63.494	63.444	-0.110	0.0	0.0	0.0
17448	63.494	63.444	-0.110	0.0	0.0	0.0
17472	63.494	63.444	-0.110	0.0	0.0	0.0
17496	63.494	63.444	-0.110	0.0	0.0	0.0
17520	63.494	63.444	-0.110	0.0	0.0	0.0
17544	63.494	63.444	-0.110	0.0	0.0	0.0
17568	63.494	63.444	-0.110	0.0	0.0	0.0
17592	63.494	63.444	-0.110	0.0	0.0	0.0
17616	63.494	63.444	-0.110	0.0	0.0	0.0
17640	63.494	63.444	-0.110	0.0	0.0	0.0
17664	63.494	63.444	-0.110	0.0	0.0	0.0
17688	63.494	63.444	-0.110	0.0	0.0	0.0
17712	63.494	63.444	-0.110	0.0	0.0	0.0
17736	63.494	63.444	-0.110	0.0	0.0	0.0
17760	63.494	63.444	-0.110	0.0	0.0	0.0
17784	63.494	63.444	-0.110	0.0	0.0	0.0
17808	63.494	63.444	-0.110	0.0	0.0	0.0
17832	63.494	63.444	-0.110	0.0	0.0	0.0
17856	63.494	63.444	-0.110	0.0	0.0	0.0
17880	63.494	63.444	-0.110	0.0	0.0	0.0
17904	63.494	63.444	-0.110	0.0	0.0	0.0
17928	63.494	63.444	-0.110	0.0	0.0	0.0
17952	63.494	63.444	-0.110	0.0	0.0	0.0
17976	63.494	63.444	-0.110	0.0	0.0	0.0
18000	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.494	63.444	-0.110	0.0	0.0	0.0
18048	63.494	63.444	-0.110	0.0	0.0	0.0
18072	63.494	63.444	-0.110	0.0	0.0	0.0
18096	63.494	63.444	-0.110	0.0	0.0	0.0
18120	63.494	63.444	-0.110	0.0	0.0	0.0
18144	63.494	63.444	-0.110	0.0	0.0	0.0
18168	63.494	63.444	-0.110	0.0	0.0	0.0
18192	63.494	63.444	-0.110	0.0	0.0	0.0
18216	63.494	63.444	-0.110	0.0	0.0	0.0
18240	63.494	63.444	-0.110	0.0	0.0	0.0
18264	63.494	63.444	-0.110	0.0	0.0	0.0
18288	63.494	63.444	-0.110	0.0	0.0	0.0
18312	63.494	63.444	-0.110	0.0	0.0	0.0
18336	63.494	63.444	-0.110	0.0	0.0	0.0
18360	63.494	63.444	-0.110	0.0	0.0	0.0
18384	63.494	63.444	-0.110	0.0	0.0	0.0
18408	63.494	63.444	-0.110	0.0	0.0	0.0
18432	63.494	63.444	-0.110	0.0	0.0	0.0
18456	63.494	63.444	-0.110	0.0	0.0	0.0
18480	63.494	63.444	-0.110	0.0	0.0	0.0
18504	63.494	63.444	-0.110	0.0	0.0	0.0
18528	63.494	63.444	-0.110	0.0	0.0	0.0
18552	63.494	63.444	-0.110	0.0	0.0	0.0
18576	63.494	63.444	-0.110	0.0	0.0	0.0
18600	63.494	63.444	-0.110	0.0	0.0	0.0
18624	63.494	63.444	-0.110	0.0	0.0	0.0
18648	63.494	63.444	-0.110	0.0	0.0	0.0
18672	63.494	63.444	-0.110	0.0	0.0	0.0
18696	63.494	63.444	-0.110	0.0	0.0	0.0
18720	63.494	63.444	-0.110	0.0	0.0	0.0
18744	63.494	63.444	-0.110	0.0	0.0	0.0
18768	63.494	63.444	-0.110	0.0	0.0	0.0
18792	63.494	63.444	-0.110	0.0	0.0	0.0
18816	63.494	63.444	-0.110	0.0	0.0	0.0
18840	63.494	63.444	-0.110	0.0	0.0	0.0
18864	63.494	63.444	-0.110	0.0	0.0	0.0
18888	63.494	63.444	-0.110	0.0	0.0	0.0
18912	63.494	63.444	-0.110	0.0	0.0	0.0
18936	63.494	63.444	-0.110	0.0	0.0	0.0
18960	63.494	63.444	-0.110	0.0	0.0	0.0
18984	63.494	63.444	-0.110	0.0	0.0	0.0
19008	63.494	63.444	-0.110	0.0	0.0	0.0
19032	63.494	63.444	-0.110	0.0	0.0	0.0
19056	63.494	63.444	-0.110	0.0	0.0	0.0
19080	63.494	63.444	-0.110	0.0	0.0	0.0
19104	63.494	63.444	-0.110	0.0	0.0	0.0
19128	63.494	63.444	-0.110	0.0	0.0	0.0
19152	63.494	63.444	-0.110	0.0	0.0	0.0
19176	63.494	63.444	-0.110	0.0	0.0	0.0
19200	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.494	63.444	-0.110	0.0	0.0	0.0
19248	63.494	63.444	-0.110	0.0	0.0	0.0
19272	63.494	63.444	-0.110	0.0	0.0	0.0
19296	63.494	63.444	-0.110	0.0	0.0	0.0
19320	63.494	63.444	-0.110	0.0	0.0	0.0
19344	63.494	63.444	-0.110	0.0	0.0	0.0
19368	63.494	63.444	-0.110	0.0	0.0	0.0
19392	63.494	63.444	-0.110	0.0	0.0	0.0
19416	63.494	63.444	-0.110	0.0	0.0	0.0
19440	63.494	63.444	-0.110	0.0	0.0	0.0
19464	63.494	63.444	-0.110	0.0	0.0	0.0
19488	63.494	63.444	-0.110	0.0	0.0	0.0
19512	63.494	63.444	-0.110	0.0	0.0	0.0
19536	63.494	63.444	-0.110	0.0	0.0	0.0
19560	63.494	63.444	-0.110	0.0	0.0	0.0
19584	63.494	63.444	-0.110	0.0	0.0	0.0
19608	63.494	63.444	-0.110	0.0	0.0	0.0
19632	63.494	63.444	-0.110	0.0	0.0	0.0
19656	63.494	63.444	-0.110	0.0	0.0	0.0
19680	63.494	63.444	-0.110	0.0	0.0	0.0
19704	63.494	63.444	-0.110	0.0	0.0	0.0
19728	63.494	63.444	-0.110	0.0	0.0	0.0
19752	63.494	63.444	-0.110	0.0	0.0	0.0
19776	63.494	63.444	-0.110	0.0	0.0	0.0
19800	63.494	63.444	-0.110	0.0	0.0	0.0
19824	63.494	63.444	-0.110	0.0	0.0	0.0
19848	63.494	63.444	-0.110	0.0	0.0	0.0
19872	63.494	63.444	-0.110	0.0	0.0	0.0
19896	63.494	63.444	-0.110	0.0	0.0	0.0
19920	63.494	63.444	-0.110	0.0	0.0	0.0
19944	63.494	63.444	-0.110	0.0	0.0	0.0
19968	63.494	63.444	-0.110	0.0	0.0	0.0
19992	63.494	63.444	-0.110	0.0	0.0	0.0
20016	63.494	63.444	-0.110	0.0	0.0	0.0
20040	63.494	63.444	-0.110	0.0	0.0	0.0
20064	63.494	63.444	-0.110	0.0	0.0	0.0
20088	63.494	63.444	-0.110	0.0	0.0	0.0
20112	63.494	63.444	-0.110	0.0	0.0	0.0
20136	63.494	63.444	-0.110	0.0	0.0	0.0
20160	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
72	65.400	65.000	-0.110	0.0	0.0	0.0
96	65.400	65.000	-0.110	0.0	0.0	0.0
120	65.400	65.000	-0.110	0.0	0.0	0.0
144	65.400	65.000	-0.110	0.0	0.0	0.0
168	65.400	65.000	-0.110	0.0	0.0	0.0
192	65.400	65.000	-0.110	0.0	0.0	0.0
216	65.400	65.000	-0.110	0.0	0.0	0.0
240	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
360	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0
504	65.400	65.000	-0.110	0.0	0.0	0.0
528	65.400	65.000	-0.110	0.0	0.0	0.0
552	65.400	65.000	-0.110	0.0	0.0	0.0
576	65.400	65.000	-0.110	0.0	0.0	0.0
600	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
744	65.400	65.000	-0.110	0.0	0.0	0.0
768	65.400	65.000	-0.110	0.0	0.0	0.0
792	65.400	65.000	-0.110	0.0	0.0	0.0
816	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
864	65.400	65.000	-0.110	0.0	0.0	0.0
888	65.400	65.000	-0.110	0.0	0.0	0.0
912	65.400	65.000	-0.110	0.0	0.0	0.0
936	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
984	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1032	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1128	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1176	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1464	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1512	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1560	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1608	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1656	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1704	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1752	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1800	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1848	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1896	65.400	65.000	-0.110	0.0	0.0	0.0
1920	65.400	65.000	-0.110	0.0	0.0	0.0
1944	65.400	65.000	-0.110	0.0	0.0	0.0
1968	65.400	65.000	-0.110	0.0	0.0	0.0
1992	65.400	65.000	-0.110	0.0	0.0	0.0
2016	65.400	65.000	-0.110	0.0	0.0	0.0
2040	65.400	65.000	-0.110	0.0	0.0	0.0
2064	65.400	65.000	-0.110	0.0	0.0	0.0
2088	65.400	65.000	-0.110	0.0	0.0	0.0
2112	65.400	65.000	-0.110	0.0	0.0	0.0
2136	65.400	65.000	-0.110	0.0	0.0	0.0
2160	65.400	65.000	-0.110	0.0	0.0	0.0
2184	65.400	65.000	-0.110	0.0	0.0	0.0
2208	65.400	65.000	-0.110	0.0	0.0	0.0
2232	65.400	65.000	-0.110	0.0	0.0	0.0
2256	65.400	65.000	-0.110	0.0	0.0	0.0
2280	65.400	65.000	-0.110	0.0	0.0	0.0
2304	65.400	65.000	-0.110	0.0	0.0	0.0
2328	65.400	65.000	-0.110	0.0	0.0	0.0
2352	65.400	65.000	-0.110	0.0	0.0	0.0
2376	65.400	65.000	-0.110	0.0	0.0	0.0
2400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.400	65.000	-0.110	0.0	0.0	0.0
2448	65.400	65.000	-0.110	0.0	0.0	0.0
2472	65.400	65.000	-0.110	0.0	0.0	0.0
2496	65.400	65.000	-0.110	0.0	0.0	0.0
2520	65.400	65.000	-0.110	0.0	0.0	0.0
2544	65.400	65.000	-0.110	0.0	0.0	0.0
2568	65.400	65.000	-0.110	0.0	0.0	0.0
2592	65.400	65.000	-0.110	0.0	0.0	0.0
2616	65.400	65.000	-0.110	0.0	0.0	0.0
2640	65.400	65.000	-0.110	0.0	0.0	0.0
2664	65.400	65.000	-0.110	0.0	0.0	0.0
2688	65.400	65.000	-0.110	0.0	0.0	0.0
2712	65.400	65.000	-0.110	0.0	0.0	0.0
2736	65.400	65.000	-0.110	0.0	0.0	0.0
2760	65.400	65.000	-0.110	0.0	0.0	0.0
2784	65.400	65.000	-0.110	0.0	0.0	0.0
2808	65.400	65.000	-0.110	0.0	0.0	0.0
2832	65.400	65.000	-0.110	0.0	0.0	0.0
2856	65.400	65.000	-0.110	0.0	0.0	0.0
2880	65.400	65.000	-0.110	0.0	0.0	0.0
2904	65.400	65.000	-0.110	0.0	0.0	0.0
2928	65.400	65.000	-0.110	0.0	0.0	0.0
2952	65.400	65.000	-0.110	0.0	0.0	0.0
2976	65.400	65.000	-0.110	0.0	0.0	0.0
3000	65.400	65.000	-0.110	0.0	0.0	0.0
3024	65.400	65.000	-0.110	0.0	0.0	0.0
3048	65.400	65.000	-0.110	0.0	0.1	0.0
3072	65.400	65.000	-0.110	0.0	0.1	0.0
3096	65.400	65.000	-0.110	0.0	0.1	0.0
3120	65.400	65.000	-0.110	0.0	0.1	0.0
3144	65.400	65.000	-0.110	0.0	0.1	0.0
3168	65.400	65.000	-0.110	0.0	0.1	0.0
3192	65.400	65.000	-0.110	0.0	0.1	0.0
3216	65.400	65.000	-0.110	0.0	0.1	0.0
3240	65.400	65.001	-0.110	0.0	0.1	0.0
3264	65.400	65.001	-0.110	0.0	0.1	0.0
3288	65.400	65.001	-0.110	0.0	0.1	0.0
3312	65.400	65.001	-0.110	0.0	0.1	0.0
3336	65.400	65.001	-0.110	0.0	0.1	0.0
3360	65.400	65.001	-0.110	0.0	0.1	0.0
3384	65.400	65.001	-0.110	0.0	0.1	0.0
3408	65.400	65.001	-0.110	0.0	0.1	0.0
3432	65.400	65.001	-0.110	0.0	0.1	0.0
3456	65.400	65.001	-0.110	0.0	0.1	0.0
3480	65.400	65.001	-0.110	0.0	0.1	0.0
3504	65.400	65.001	-0.110	0.0	0.1	0.0
3528	65.400	65.001	-0.110	0.0	0.1	0.0
3552	65.400	65.001	-0.110	0.0	0.1	0.0
3576	65.400	65.001	-0.110	0.0	0.1	0.0
3600	65.400	65.001	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.400	65.001	-0.110	0.0	0.1	0.0
3648	65.400	65.001	-0.110	0.0	0.1	0.0
3672	65.400	65.001	-0.110	0.0	0.1	0.0
3696	65.400	65.001	-0.110	0.0	0.1	0.0
3720	65.400	65.001	-0.110	0.0	0.1	0.0
3744	65.401	65.001	-0.109	0.0	0.1	0.0
3768	65.401	65.001	-0.109	0.0	0.1	0.0
3792	65.401	65.001	-0.109	0.0	0.1	0.0
3816	65.401	65.001	-0.109	0.0	0.1	0.0
3840	65.401	65.001	-0.109	0.0	0.1	0.0
3864	65.401	65.001	-0.109	0.0	0.1	0.0
3888	65.401	65.001	-0.109	0.0	0.1	0.0
3912	65.401	65.001	-0.109	0.0	0.1	0.0
3936	65.401	65.001	-0.109	0.0	0.1	0.0
3960	65.401	65.001	-0.109	0.0	0.1	0.0
3984	65.401	65.001	-0.109	0.0	0.1	0.0
4008	65.401	65.001	-0.109	0.0	0.1	0.0
4032	65.401	65.001	-0.109	0.0	0.1	0.0
4056	65.401	65.001	-0.109	0.0	0.1	0.0
4080	65.401	65.001	-0.109	0.0	0.1	0.0
4104	65.401	65.001	-0.109	0.0	0.1	0.0
4128	65.401	65.001	-0.109	0.0	0.1	0.0
4152	65.401	65.001	-0.109	0.0	0.1	0.0
4176	65.401	65.001	-0.109	0.0	0.1	0.0
4200	65.401	65.001	-0.109	0.0	0.1	0.0
4224	65.401	65.001	-0.109	0.0	0.1	0.0
4248	65.401	65.001	-0.109	0.0	0.1	0.0
4272	65.401	65.001	-0.109	0.0	0.1	0.0
4296	65.401	65.001	-0.109	0.0	0.1	0.0
4320	65.401	65.001	-0.109	0.0	0.1	0.0
4344	65.401	65.001	-0.109	0.0	0.1	0.0
4368	65.401	65.001	-0.109	0.0	0.1	0.0
4392	65.401	65.001	-0.109	0.0	0.1	0.0
4416	65.401	65.001	-0.109	0.0	0.1	0.0
4440	65.401	65.001	-0.109	0.0	0.1	0.0
4464	65.401	65.001	-0.109	0.0	0.1	0.0
4488	65.401	65.001	-0.109	0.0	0.1	0.0
4512	65.401	65.001	-0.109	0.0	0.1	0.0
4536	65.401	65.001	-0.109	0.0	0.1	0.0
4560	65.401	65.001	-0.109	0.0	0.1	0.0
4584	65.401	65.001	-0.109	0.0	0.1	0.0
4608	65.401	65.001	-0.109	0.0	0.1	0.0
4632	65.401	65.001	-0.109	0.0	0.1	0.0
4656	65.401	65.001	-0.109	0.0	0.1	0.0
4680	65.401	65.001	-0.109	0.0	0.1	0.0
4704	65.401	65.001	-0.109	0.0	0.1	0.0
4728	65.401	65.001	-0.109	0.0	0.1	0.0
4752	65.401	65.001	-0.109	0.0	0.1	0.0
4776	65.401	65.001	-0.109	0.0	0.1	0.0
4800	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.401	65.001	-0.109	0.0	0.1	0.0
4848	65.401	65.001	-0.109	0.0	0.1	0.0
4872	65.401	65.001	-0.109	0.0	0.1	0.0
4896	65.401	65.001	-0.109	0.0	0.1	0.0
4920	65.401	65.001	-0.109	0.0	0.1	0.0
4944	65.401	65.001	-0.109	0.0	0.1	0.0
4968	65.401	65.001	-0.109	0.0	0.1	0.0
4992	65.401	65.001	-0.109	0.0	0.1	0.0
5016	65.401	65.001	-0.109	0.0	0.1	0.0
5040	65.401	65.001	-0.109	0.0	0.1	0.0
5064	65.401	65.001	-0.109	0.0	0.1	0.0
5088	65.401	65.001	-0.109	0.0	0.1	0.0
5112	65.401	65.001	-0.109	0.0	0.1	0.0
5136	65.401	65.001	-0.109	0.0	0.1	0.0
5160	65.401	65.001	-0.109	0.0	0.1	0.0
5184	65.401	65.001	-0.109	0.0	0.1	0.0
5208	65.401	65.001	-0.109	0.0	0.1	0.0
5232	65.401	65.001	-0.109	0.0	0.1	0.0
5256	65.401	65.001	-0.109	0.0	0.1	0.0
5280	65.401	65.001	-0.109	0.0	0.1	0.0
5304	65.401	65.001	-0.109	0.0	0.1	0.0
5328	65.401	65.001	-0.109	0.0	0.1	0.0
5352	65.401	65.001	-0.109	0.0	0.1	0.0
5376	65.401	65.001	-0.109	0.0	0.1	0.0
5400	65.401	65.001	-0.109	0.0	0.1	0.0
5424	65.401	65.001	-0.109	0.0	0.1	0.0
5448	65.401	65.001	-0.109	0.0	0.1	0.0
5472	65.401	65.001	-0.109	0.0	0.1	0.0
5496	65.401	65.001	-0.109	0.0	0.1	0.0
5520	65.401	65.001	-0.109	0.0	0.1	0.0
5544	65.401	65.001	-0.109	0.0	0.1	0.0
5568	65.401	65.001	-0.109	0.0	0.1	0.0
5592	65.401	65.001	-0.109	0.0	0.1	0.0
5616	65.401	65.001	-0.109	0.0	0.1	0.0
5640	65.401	65.001	-0.109	0.0	0.1	0.0
5664	65.401	65.001	-0.109	0.0	0.1	0.0
5688	65.401	65.001	-0.109	0.0	0.1	0.0
5712	65.401	65.001	-0.109	0.0	0.1	0.0
5736	65.401	65.001	-0.109	0.0	0.1	0.0
5760	65.401	65.001	-0.109	0.0	0.1	0.0
5784	65.401	65.001	-0.109	0.0	0.1	0.0
5808	65.401	65.001	-0.109	0.0	0.1	0.0
5832	65.401	65.001	-0.109	0.0	0.1	0.0
5856	65.401	65.001	-0.109	0.0	0.1	0.0
5880	65.401	65.001	-0.109	0.0	0.1	0.0
5904	65.401	65.001	-0.109	0.0	0.1	0.0
5928	65.401	65.001	-0.109	0.0	0.1	0.0
5952	65.401	65.001	-0.109	0.0	0.1	0.0
5976	65.401	65.001	-0.109	0.0	0.1	0.0
6000	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.401	65.001	-0.109	0.0	0.1	0.0
6048	65.401	65.001	-0.109	0.0	0.1	0.0
6072	65.401	65.001	-0.109	0.0	0.1	0.0
6096	65.401	65.001	-0.109	0.0	0.1	0.0
6120	65.401	65.001	-0.109	0.0	0.1	0.0
6144	65.401	65.001	-0.109	0.0	0.1	0.0
6168	65.401	65.001	-0.109	0.0	0.1	0.0
6192	65.401	65.001	-0.109	0.0	0.1	0.0
6216	65.401	65.001	-0.109	0.0	0.1	0.0
6240	65.401	65.001	-0.109	0.0	0.1	0.0
6264	65.401	65.001	-0.109	0.0	0.1	0.0
6288	65.401	65.001	-0.109	0.0	0.1	0.0
6312	65.401	65.001	-0.109	0.0	0.1	0.0
6336	65.401	65.001	-0.109	0.0	0.1	0.0
6360	65.401	65.001	-0.109	0.0	0.1	0.0
6384	65.400	65.001	-0.110	0.0	0.1	0.0
6408	65.400	65.001	-0.110	0.0	0.1	0.0
6432	65.400	65.001	-0.110	0.0	0.1	0.0
6456	65.400	65.001	-0.110	0.0	0.1	0.0
6480	65.400	65.001	-0.110	0.0	0.1	0.0
6504	65.400	65.001	-0.110	0.0	0.1	0.0
6528	65.400	65.001	-0.110	0.0	0.1	0.0
6552	65.400	65.001	-0.110	0.0	0.1	0.0
6576	65.400	65.001	-0.110	0.0	0.1	0.0
6600	65.400	65.001	-0.110	0.0	0.1	0.0
6624	65.400	65.001	-0.110	0.0	0.1	0.0
6648	65.400	65.001	-0.110	0.0	0.1	0.0
6672	65.400	65.001	-0.110	0.0	0.1	0.0
6696	65.400	65.001	-0.110	0.0	0.1	0.0
6720	65.400	65.001	-0.110	0.0	0.1	0.0
6744	65.400	65.001	-0.110	0.0	0.1	0.0
6768	65.400	65.001	-0.110	0.0	0.1	0.0
6792	65.400	65.001	-0.110	0.0	0.1	0.0
6816	65.400	65.001	-0.110	0.0	0.1	0.0
6840	65.400	65.001	-0.110	0.0	0.1	0.0
6864	65.400	65.001	-0.110	0.0	0.1	0.0
6888	65.400	65.000	-0.110	0.0	0.1	0.0
6912	65.400	65.000	-0.110	0.0	0.1	0.0
6936	65.400	65.000	-0.110	0.0	0.1	0.0
6960	65.400	65.000	-0.110	0.0	0.1	0.0
6984	65.400	65.000	-0.110	0.0	0.1	0.0
7008	65.400	65.000	-0.110	0.0	0.1	0.0
7032	65.400	65.000	-0.110	0.0	0.1	0.0
7056	65.400	65.000	-0.110	0.0	0.1	0.0
7080	65.400	65.000	-0.110	0.0	0.0	0.0
7104	65.400	65.000	-0.110	0.0	0.0	0.0
7128	65.400	65.000	-0.110	0.0	0.0	0.0
7152	65.400	65.000	-0.110	0.0	0.0	0.0
7176	65.400	65.000	-0.110	0.0	0.0	0.0
7200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.400	65.000	-0.110	0.0	0.0	0.0
7248	65.400	65.000	-0.110	0.0	0.0	0.0
7272	65.400	65.000	-0.110	0.0	0.0	0.0
7296	65.400	65.000	-0.110	0.0	0.0	0.0
7320	65.400	65.000	-0.110	0.0	0.0	0.0
7344	65.400	65.000	-0.110	0.0	0.0	0.0
7368	65.400	65.000	-0.110	0.0	0.0	0.0
7392	65.400	65.000	-0.110	0.0	0.0	0.0
7416	65.400	65.000	-0.110	0.0	0.0	0.0
7440	65.400	65.000	-0.110	0.0	0.0	0.0
7464	65.400	65.000	-0.110	0.0	0.0	0.0
7488	65.400	65.000	-0.110	0.0	0.0	0.0
7512	65.400	65.000	-0.110	0.0	0.0	0.0
7536	65.400	65.000	-0.110	0.0	0.0	0.0
7560	65.400	65.000	-0.110	0.0	0.0	0.0
7584	65.400	65.000	-0.110	0.0	0.0	0.0
7608	65.400	65.000	-0.110	0.0	0.0	0.0
7632	65.400	65.000	-0.110	0.0	0.0	0.0
7656	65.400	65.000	-0.110	0.0	0.0	0.0
7680	65.400	65.000	-0.110	0.0	0.0	0.0
7704	65.400	65.000	-0.110	0.0	0.0	0.0
7728	65.400	65.000	-0.110	0.0	0.0	0.0
7752	65.400	65.000	-0.110	0.0	0.0	0.0
7776	65.400	65.000	-0.110	0.0	0.0	0.0
7800	65.400	65.000	-0.110	0.0	0.0	0.0
7824	65.400	65.000	-0.110	0.0	0.0	0.0
7848	65.400	65.000	-0.110	0.0	0.0	0.0
7872	65.400	65.000	-0.110	0.0	0.0	0.0
7896	65.400	65.000	-0.110	0.0	0.0	0.0
7920	65.400	65.000	-0.110	0.0	0.0	0.0
7944	65.400	65.000	-0.110	0.0	0.0	0.0
7968	65.400	65.000	-0.110	0.0	0.0	0.0
7992	65.400	65.000	-0.110	0.0	0.0	0.0
8016	65.400	65.000	-0.110	0.0	0.0	0.0
8040	65.400	65.000	-0.110	0.0	0.0	0.0
8064	65.400	65.000	-0.110	0.0	0.0	0.0
8088	65.400	65.000	-0.110	0.0	0.0	0.0
8112	65.400	65.000	-0.110	0.0	0.0	0.0
8136	65.400	65.000	-0.110	0.0	0.0	0.0
8160	65.400	65.000	-0.110	0.0	0.0	0.0
8184	65.400	65.000	-0.110	0.0	0.0	0.0
8208	65.400	65.000	-0.110	0.0	0.0	0.0
8232	65.400	65.000	-0.110	0.0	0.0	0.0
8256	65.400	65.000	-0.110	0.0	0.0	0.0
8280	65.400	65.000	-0.110	0.0	0.0	0.0
8304	65.400	65.000	-0.110	0.0	0.0	0.0
8328	65.400	65.000	-0.110	0.0	0.0	0.0
8352	65.400	65.000	-0.110	0.0	0.0	0.0
8376	65.400	65.000	-0.110	0.0	0.0	0.0
8400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.400	65.000	-0.110	0.0	0.0	0.0
8448	65.400	65.000	-0.110	0.0	0.0	0.0
8472	65.400	65.000	-0.110	0.0	0.0	0.0
8496	65.400	65.000	-0.110	0.0	0.0	0.0
8520	65.400	65.000	-0.110	0.0	0.0	0.0
8544	65.400	65.000	-0.110	0.0	0.0	0.0
8568	65.400	65.000	-0.110	0.0	0.0	0.0
8592	65.400	65.000	-0.110	0.0	0.0	0.0
8616	65.400	65.000	-0.110	0.0	0.0	0.0
8640	65.400	65.000	-0.110	0.0	0.0	0.0
8664	65.400	65.000	-0.110	0.0	0.0	0.0
8688	65.400	65.000	-0.110	0.0	0.0	0.0
8712	65.400	65.000	-0.110	0.0	0.0	0.0
8736	65.400	65.000	-0.110	0.0	0.0	0.0
8760	65.400	65.000	-0.110	0.0	0.0	0.0
8784	65.400	65.000	-0.110	0.0	0.0	0.0
8808	65.400	65.000	-0.110	0.0	0.0	0.0
8832	65.400	65.000	-0.110	0.0	0.0	0.0
8856	65.400	65.000	-0.110	0.0	0.0	0.0
8880	65.400	65.000	-0.110	0.0	0.0	0.0
8904	65.400	65.000	-0.110	0.0	0.0	0.0
8928	65.400	65.000	-0.110	0.0	0.0	0.0
8952	65.400	65.000	-0.110	0.0	0.0	0.0
8976	65.400	65.000	-0.110	0.0	0.0	0.0
9000	65.400	65.000	-0.110	0.0	0.0	0.0
9024	65.400	65.000	-0.110	0.0	0.0	0.0
9048	65.400	65.000	-0.110	0.0	0.0	0.0
9072	65.400	65.000	-0.110	0.0	0.0	0.0
9096	65.400	65.000	-0.110	0.0	0.0	0.0
9120	65.400	65.000	-0.110	0.0	0.0	0.0
9144	65.400	65.000	-0.110	0.0	0.0	0.0
9168	65.400	65.000	-0.110	0.0	0.0	0.0
9192	65.400	65.000	-0.110	0.0	0.0	0.0
9216	65.400	65.000	-0.110	0.0	0.0	0.0
9240	65.400	65.000	-0.110	0.0	0.0	0.0
9264	65.400	65.000	-0.110	0.0	0.0	0.0
9288	65.400	65.000	-0.110	0.0	0.0	0.0
9312	65.400	65.000	-0.110	0.0	0.0	0.0
9336	65.400	65.000	-0.110	0.0	0.0	0.0
9360	65.400	65.000	-0.110	0.0	0.0	0.0
9384	65.400	65.000	-0.110	0.0	0.0	0.0
9408	65.400	65.000	-0.110	0.0	0.0	0.0
9432	65.400	65.000	-0.110	0.0	0.0	0.0
9456	65.400	65.000	-0.110	0.0	0.0	0.0
9480	65.400	65.000	-0.110	0.0	0.0	0.0
9504	65.400	65.000	-0.110	0.0	0.0	0.0
9528	65.400	65.000	-0.110	0.0	0.0	0.0
9552	65.400	65.000	-0.110	0.0	0.0	0.0
9576	65.400	65.000	-0.110	0.0	0.0	0.0
9600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.400	65.000	-0.110	0.0	0.0	0.0
9648	65.400	65.000	-0.110	0.0	0.0	0.0
9672	65.400	65.000	-0.110	0.0	0.0	0.0
9696	65.400	65.000	-0.110	0.0	0.0	0.0
9720	65.400	65.000	-0.110	0.0	0.0	0.0
9744	65.400	65.000	-0.110	0.0	0.0	0.0
9768	65.400	65.000	-0.110	0.0	0.0	0.0
9792	65.400	65.000	-0.110	0.0	0.0	0.0
9816	65.400	65.000	-0.110	0.0	0.0	0.0
9840	65.400	65.000	-0.110	0.0	0.0	0.0
9864	65.400	65.000	-0.110	0.0	0.0	0.0
9888	65.400	65.000	-0.110	0.0	0.0	0.0
9912	65.400	65.000	-0.110	0.0	0.0	0.0
9936	65.400	65.000	-0.110	0.0	0.0	0.0
9960	65.400	65.000	-0.110	0.0	0.0	0.0
9984	65.400	65.000	-0.110	0.0	0.0	0.0
10008	65.400	65.000	-0.110	0.0	0.0	0.0
10032	65.400	65.000	-0.110	0.0	0.0	0.0
10056	65.400	65.000	-0.110	0.0	0.0	0.0
10080	65.400	65.000	-0.110	0.0	0.0	0.0
10104	65.400	65.000	-0.110	0.0	0.0	0.0
10128	65.400	65.000	-0.110	0.0	0.0	0.0
10152	65.400	65.000	-0.110	0.0	0.0	0.0
10176	65.400	65.000	-0.110	0.0	0.0	0.0
10200	65.400	65.000	-0.110	0.0	0.0	0.0
10224	65.400	65.000	-0.110	0.0	0.0	0.0
10248	65.400	65.000	-0.110	0.0	0.0	0.0
10272	65.400	65.000	-0.110	0.0	0.0	0.0
10296	65.400	65.000	-0.110	0.0	0.0	0.0
10320	65.400	65.000	-0.110	0.0	0.0	0.0
10344	65.400	65.000	-0.110	0.0	0.0	0.0
10368	65.400	65.000	-0.110	0.0	0.0	0.0
10392	65.400	65.000	-0.110	0.0	0.0	0.0
10416	65.400	65.000	-0.110	0.0	0.0	0.0
10440	65.400	65.000	-0.110	0.0	0.0	0.0
10464	65.400	65.000	-0.110	0.0	0.0	0.0
10488	65.400	65.000	-0.110	0.0	0.0	0.0
10512	65.400	65.000	-0.110	0.0	0.0	0.0
10536	65.400	65.000	-0.110	0.0	0.0	0.0
10560	65.400	65.000	-0.110	0.0	0.0	0.0
10584	65.400	65.000	-0.110	0.0	0.0	0.0
10608	65.400	65.000	-0.110	0.0	0.0	0.0
10632	65.400	65.000	-0.110	0.0	0.0	0.0
10656	65.400	65.000	-0.110	0.0	0.0	0.0
10680	65.400	65.000	-0.110	0.0	0.0	0.0
10704	65.400	65.000	-0.110	0.0	0.0	0.0
10728	65.400	65.000	-0.110	0.0	0.0	0.0
10752	65.400	65.000	-0.110	0.0	0.0	0.0
10776	65.400	65.000	-0.110	0.0	0.0	0.0
10800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.400	65.000	-0.110	0.0	0.0	0.0
10848	65.400	65.000	-0.110	0.0	0.0	0.0
10872	65.400	65.000	-0.110	0.0	0.0	0.0
10896	65.400	65.000	-0.110	0.0	0.0	0.0
10920	65.400	65.000	-0.110	0.0	0.0	0.0
10944	65.400	65.000	-0.110	0.0	0.0	0.0
10968	65.400	65.000	-0.110	0.0	0.0	0.0
10992	65.400	65.000	-0.110	0.0	0.0	0.0
11016	65.400	65.000	-0.110	0.0	0.0	0.0
11040	65.400	65.000	-0.110	0.0	0.0	0.0
11064	65.400	65.000	-0.110	0.0	0.0	0.0
11088	65.400	65.000	-0.110	0.0	0.0	0.0
11112	65.400	65.000	-0.110	0.0	0.0	0.0
11136	65.400	65.000	-0.110	0.0	0.0	0.0
11160	65.400	65.000	-0.110	0.0	0.0	0.0
11184	65.400	65.000	-0.110	0.0	0.0	0.0
11208	65.400	65.000	-0.110	0.0	0.0	0.0
11232	65.400	65.000	-0.110	0.0	0.0	0.0
11256	65.400	65.000	-0.110	0.0	0.0	0.0
11280	65.400	65.000	-0.110	0.0	0.0	0.0
11304	65.400	65.000	-0.110	0.0	0.0	0.0
11328	65.400	65.000	-0.110	0.0	0.0	0.0
11352	65.400	65.000	-0.110	0.0	0.0	0.0
11376	65.400	65.000	-0.110	0.0	0.0	0.0
11400	65.400	65.000	-0.110	0.0	0.0	0.0
11424	65.400	65.000	-0.110	0.0	0.0	0.0
11448	65.400	65.000	-0.110	0.0	0.0	0.0
11472	65.400	65.000	-0.110	0.0	0.0	0.0
11496	65.400	65.000	-0.110	0.0	0.0	0.0
11520	65.400	65.000	-0.110	0.0	0.0	0.0
11544	65.400	65.000	-0.110	0.0	0.0	0.0
11568	65.400	65.000	-0.110	0.0	0.0	0.0
11592	65.400	65.000	-0.110	0.0	0.0	0.0
11616	65.400	65.000	-0.110	0.0	0.0	0.0
11640	65.400	65.000	-0.110	0.0	0.0	0.0
11664	65.400	65.000	-0.110	0.0	0.0	0.0
11688	65.400	65.000	-0.110	0.0	0.0	0.0
11712	65.400	65.000	-0.110	0.0	0.0	0.0
11736	65.400	65.000	-0.110	0.0	0.0	0.0
11760	65.400	65.000	-0.110	0.0	0.0	0.0
11784	65.400	65.000	-0.110	0.0	0.0	0.0
11808	65.400	65.000	-0.110	0.0	0.0	0.0
11832	65.400	65.000	-0.110	0.0	0.0	0.0
11856	65.400	65.000	-0.110	0.0	0.0	0.0
11880	65.400	65.000	-0.110	0.0	0.0	0.0
11904	65.400	65.000	-0.110	0.0	0.0	0.0
11928	65.400	65.000	-0.110	0.0	0.0	0.0
11952	65.400	65.000	-0.110	0.0	0.0	0.0
11976	65.400	65.000	-0.110	0.0	0.0	0.0
12000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.400	65.000	-0.110	0.0	0.0	0.0
12048	65.400	65.000	-0.110	0.0	0.0	0.0
12072	65.400	65.000	-0.110	0.0	0.0	0.0
12096	65.400	65.000	-0.110	0.0	0.0	0.0
12120	65.400	65.000	-0.110	0.0	0.0	0.0
12144	65.400	65.000	-0.110	0.0	0.0	0.0
12168	65.400	65.000	-0.110	0.0	0.0	0.0
12192	65.400	65.000	-0.110	0.0	0.0	0.0
12216	65.400	65.000	-0.110	0.0	0.0	0.0
12240	65.400	65.000	-0.110	0.0	0.0	0.0
12264	65.400	65.000	-0.110	0.0	0.0	0.0
12288	65.400	65.000	-0.110	0.0	0.0	0.0
12312	65.400	65.000	-0.110	0.0	0.0	0.0
12336	65.400	65.000	-0.110	0.0	0.0	0.0
12360	65.400	65.000	-0.110	0.0	0.0	0.0
12384	65.400	65.000	-0.110	0.0	0.0	0.0
12408	65.400	65.000	-0.110	0.0	0.0	0.0
12432	65.400	65.000	-0.110	0.0	0.0	0.0
12456	65.400	65.000	-0.110	0.0	0.0	0.0
12480	65.400	65.000	-0.110	0.0	0.0	0.0
12504	65.400	65.000	-0.110	0.0	0.0	0.0
12528	65.400	65.000	-0.110	0.0	0.0	0.0
12552	65.400	65.000	-0.110	0.0	0.0	0.0
12576	65.400	65.000	-0.110	0.0	0.0	0.0
12600	65.400	65.000	-0.110	0.0	0.0	0.0
12624	65.400	65.000	-0.110	0.0	0.0	0.0
12648	65.400	65.000	-0.110	0.0	0.0	0.0
12672	65.400	65.000	-0.110	0.0	0.0	0.0
12696	65.400	65.000	-0.110	0.0	0.0	0.0
12720	65.400	65.000	-0.110	0.0	0.0	0.0
12744	65.400	65.000	-0.110	0.0	0.0	0.0
12768	65.400	65.000	-0.110	0.0	0.0	0.0
12792	65.400	65.000	-0.110	0.0	0.0	0.0
12816	65.400	65.000	-0.110	0.0	0.0	0.0
12840	65.400	65.000	-0.110	0.0	0.0	0.0
12864	65.400	65.000	-0.110	0.0	0.0	0.0
12888	65.400	65.000	-0.110	0.0	0.0	0.0
12912	65.400	65.000	-0.110	0.0	0.0	0.0
12936	65.400	65.000	-0.110	0.0	0.0	0.0
12960	65.400	65.000	-0.110	0.0	0.0	0.0
12984	65.400	65.000	-0.110	0.0	0.0	0.0
13008	65.400	65.000	-0.110	0.0	0.0	0.0
13032	65.400	65.000	-0.110	0.0	0.0	0.0
13056	65.400	65.000	-0.110	0.0	0.0	0.0
13080	65.400	65.000	-0.110	0.0	0.0	0.0
13104	65.400	65.000	-0.110	0.0	0.0	0.0
13128	65.400	65.000	-0.110	0.0	0.0	0.0
13152	65.400	65.000	-0.110	0.0	0.0	0.0
13176	65.400	65.000	-0.110	0.0	0.0	0.0
13200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.400	65.000	-0.110	0.0	0.0	0.0
13248	65.400	65.000	-0.110	0.0	0.0	0.0
13272	65.400	65.000	-0.110	0.0	0.0	0.0
13296	65.400	65.000	-0.110	0.0	0.0	0.0
13320	65.400	65.000	-0.110	0.0	0.0	0.0
13344	65.400	65.000	-0.110	0.0	0.0	0.0
13368	65.400	65.000	-0.110	0.0	0.0	0.0
13392	65.400	65.000	-0.110	0.0	0.0	0.0
13416	65.400	65.000	-0.110	0.0	0.0	0.0
13440	65.400	65.000	-0.110	0.0	0.0	0.0
13464	65.400	65.000	-0.110	0.0	0.0	0.0
13488	65.400	65.000	-0.110	0.0	0.0	0.0
13512	65.400	65.000	-0.110	0.0	0.0	0.0
13536	65.400	65.000	-0.110	0.0	0.0	0.0
13560	65.400	65.000	-0.110	0.0	0.0	0.0
13584	65.400	65.000	-0.110	0.0	0.0	0.0
13608	65.400	65.000	-0.110	0.0	0.0	0.0
13632	65.400	65.000	-0.110	0.0	0.0	0.0
13656	65.400	65.000	-0.110	0.0	0.0	0.0
13680	65.400	65.000	-0.110	0.0	0.0	0.0
13704	65.400	65.000	-0.110	0.0	0.0	0.0
13728	65.400	65.000	-0.110	0.0	0.0	0.0
13752	65.400	65.000	-0.110	0.0	0.0	0.0
13776	65.400	65.000	-0.110	0.0	0.0	0.0
13800	65.400	65.000	-0.110	0.0	0.0	0.0
13824	65.400	65.000	-0.110	0.0	0.0	0.0
13848	65.400	65.000	-0.110	0.0	0.0	0.0
13872	65.400	65.000	-0.110	0.0	0.0	0.0
13896	65.400	65.000	-0.110	0.0	0.0	0.0
13920	65.400	65.000	-0.110	0.0	0.0	0.0
13944	65.400	65.000	-0.110	0.0	0.0	0.0
13968	65.400	65.000	-0.110	0.0	0.0	0.0
13992	65.400	65.000	-0.110	0.0	0.0	0.0
14016	65.400	65.000	-0.110	0.0	0.0	0.0
14040	65.400	65.000	-0.110	0.0	0.0	0.0
14064	65.400	65.000	-0.110	0.0	0.0	0.0
14088	65.400	65.000	-0.110	0.0	0.0	0.0
14112	65.400	65.000	-0.110	0.0	0.0	0.0
14136	65.400	65.000	-0.110	0.0	0.0	0.0
14160	65.400	65.000	-0.110	0.0	0.0	0.0
14184	65.400	65.000	-0.110	0.0	0.0	0.0
14208	65.400	65.000	-0.110	0.0	0.0	0.0
14232	65.400	65.000	-0.110	0.0	0.0	0.0
14256	65.400	65.000	-0.110	0.0	0.0	0.0
14280	65.400	65.000	-0.110	0.0	0.0	0.0
14304	65.400	65.000	-0.110	0.0	0.0	0.0
14328	65.400	65.000	-0.110	0.0	0.0	0.0
14352	65.400	65.000	-0.110	0.0	0.0	0.0
14376	65.400	65.000	-0.110	0.0	0.0	0.0
14400	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.400	65.000	-0.110	0.0	0.0	0.0
14448	65.400	65.000	-0.110	0.0	0.0	0.0
14472	65.400	65.000	-0.110	0.0	0.0	0.0
14496	65.400	65.000	-0.110	0.0	0.0	0.0
14520	65.400	65.000	-0.110	0.0	0.0	0.0
14544	65.400	65.000	-0.110	0.0	0.0	0.0
14568	65.400	65.000	-0.110	0.0	0.0	0.0
14592	65.400	65.000	-0.110	0.0	0.0	0.0
14616	65.400	65.000	-0.110	0.0	0.0	0.0
14640	65.400	65.000	-0.110	0.0	0.0	0.0
14664	65.400	65.000	-0.110	0.0	0.0	0.0
14688	65.400	65.000	-0.110	0.0	0.0	0.0
14712	65.400	65.000	-0.110	0.0	0.0	0.0
14736	65.400	65.000	-0.110	0.0	0.0	0.0
14760	65.400	65.000	-0.110	0.0	0.0	0.0
14784	65.400	65.000	-0.110	0.0	0.0	0.0
14808	65.400	65.000	-0.110	0.0	0.0	0.0
14832	65.400	65.000	-0.110	0.0	0.0	0.0
14856	65.400	65.000	-0.110	0.0	0.0	0.0
14880	65.400	65.000	-0.110	0.0	0.0	0.0
14904	65.400	65.000	-0.110	0.0	0.0	0.0
14928	65.400	65.000	-0.110	0.0	0.0	0.0
14952	65.400	65.000	-0.110	0.0	0.0	0.0
14976	65.400	65.000	-0.110	0.0	0.0	0.0
15000	65.400	65.000	-0.110	0.0	0.0	0.0
15024	65.400	65.000	-0.110	0.0	0.0	0.0
15048	65.400	65.000	-0.110	0.0	0.0	0.0
15072	65.400	65.000	-0.110	0.0	0.0	0.0
15096	65.400	65.000	-0.110	0.0	0.0	0.0
15120	65.400	65.000	-0.110	0.0	0.0	0.0
15144	65.400	65.000	-0.110	0.0	0.0	0.0
15168	65.400	65.000	-0.110	0.0	0.0	0.0
15192	65.400	65.000	-0.110	0.0	0.0	0.0
15216	65.400	65.000	-0.110	0.0	0.0	0.0
15240	65.400	65.000	-0.110	0.0	0.0	0.0
15264	65.400	65.000	-0.110	0.0	0.0	0.0
15288	65.400	65.000	-0.110	0.0	0.0	0.0
15312	65.400	65.000	-0.110	0.0	0.0	0.0
15336	65.400	65.000	-0.110	0.0	0.0	0.0
15360	65.400	65.000	-0.110	0.0	0.0	0.0
15384	65.400	65.000	-0.110	0.0	0.0	0.0
15408	65.400	65.000	-0.110	0.0	0.0	0.0
15432	65.400	65.000	-0.110	0.0	0.0	0.0
15456	65.400	65.000	-0.110	0.0	0.0	0.0
15480	65.400	65.000	-0.110	0.0	0.0	0.0
15504	65.400	65.000	-0.110	0.0	0.0	0.0
15528	65.400	65.000	-0.110	0.0	0.0	0.0
15552	65.400	65.000	-0.110	0.0	0.0	0.0
15576	65.400	65.000	-0.110	0.0	0.0	0.0
15600	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.400	65.000	-0.110	0.0	0.0	0.0
15648	65.400	65.000	-0.110	0.0	0.0	0.0
15672	65.400	65.000	-0.110	0.0	0.0	0.0
15696	65.400	65.000	-0.110	0.0	0.0	0.0
15720	65.400	65.000	-0.110	0.0	0.0	0.0
15744	65.400	65.000	-0.110	0.0	0.0	0.0
15768	65.400	65.000	-0.110	0.0	0.0	0.0
15792	65.400	65.000	-0.110	0.0	0.0	0.0
15816	65.400	65.000	-0.110	0.0	0.0	0.0
15840	65.400	65.000	-0.110	0.0	0.0	0.0
15864	65.400	65.000	-0.110	0.0	0.0	0.0
15888	65.400	65.000	-0.110	0.0	0.0	0.0
15912	65.400	65.000	-0.110	0.0	0.0	0.0
15936	65.400	65.000	-0.110	0.0	0.0	0.0
15960	65.400	65.000	-0.110	0.0	0.0	0.0
15984	65.400	65.000	-0.110	0.0	0.0	0.0
16008	65.400	65.000	-0.110	0.0	0.0	0.0
16032	65.400	65.000	-0.110	0.0	0.0	0.0
16056	65.400	65.000	-0.110	0.0	0.0	0.0
16080	65.400	65.000	-0.110	0.0	0.0	0.0
16104	65.400	65.000	-0.110	0.0	0.0	0.0
16128	65.400	65.000	-0.110	0.0	0.0	0.0
16152	65.400	65.000	-0.110	0.0	0.0	0.0
16176	65.400	65.000	-0.110	0.0	0.0	0.0
16200	65.400	65.000	-0.110	0.0	0.0	0.0
16224	65.400	65.000	-0.110	0.0	0.0	0.0
16248	65.400	65.000	-0.110	0.0	0.0	0.0
16272	65.400	65.000	-0.110	0.0	0.0	0.0
16296	65.400	65.000	-0.110	0.0	0.0	0.0
16320	65.400	65.000	-0.110	0.0	0.0	0.0
16344	65.400	65.000	-0.110	0.0	0.0	0.0
16368	65.400	65.000	-0.110	0.0	0.0	0.0
16392	65.400	65.000	-0.110	0.0	0.0	0.0
16416	65.400	65.000	-0.110	0.0	0.0	0.0
16440	65.400	65.000	-0.110	0.0	0.0	0.0
16464	65.400	65.000	-0.110	0.0	0.0	0.0
16488	65.400	65.000	-0.110	0.0	0.0	0.0
16512	65.400	65.000	-0.110	0.0	0.0	0.0
16536	65.400	65.000	-0.110	0.0	0.0	0.0
16560	65.400	65.000	-0.110	0.0	0.0	0.0
16584	65.400	65.000	-0.110	0.0	0.0	0.0
16608	65.400	65.000	-0.110	0.0	0.0	0.0
16632	65.400	65.000	-0.110	0.0	0.0	0.0
16656	65.400	65.000	-0.110	0.0	0.0	0.0
16680	65.400	65.000	-0.110	0.0	0.0	0.0
16704	65.400	65.000	-0.110	0.0	0.0	0.0
16728	65.400	65.000	-0.110	0.0	0.0	0.0
16752	65.400	65.000	-0.110	0.0	0.0	0.0
16776	65.400	65.000	-0.110	0.0	0.0	0.0
16800	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.400	65.000	-0.110	0.0	0.0	0.0
16848	65.400	65.000	-0.110	0.0	0.0	0.0
16872	65.400	65.000	-0.110	0.0	0.0	0.0
16896	65.400	65.000	-0.110	0.0	0.0	0.0
16920	65.400	65.000	-0.110	0.0	0.0	0.0
16944	65.400	65.000	-0.110	0.0	0.0	0.0
16968	65.400	65.000	-0.110	0.0	0.0	0.0
16992	65.400	65.000	-0.110	0.0	0.0	0.0
17016	65.400	65.000	-0.110	0.0	0.0	0.0
17040	65.400	65.000	-0.110	0.0	0.0	0.0
17064	65.400	65.000	-0.110	0.0	0.0	0.0
17088	65.400	65.000	-0.110	0.0	0.0	0.0
17112	65.400	65.000	-0.110	0.0	0.0	0.0
17136	65.400	65.000	-0.110	0.0	0.0	0.0
17160	65.400	65.000	-0.110	0.0	0.0	0.0
17184	65.400	65.000	-0.110	0.0	0.0	0.0
17208	65.400	65.000	-0.110	0.0	0.0	0.0
17232	65.400	65.000	-0.110	0.0	0.0	0.0
17256	65.400	65.000	-0.110	0.0	0.0	0.0
17280	65.400	65.000	-0.110	0.0	0.0	0.0
17304	65.400	65.000	-0.110	0.0	0.0	0.0
17328	65.400	65.000	-0.110	0.0	0.0	0.0
17352	65.400	65.000	-0.110	0.0	0.0	0.0
17376	65.400	65.000	-0.110	0.0	0.0	0.0
17400	65.400	65.000	-0.110	0.0	0.0	0.0
17424	65.400	65.000	-0.110	0.0	0.0	0.0
17448	65.400	65.000	-0.110	0.0	0.0	0.0
17472	65.400	65.000	-0.110	0.0	0.0	0.0
17496	65.400	65.000	-0.110	0.0	0.0	0.0
17520	65.400	65.000	-0.110	0.0	0.0	0.0
17544	65.400	65.000	-0.110	0.0	0.0	0.0
17568	65.400	65.000	-0.110	0.0	0.0	0.0
17592	65.400	65.000	-0.110	0.0	0.0	0.0
17616	65.400	65.000	-0.110	0.0	0.0	0.0
17640	65.400	65.000	-0.110	0.0	0.0	0.0
17664	65.400	65.000	-0.110	0.0	0.0	0.0
17688	65.400	65.000	-0.110	0.0	0.0	0.0
17712	65.400	65.000	-0.110	0.0	0.0	0.0
17736	65.400	65.000	-0.110	0.0	0.0	0.0
17760	65.400	65.000	-0.110	0.0	0.0	0.0
17784	65.400	65.000	-0.110	0.0	0.0	0.0
17808	65.400	65.000	-0.110	0.0	0.0	0.0
17832	65.400	65.000	-0.110	0.0	0.0	0.0
17856	65.400	65.000	-0.110	0.0	0.0	0.0
17880	65.400	65.000	-0.110	0.0	0.0	0.0
17904	65.400	65.000	-0.110	0.0	0.0	0.0
17928	65.400	65.000	-0.110	0.0	0.0	0.0
17952	65.400	65.000	-0.110	0.0	0.0	0.0
17976	65.400	65.000	-0.110	0.0	0.0	0.0
18000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.400	65.000	-0.110	0.0	0.0	0.0
18048	65.400	65.000	-0.110	0.0	0.0	0.0
18072	65.400	65.000	-0.110	0.0	0.0	0.0
18096	65.400	65.000	-0.110	0.0	0.0	0.0
18120	65.400	65.000	-0.110	0.0	0.0	0.0
18144	65.400	65.000	-0.110	0.0	0.0	0.0
18168	65.400	65.000	-0.110	0.0	0.0	0.0
18192	65.400	65.000	-0.110	0.0	0.0	0.0
18216	65.400	65.000	-0.110	0.0	0.0	0.0
18240	65.400	65.000	-0.110	0.0	0.0	0.0
18264	65.400	65.000	-0.110	0.0	0.0	0.0
18288	65.400	65.000	-0.110	0.0	0.0	0.0
18312	65.400	65.000	-0.110	0.0	0.0	0.0
18336	65.400	65.000	-0.110	0.0	0.0	0.0
18360	65.400	65.000	-0.110	0.0	0.0	0.0
18384	65.400	65.000	-0.110	0.0	0.0	0.0
18408	65.400	65.000	-0.110	0.0	0.0	0.0
18432	65.400	65.000	-0.110	0.0	0.0	0.0
18456	65.400	65.000	-0.110	0.0	0.0	0.0
18480	65.400	65.000	-0.110	0.0	0.0	0.0
18504	65.400	65.000	-0.110	0.0	0.0	0.0
18528	65.400	65.000	-0.110	0.0	0.0	0.0
18552	65.400	65.000	-0.110	0.0	0.0	0.0
18576	65.400	65.000	-0.110	0.0	0.0	0.0
18600	65.400	65.000	-0.110	0.0	0.0	0.0
18624	65.400	65.000	-0.110	0.0	0.0	0.0
18648	65.400	65.000	-0.110	0.0	0.0	0.0
18672	65.400	65.000	-0.110	0.0	0.0	0.0
18696	65.400	65.000	-0.110	0.0	0.0	0.0
18720	65.400	65.000	-0.110	0.0	0.0	0.0
18744	65.400	65.000	-0.110	0.0	0.0	0.0
18768	65.400	65.000	-0.110	0.0	0.0	0.0
18792	65.400	65.000	-0.110	0.0	0.0	0.0
18816	65.400	65.000	-0.110	0.0	0.0	0.0
18840	65.400	65.000	-0.110	0.0	0.0	0.0
18864	65.400	65.000	-0.110	0.0	0.0	0.0
18888	65.400	65.000	-0.110	0.0	0.0	0.0
18912	65.400	65.000	-0.110	0.0	0.0	0.0
18936	65.400	65.000	-0.110	0.0	0.0	0.0
18960	65.400	65.000	-0.110	0.0	0.0	0.0
18984	65.400	65.000	-0.110	0.0	0.0	0.0
19008	65.400	65.000	-0.110	0.0	0.0	0.0
19032	65.400	65.000	-0.110	0.0	0.0	0.0
19056	65.400	65.000	-0.110	0.0	0.0	0.0
19080	65.400	65.000	-0.110	0.0	0.0	0.0
19104	65.400	65.000	-0.110	0.0	0.0	0.0
19128	65.400	65.000	-0.110	0.0	0.0	0.0
19152	65.400	65.000	-0.110	0.0	0.0	0.0
19176	65.400	65.000	-0.110	0.0	0.0	0.0
19200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.400	65.000	-0.110	0.0	0.0	0.0
19248	65.400	65.000	-0.110	0.0	0.0	0.0
19272	65.400	65.000	-0.110	0.0	0.0	0.0
19296	65.400	65.000	-0.110	0.0	0.0	0.0
19320	65.400	65.000	-0.110	0.0	0.0	0.0
19344	65.400	65.000	-0.110	0.0	0.0	0.0
19368	65.400	65.000	-0.110	0.0	0.0	0.0
19392	65.400	65.000	-0.110	0.0	0.0	0.0
19416	65.400	65.000	-0.110	0.0	0.0	0.0
19440	65.400	65.000	-0.110	0.0	0.0	0.0
19464	65.400	65.000	-0.110	0.0	0.0	0.0
19488	65.400	65.000	-0.110	0.0	0.0	0.0
19512	65.400	65.000	-0.110	0.0	0.0	0.0
19536	65.400	65.000	-0.110	0.0	0.0	0.0
19560	65.400	65.000	-0.110	0.0	0.0	0.0
19584	65.400	65.000	-0.110	0.0	0.0	0.0
19608	65.400	65.000	-0.110	0.0	0.0	0.0
19632	65.400	65.000	-0.110	0.0	0.0	0.0
19656	65.400	65.000	-0.110	0.0	0.0	0.0
19680	65.400	65.000	-0.110	0.0	0.0	0.0
19704	65.400	65.000	-0.110	0.0	0.0	0.0
19728	65.400	65.000	-0.110	0.0	0.0	0.0
19752	65.400	65.000	-0.110	0.0	0.0	0.0
19776	65.400	65.000	-0.110	0.0	0.0	0.0
19800	65.400	65.000	-0.110	0.0	0.0	0.0
19824	65.400	65.000	-0.110	0.0	0.0	0.0
19848	65.400	65.000	-0.110	0.0	0.0	0.0
19872	65.400	65.000	-0.110	0.0	0.0	0.0
19896	65.400	65.000	-0.110	0.0	0.0	0.0
19920	65.400	65.000	-0.110	0.0	0.0	0.0
19944	65.400	65.000	-0.110	0.0	0.0	0.0
19968	65.400	65.000	-0.110	0.0	0.0	0.0
19992	65.400	65.000	-0.110	0.0	0.0	0.0
20016	65.400	65.000	-0.110	0.0	0.0	0.0
20040	65.400	65.000	-0.110	0.0	0.0	0.0
20064	65.400	65.000	-0.110	0.0	0.0	0.0
20088	65.400	65.000	-0.110	0.0	0.0	0.0
20112	65.400	65.000	-0.110	0.0	0.0	0.0
20136	65.400	65.000	-0.110	0.0	0.0	0.0
20160	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
72	65.000	63.444	-0.110	0.0	0.0	0.0
96	65.000	63.444	-0.110	0.0	0.0	0.0
120	65.000	63.444	-0.110	0.0	0.0	0.0
144	65.000	63.444	-0.110	0.0	0.0	0.0
168	65.000	63.444	-0.110	0.0	0.0	0.0
192	65.000	63.444	-0.110	0.0	0.0	0.0
216	65.000	63.444	-0.110	0.0	0.0	0.0
240	65.000	63.444	-0.110	0.0	0.0	0.0
264	65.000	63.444	-0.110	0.0	0.0	0.0
288	65.000	63.444	-0.110	0.0	0.0	0.0
312	65.000	63.444	-0.110	0.0	0.0	0.0
336	65.000	63.444	-0.110	0.0	0.0	0.0
360	65.000	63.444	-0.110	0.0	0.0	0.0
384	65.000	63.444	-0.110	0.0	0.0	0.0
408	65.000	63.444	-0.110	0.0	0.0	0.0
432	65.000	63.444	-0.110	0.0	0.0	0.0
456	65.000	63.444	-0.110	0.0	0.0	0.0
480	65.000	63.444	-0.110	0.0	0.0	0.0
504	65.000	63.444	-0.110	0.0	0.0	0.0
528	65.000	63.444	-0.110	0.0	0.0	0.0
552	65.000	63.444	-0.110	0.0	0.0	0.0
576	65.000	63.444	-0.110	0.0	0.0	0.0
600	65.000	63.444	-0.110	0.0	0.0	0.0
624	65.000	63.444	-0.110	0.0	0.0	0.0
648	65.000	63.444	-0.110	0.0	0.0	0.0
672	65.000	63.444	-0.110	0.0	0.0	0.0
696	65.000	63.444	-0.110	0.0	0.0	0.0
720	65.000	63.445	-0.110	0.0	0.0	0.0
744	65.000	63.445	-0.110	0.0	0.0	0.0
768	65.000	63.445	-0.110	0.0	0.0	0.0
792	65.000	63.445	-0.110	0.0	0.0	0.0
816	65.000	63.445	-0.110	0.0	0.0	0.0
840	65.000	63.445	-0.110	0.0	0.0	0.0
864	65.000	63.445	-0.110	0.0	0.0	0.0
888	65.000	63.445	-0.110	0.0	0.0	0.0
912	65.000	63.445	-0.110	0.0	0.0	0.0
936	65.000	63.445	-0.110	0.0	0.0	0.0
960	65.000	63.445	-0.110	0.0	0.0	0.0
984	65.000	63.445	-0.110	0.0	0.0	0.0
1008	65.000	63.445	-0.110	0.0	0.0	0.0
1032	65.000	63.445	-0.110	0.0	0.0	0.0
1056	65.000	63.445	-0.110	0.0	0.0	0.0
1080	65.000	63.445	-0.110	0.0	0.0	0.0
1104	65.000	63.445	-0.110	0.0	0.0	0.0
1128	65.000	63.445	-0.110	0.0	0.0	0.0
1152	65.000	63.445	-0.110	0.0	0.0	0.0
1176	65.000	63.445	-0.110	0.0	0.0	0.0
1200	65.000	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	65.000	63.445	-0.110	0.0	0.0	0.0
1248	65.000	63.445	-0.110	0.0	0.0	0.0
1272	65.000	63.445	-0.110	0.0	0.0	0.0
1296	65.000	63.445	-0.110	0.0	0.0	0.0
1320	65.000	63.445	-0.110	0.0	0.0	0.0
1344	65.000	63.445	-0.110	0.0	0.0	0.0
1368	65.000	63.445	-0.110	0.0	0.0	0.0
1392	65.000	63.445	-0.110	0.0	0.0	0.0
1416	65.000	63.445	-0.110	0.0	0.0	0.0
1440	65.000	63.445	-0.110	0.0	0.0	0.0
1464	65.000	63.445	-0.110	0.0	0.0	0.0
1488	65.000	63.445	-0.110	0.0	0.0	0.0
1512	65.000	63.445	-0.110	0.0	0.0	0.0
1536	65.000	63.445	-0.110	0.0	0.0	0.0
1560	65.000	63.445	-0.110	0.0	0.0	0.0
1584	65.000	63.445	-0.110	0.0	0.0	0.0
1608	65.000	63.445	-0.110	0.0	0.0	0.0
1632	65.000	63.445	-0.110	0.0	0.0	0.0
1656	65.000	63.445	-0.110	0.0	0.0	0.0
1680	65.000	63.445	-0.110	0.0	0.0	0.0
1704	65.000	63.445	-0.110	0.0	0.0	0.0
1728	65.000	63.445	-0.110	0.0	0.0	0.0
1752	65.000	63.445	-0.110	0.0	0.0	0.0
1776	65.000	63.445	-0.110	0.0	0.0	0.0
1800	65.000	63.445	-0.110	0.0	0.0	0.0
1824	65.000	63.445	-0.110	0.0	0.0	0.0
1848	65.000	63.445	-0.110	0.0	0.0	0.0
1872	65.000	63.445	-0.110	0.0	0.0	0.0
1896	65.000	63.445	-0.110	0.0	0.0	0.0
1920	65.000	63.445	-0.110	0.0	0.0	0.0
1944	65.000	63.445	-0.110	0.0	0.0	0.0
1968	65.000	63.445	-0.110	0.0	0.0	0.0
1992	65.000	63.445	-0.110	0.0	0.0	0.0
2016	65.000	63.445	-0.110	0.0	0.0	0.0
2040	65.000	63.445	-0.110	0.0	0.0	0.0
2064	65.000	63.445	-0.110	0.0	0.0	0.0
2088	65.000	63.445	-0.110	0.0	0.0	0.0
2112	65.000	63.445	-0.110	0.0	0.0	0.0
2136	65.000	63.445	-0.110	0.0	0.0	0.0
2160	65.000	63.445	-0.110	0.0	0.0	0.0
2184	65.000	63.445	-0.110	0.0	0.0	0.0
2208	65.000	63.445	-0.110	0.0	0.0	0.0
2232	65.000	63.446	-0.110	0.0	0.1	0.0
2256	65.000	63.446	-0.110	0.0	0.1	0.0
2280	65.000	63.446	-0.110	0.0	0.1	0.0
2304	65.000	63.446	-0.110	0.0	0.1	0.0
2328	65.000	63.446	-0.110	0.0	0.1	0.0
2352	65.000	63.446	-0.110	0.0	0.1	0.0
2376	65.000	63.446	-0.110	0.0	0.1	0.0
2400	65.000	63.446	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	65.000	63.446	-0.110	0.0	0.1	0.0
2448	65.000	63.446	-0.110	0.0	0.1	0.0
2472	65.000	63.446	-0.110	0.0	0.1	0.0
2496	65.000	63.446	-0.110	0.0	0.1	0.0
2520	65.000	63.446	-0.110	0.0	0.1	0.0
2544	65.000	63.447	-0.110	0.0	0.1	0.0
2568	65.000	63.447	-0.110	0.0	0.1	0.0
2592	65.000	63.447	-0.110	0.0	0.1	0.0
2616	65.000	63.447	-0.110	0.0	0.1	0.0
2640	65.000	63.447	-0.110	0.0	0.1	0.0
2664	65.000	63.447	-0.110	0.0	0.1	0.0
2688	65.000	63.447	-0.110	0.0	0.1	0.0
2712	65.000	63.447	-0.110	0.0	0.1	0.0
2736	65.000	63.447	-0.110	0.0	0.1	0.0
2760	65.000	63.447	-0.110	0.0	0.1	0.0
2784	65.000	63.447	-0.110	0.0	0.1	0.0
2808	65.000	63.447	-0.110	0.0	0.1	0.0
2832	65.000	63.447	-0.110	0.0	0.1	0.0
2856	65.000	63.447	-0.110	0.0	0.1	0.0
2880	65.000	63.447	-0.110	0.0	0.1	0.0
2904	65.000	63.447	-0.110	0.0	0.1	0.0
2928	65.000	63.447	-0.110	0.0	0.1	0.0
2952	65.000	63.448	-0.110	0.0	0.1	0.0
2976	65.000	63.448	-0.110	0.0	0.1	0.0
3000	65.000	63.448	-0.110	0.0	0.1	0.0
3024	65.000	63.448	-0.110	0.0	0.1	0.0
3048	65.000	63.448	-0.110	0.0	0.1	0.0
3072	65.000	63.448	-0.110	0.0	0.1	0.0
3096	65.000	63.448	-0.110	0.0	0.1	0.0
3120	65.000	63.448	-0.110	0.0	0.1	0.0
3144	65.000	63.448	-0.110	0.0	0.1	0.0
3168	65.000	63.448	-0.110	0.0	0.1	0.0
3192	65.000	63.448	-0.110	0.0	0.1	0.0
3216	65.000	63.448	-0.110	0.0	0.1	0.0
3240	65.001	63.448	-0.109	0.0	0.1	0.0
3264	65.001	63.448	-0.109	0.0	0.1	0.0
3288	65.001	63.448	-0.109	0.0	0.1	0.0
3312	65.001	63.448	-0.109	0.0	0.1	0.0
3336	65.001	63.449	-0.109	0.0	0.1	0.0
3360	65.001	63.449	-0.109	0.0	0.1	0.0
3384	65.001	63.449	-0.109	0.0	0.1	0.0
3408	65.001	63.449	-0.109	0.0	0.1	0.0
3432	65.001	63.449	-0.109	0.0	0.1	0.0
3456	65.001	63.449	-0.109	0.0	0.1	0.0
3480	65.001	63.449	-0.109	0.0	0.1	0.0
3504	65.001	63.449	-0.109	0.0	0.1	0.0
3528	65.001	63.449	-0.109	0.0	0.1	0.0
3552	65.001	63.450	-0.109	0.0	0.2	0.0
3576	65.001	63.450	-0.109	0.0	0.2	0.0
3600	65.001	63.450	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	65.001	63.450	-0.109	0.0	0.2	0.0
3648	65.001	63.450	-0.109	0.0	0.2	0.0
3672	65.001	63.450	-0.109	0.0	0.2	0.0
3696	65.001	63.450	-0.109	0.0	0.2	0.0
3720	65.001	63.450	-0.109	0.0	0.2	0.0
3744	65.001	63.450	-0.109	0.0	0.2	0.0
3768	65.001	63.450	-0.109	0.0	0.2	0.0
3792	65.001	63.450	-0.109	0.0	0.2	0.0
3816	65.001	63.450	-0.109	0.0	0.2	0.0
3840	65.001	63.450	-0.109	0.0	0.2	0.0
3864	65.001	63.451	-0.109	0.0	0.2	0.0
3888	65.001	63.451	-0.109	0.0	0.2	0.0
3912	65.001	63.451	-0.109	0.0	0.2	0.0
3936	65.001	63.451	-0.109	0.0	0.2	0.0
3960	65.001	63.451	-0.109	0.0	0.2	0.0
3984	65.001	63.451	-0.109	0.0	0.2	0.0
4008	65.001	63.451	-0.109	0.0	0.2	0.0
4032	65.001	63.451	-0.109	0.0	0.2	0.0
4056	65.001	63.451	-0.109	0.0	0.2	0.0
4080	65.001	63.451	-0.109	0.0	0.2	0.1
4104	65.001	63.451	-0.109	0.0	0.2	0.1
4128	65.001	63.451	-0.109	0.0	0.2	0.1
4152	65.001	63.452	-0.109	0.0	0.2	0.1
4176	65.001	63.452	-0.109	0.0	0.2	0.1
4200	65.001	63.452	-0.109	0.0	0.2	0.1
4224	65.001	63.452	-0.109	0.0	0.2	0.1
4248	65.001	63.452	-0.109	0.0	0.2	0.1
4272	65.001	63.452	-0.109	0.0	0.2	0.1
4296	65.001	63.452	-0.109	0.0	0.2	0.1
4320	65.001	63.452	-0.109	0.0	0.2	0.1
4344	65.001	63.452	-0.109	0.0	0.2	0.1
4368	65.001	63.453	-0.109	0.0	0.2	0.1
4392	65.001	63.453	-0.109	0.0	0.2	0.1
4416	65.001	63.453	-0.109	0.0	0.2	0.1
4440	65.001	63.453	-0.109	0.0	0.2	0.1
4464	65.001	63.453	-0.109	0.0	0.2	0.1
4488	65.001	63.453	-0.109	0.0	0.2	0.1
4512	65.001	63.453	-0.109	0.0	0.2	0.1
4536	65.001	63.453	-0.109	0.0	0.2	0.1
4560	65.001	63.453	-0.109	0.0	0.3	0.1
4584	65.001	63.453	-0.109	0.0	0.3	0.1
4608	65.001	63.453	-0.109	0.0	0.3	0.1
4632	65.001	63.453	-0.109	0.0	0.3	0.1
4656	65.001	63.453	-0.109	0.0	0.3	0.1
4680	65.001	63.453	-0.109	0.0	0.3	0.1
4704	65.001	63.453	-0.109	0.0	0.3	0.1
4728	65.001	63.453	-0.109	0.0	0.3	0.1
4752	65.001	63.454	-0.109	0.0	0.3	0.1
4776	65.001	63.454	-0.109	0.0	0.3	0.1
4800	65.001	63.454	-0.109	0.0	0.3	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	65.001	63.454	-0.109	0.0	0.3	0.1
4848	65.001	63.454	-0.109	0.0	0.3	0.1
4872	65.001	63.454	-0.109	0.0	0.3	0.1
4896	65.001	63.454	-0.109	0.0	0.3	0.1
4920	65.001	63.454	-0.109	0.0	0.3	0.1
4944	65.001	63.454	-0.109	0.0	0.3	0.1
4968	65.001	63.454	-0.109	0.0	0.3	0.1
4992	65.001	63.454	-0.109	0.0	0.3	0.1
5016	65.001	63.454	-0.109	0.0	0.3	0.1
5040	65.001	63.454	-0.109	0.0	0.3	0.1
5064	65.001	63.454	-0.109	0.0	0.3	0.1
5088	65.001	63.454	-0.109	0.0	0.3	0.1
5112	65.001	63.454	-0.109	0.0	0.3	0.1
5136	65.001	63.454	-0.109	0.0	0.3	0.1
5160	65.001	63.454	-0.109	0.0	0.3	0.1
5184	65.001	63.454	-0.109	0.0	0.3	0.1
5208	65.001	63.454	-0.109	0.0	0.3	0.1
5232	65.001	63.454	-0.109	0.0	0.3	0.1
5256	65.001	63.454	-0.109	0.0	0.3	0.1
5280	65.001	63.454	-0.109	0.0	0.3	0.1
5304	65.001	63.454	-0.109	0.0	0.3	0.1
5328	65.001	63.454	-0.109	0.0	0.3	0.1
5352	65.001	63.454	-0.109	0.0	0.3	0.1
5376	65.001	63.453	-0.109	0.0	0.3	0.1
5400	65.001	63.453	-0.109	0.0	0.3	0.1
5424	65.001	63.453	-0.109	0.0	0.3	0.1
5448	65.001	63.453	-0.109	0.0	0.3	0.1
5472	65.001	63.453	-0.109	0.0	0.3	0.1
5496	65.001	63.453	-0.109	0.0	0.3	0.1
5520	65.001	63.453	-0.109	0.0	0.3	0.1
5544	65.001	63.453	-0.109	0.0	0.3	0.1
5568	65.001	63.453	-0.109	0.0	0.2	0.1
5592	65.001	63.453	-0.109	0.0	0.2	0.1
5616	65.001	63.453	-0.109	0.0	0.2	0.1
5640	65.001	63.453	-0.109	0.0	0.2	0.1
5664	65.001	63.453	-0.109	0.0	0.2	0.1
5688	65.001	63.453	-0.109	0.0	0.2	0.1
5712	65.001	63.453	-0.109	0.0	0.2	0.1
5736	65.001	63.453	-0.109	0.0	0.2	0.1
5760	65.001	63.452	-0.109	0.0	0.2	0.1
5784	65.001	63.452	-0.109	0.0	0.2	0.1
5808	65.001	63.452	-0.109	0.0	0.2	0.1
5832	65.001	63.452	-0.109	0.0	0.2	0.1
5856	65.001	63.452	-0.109	0.0	0.2	0.1
5880	65.001	63.452	-0.109	0.0	0.2	0.1
5904	65.001	63.452	-0.109	0.0	0.2	0.1
5928	65.001	63.453	-0.109	0.0	0.2	0.1
5952	65.001	63.453	-0.109	0.0	0.2	0.1
5976	65.001	63.453	-0.109	0.0	0.2	0.1
6000	65.001	63.454	-0.109	0.0	0.2	0.1

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	65.001	63.454	-0.109	0.0	0.2	0.1
6048	65.001	63.454	-0.109	0.0	0.2	0.1
6072	65.001	63.454	-0.109	0.0	0.2	0.0
6096	65.001	63.455	-0.109	0.0	0.2	0.0
6120	65.001	63.455	-0.109	0.0	0.2	0.0
6144	65.001	63.455	-0.109	0.0	0.2	0.0
6168	65.001	63.455	-0.109	0.0	0.2	0.0
6192	65.001	63.456	-0.109	0.0	0.2	0.0
6216	65.001	63.456	-0.109	0.0	0.2	0.0
6240	65.001	63.456	-0.109	0.0	0.2	0.0
6264	65.001	63.456	-0.109	0.0	0.2	0.0
6288	65.001	63.456	-0.109	0.0	0.2	0.0
6312	65.001	63.456	-0.109	0.0	0.2	0.0
6336	65.001	63.456	-0.109	0.0	0.2	0.0
6360	65.001	63.456	-0.109	0.0	0.2	0.0
6384	65.001	63.456	-0.109	0.0	0.2	0.0
6408	65.001	63.456	-0.109	0.0	0.2	0.0
6432	65.001	63.456	-0.109	0.0	0.2	0.0
6456	65.001	63.456	-0.109	0.0	0.2	0.0
6480	65.001	63.456	-0.109	0.0	0.2	0.0
6504	65.001	63.456	-0.109	0.0	0.2	0.0
6528	65.001	63.456	-0.109	0.0	0.2	0.0
6552	65.001	63.456	-0.109	0.0	0.2	0.0
6576	65.001	63.455	-0.109	0.0	0.1	0.0
6600	65.001	63.455	-0.109	0.0	0.1	0.0
6624	65.001	63.455	-0.109	0.0	0.1	0.0
6648	65.001	63.455	-0.109	0.0	0.1	0.0
6672	65.001	63.454	-0.109	0.0	0.1	0.0
6696	65.001	63.454	-0.109	0.0	0.1	0.0
6720	65.001	63.453	-0.109	0.0	0.1	0.0
6744	65.001	63.453	-0.109	0.0	0.1	0.0
6768	65.001	63.452	-0.109	0.0	0.1	0.0
6792	65.001	63.452	-0.109	0.0	0.1	0.0
6816	65.001	63.451	-0.109	0.0	0.1	0.0
6840	65.001	63.451	-0.109	0.0	0.1	0.0
6864	65.001	63.451	-0.109	0.0	0.1	0.0
6888	65.000	63.450	-0.110	0.0	0.1	0.0
6912	65.000	63.450	-0.110	0.0	0.1	0.0
6936	65.000	63.449	-0.110	0.0	0.1	0.0
6960	65.000	63.449	-0.110	0.0	0.1	0.0
6984	65.000	63.449	-0.110	0.0	0.1	0.0
7008	65.000	63.448	-0.110	0.0	0.1	0.0
7032	65.000	63.448	-0.110	0.0	0.1	0.0
7056	65.000	63.448	-0.110	0.0	0.1	0.0
7080	65.000	63.448	-0.110	0.0	0.1	0.0
7104	65.000	63.448	-0.110	0.0	0.1	0.0
7128	65.000	63.448	-0.110	0.0	0.1	0.0
7152	65.000	63.448	-0.110	0.0	0.1	0.0
7176	65.000	63.447	-0.110	0.0	0.1	0.0
7200	65.000	63.447	-0.110	0.0	0.1	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	65.000	63.447	-0.110	0.0	0.1	0.0
7248	65.000	63.447	-0.110	0.0	0.1	0.0
7272	65.000	63.447	-0.110	0.0	0.1	0.0
7296	65.000	63.447	-0.110	0.0	0.1	0.0
7320	65.000	63.447	-0.110	0.0	0.1	0.0
7344	65.000	63.447	-0.110	0.0	0.1	0.0
7368	65.000	63.447	-0.110	0.0	0.1	0.0
7392	65.000	63.447	-0.110	0.0	0.1	0.0
7416	65.000	63.447	-0.110	0.0	0.1	0.0
7440	65.000	63.447	-0.110	0.0	0.1	0.0
7464	65.000	63.447	-0.110	0.0	0.1	0.0
7488	65.000	63.447	-0.110	0.0	0.1	0.0
7512	65.000	63.447	-0.110	0.0	0.1	0.0
7536	65.000	63.447	-0.110	0.0	0.1	0.0
7560	65.000	63.447	-0.110	0.0	0.1	0.0
7584	65.000	63.446	-0.110	0.0	0.1	0.0
7608	65.000	63.446	-0.110	0.0	0.1	0.0
7632	65.000	63.446	-0.110	0.0	0.1	0.0
7656	65.000	63.446	-0.110	0.0	0.1	0.0
7680	65.000	63.446	-0.110	0.0	0.1	0.0
7704	65.000	63.446	-0.110	0.0	0.1	0.0
7728	65.000	63.446	-0.110	0.0	0.1	0.0
7752	65.000	63.446	-0.110	0.0	0.1	0.0
7776	65.000	63.446	-0.110	0.0	0.1	0.0
7800	65.000	63.446	-0.110	0.0	0.1	0.0
7824	65.000	63.446	-0.110	0.0	0.1	0.0
7848	65.000	63.446	-0.110	0.0	0.1	0.0
7872	65.000	63.446	-0.110	0.0	0.1	0.0
7896	65.000	63.446	-0.110	0.0	0.1	0.0
7920	65.000	63.446	-0.110	0.0	0.1	0.0
7944	65.000	63.446	-0.110	0.0	0.1	0.0
7968	65.000	63.446	-0.110	0.0	0.1	0.0
7992	65.000	63.446	-0.110	0.0	0.1	0.0
8016	65.000	63.446	-0.110	0.0	0.1	0.0
8040	65.000	63.446	-0.110	0.0	0.1	0.0
8064	65.000	63.446	-0.110	0.0	0.1	0.0
8088	65.000	63.446	-0.110	0.0	0.1	0.0
8112	65.000	63.446	-0.110	0.0	0.1	0.0
8136	65.000	63.446	-0.110	0.0	0.1	0.0
8160	65.000	63.446	-0.110	0.0	0.1	0.0
8184	65.000	63.446	-0.110	0.0	0.1	0.0
8208	65.000	63.446	-0.110	0.0	0.1	0.0
8232	65.000	63.446	-0.110	0.0	0.1	0.0
8256	65.000	63.446	-0.110	0.0	0.1	0.0
8280	65.000	63.446	-0.110	0.0	0.1	0.0
8304	65.000	63.446	-0.110	0.0	0.0	0.0
8328	65.000	63.446	-0.110	0.0	0.0	0.0
8352	65.000	63.446	-0.110	0.0	0.0	0.0
8376	65.000	63.446	-0.110	0.0	0.0	0.0
8400	65.000	63.446	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	65.000	63.446	-0.110	0.0	0.0	0.0
8448	65.000	63.446	-0.110	0.0	0.0	0.0
8472	65.000	63.446	-0.110	0.0	0.0	0.0
8496	65.000	63.446	-0.110	0.0	0.0	0.0
8520	65.000	63.446	-0.110	0.0	0.0	0.0
8544	65.000	63.446	-0.110	0.0	0.0	0.0
8568	65.000	63.446	-0.110	0.0	0.0	0.0
8592	65.000	63.446	-0.110	0.0	0.0	0.0
8616	65.000	63.446	-0.110	0.0	0.0	0.0
8640	65.000	63.446	-0.110	0.0	0.0	0.0
8664	65.000	63.446	-0.110	0.0	0.0	0.0
8688	65.000	63.446	-0.110	0.0	0.0	0.0
8712	65.000	63.446	-0.110	0.0	0.0	0.0
8736	65.000	63.446	-0.110	0.0	0.0	0.0
8760	65.000	63.446	-0.110	0.0	0.0	0.0
8784	65.000	63.446	-0.110	0.0	0.0	0.0
8808	65.000	63.446	-0.110	0.0	0.0	0.0
8832	65.000	63.446	-0.110	0.0	0.0	0.0
8856	65.000	63.446	-0.110	0.0	0.0	0.0
8880	65.000	63.446	-0.110	0.0	0.0	0.0
8904	65.000	63.446	-0.110	0.0	0.0	0.0
8928	65.000	63.446	-0.110	0.0	0.0	0.0
8952	65.000	63.446	-0.110	0.0	0.0	0.0
8976	65.000	63.446	-0.110	0.0	0.0	0.0
9000	65.000	63.446	-0.110	0.0	0.0	0.0
9024	65.000	63.446	-0.110	0.0	0.0	0.0
9048	65.000	63.446	-0.110	0.0	0.0	0.0
9072	65.000	63.446	-0.110	0.0	0.0	0.0
9096	65.000	63.446	-0.110	0.0	0.0	0.0
9120	65.000	63.446	-0.110	0.0	0.0	0.0
9144	65.000	63.446	-0.110	0.0	0.0	0.0
9168	65.000	63.446	-0.110	0.0	0.0	0.0
9192	65.000	63.446	-0.110	0.0	0.0	0.0
9216	65.000	63.446	-0.110	0.0	0.0	0.0
9240	65.000	63.446	-0.110	0.0	0.0	0.0
9264	65.000	63.446	-0.110	0.0	0.0	0.0
9288	65.000	63.446	-0.110	0.0	0.0	0.0
9312	65.000	63.446	-0.110	0.0	0.0	0.0
9336	65.000	63.446	-0.110	0.0	0.0	0.0
9360	65.000	63.446	-0.110	0.0	0.0	0.0
9384	65.000	63.446	-0.110	0.0	0.0	0.0
9408	65.000	63.446	-0.110	0.0	0.0	0.0
9432	65.000	63.446	-0.110	0.0	0.0	0.0
9456	65.000	63.446	-0.110	0.0	0.0	0.0
9480	65.000	63.446	-0.110	0.0	0.0	0.0
9504	65.000	63.446	-0.110	0.0	0.0	0.0
9528	65.000	63.446	-0.110	0.0	0.0	0.0
9552	65.000	63.446	-0.110	0.0	0.0	0.0
9576	65.000	63.446	-0.110	0.0	0.0	0.0
9600	65.000	63.445	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	65.000	63.445	-0.110	0.0	0.0	0.0
9648	65.000	63.445	-0.110	0.0	0.0	0.0
9672	65.000	63.445	-0.110	0.0	0.0	0.0
9696	65.000	63.445	-0.110	0.0	0.0	0.0
9720	65.000	63.445	-0.110	0.0	0.0	0.0
9744	65.000	63.445	-0.110	0.0	0.0	0.0
9768	65.000	63.445	-0.110	0.0	0.0	0.0
9792	65.000	63.445	-0.110	0.0	0.0	0.0
9816	65.000	63.445	-0.110	0.0	0.0	0.0
9840	65.000	63.445	-0.110	0.0	0.0	0.0
9864	65.000	63.445	-0.110	0.0	0.0	0.0
9888	65.000	63.445	-0.110	0.0	0.0	0.0
9912	65.000	63.445	-0.110	0.0	0.0	0.0
9936	65.000	63.445	-0.110	0.0	0.0	0.0
9960	65.000	63.445	-0.110	0.0	0.0	0.0
9984	65.000	63.445	-0.110	0.0	0.0	0.0
10008	65.000	63.444	-0.110	0.0	0.0	0.0
10032	65.000	63.444	-0.110	0.0	0.0	0.0
10056	65.000	63.444	-0.110	0.0	0.0	0.0
10080	65.000	63.444	-0.110	0.0	0.0	0.0
10104	65.000	63.444	-0.110	0.0	0.0	0.0
10128	65.000	63.444	-0.110	0.0	0.0	0.0
10152	65.000	63.444	-0.110	0.0	0.0	0.0
10176	65.000	63.444	-0.110	0.0	0.0	0.0
10200	65.000	63.444	-0.110	0.0	0.0	0.0
10224	65.000	63.444	-0.110	0.0	0.0	0.0
10248	65.000	63.444	-0.110	0.0	0.0	0.0
10272	65.000	63.444	-0.110	0.0	0.0	0.0
10296	65.000	63.444	-0.110	0.0	0.0	0.0
10320	65.000	63.444	-0.110	0.0	0.0	0.0
10344	65.000	63.444	-0.110	0.0	0.0	0.0
10368	65.000	63.444	-0.110	0.0	0.0	0.0
10392	65.000	63.444	-0.110	0.0	0.0	0.0
10416	65.000	63.444	-0.110	0.0	0.0	0.0
10440	65.000	63.444	-0.110	0.0	0.0	0.0
10464	65.000	63.444	-0.110	0.0	0.0	0.0
10488	65.000	63.444	-0.110	0.0	0.0	0.0
10512	65.000	63.444	-0.110	0.0	0.0	0.0
10536	65.000	63.444	-0.110	0.0	0.0	0.0
10560	65.000	63.444	-0.110	0.0	0.0	0.0
10584	65.000	63.444	-0.110	0.0	0.0	0.0
10608	65.000	63.444	-0.110	0.0	0.0	0.0
10632	65.000	63.444	-0.110	0.0	0.0	0.0
10656	65.000	63.444	-0.110	0.0	0.0	0.0
10680	65.000	63.444	-0.110	0.0	0.0	0.0
10704	65.000	63.444	-0.110	0.0	0.0	0.0
10728	65.000	63.444	-0.110	0.0	0.0	0.0
10752	65.000	63.444	-0.110	0.0	0.0	0.0
10776	65.000	63.444	-0.110	0.0	0.0	0.0
10800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	65.000	63.444	-0.110	0.0	0.0	0.0
10848	65.000	63.444	-0.110	0.0	0.0	0.0
10872	65.000	63.444	-0.110	0.0	0.0	0.0
10896	65.000	63.444	-0.110	0.0	0.0	0.0
10920	65.000	63.444	-0.110	0.0	0.0	0.0
10944	65.000	63.444	-0.110	0.0	0.0	0.0
10968	65.000	63.444	-0.110	0.0	0.0	0.0
10992	65.000	63.444	-0.110	0.0	0.0	0.0
11016	65.000	63.444	-0.110	0.0	0.0	0.0
11040	65.000	63.444	-0.110	0.0	0.0	0.0
11064	65.000	63.444	-0.110	0.0	0.0	0.0
11088	65.000	63.444	-0.110	0.0	0.0	0.0
11112	65.000	63.444	-0.110	0.0	0.0	0.0
11136	65.000	63.444	-0.110	0.0	0.0	0.0
11160	65.000	63.444	-0.110	0.0	0.0	0.0
11184	65.000	63.444	-0.110	0.0	0.0	0.0
11208	65.000	63.444	-0.110	0.0	0.0	0.0
11232	65.000	63.444	-0.110	0.0	0.0	0.0
11256	65.000	63.444	-0.110	0.0	0.0	0.0
11280	65.000	63.444	-0.110	0.0	0.0	0.0
11304	65.000	63.444	-0.110	0.0	0.0	0.0
11328	65.000	63.444	-0.110	0.0	0.0	0.0
11352	65.000	63.444	-0.110	0.0	0.0	0.0
11376	65.000	63.444	-0.110	0.0	0.0	0.0
11400	65.000	63.444	-0.110	0.0	0.0	0.0
11424	65.000	63.444	-0.110	0.0	0.0	0.0
11448	65.000	63.444	-0.110	0.0	0.0	0.0
11472	65.000	63.444	-0.110	0.0	0.0	0.0
11496	65.000	63.444	-0.110	0.0	0.0	0.0
11520	65.000	63.444	-0.110	0.0	0.0	0.0
11544	65.000	63.444	-0.110	0.0	0.0	0.0
11568	65.000	63.444	-0.110	0.0	0.0	0.0
11592	65.000	63.444	-0.110	0.0	0.0	0.0
11616	65.000	63.444	-0.110	0.0	0.0	0.0
11640	65.000	63.444	-0.110	0.0	0.0	0.0
11664	65.000	63.444	-0.110	0.0	0.0	0.0
11688	65.000	63.444	-0.110	0.0	0.0	0.0
11712	65.000	63.444	-0.110	0.0	0.0	0.0
11736	65.000	63.444	-0.110	0.0	0.0	0.0
11760	65.000	63.444	-0.110	0.0	0.0	0.0
11784	65.000	63.444	-0.110	0.0	0.0	0.0
11808	65.000	63.444	-0.110	0.0	0.0	0.0
11832	65.000	63.444	-0.110	0.0	0.0	0.0
11856	65.000	63.444	-0.110	0.0	0.0	0.0
11880	65.000	63.444	-0.110	0.0	0.0	0.0
11904	65.000	63.444	-0.110	0.0	0.0	0.0
11928	65.000	63.444	-0.110	0.0	0.0	0.0
11952	65.000	63.444	-0.110	0.0	0.0	0.0
11976	65.000	63.444	-0.110	0.0	0.0	0.0
12000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	65.000	63.444	-0.110	0.0	0.0	0.0
12048	65.000	63.444	-0.110	0.0	0.0	0.0
12072	65.000	63.444	-0.110	0.0	0.0	0.0
12096	65.000	63.444	-0.110	0.0	0.0	0.0
12120	65.000	63.444	-0.110	0.0	0.0	0.0
12144	65.000	63.444	-0.110	0.0	0.0	0.0
12168	65.000	63.444	-0.110	0.0	0.0	0.0
12192	65.000	63.444	-0.110	0.0	0.0	0.0
12216	65.000	63.444	-0.110	0.0	0.0	0.0
12240	65.000	63.444	-0.110	0.0	0.0	0.0
12264	65.000	63.444	-0.110	0.0	0.0	0.0
12288	65.000	63.444	-0.110	0.0	0.0	0.0
12312	65.000	63.444	-0.110	0.0	0.0	0.0
12336	65.000	63.444	-0.110	0.0	0.0	0.0
12360	65.000	63.444	-0.110	0.0	0.0	0.0
12384	65.000	63.444	-0.110	0.0	0.0	0.0
12408	65.000	63.444	-0.110	0.0	0.0	0.0
12432	65.000	63.444	-0.110	0.0	0.0	0.0
12456	65.000	63.444	-0.110	0.0	0.0	0.0
12480	65.000	63.444	-0.110	0.0	0.0	0.0
12504	65.000	63.444	-0.110	0.0	0.0	0.0
12528	65.000	63.444	-0.110	0.0	0.0	0.0
12552	65.000	63.444	-0.110	0.0	0.0	0.0
12576	65.000	63.444	-0.110	0.0	0.0	0.0
12600	65.000	63.444	-0.110	0.0	0.0	0.0
12624	65.000	63.444	-0.110	0.0	0.0	0.0
12648	65.000	63.444	-0.110	0.0	0.0	0.0
12672	65.000	63.444	-0.110	0.0	0.0	0.0
12696	65.000	63.444	-0.110	0.0	0.0	0.0
12720	65.000	63.444	-0.110	0.0	0.0	0.0
12744	65.000	63.444	-0.110	0.0	0.0	0.0
12768	65.000	63.444	-0.110	0.0	0.0	0.0
12792	65.000	63.444	-0.110	0.0	0.0	0.0
12816	65.000	63.444	-0.110	0.0	0.0	0.0
12840	65.000	63.444	-0.110	0.0	0.0	0.0
12864	65.000	63.444	-0.110	0.0	0.0	0.0
12888	65.000	63.444	-0.110	0.0	0.0	0.0
12912	65.000	63.444	-0.110	0.0	0.0	0.0
12936	65.000	63.444	-0.110	0.0	0.0	0.0
12960	65.000	63.444	-0.110	0.0	0.0	0.0
12984	65.000	63.444	-0.110	0.0	0.0	0.0
13008	65.000	63.444	-0.110	0.0	0.0	0.0
13032	65.000	63.444	-0.110	0.0	0.0	0.0
13056	65.000	63.444	-0.110	0.0	0.0	0.0
13080	65.000	63.444	-0.110	0.0	0.0	0.0
13104	65.000	63.444	-0.110	0.0	0.0	0.0
13128	65.000	63.444	-0.110	0.0	0.0	0.0
13152	65.000	63.444	-0.110	0.0	0.0	0.0
13176	65.000	63.444	-0.110	0.0	0.0	0.0
13200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	65.000	63.444	-0.110	0.0	0.0	0.0
13248	65.000	63.444	-0.110	0.0	0.0	0.0
13272	65.000	63.444	-0.110	0.0	0.0	0.0
13296	65.000	63.444	-0.110	0.0	0.0	0.0
13320	65.000	63.444	-0.110	0.0	0.0	0.0
13344	65.000	63.444	-0.110	0.0	0.0	0.0
13368	65.000	63.444	-0.110	0.0	0.0	0.0
13392	65.000	63.444	-0.110	0.0	0.0	0.0
13416	65.000	63.444	-0.110	0.0	0.0	0.0
13440	65.000	63.444	-0.110	0.0	0.0	0.0
13464	65.000	63.444	-0.110	0.0	0.0	0.0
13488	65.000	63.444	-0.110	0.0	0.0	0.0
13512	65.000	63.444	-0.110	0.0	0.0	0.0
13536	65.000	63.444	-0.110	0.0	0.0	0.0
13560	65.000	63.444	-0.110	0.0	0.0	0.0
13584	65.000	63.444	-0.110	0.0	0.0	0.0
13608	65.000	63.444	-0.110	0.0	0.0	0.0
13632	65.000	63.444	-0.110	0.0	0.0	0.0
13656	65.000	63.444	-0.110	0.0	0.0	0.0
13680	65.000	63.444	-0.110	0.0	0.0	0.0
13704	65.000	63.444	-0.110	0.0	0.0	0.0
13728	65.000	63.444	-0.110	0.0	0.0	0.0
13752	65.000	63.444	-0.110	0.0	0.0	0.0
13776	65.000	63.444	-0.110	0.0	0.0	0.0
13800	65.000	63.444	-0.110	0.0	0.0	0.0
13824	65.000	63.444	-0.110	0.0	0.0	0.0
13848	65.000	63.444	-0.110	0.0	0.0	0.0
13872	65.000	63.444	-0.110	0.0	0.0	0.0
13896	65.000	63.444	-0.110	0.0	0.0	0.0
13920	65.000	63.444	-0.110	0.0	0.0	0.0
13944	65.000	63.444	-0.110	0.0	0.0	0.0
13968	65.000	63.444	-0.110	0.0	0.0	0.0
13992	65.000	63.444	-0.110	0.0	0.0	0.0
14016	65.000	63.444	-0.110	0.0	0.0	0.0
14040	65.000	63.444	-0.110	0.0	0.0	0.0
14064	65.000	63.444	-0.110	0.0	0.0	0.0
14088	65.000	63.444	-0.110	0.0	0.0	0.0
14112	65.000	63.444	-0.110	0.0	0.0	0.0
14136	65.000	63.444	-0.110	0.0	0.0	0.0
14160	65.000	63.444	-0.110	0.0	0.0	0.0
14184	65.000	63.444	-0.110	0.0	0.0	0.0
14208	65.000	63.444	-0.110	0.0	0.0	0.0
14232	65.000	63.444	-0.110	0.0	0.0	0.0
14256	65.000	63.444	-0.110	0.0	0.0	0.0
14280	65.000	63.444	-0.110	0.0	0.0	0.0
14304	65.000	63.444	-0.110	0.0	0.0	0.0
14328	65.000	63.444	-0.110	0.0	0.0	0.0
14352	65.000	63.444	-0.110	0.0	0.0	0.0
14376	65.000	63.444	-0.110	0.0	0.0	0.0
14400	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	65.000	63.444	-0.110	0.0	0.0	0.0
14448	65.000	63.444	-0.110	0.0	0.0	0.0
14472	65.000	63.444	-0.110	0.0	0.0	0.0
14496	65.000	63.444	-0.110	0.0	0.0	0.0
14520	65.000	63.444	-0.110	0.0	0.0	0.0
14544	65.000	63.444	-0.110	0.0	0.0	0.0
14568	65.000	63.444	-0.110	0.0	0.0	0.0
14592	65.000	63.444	-0.110	0.0	0.0	0.0
14616	65.000	63.444	-0.110	0.0	0.0	0.0
14640	65.000	63.444	-0.110	0.0	0.0	0.0
14664	65.000	63.444	-0.110	0.0	0.0	0.0
14688	65.000	63.444	-0.110	0.0	0.0	0.0
14712	65.000	63.444	-0.110	0.0	0.0	0.0
14736	65.000	63.444	-0.110	0.0	0.0	0.0
14760	65.000	63.444	-0.110	0.0	0.0	0.0
14784	65.000	63.444	-0.110	0.0	0.0	0.0
14808	65.000	63.444	-0.110	0.0	0.0	0.0
14832	65.000	63.444	-0.110	0.0	0.0	0.0
14856	65.000	63.444	-0.110	0.0	0.0	0.0
14880	65.000	63.444	-0.110	0.0	0.0	0.0
14904	65.000	63.444	-0.110	0.0	0.0	0.0
14928	65.000	63.444	-0.110	0.0	0.0	0.0
14952	65.000	63.444	-0.110	0.0	0.0	0.0
14976	65.000	63.444	-0.110	0.0	0.0	0.0
15000	65.000	63.444	-0.110	0.0	0.0	0.0
15024	65.000	63.444	-0.110	0.0	0.0	0.0
15048	65.000	63.444	-0.110	0.0	0.0	0.0
15072	65.000	63.444	-0.110	0.0	0.0	0.0
15096	65.000	63.444	-0.110	0.0	0.0	0.0
15120	65.000	63.444	-0.110	0.0	0.0	0.0
15144	65.000	63.444	-0.110	0.0	0.0	0.0
15168	65.000	63.444	-0.110	0.0	0.0	0.0
15192	65.000	63.444	-0.110	0.0	0.0	0.0
15216	65.000	63.444	-0.110	0.0	0.0	0.0
15240	65.000	63.444	-0.110	0.0	0.0	0.0
15264	65.000	63.444	-0.110	0.0	0.0	0.0
15288	65.000	63.444	-0.110	0.0	0.0	0.0
15312	65.000	63.444	-0.110	0.0	0.0	0.0
15336	65.000	63.444	-0.110	0.0	0.0	0.0
15360	65.000	63.444	-0.110	0.0	0.0	0.0
15384	65.000	63.444	-0.110	0.0	0.0	0.0
15408	65.000	63.444	-0.110	0.0	0.0	0.0
15432	65.000	63.444	-0.110	0.0	0.0	0.0
15456	65.000	63.444	-0.110	0.0	0.0	0.0
15480	65.000	63.444	-0.110	0.0	0.0	0.0
15504	65.000	63.444	-0.110	0.0	0.0	0.0
15528	65.000	63.444	-0.110	0.0	0.0	0.0
15552	65.000	63.444	-0.110	0.0	0.0	0.0
15576	65.000	63.444	-0.110	0.0	0.0	0.0
15600	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	65.000	63.444	-0.110	0.0	0.0	0.0
15648	65.000	63.444	-0.110	0.0	0.0	0.0
15672	65.000	63.444	-0.110	0.0	0.0	0.0
15696	65.000	63.444	-0.110	0.0	0.0	0.0
15720	65.000	63.444	-0.110	0.0	0.0	0.0
15744	65.000	63.444	-0.110	0.0	0.0	0.0
15768	65.000	63.444	-0.110	0.0	0.0	0.0
15792	65.000	63.444	-0.110	0.0	0.0	0.0
15816	65.000	63.444	-0.110	0.0	0.0	0.0
15840	65.000	63.444	-0.110	0.0	0.0	0.0
15864	65.000	63.444	-0.110	0.0	0.0	0.0
15888	65.000	63.444	-0.110	0.0	0.0	0.0
15912	65.000	63.444	-0.110	0.0	0.0	0.0
15936	65.000	63.444	-0.110	0.0	0.0	0.0
15960	65.000	63.444	-0.110	0.0	0.0	0.0
15984	65.000	63.444	-0.110	0.0	0.0	0.0
16008	65.000	63.444	-0.110	0.0	0.0	0.0
16032	65.000	63.444	-0.110	0.0	0.0	0.0
16056	65.000	63.444	-0.110	0.0	0.0	0.0
16080	65.000	63.444	-0.110	0.0	0.0	0.0
16104	65.000	63.444	-0.110	0.0	0.0	0.0
16128	65.000	63.444	-0.110	0.0	0.0	0.0
16152	65.000	63.444	-0.110	0.0	0.0	0.0
16176	65.000	63.444	-0.110	0.0	0.0	0.0
16200	65.000	63.444	-0.110	0.0	0.0	0.0
16224	65.000	63.444	-0.110	0.0	0.0	0.0
16248	65.000	63.444	-0.110	0.0	0.0	0.0
16272	65.000	63.444	-0.110	0.0	0.0	0.0
16296	65.000	63.444	-0.110	0.0	0.0	0.0
16320	65.000	63.444	-0.110	0.0	0.0	0.0
16344	65.000	63.444	-0.110	0.0	0.0	0.0
16368	65.000	63.444	-0.110	0.0	0.0	0.0
16392	65.000	63.444	-0.110	0.0	0.0	0.0
16416	65.000	63.444	-0.110	0.0	0.0	0.0
16440	65.000	63.444	-0.110	0.0	0.0	0.0
16464	65.000	63.444	-0.110	0.0	0.0	0.0
16488	65.000	63.444	-0.110	0.0	0.0	0.0
16512	65.000	63.444	-0.110	0.0	0.0	0.0
16536	65.000	63.444	-0.110	0.0	0.0	0.0
16560	65.000	63.444	-0.110	0.0	0.0	0.0
16584	65.000	63.444	-0.110	0.0	0.0	0.0
16608	65.000	63.444	-0.110	0.0	0.0	0.0
16632	65.000	63.444	-0.110	0.0	0.0	0.0
16656	65.000	63.444	-0.110	0.0	0.0	0.0
16680	65.000	63.444	-0.110	0.0	0.0	0.0
16704	65.000	63.444	-0.110	0.0	0.0	0.0
16728	65.000	63.444	-0.110	0.0	0.0	0.0
16752	65.000	63.444	-0.110	0.0	0.0	0.0
16776	65.000	63.444	-0.110	0.0	0.0	0.0
16800	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	65.000	63.444	-0.110	0.0	0.0	0.0
16848	65.000	63.444	-0.110	0.0	0.0	0.0
16872	65.000	63.444	-0.110	0.0	0.0	0.0
16896	65.000	63.444	-0.110	0.0	0.0	0.0
16920	65.000	63.444	-0.110	0.0	0.0	0.0
16944	65.000	63.444	-0.110	0.0	0.0	0.0
16968	65.000	63.444	-0.110	0.0	0.0	0.0
16992	65.000	63.444	-0.110	0.0	0.0	0.0
17016	65.000	63.444	-0.110	0.0	0.0	0.0
17040	65.000	63.444	-0.110	0.0	0.0	0.0
17064	65.000	63.444	-0.110	0.0	0.0	0.0
17088	65.000	63.444	-0.110	0.0	0.0	0.0
17112	65.000	63.444	-0.110	0.0	0.0	0.0
17136	65.000	63.444	-0.110	0.0	0.0	0.0
17160	65.000	63.444	-0.110	0.0	0.0	0.0
17184	65.000	63.444	-0.110	0.0	0.0	0.0
17208	65.000	63.444	-0.110	0.0	0.0	0.0
17232	65.000	63.444	-0.110	0.0	0.0	0.0
17256	65.000	63.444	-0.110	0.0	0.0	0.0
17280	65.000	63.444	-0.110	0.0	0.0	0.0
17304	65.000	63.444	-0.110	0.0	0.0	0.0
17328	65.000	63.444	-0.110	0.0	0.0	0.0
17352	65.000	63.444	-0.110	0.0	0.0	0.0
17376	65.000	63.444	-0.110	0.0	0.0	0.0
17400	65.000	63.444	-0.110	0.0	0.0	0.0
17424	65.000	63.444	-0.110	0.0	0.0	0.0
17448	65.000	63.444	-0.110	0.0	0.0	0.0
17472	65.000	63.444	-0.110	0.0	0.0	0.0
17496	65.000	63.444	-0.110	0.0	0.0	0.0
17520	65.000	63.444	-0.110	0.0	0.0	0.0
17544	65.000	63.444	-0.110	0.0	0.0	0.0
17568	65.000	63.444	-0.110	0.0	0.0	0.0
17592	65.000	63.444	-0.110	0.0	0.0	0.0
17616	65.000	63.444	-0.110	0.0	0.0	0.0
17640	65.000	63.444	-0.110	0.0	0.0	0.0
17664	65.000	63.444	-0.110	0.0	0.0	0.0
17688	65.000	63.444	-0.110	0.0	0.0	0.0
17712	65.000	63.444	-0.110	0.0	0.0	0.0
17736	65.000	63.444	-0.110	0.0	0.0	0.0
17760	65.000	63.444	-0.110	0.0	0.0	0.0
17784	65.000	63.444	-0.110	0.0	0.0	0.0
17808	65.000	63.444	-0.110	0.0	0.0	0.0
17832	65.000	63.444	-0.110	0.0	0.0	0.0
17856	65.000	63.444	-0.110	0.0	0.0	0.0
17880	65.000	63.444	-0.110	0.0	0.0	0.0
17904	65.000	63.444	-0.110	0.0	0.0	0.0
17928	65.000	63.444	-0.110	0.0	0.0	0.0
17952	65.000	63.444	-0.110	0.0	0.0	0.0
17976	65.000	63.444	-0.110	0.0	0.0	0.0
18000	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	65.000	63.444	-0.110	0.0	0.0	0.0
18048	65.000	63.444	-0.110	0.0	0.0	0.0
18072	65.000	63.444	-0.110	0.0	0.0	0.0
18096	65.000	63.444	-0.110	0.0	0.0	0.0
18120	65.000	63.444	-0.110	0.0	0.0	0.0
18144	65.000	63.444	-0.110	0.0	0.0	0.0
18168	65.000	63.444	-0.110	0.0	0.0	0.0
18192	65.000	63.444	-0.110	0.0	0.0	0.0
18216	65.000	63.444	-0.110	0.0	0.0	0.0
18240	65.000	63.444	-0.110	0.0	0.0	0.0
18264	65.000	63.444	-0.110	0.0	0.0	0.0
18288	65.000	63.444	-0.110	0.0	0.0	0.0
18312	65.000	63.444	-0.110	0.0	0.0	0.0
18336	65.000	63.444	-0.110	0.0	0.0	0.0
18360	65.000	63.444	-0.110	0.0	0.0	0.0
18384	65.000	63.444	-0.110	0.0	0.0	0.0
18408	65.000	63.444	-0.110	0.0	0.0	0.0
18432	65.000	63.444	-0.110	0.0	0.0	0.0
18456	65.000	63.444	-0.110	0.0	0.0	0.0
18480	65.000	63.444	-0.110	0.0	0.0	0.0
18504	65.000	63.444	-0.110	0.0	0.0	0.0
18528	65.000	63.444	-0.110	0.0	0.0	0.0
18552	65.000	63.444	-0.110	0.0	0.0	0.0
18576	65.000	63.444	-0.110	0.0	0.0	0.0
18600	65.000	63.444	-0.110	0.0	0.0	0.0
18624	65.000	63.444	-0.110	0.0	0.0	0.0
18648	65.000	63.444	-0.110	0.0	0.0	0.0
18672	65.000	63.444	-0.110	0.0	0.0	0.0
18696	65.000	63.444	-0.110	0.0	0.0	0.0
18720	65.000	63.444	-0.110	0.0	0.0	0.0
18744	65.000	63.444	-0.110	0.0	0.0	0.0
18768	65.000	63.444	-0.110	0.0	0.0	0.0
18792	65.000	63.444	-0.110	0.0	0.0	0.0
18816	65.000	63.444	-0.110	0.0	0.0	0.0
18840	65.000	63.444	-0.110	0.0	0.0	0.0
18864	65.000	63.444	-0.110	0.0	0.0	0.0
18888	65.000	63.444	-0.110	0.0	0.0	0.0
18912	65.000	63.444	-0.110	0.0	0.0	0.0
18936	65.000	63.444	-0.110	0.0	0.0	0.0
18960	65.000	63.444	-0.110	0.0	0.0	0.0
18984	65.000	63.444	-0.110	0.0	0.0	0.0
19008	65.000	63.444	-0.110	0.0	0.0	0.0
19032	65.000	63.444	-0.110	0.0	0.0	0.0
19056	65.000	63.444	-0.110	0.0	0.0	0.0
19080	65.000	63.444	-0.110	0.0	0.0	0.0
19104	65.000	63.444	-0.110	0.0	0.0	0.0
19128	65.000	63.444	-0.110	0.0	0.0	0.0
19152	65.000	63.444	-0.110	0.0	0.0	0.0
19176	65.000	63.444	-0.110	0.0	0.0	0.0
19200	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	65.000	63.444	-0.110	0.0	0.0	0.0
19248	65.000	63.444	-0.110	0.0	0.0	0.0
19272	65.000	63.444	-0.110	0.0	0.0	0.0
19296	65.000	63.444	-0.110	0.0	0.0	0.0
19320	65.000	63.444	-0.110	0.0	0.0	0.0
19344	65.000	63.444	-0.110	0.0	0.0	0.0
19368	65.000	63.444	-0.110	0.0	0.0	0.0
19392	65.000	63.444	-0.110	0.0	0.0	0.0
19416	65.000	63.444	-0.110	0.0	0.0	0.0
19440	65.000	63.444	-0.110	0.0	0.0	0.0
19464	65.000	63.444	-0.110	0.0	0.0	0.0
19488	65.000	63.444	-0.110	0.0	0.0	0.0
19512	65.000	63.444	-0.110	0.0	0.0	0.0
19536	65.000	63.444	-0.110	0.0	0.0	0.0
19560	65.000	63.444	-0.110	0.0	0.0	0.0
19584	65.000	63.444	-0.110	0.0	0.0	0.0
19608	65.000	63.444	-0.110	0.0	0.0	0.0
19632	65.000	63.444	-0.110	0.0	0.0	0.0
19656	65.000	63.444	-0.110	0.0	0.0	0.0
19680	65.000	63.444	-0.110	0.0	0.0	0.0
19704	65.000	63.444	-0.110	0.0	0.0	0.0
19728	65.000	63.444	-0.110	0.0	0.0	0.0
19752	65.000	63.444	-0.110	0.0	0.0	0.0
19776	65.000	63.444	-0.110	0.0	0.0	0.0
19800	65.000	63.444	-0.110	0.0	0.0	0.0
19824	65.000	63.444	-0.110	0.0	0.0	0.0
19848	65.000	63.444	-0.110	0.0	0.0	0.0
19872	65.000	63.444	-0.110	0.0	0.0	0.0
19896	65.000	63.444	-0.110	0.0	0.0	0.0
19920	65.000	63.444	-0.110	0.0	0.0	0.0
19944	65.000	63.444	-0.110	0.0	0.0	0.0
19968	65.000	63.444	-0.110	0.0	0.0	0.0
19992	65.000	63.444	-0.110	0.0	0.0	0.0
20016	65.000	63.444	-0.110	0.0	0.0	0.0
20040	65.000	63.444	-0.110	0.0	0.0	0.0
20064	65.000	63.444	-0.110	0.0	0.0	0.0
20088	65.000	63.444	-0.110	0.0	0.0	0.0
20112	65.000	63.444	-0.110	0.0	0.0	0.0
20136	65.000	63.444	-0.110	0.0	0.0	0.0
20160	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.444	63.250	-0.110	0.0	0.0	0.0
48	63.444	63.250	-0.110	0.0	0.0	0.0
72	63.444	63.250	-0.110	0.0	0.0	0.0
96	63.444	63.250	-0.110	0.0	0.0	0.0
120	63.444	63.250	-0.110	0.0	0.0	0.0
144	63.444	63.250	-0.110	0.0	0.0	0.0
168	63.444	63.250	-0.110	0.0	0.0	0.0
192	63.444	63.250	-0.110	0.0	0.0	0.0
216	63.444	63.250	-0.110	0.0	0.0	0.0
240	63.444	63.250	-0.110	0.0	0.0	0.0
264	63.444	63.250	-0.110	0.0	0.0	0.0
288	63.444	63.250	-0.110	0.0	0.0	0.0
312	63.444	63.251	-0.110	0.0	0.0	0.0
336	63.444	63.251	-0.110	0.0	0.0	0.0
360	63.444	63.251	-0.110	0.0	0.0	0.0
384	63.444	63.251	-0.110	0.0	0.0	0.0
408	63.444	63.251	-0.110	0.0	0.0	0.0
432	63.444	63.251	-0.110	0.0	0.0	0.0
456	63.444	63.252	-0.110	0.0	0.0	0.0
480	63.444	63.252	-0.110	0.0	0.0	0.0
504	63.444	63.252	-0.110	0.0	0.0	0.0
528	63.444	63.252	-0.110	0.0	0.0	0.0
552	63.444	63.252	-0.110	0.0	0.0	0.0
576	63.444	63.252	-0.110	0.0	0.0	0.0
600	63.444	63.253	-0.110	0.0	0.0	0.0
624	63.444	63.253	-0.110	0.0	0.0	0.0
648	63.444	63.253	-0.110	0.0	0.0	0.0
672	63.444	63.253	-0.110	0.0	0.0	0.0
696	63.444	63.253	-0.110	0.0	0.0	0.0
720	63.445	63.253	-0.110	0.0	0.0	0.0
744	63.445	63.254	-0.110	0.0	0.0	0.0
768	63.445	63.254	-0.110	0.0	0.0	0.0
792	63.445	63.254	-0.110	0.0	0.0	0.0
816	63.445	63.254	-0.110	0.0	0.0	0.0
840	63.445	63.254	-0.110	0.0	0.0	0.0
864	63.445	63.254	-0.110	0.0	0.0	0.0
888	63.445	63.254	-0.110	0.0	0.0	0.0
912	63.445	63.254	-0.110	0.0	0.0	0.0
936	63.445	63.254	-0.110	0.0	0.0	0.0
960	63.445	63.255	-0.110	0.0	0.0	0.0
984	63.445	63.255	-0.110	0.0	0.0	0.0
1008	63.445	63.255	-0.110	0.0	0.0	0.0
1032	63.445	63.255	-0.110	0.0	0.0	0.0
1056	63.445	63.255	-0.110	0.0	0.0	0.0
1080	63.445	63.255	-0.110	0.0	0.0	0.0
1104	63.445	63.255	-0.110	0.0	0.0	0.0
1128	63.445	63.255	-0.110	0.0	0.0	0.0
1152	63.445	63.255	-0.110	0.0	0.0	0.0
1176	63.445	63.255	-0.110	0.0	0.0	0.0
1200	63.445	63.255	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.445	63.255	-0.110	0.0	0.0	0.0
1248	63.445	63.255	-0.110	0.0	0.0	0.0
1272	63.445	63.255	-0.110	0.0	0.0	0.0
1296	63.445	63.255	-0.110	0.0	0.0	0.0
1320	63.445	63.255	-0.110	0.0	0.0	0.0
1344	63.445	63.255	-0.110	0.0	0.0	0.0
1368	63.445	63.255	-0.110	0.0	0.0	0.0
1392	63.445	63.255	-0.110	0.0	0.0	0.0
1416	63.445	63.255	-0.110	0.0	0.0	0.0
1440	63.445	63.255	-0.110	0.0	0.0	0.0
1464	63.445	63.255	-0.110	0.0	0.0	0.0
1488	63.445	63.255	-0.110	0.0	0.0	0.0
1512	63.445	63.255	-0.110	0.0	0.0	0.0
1536	63.445	63.255	-0.110	0.0	0.0	0.0
1560	63.445	63.255	-0.110	0.0	0.0	0.0
1584	63.445	63.255	-0.110	0.0	0.0	0.0
1608	63.445	63.255	-0.110	0.0	0.0	0.0
1632	63.445	63.255	-0.110	0.0	0.0	0.0
1656	63.445	63.255	-0.110	0.0	0.0	0.0
1680	63.445	63.255	-0.110	0.0	0.0	0.0
1704	63.445	63.255	-0.110	0.0	0.0	0.0
1728	63.445	63.255	-0.110	0.0	0.0	0.0
1752	63.445	63.256	-0.110	0.0	0.0	0.0
1776	63.445	63.256	-0.110	0.0	0.0	0.0
1800	63.445	63.256	-0.110	0.0	0.0	0.0
1824	63.445	63.256	-0.110	0.0	0.0	0.0
1848	63.445	63.256	-0.110	0.0	0.0	0.0
1872	63.445	63.256	-0.110	0.0	0.0	0.0
1896	63.445	63.256	-0.110	0.0	0.0	0.0
1920	63.445	63.256	-0.110	0.0	0.0	0.0
1944	63.445	63.256	-0.110	0.0	0.0	0.0
1968	63.445	63.256	-0.110	0.0	0.0	0.0
1992	63.445	63.256	-0.110	0.0	0.0	0.0
2016	63.445	63.256	-0.110	0.0	0.0	0.0
2040	63.445	63.256	-0.110	0.0	0.0	0.0
2064	63.445	63.256	-0.110	0.0	0.0	0.0
2088	63.445	63.256	-0.110	0.0	0.0	0.0
2112	63.445	63.256	-0.110	0.0	0.0	0.0
2136	63.445	63.256	-0.110	0.0	0.0	0.0
2160	63.445	63.256	-0.110	0.0	0.0	0.0
2184	63.445	63.256	-0.110	0.0	0.0	0.0
2208	63.445	63.256	-0.110	0.0	0.0	0.0
2232	63.446	63.256	-0.109	0.0	0.1	0.0
2256	63.446	63.257	-0.108	0.0	0.1	0.0
2280	63.446	63.257	-0.108	0.0	0.1	0.0
2304	63.446	63.258	-0.108	0.0	0.1	0.0
2328	63.446	63.258	-0.108	0.0	0.1	0.0
2352	63.446	63.259	-0.108	0.0	0.1	0.0
2376	63.446	63.259	-0.108	0.0	0.1	0.0
2400	63.446	63.259	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.446	63.260	-0.108	0.0	0.1	0.0
2448	63.446	63.260	-0.108	0.0	0.1	0.0
2472	63.446	63.260	-0.108	0.0	0.1	0.0
2496	63.446	63.260	-0.108	0.0	0.1	0.0
2520	63.446	63.260	-0.108	0.0	0.1	0.0
2544	63.447	63.261	-0.108	0.0	0.1	0.0
2568	63.447	63.261	-0.108	0.0	0.1	0.0
2592	63.447	63.262	-0.107	0.0	0.1	0.0
2616	63.447	63.262	-0.107	0.0	0.1	0.0
2640	63.447	63.263	-0.107	0.0	0.1	0.0
2664	63.447	63.263	-0.107	0.0	0.2	0.0
2688	63.447	63.263	-0.107	0.0	0.2	0.0
2712	63.447	63.264	-0.107	0.0	0.2	0.0
2736	63.447	63.264	-0.107	0.0	0.2	0.0
2760	63.447	63.264	-0.107	0.0	0.2	0.0
2784	63.447	63.265	-0.107	0.0	0.2	0.0
2808	63.447	63.265	-0.107	0.0	0.2	0.0
2832	63.447	63.265	-0.107	0.0	0.2	0.0
2856	63.447	63.265	-0.107	0.0	0.2	0.0
2880	63.447	63.266	-0.107	0.0	0.2	0.0
2904	63.447	63.266	-0.107	0.0	0.2	0.0
2928	63.447	63.266	-0.107	0.0	0.2	0.0
2952	63.448	63.266	-0.107	0.0	0.2	0.0
2976	63.448	63.266	-0.107	0.0	0.2	0.0
3000	63.448	63.267	-0.107	0.0	0.2	0.0
3024	63.448	63.267	-0.107	0.0	0.2	0.0
3048	63.448	63.267	-0.106	0.0	0.2	0.0
3072	63.448	63.267	-0.106	0.0	0.2	0.1
3096	63.448	63.268	-0.106	0.0	0.2	0.1
3120	63.448	63.268	-0.106	0.0	0.2	0.1
3144	63.448	63.268	-0.106	0.0	0.2	0.1
3168	63.448	63.268	-0.106	0.0	0.2	0.1
3192	63.448	63.268	-0.106	0.0	0.2	0.1
3216	63.448	63.269	-0.106	0.0	0.2	0.1
3240	63.448	63.269	-0.106	0.0	0.2	0.1
3264	63.448	63.269	-0.106	0.0	0.2	0.1
3288	63.448	63.269	-0.106	0.0	0.2	0.1
3312	63.448	63.270	-0.106	0.0	0.2	0.1
3336	63.449	63.270	-0.106	0.0	0.3	0.1
3360	63.449	63.270	-0.105	0.0	0.3	0.1
3384	63.449	63.270	-0.105	0.0	0.3	0.1
3408	63.449	63.271	-0.105	0.0	0.3	0.1
3432	63.449	63.271	-0.105	0.0	0.3	0.1
3456	63.449	63.271	-0.105	0.0	0.3	0.1
3480	63.449	63.271	-0.105	0.0	0.3	0.1
3504	63.449	63.272	-0.105	0.0	0.3	0.1
3528	63.449	63.272	-0.105	0.0	0.3	0.1
3552	63.450	63.272	-0.105	0.0	0.3	0.1
3576	63.450	63.272	-0.105	0.0	0.3	0.1
3600	63.450	63.273	-0.105	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.450	63.273	-0.105	0.0	0.3	0.1
3648	63.450	63.273	-0.104	0.0	0.3	0.1
3672	63.450	63.273	-0.104	0.0	0.3	0.1
3696	63.450	63.274	-0.104	0.0	0.3	0.1
3720	63.450	63.274	-0.104	0.0	0.3	0.1
3744	63.450	63.274	-0.104	0.0	0.3	0.1
3768	63.450	63.275	-0.104	0.0	0.3	0.1
3792	63.450	63.275	-0.104	0.0	0.3	0.1
3816	63.450	63.275	-0.104	0.0	0.3	0.1
3840	63.450	63.276	-0.104	0.0	0.4	0.1
3864	63.451	63.276	-0.103	0.0	0.4	0.1
3888	63.451	63.276	-0.103	0.0	0.4	0.1
3912	63.451	63.277	-0.103	0.0	0.4	0.1
3936	63.451	63.277	-0.103	0.0	0.4	0.1
3960	63.451	63.278	-0.103	0.0	0.4	0.1
3984	63.451	63.278	-0.103	0.0	0.4	0.1
4008	63.451	63.279	-0.103	0.0	0.4	0.1
4032	63.451	63.279	-0.103	0.0	0.4	0.1
4056	63.451	63.280	-0.103	0.0	0.4	0.1
4080	63.451	63.282	-0.103	0.0	0.4	0.1
4104	63.451	63.283	-0.103	0.0	0.4	0.1
4128	63.451	63.285	-0.103	0.0	0.4	0.1
4152	63.452	63.286	-0.102	0.0	0.4	0.1
4176	63.452	63.288	-0.102	0.0	0.4	0.1
4200	63.452	63.289	-0.102	0.0	0.4	0.1
4224	63.452	63.291	-0.102	0.0	0.4	0.1
4248	63.452	63.291	-0.102	0.0	0.4	0.1
4272	63.452	63.293	-0.102	0.0	0.4	0.1
4296	63.452	63.296	-0.102	0.0	0.4	0.1
4320	63.452	63.298	-0.102	0.0	0.4	0.1
4344	63.452	63.300	-0.102	0.0	0.4	0.1
4368	63.453	63.302	-0.102	0.0	0.3	0.1
4392	63.453	63.304	-0.102	0.0	0.3	0.1
4416	63.453	63.306	-0.102	0.0	0.3	0.1
4440	63.453	63.308	-0.102	0.0	0.3	0.1
4464	63.453	63.311	-0.101	0.0	0.3	0.1
4488	63.453	63.312	-0.101	0.0	0.3	0.1
4512	63.453	63.316	-0.101	0.0	0.3	0.1
4536	63.453	63.318	-0.101	0.0	0.3	0.1
4560	63.453	63.320	-0.101	0.0	0.3	0.1
4584	63.453	63.323	-0.101	0.0	0.3	0.1
4608	63.453	63.325	-0.101	0.0	0.3	0.1
4632	63.453	63.327	-0.101	0.0	0.3	0.1
4656	63.453	63.330	-0.101	0.0	0.3	0.1
4680	63.453	63.332	-0.101	0.0	0.3	0.1
4704	63.453	63.335	-0.101	0.0	0.3	0.1
4728	63.453	63.337	-0.101	0.0	0.3	0.1
4752	63.454	63.339	-0.101	0.0	0.3	0.1
4776	63.454	63.342	-0.100	0.0	0.3	0.1
4800	63.454	63.344	-0.100	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.454	63.347	-0.100	0.0	0.3	0.1
4848	63.454	63.350	-0.100	0.0	0.3	0.1
4872	63.454	63.352	-0.100	0.0	0.3	0.1
4896	63.454	63.355	-0.100	0.0	0.3	0.1
4920	63.454	63.357	-0.100	0.0	0.3	0.1
4944	63.454	63.360	-0.100	0.0	0.3	0.1
4968	63.454	63.364	-0.100	0.0	0.3	0.1
4992	63.454	63.369	-0.100	0.0	0.3	0.1
5016	63.454	63.373	-0.100	0.0	0.3	0.1
5040	63.454	63.376	-0.100	0.0	0.3	0.1
5064	63.454	63.379	-0.100	0.0	0.3	0.1
5088	63.454	63.382	-0.100	0.0	0.3	0.1
5112	63.454	63.385	-0.100	0.0	0.3	0.1
5136	63.454	63.388	-0.100	0.0	0.3	0.1
5160	63.454	63.391	-0.100	0.0	0.3	0.1
5184	63.454	63.393	-0.100	0.0	0.3	0.1
5208	63.454	63.396	-0.100	0.0	0.3	0.1
5232	63.454	63.398	-0.100	0.0	0.3	0.1
5256	63.454	63.400	-0.100	0.0	0.3	0.1
5280	63.454	63.402	-0.100	0.0	0.3	0.1
5304	63.454	63.403	-0.100	0.0	0.3	0.1
5328	63.454	63.405	-0.100	0.0	0.3	0.1
5352	63.454	63.406	-0.101	0.0	0.3	0.1
5376	63.453	63.408	-0.101	0.0	0.3	0.1
5400	63.453	63.409	-0.101	0.0	0.3	0.1
5424	63.453	63.410	-0.101	0.0	0.3	0.1
5448	63.453	63.412	-0.101	0.0	0.3	0.1
5472	63.453	63.414	-0.101	0.0	0.3	0.1
5496	63.453	63.416	-0.101	0.0	0.3	0.1
5520	63.453	63.417	-0.101	0.0	0.3	0.1
5544	63.453	63.419	-0.101	0.0	0.3	0.1
5568	63.453	63.421	-0.101	0.0	0.3	0.1
5592	63.453	63.423	-0.101	0.0	0.3	0.1
5616	63.453	63.425	-0.101	0.0	0.3	0.1
5640	63.453	63.427	-0.101	0.0	0.3	0.1
5664	63.453	63.428	-0.102	0.0	0.3	0.1
5688	63.453	63.430	-0.102	0.0	0.3	0.1
5712	63.453	63.431	-0.102	0.0	0.3	0.1
5736	63.453	63.433	-0.102	0.0	0.3	0.1
5760	63.452	63.435	-0.102	0.0	0.3	0.1
5784	63.452	63.436	-0.102	0.0	0.4	0.1
5808	63.452	63.437	-0.102	0.0	0.4	0.1
5832	63.452	63.439	-0.102	0.0	0.4	0.1
5856	63.452	63.440	-0.102	0.0	0.4	0.1
5880	63.452	63.441	-0.102	0.0	0.3	0.1
5904	63.452	63.442	-0.102	0.0	0.3	0.1
5928	63.453	63.443	-0.101	0.0	0.3	0.1
5952	63.453	63.445	-0.101	0.0	0.3	0.1
5976	63.453	63.446	-0.101	0.0	0.3	0.1
6000	63.454	63.446	-0.101	0.0	0.3	0.1

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.454	63.447	-0.100	0.0	0.2	0.1
6048	63.454	63.448	-0.100	0.0	0.2	0.1
6072	63.454	63.449	-0.100	0.0	0.2	0.1
6096	63.455	63.450	-0.099	0.0	0.2	0.1
6120	63.455	63.450	-0.099	0.0	0.2	0.1
6144	63.455	63.451	-0.099	0.0	0.2	0.1
6168	63.455	63.452	-0.099	0.0	0.2	0.1
6192	63.456	63.452	-0.099	0.0	0.2	0.1
6216	63.456	63.453	-0.098	0.0	0.2	0.1
6240	63.456	63.453	-0.098	0.0	0.2	0.1
6264	63.456	63.453	-0.098	0.0	0.2	0.1
6288	63.456	63.454	-0.098	0.0	0.2	0.1
6312	63.456	63.454	-0.098	0.0	0.2	0.1
6336	63.456	63.454	-0.098	0.0	0.1	0.1
6360	63.456	63.454	-0.098	0.0	0.1	0.1
6384	63.456	63.454	-0.098	0.0	0.1	0.1
6408	63.456	63.454	-0.098	0.0	0.1	0.1
6432	63.456	63.454	-0.098	0.0	0.1	0.1
6456	63.456	63.454	-0.098	0.0	0.1	0.1
6480	63.456	63.454	-0.098	0.0	0.1	0.1
6504	63.456	63.454	-0.098	0.0	0.1	0.1
6528	63.456	63.454	-0.098	0.0	0.1	0.1
6552	63.456	63.453	-0.099	0.0	0.1	0.1
6576	63.455	63.453	-0.099	0.0	0.1	0.1
6600	63.455	63.453	-0.099	0.0	0.1	0.1
6624	63.455	63.452	-0.099	0.0	0.1	0.1
6648	63.455	63.452	-0.100	0.0	0.1	0.1
6672	63.454	63.451	-0.100	0.0	0.2	0.1
6696	63.454	63.451	-0.101	0.0	0.2	0.1
6720	63.453	63.450	-0.101	0.0	0.2	0.1
6744	63.453	63.449	-0.101	0.0	0.2	0.1
6768	63.452	63.449	-0.102	0.0	0.2	0.1
6792	63.452	63.448	-0.102	0.0	0.2	0.1
6816	63.451	63.447	-0.103	0.0	0.2	0.1
6840	63.451	63.446	-0.103	0.0	0.2	0.1
6864	63.451	63.445	-0.104	0.0	0.2	0.1
6888	63.450	63.444	-0.104	0.0	0.2	0.1
6912	63.450	63.443	-0.104	0.0	0.2	0.1
6936	63.449	63.442	-0.105	0.0	0.2	0.1
6960	63.449	63.441	-0.105	0.0	0.2	0.1
6984	63.449	63.440	-0.106	0.0	0.2	0.1
7008	63.448	63.439	-0.106	0.0	0.2	0.1
7032	63.448	63.438	-0.106	0.0	0.2	0.1
7056	63.448	63.437	-0.106	0.0	0.2	0.1
7080	63.448	63.436	-0.107	0.0	0.2	0.0
7104	63.448	63.434	-0.107	0.0	0.2	0.0
7128	63.448	63.433	-0.107	0.0	0.2	0.0
7152	63.448	63.432	-0.107	0.0	0.2	0.0
7176	63.447	63.430	-0.107	0.0	0.2	0.0
7200	63.447	63.429	-0.107	0.0	0.2	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.447	63.427	-0.107	0.0	0.2	0.0
7248	63.447	63.426	-0.107	0.0	0.2	0.0
7272	63.447	63.424	-0.107	0.0	0.2	0.0
7296	63.447	63.423	-0.107	0.0	0.2	0.0
7320	63.447	63.421	-0.107	0.0	0.2	0.0
7344	63.447	63.420	-0.107	0.0	0.2	0.0
7368	63.447	63.418	-0.107	0.0	0.2	0.0
7392	63.447	63.416	-0.107	0.0	0.2	0.0
7416	63.447	63.415	-0.107	0.0	0.2	0.0
7440	63.447	63.413	-0.107	0.0	0.2	0.0
7464	63.447	63.411	-0.107	0.0	0.2	0.0
7488	63.447	63.409	-0.107	0.0	0.1	0.0
7512	63.447	63.408	-0.107	0.0	0.1	0.0
7536	63.447	63.406	-0.107	0.0	0.1	0.0
7560	63.447	63.404	-0.107	0.0	0.1	0.0
7584	63.446	63.402	-0.108	0.0	0.1	0.0
7608	63.446	63.400	-0.108	0.0	0.1	0.0
7632	63.446	63.398	-0.108	0.0	0.1	0.0
7656	63.446	63.397	-0.108	0.0	0.1	0.0
7680	63.446	63.395	-0.108	0.0	0.1	0.0
7704	63.446	63.393	-0.108	0.0	0.1	0.0
7728	63.446	63.391	-0.108	0.0	0.1	0.0
7752	63.446	63.389	-0.108	0.0	0.1	0.0
7776	63.446	63.387	-0.108	0.0	0.1	0.0
7800	63.446	63.386	-0.108	0.0	0.1	0.0
7824	63.446	63.384	-0.108	0.0	0.1	0.0
7848	63.446	63.382	-0.108	0.0	0.1	0.0
7872	63.446	63.380	-0.108	0.0	0.1	0.0
7896	63.446	63.379	-0.108	0.0	0.1	0.0
7920	63.446	63.377	-0.108	0.0	0.1	0.0
7944	63.446	63.376	-0.108	0.0	0.1	0.0
7968	63.446	63.375	-0.108	0.0	0.1	0.0
7992	63.446	63.373	-0.108	0.0	0.1	0.0
8016	63.446	63.372	-0.108	0.0	0.1	0.0
8040	63.446	63.371	-0.108	0.0	0.1	0.0
8064	63.446	63.370	-0.108	0.0	0.1	0.0
8088	63.446	63.368	-0.108	0.0	0.1	0.0
8112	63.446	63.366	-0.108	0.0	0.1	0.0
8136	63.446	63.364	-0.108	0.0	0.1	0.0
8160	63.446	63.362	-0.108	0.0	0.1	0.0
8184	63.446	63.360	-0.108	0.0	0.1	0.0
8208	63.446	63.356	-0.108	0.0	0.1	0.0
8232	63.446	63.353	-0.108	0.0	0.1	0.0
8256	63.446	63.351	-0.108	0.0	0.1	0.0
8280	63.446	63.349	-0.108	0.0	0.1	0.0
8304	63.446	63.347	-0.108	0.0	0.1	0.0
8328	63.446	63.344	-0.108	0.0	0.1	0.0
8352	63.446	63.342	-0.108	0.0	0.1	0.0
8376	63.446	63.340	-0.108	0.0	0.1	0.0
8400	63.446	63.338	-0.108	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.446	63.336	-0.108	0.0	0.1	0.0
8448	63.446	63.334	-0.108	0.0	0.1	0.0
8472	63.446	63.332	-0.108	0.0	0.1	0.0
8496	63.446	63.330	-0.108	0.0	0.1	0.0
8520	63.446	63.328	-0.108	0.0	0.1	0.0
8544	63.446	63.326	-0.108	0.0	0.1	0.0
8568	63.446	63.324	-0.108	0.0	0.1	0.0
8592	63.446	63.322	-0.108	0.0	0.1	0.0
8616	63.446	63.320	-0.108	0.0	0.1	0.0
8640	63.446	63.318	-0.108	0.0	0.1	0.0
8664	63.446	63.316	-0.108	0.0	0.1	0.0
8688	63.446	63.314	-0.108	0.0	0.1	0.0
8712	63.446	63.312	-0.108	0.0	0.1	0.0
8736	63.446	63.310	-0.108	0.0	0.1	0.0
8760	63.446	63.307	-0.108	0.0	0.1	0.0
8784	63.446	63.305	-0.108	0.0	0.1	0.0
8808	63.446	63.303	-0.108	0.0	0.1	0.0
8832	63.446	63.301	-0.108	0.0	0.1	0.0
8856	63.446	63.299	-0.108	0.0	0.1	0.0
8880	63.446	63.297	-0.108	0.0	0.1	0.0
8904	63.446	63.294	-0.108	0.0	0.1	0.0
8928	63.446	63.292	-0.108	0.0	0.1	0.0
8952	63.446	63.290	-0.108	0.0	0.1	0.0
8976	63.446	63.289	-0.108	0.0	0.1	0.0
9000	63.446	63.287	-0.108	0.0	0.1	0.0
9024	63.446	63.284	-0.108	0.0	0.1	0.0
9048	63.446	63.282	-0.108	0.0	0.1	0.0
9072	63.446	63.280	-0.108	0.0	0.1	0.0
9096	63.446	63.278	-0.108	0.0	0.1	0.0
9120	63.446	63.276	-0.108	0.0	0.1	0.0
9144	63.446	63.274	-0.108	0.0	0.1	0.0
9168	63.446	63.272	-0.108	0.0	0.1	0.0
9192	63.446	63.270	-0.108	0.0	0.1	0.0
9216	63.446	63.269	-0.108	0.0	0.1	0.0
9240	63.446	63.267	-0.108	0.0	0.1	0.0
9264	63.446	63.266	-0.108	0.0	0.1	0.0
9288	63.446	63.265	-0.108	0.0	0.1	0.0
9312	63.446	63.265	-0.108	0.0	0.1	0.0
9336	63.446	63.264	-0.108	0.0	0.1	0.0
9360	63.446	63.264	-0.108	0.0	0.1	0.0
9384	63.446	63.263	-0.108	0.0	0.1	0.0
9408	63.446	63.263	-0.108	0.0	0.1	0.0
9432	63.446	63.263	-0.108	0.0	0.1	0.0
9456	63.446	63.262	-0.108	0.0	0.1	0.0
9480	63.446	63.262	-0.108	0.0	0.1	0.0
9504	63.446	63.262	-0.109	0.0	0.1	0.0
9528	63.446	63.262	-0.109	0.0	0.1	0.0
9552	63.446	63.261	-0.109	0.0	0.1	0.0
9576	63.446	63.261	-0.109	0.0	0.1	0.0
9600	63.445	63.261	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.445	63.261	-0.109	0.0	0.1	0.0
9648	63.445	63.261	-0.109	0.0	0.1	0.0
9672	63.445	63.260	-0.109	0.0	0.1	0.0
9696	63.445	63.260	-0.109	0.0	0.1	0.0
9720	63.445	63.260	-0.109	0.0	0.1	0.0
9744	63.445	63.260	-0.109	0.0	0.1	0.0
9768	63.445	63.260	-0.109	0.0	0.1	0.0
9792	63.445	63.259	-0.109	0.0	0.1	0.0
9816	63.445	63.259	-0.109	0.0	0.0	0.0
9840	63.445	63.259	-0.109	0.0	0.0	0.0
9864	63.445	63.259	-0.109	0.0	0.0	0.0
9888	63.445	63.258	-0.109	0.0	0.0	0.0
9912	63.445	63.258	-0.110	0.0	0.0	0.0
9936	63.445	63.258	-0.110	0.0	0.0	0.0
9960	63.445	63.258	-0.110	0.0	0.0	0.0
9984	63.445	63.258	-0.110	0.0	0.0	0.0
10008	63.444	63.257	-0.110	0.0	0.0	0.0
10032	63.444	63.257	-0.110	0.0	0.0	0.0
10056	63.444	63.257	-0.110	0.0	0.0	0.0
10080	63.444	63.256	-0.110	0.0	0.0	0.0
10104	63.444	63.256	-0.110	0.0	0.0	0.0
10128	63.444	63.256	-0.110	0.0	0.0	0.0
10152	63.444	63.255	-0.110	0.0	0.0	0.0
10176	63.444	63.255	-0.110	0.0	0.0	0.0
10200	63.444	63.255	-0.110	0.0	0.0	0.0
10224	63.444	63.255	-0.110	0.0	0.0	0.0
10248	63.444	63.254	-0.110	0.0	0.0	0.0
10272	63.444	63.254	-0.110	0.0	0.0	0.0
10296	63.444	63.254	-0.110	0.0	0.0	0.0
10320	63.444	63.254	-0.110	0.0	0.0	0.0
10344	63.444	63.254	-0.110	0.0	0.0	0.0
10368	63.444	63.254	-0.110	0.0	0.0	0.0
10392	63.444	63.254	-0.110	0.0	0.0	0.0
10416	63.444	63.253	-0.110	0.0	0.0	0.0
10440	63.444	63.253	-0.110	0.0	0.0	0.0
10464	63.444	63.253	-0.110	0.0	0.0	0.0
10488	63.444	63.253	-0.110	0.0	0.0	0.0
10512	63.444	63.253	-0.110	0.0	0.0	0.0
10536	63.444	63.253	-0.110	0.0	0.0	0.0
10560	63.444	63.253	-0.110	0.0	0.0	0.0
10584	63.444	63.253	-0.110	0.0	0.0	0.0
10608	63.444	63.253	-0.110	0.0	0.0	0.0
10632	63.444	63.253	-0.110	0.0	0.0	0.0
10656	63.444	63.253	-0.110	0.0	0.0	0.0
10680	63.444	63.253	-0.110	0.0	0.0	0.0
10704	63.444	63.252	-0.110	0.0	0.0	0.0
10728	63.444	63.252	-0.110	0.0	0.0	0.0
10752	63.444	63.252	-0.110	0.0	0.0	0.0
10776	63.444	63.252	-0.110	0.0	0.0	0.0
10800	63.444	63.252	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.444	63.252	-0.110	0.0	0.0	0.0
10848	63.444	63.252	-0.110	0.0	0.0	0.0
10872	63.444	63.252	-0.110	0.0	0.0	0.0
10896	63.444	63.252	-0.110	0.0	0.0	0.0
10920	63.444	63.252	-0.110	0.0	0.0	0.0
10944	63.444	63.252	-0.110	0.0	0.0	0.0
10968	63.444	63.252	-0.110	0.0	0.0	0.0
10992	63.444	63.252	-0.110	0.0	0.0	0.0
11016	63.444	63.252	-0.110	0.0	0.0	0.0
11040	63.444	63.252	-0.110	0.0	0.0	0.0
11064	63.444	63.252	-0.110	0.0	0.0	0.0
11088	63.444	63.252	-0.110	0.0	0.0	0.0
11112	63.444	63.252	-0.110	0.0	0.0	0.0
11136	63.444	63.252	-0.110	0.0	0.0	0.0
11160	63.444	63.252	-0.110	0.0	0.0	0.0
11184	63.444	63.252	-0.110	0.0	0.0	0.0
11208	63.444	63.252	-0.110	0.0	0.0	0.0
11232	63.444	63.252	-0.110	0.0	0.0	0.0
11256	63.444	63.252	-0.110	0.0	0.0	0.0
11280	63.444	63.252	-0.110	0.0	0.0	0.0
11304	63.444	63.251	-0.110	0.0	0.0	0.0
11328	63.444	63.251	-0.110	0.0	0.0	0.0
11352	63.444	63.251	-0.110	0.0	0.0	0.0
11376	63.444	63.251	-0.110	0.0	0.0	0.0
11400	63.444	63.251	-0.110	0.0	0.0	0.0
11424	63.444	63.251	-0.110	0.0	0.0	0.0
11448	63.444	63.251	-0.110	0.0	0.0	0.0
11472	63.444	63.251	-0.110	0.0	0.0	0.0
11496	63.444	63.251	-0.110	0.0	0.0	0.0
11520	63.444	63.251	-0.110	0.0	0.0	0.0
11544	63.444	63.251	-0.110	0.0	0.0	0.0
11568	63.444	63.251	-0.110	0.0	0.0	0.0
11592	63.444	63.251	-0.110	0.0	0.0	0.0
11616	63.444	63.251	-0.110	0.0	0.0	0.0
11640	63.444	63.251	-0.110	0.0	0.0	0.0
11664	63.444	63.251	-0.110	0.0	0.0	0.0
11688	63.444	63.251	-0.110	0.0	0.0	0.0
11712	63.444	63.251	-0.110	0.0	0.0	0.0
11736	63.444	63.251	-0.110	0.0	0.0	0.0
11760	63.444	63.251	-0.110	0.0	0.0	0.0
11784	63.444	63.251	-0.110	0.0	0.0	0.0
11808	63.444	63.251	-0.110	0.0	0.0	0.0
11832	63.444	63.251	-0.110	0.0	0.0	0.0
11856	63.444	63.251	-0.110	0.0	0.0	0.0
11880	63.444	63.251	-0.110	0.0	0.0	0.0
11904	63.444	63.251	-0.110	0.0	0.0	0.0
11928	63.444	63.251	-0.110	0.0	0.0	0.0
11952	63.444	63.251	-0.110	0.0	0.0	0.0
11976	63.444	63.251	-0.110	0.0	0.0	0.0
12000	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.444	63.251	-0.110	0.0	0.0	0.0
12048	63.444	63.251	-0.110	0.0	0.0	0.0
12072	63.444	63.251	-0.110	0.0	0.0	0.0
12096	63.444	63.251	-0.110	0.0	0.0	0.0
12120	63.444	63.251	-0.110	0.0	0.0	0.0
12144	63.444	63.251	-0.110	0.0	0.0	0.0
12168	63.444	63.251	-0.110	0.0	0.0	0.0
12192	63.444	63.251	-0.110	0.0	0.0	0.0
12216	63.444	63.251	-0.110	0.0	0.0	0.0
12240	63.444	63.251	-0.110	0.0	0.0	0.0
12264	63.444	63.251	-0.110	0.0	0.0	0.0
12288	63.444	63.251	-0.110	0.0	0.0	0.0
12312	63.444	63.251	-0.110	0.0	0.0	0.0
12336	63.444	63.251	-0.110	0.0	0.0	0.0
12360	63.444	63.251	-0.110	0.0	0.0	0.0
12384	63.444	63.251	-0.110	0.0	0.0	0.0
12408	63.444	63.251	-0.110	0.0	0.0	0.0
12432	63.444	63.251	-0.110	0.0	0.0	0.0
12456	63.444	63.251	-0.110	0.0	0.0	0.0
12480	63.444	63.251	-0.110	0.0	0.0	0.0
12504	63.444	63.251	-0.110	0.0	0.0	0.0
12528	63.444	63.251	-0.110	0.0	0.0	0.0
12552	63.444	63.251	-0.110	0.0	0.0	0.0
12576	63.444	63.251	-0.110	0.0	0.0	0.0
12600	63.444	63.251	-0.110	0.0	0.0	0.0
12624	63.444	63.251	-0.110	0.0	0.0	0.0
12648	63.444	63.251	-0.110	0.0	0.0	0.0
12672	63.444	63.251	-0.110	0.0	0.0	0.0
12696	63.444	63.251	-0.110	0.0	0.0	0.0
12720	63.444	63.251	-0.110	0.0	0.0	0.0
12744	63.444	63.251	-0.110	0.0	0.0	0.0
12768	63.444	63.251	-0.110	0.0	0.0	0.0
12792	63.444	63.251	-0.110	0.0	0.0	0.0
12816	63.444	63.251	-0.110	0.0	0.0	0.0
12840	63.444	63.251	-0.110	0.0	0.0	0.0
12864	63.444	63.251	-0.110	0.0	0.0	0.0
12888	63.444	63.251	-0.110	0.0	0.0	0.0
12912	63.444	63.251	-0.110	0.0	0.0	0.0
12936	63.444	63.251	-0.110	0.0	0.0	0.0
12960	63.444	63.251	-0.110	0.0	0.0	0.0
12984	63.444	63.251	-0.110	0.0	0.0	0.0
13008	63.444	63.251	-0.110	0.0	0.0	0.0
13032	63.444	63.251	-0.110	0.0	0.0	0.0
13056	63.444	63.251	-0.110	0.0	0.0	0.0
13080	63.444	63.251	-0.110	0.0	0.0	0.0
13104	63.444	63.251	-0.110	0.0	0.0	0.0
13128	63.444	63.251	-0.110	0.0	0.0	0.0
13152	63.444	63.251	-0.110	0.0	0.0	0.0
13176	63.444	63.251	-0.110	0.0	0.0	0.0
13200	63.444	63.251	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.444	63.251	-0.110	0.0	0.0	0.0
13248	63.444	63.251	-0.110	0.0	0.0	0.0
13272	63.444	63.251	-0.110	0.0	0.0	0.0
13296	63.444	63.251	-0.110	0.0	0.0	0.0
13320	63.444	63.251	-0.110	0.0	0.0	0.0
13344	63.444	63.251	-0.110	0.0	0.0	0.0
13368	63.444	63.251	-0.110	0.0	0.0	0.0
13392	63.444	63.251	-0.110	0.0	0.0	0.0
13416	63.444	63.251	-0.110	0.0	0.0	0.0
13440	63.444	63.251	-0.110	0.0	0.0	0.0
13464	63.444	63.251	-0.110	0.0	0.0	0.0
13488	63.444	63.251	-0.110	0.0	0.0	0.0
13512	63.444	63.251	-0.110	0.0	0.0	0.0
13536	63.444	63.251	-0.110	0.0	0.0	0.0
13560	63.444	63.251	-0.110	0.0	0.0	0.0
13584	63.444	63.251	-0.110	0.0	0.0	0.0
13608	63.444	63.251	-0.110	0.0	0.0	0.0
13632	63.444	63.251	-0.110	0.0	0.0	0.0
13656	63.444	63.251	-0.110	0.0	0.0	0.0
13680	63.444	63.251	-0.110	0.0	0.0	0.0
13704	63.444	63.251	-0.110	0.0	0.0	0.0
13728	63.444	63.251	-0.110	0.0	0.0	0.0
13752	63.444	63.251	-0.110	0.0	0.0	0.0
13776	63.444	63.251	-0.110	0.0	0.0	0.0
13800	63.444	63.251	-0.110	0.0	0.0	0.0
13824	63.444	63.251	-0.110	0.0	0.0	0.0
13848	63.444	63.251	-0.110	0.0	0.0	0.0
13872	63.444	63.251	-0.110	0.0	0.0	0.0
13896	63.444	63.251	-0.110	0.0	0.0	0.0
13920	63.444	63.251	-0.110	0.0	0.0	0.0
13944	63.444	63.251	-0.110	0.0	0.0	0.0
13968	63.444	63.251	-0.110	0.0	0.0	0.0
13992	63.444	63.251	-0.110	0.0	0.0	0.0
14016	63.444	63.251	-0.110	0.0	0.0	0.0
14040	63.444	63.251	-0.110	0.0	0.0	0.0
14064	63.444	63.251	-0.110	0.0	0.0	0.0
14088	63.444	63.251	-0.110	0.0	0.0	0.0
14112	63.444	63.251	-0.110	0.0	0.0	0.0
14136	63.444	63.251	-0.110	0.0	0.0	0.0
14160	63.444	63.251	-0.110	0.0	0.0	0.0
14184	63.444	63.251	-0.110	0.0	0.0	0.0
14208	63.444	63.251	-0.110	0.0	0.0	0.0
14232	63.444	63.251	-0.110	0.0	0.0	0.0
14256	63.444	63.251	-0.110	0.0	0.0	0.0
14280	63.444	63.251	-0.110	0.0	0.0	0.0
14304	63.444	63.251	-0.110	0.0	0.0	0.0
14328	63.444	63.251	-0.110	0.0	0.0	0.0
14352	63.444	63.250	-0.110	0.0	0.0	0.0
14376	63.444	63.250	-0.110	0.0	0.0	0.0
14400	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.444	63.250	-0.110	0.0	0.0	0.0
14448	63.444	63.250	-0.110	0.0	0.0	0.0
14472	63.444	63.250	-0.110	0.0	0.0	0.0
14496	63.444	63.250	-0.110	0.0	0.0	0.0
14520	63.444	63.250	-0.110	0.0	0.0	0.0
14544	63.444	63.250	-0.110	0.0	0.0	0.0
14568	63.444	63.250	-0.110	0.0	0.0	0.0
14592	63.444	63.250	-0.110	0.0	0.0	0.0
14616	63.444	63.250	-0.110	0.0	0.0	0.0
14640	63.444	63.250	-0.110	0.0	0.0	0.0
14664	63.444	63.250	-0.110	0.0	0.0	0.0
14688	63.444	63.250	-0.110	0.0	0.0	0.0
14712	63.444	63.250	-0.110	0.0	0.0	0.0
14736	63.444	63.250	-0.110	0.0	0.0	0.0
14760	63.444	63.250	-0.110	0.0	0.0	0.0
14784	63.444	63.250	-0.110	0.0	0.0	0.0
14808	63.444	63.250	-0.110	0.0	0.0	0.0
14832	63.444	63.250	-0.110	0.0	0.0	0.0
14856	63.444	63.250	-0.110	0.0	0.0	0.0
14880	63.444	63.250	-0.110	0.0	0.0	0.0
14904	63.444	63.250	-0.110	0.0	0.0	0.0
14928	63.444	63.250	-0.110	0.0	0.0	0.0
14952	63.444	63.250	-0.110	0.0	0.0	0.0
14976	63.444	63.250	-0.110	0.0	0.0	0.0
15000	63.444	63.250	-0.110	0.0	0.0	0.0
15024	63.444	63.250	-0.110	0.0	0.0	0.0
15048	63.444	63.250	-0.110	0.0	0.0	0.0
15072	63.444	63.250	-0.110	0.0	0.0	0.0
15096	63.444	63.250	-0.110	0.0	0.0	0.0
15120	63.444	63.250	-0.110	0.0	0.0	0.0
15144	63.444	63.250	-0.110	0.0	0.0	0.0
15168	63.444	63.250	-0.110	0.0	0.0	0.0
15192	63.444	63.250	-0.110	0.0	0.0	0.0
15216	63.444	63.250	-0.110	0.0	0.0	0.0
15240	63.444	63.250	-0.110	0.0	0.0	0.0
15264	63.444	63.250	-0.110	0.0	0.0	0.0
15288	63.444	63.250	-0.110	0.0	0.0	0.0
15312	63.444	63.250	-0.110	0.0	0.0	0.0
15336	63.444	63.250	-0.110	0.0	0.0	0.0
15360	63.444	63.250	-0.110	0.0	0.0	0.0
15384	63.444	63.250	-0.110	0.0	0.0	0.0
15408	63.444	63.250	-0.110	0.0	0.0	0.0
15432	63.444	63.250	-0.110	0.0	0.0	0.0
15456	63.444	63.250	-0.110	0.0	0.0	0.0
15480	63.444	63.250	-0.110	0.0	0.0	0.0
15504	63.444	63.250	-0.110	0.0	0.0	0.0
15528	63.444	63.250	-0.110	0.0	0.0	0.0
15552	63.444	63.250	-0.110	0.0	0.0	0.0
15576	63.444	63.250	-0.110	0.0	0.0	0.0
15600	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.444	63.250	-0.110	0.0	0.0	0.0
15648	63.444	63.250	-0.110	0.0	0.0	0.0
15672	63.444	63.250	-0.110	0.0	0.0	0.0
15696	63.444	63.250	-0.110	0.0	0.0	0.0
15720	63.444	63.250	-0.110	0.0	0.0	0.0
15744	63.444	63.250	-0.110	0.0	0.0	0.0
15768	63.444	63.250	-0.110	0.0	0.0	0.0
15792	63.444	63.250	-0.110	0.0	0.0	0.0
15816	63.444	63.250	-0.110	0.0	0.0	0.0
15840	63.444	63.250	-0.110	0.0	0.0	0.0
15864	63.444	63.250	-0.110	0.0	0.0	0.0
15888	63.444	63.250	-0.110	0.0	0.0	0.0
15912	63.444	63.250	-0.110	0.0	0.0	0.0
15936	63.444	63.250	-0.110	0.0	0.0	0.0
15960	63.444	63.250	-0.110	0.0	0.0	0.0
15984	63.444	63.250	-0.110	0.0	0.0	0.0
16008	63.444	63.250	-0.110	0.0	0.0	0.0
16032	63.444	63.250	-0.110	0.0	0.0	0.0
16056	63.444	63.250	-0.110	0.0	0.0	0.0
16080	63.444	63.250	-0.110	0.0	0.0	0.0
16104	63.444	63.250	-0.110	0.0	0.0	0.0
16128	63.444	63.250	-0.110	0.0	0.0	0.0
16152	63.444	63.250	-0.110	0.0	0.0	0.0
16176	63.444	63.250	-0.110	0.0	0.0	0.0
16200	63.444	63.250	-0.110	0.0	0.0	0.0
16224	63.444	63.250	-0.110	0.0	0.0	0.0
16248	63.444	63.250	-0.110	0.0	0.0	0.0
16272	63.444	63.250	-0.110	0.0	0.0	0.0
16296	63.444	63.250	-0.110	0.0	0.0	0.0
16320	63.444	63.250	-0.110	0.0	0.0	0.0
16344	63.444	63.250	-0.110	0.0	0.0	0.0
16368	63.444	63.250	-0.110	0.0	0.0	0.0
16392	63.444	63.250	-0.110	0.0	0.0	0.0
16416	63.444	63.250	-0.110	0.0	0.0	0.0
16440	63.444	63.250	-0.110	0.0	0.0	0.0
16464	63.444	63.250	-0.110	0.0	0.0	0.0
16488	63.444	63.250	-0.110	0.0	0.0	0.0
16512	63.444	63.250	-0.110	0.0	0.0	0.0
16536	63.444	63.250	-0.110	0.0	0.0	0.0
16560	63.444	63.250	-0.110	0.0	0.0	0.0
16584	63.444	63.250	-0.110	0.0	0.0	0.0
16608	63.444	63.250	-0.110	0.0	0.0	0.0
16632	63.444	63.250	-0.110	0.0	0.0	0.0
16656	63.444	63.250	-0.110	0.0	0.0	0.0
16680	63.444	63.250	-0.110	0.0	0.0	0.0
16704	63.444	63.250	-0.110	0.0	0.0	0.0
16728	63.444	63.250	-0.110	0.0	0.0	0.0
16752	63.444	63.250	-0.110	0.0	0.0	0.0
16776	63.444	63.250	-0.110	0.0	0.0	0.0
16800	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.444	63.250	-0.110	0.0	0.0	0.0
16848	63.444	63.250	-0.110	0.0	0.0	0.0
16872	63.444	63.250	-0.110	0.0	0.0	0.0
16896	63.444	63.250	-0.110	0.0	0.0	0.0
16920	63.444	63.250	-0.110	0.0	0.0	0.0
16944	63.444	63.250	-0.110	0.0	0.0	0.0
16968	63.444	63.250	-0.110	0.0	0.0	0.0
16992	63.444	63.250	-0.110	0.0	0.0	0.0
17016	63.444	63.250	-0.110	0.0	0.0	0.0
17040	63.444	63.250	-0.110	0.0	0.0	0.0
17064	63.444	63.250	-0.110	0.0	0.0	0.0
17088	63.444	63.250	-0.110	0.0	0.0	0.0
17112	63.444	63.250	-0.110	0.0	0.0	0.0
17136	63.444	63.250	-0.110	0.0	0.0	0.0
17160	63.444	63.250	-0.110	0.0	0.0	0.0
17184	63.444	63.250	-0.110	0.0	0.0	0.0
17208	63.444	63.250	-0.110	0.0	0.0	0.0
17232	63.444	63.250	-0.110	0.0	0.0	0.0
17256	63.444	63.250	-0.110	0.0	0.0	0.0
17280	63.444	63.250	-0.110	0.0	0.0	0.0
17304	63.444	63.250	-0.110	0.0	0.0	0.0
17328	63.444	63.250	-0.110	0.0	0.0	0.0
17352	63.444	63.250	-0.110	0.0	0.0	0.0
17376	63.444	63.250	-0.110	0.0	0.0	0.0
17400	63.444	63.250	-0.110	0.0	0.0	0.0
17424	63.444	63.250	-0.110	0.0	0.0	0.0
17448	63.444	63.250	-0.110	0.0	0.0	0.0
17472	63.444	63.250	-0.110	0.0	0.0	0.0
17496	63.444	63.250	-0.110	0.0	0.0	0.0
17520	63.444	63.250	-0.110	0.0	0.0	0.0
17544	63.444	63.250	-0.110	0.0	0.0	0.0
17568	63.444	63.250	-0.110	0.0	0.0	0.0
17592	63.444	63.250	-0.110	0.0	0.0	0.0
17616	63.444	63.250	-0.110	0.0	0.0	0.0
17640	63.444	63.250	-0.110	0.0	0.0	0.0
17664	63.444	63.250	-0.110	0.0	0.0	0.0
17688	63.444	63.250	-0.110	0.0	0.0	0.0
17712	63.444	63.250	-0.110	0.0	0.0	0.0
17736	63.444	63.250	-0.110	0.0	0.0	0.0
17760	63.444	63.250	-0.110	0.0	0.0	0.0
17784	63.444	63.250	-0.110	0.0	0.0	0.0
17808	63.444	63.250	-0.110	0.0	0.0	0.0
17832	63.444	63.250	-0.110	0.0	0.0	0.0
17856	63.444	63.250	-0.110	0.0	0.0	0.0
17880	63.444	63.250	-0.110	0.0	0.0	0.0
17904	63.444	63.250	-0.110	0.0	0.0	0.0
17928	63.444	63.250	-0.110	0.0	0.0	0.0
17952	63.444	63.250	-0.110	0.0	0.0	0.0
17976	63.444	63.250	-0.110	0.0	0.0	0.0
18000	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.444	63.250	-0.110	0.0	0.0	0.0
18048	63.444	63.250	-0.110	0.0	0.0	0.0
18072	63.444	63.250	-0.110	0.0	0.0	0.0
18096	63.444	63.250	-0.110	0.0	0.0	0.0
18120	63.444	63.250	-0.110	0.0	0.0	0.0
18144	63.444	63.250	-0.110	0.0	0.0	0.0
18168	63.444	63.250	-0.110	0.0	0.0	0.0
18192	63.444	63.250	-0.110	0.0	0.0	0.0
18216	63.444	63.250	-0.110	0.0	0.0	0.0
18240	63.444	63.250	-0.110	0.0	0.0	0.0
18264	63.444	63.250	-0.110	0.0	0.0	0.0
18288	63.444	63.250	-0.110	0.0	0.0	0.0
18312	63.444	63.250	-0.110	0.0	0.0	0.0
18336	63.444	63.250	-0.110	0.0	0.0	0.0
18360	63.444	63.250	-0.110	0.0	0.0	0.0
18384	63.444	63.250	-0.110	0.0	0.0	0.0
18408	63.444	63.250	-0.110	0.0	0.0	0.0
18432	63.444	63.250	-0.110	0.0	0.0	0.0
18456	63.444	63.250	-0.110	0.0	0.0	0.0
18480	63.444	63.250	-0.110	0.0	0.0	0.0
18504	63.444	63.250	-0.110	0.0	0.0	0.0
18528	63.444	63.250	-0.110	0.0	0.0	0.0
18552	63.444	63.250	-0.110	0.0	0.0	0.0
18576	63.444	63.250	-0.110	0.0	0.0	0.0
18600	63.444	63.250	-0.110	0.0	0.0	0.0
18624	63.444	63.250	-0.110	0.0	0.0	0.0
18648	63.444	63.250	-0.110	0.0	0.0	0.0
18672	63.444	63.250	-0.110	0.0	0.0	0.0
18696	63.444	63.250	-0.110	0.0	0.0	0.0
18720	63.444	63.250	-0.110	0.0	0.0	0.0
18744	63.444	63.250	-0.110	0.0	0.0	0.0
18768	63.444	63.250	-0.110	0.0	0.0	0.0
18792	63.444	63.250	-0.110	0.0	0.0	0.0
18816	63.444	63.250	-0.110	0.0	0.0	0.0
18840	63.444	63.250	-0.110	0.0	0.0	0.0
18864	63.444	63.250	-0.110	0.0	0.0	0.0
18888	63.444	63.250	-0.110	0.0	0.0	0.0
18912	63.444	63.250	-0.110	0.0	0.0	0.0
18936	63.444	63.250	-0.110	0.0	0.0	0.0
18960	63.444	63.250	-0.110	0.0	0.0	0.0
18984	63.444	63.250	-0.110	0.0	0.0	0.0
19008	63.444	63.250	-0.110	0.0	0.0	0.0
19032	63.444	63.250	-0.110	0.0	0.0	0.0
19056	63.444	63.250	-0.110	0.0	0.0	0.0
19080	63.444	63.250	-0.110	0.0	0.0	0.0
19104	63.444	63.250	-0.110	0.0	0.0	0.0
19128	63.444	63.250	-0.110	0.0	0.0	0.0
19152	63.444	63.250	-0.110	0.0	0.0	0.0
19176	63.444	63.250	-0.110	0.0	0.0	0.0
19200	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.444	63.250	-0.110	0.0	0.0	0.0
19248	63.444	63.250	-0.110	0.0	0.0	0.0
19272	63.444	63.250	-0.110	0.0	0.0	0.0
19296	63.444	63.250	-0.110	0.0	0.0	0.0
19320	63.444	63.250	-0.110	0.0	0.0	0.0
19344	63.444	63.250	-0.110	0.0	0.0	0.0
19368	63.444	63.250	-0.110	0.0	0.0	0.0
19392	63.444	63.250	-0.110	0.0	0.0	0.0
19416	63.444	63.250	-0.110	0.0	0.0	0.0
19440	63.444	63.250	-0.110	0.0	0.0	0.0
19464	63.444	63.250	-0.110	0.0	0.0	0.0
19488	63.444	63.250	-0.110	0.0	0.0	0.0
19512	63.444	63.250	-0.110	0.0	0.0	0.0
19536	63.444	63.250	-0.110	0.0	0.0	0.0
19560	63.444	63.250	-0.110	0.0	0.0	0.0
19584	63.444	63.250	-0.110	0.0	0.0	0.0
19608	63.444	63.250	-0.110	0.0	0.0	0.0
19632	63.444	63.250	-0.110	0.0	0.0	0.0
19656	63.444	63.250	-0.110	0.0	0.0	0.0
19680	63.444	63.250	-0.110	0.0	0.0	0.0
19704	63.444	63.250	-0.110	0.0	0.0	0.0
19728	63.444	63.250	-0.110	0.0	0.0	0.0
19752	63.444	63.250	-0.110	0.0	0.0	0.0
19776	63.444	63.250	-0.110	0.0	0.0	0.0
19800	63.444	63.250	-0.110	0.0	0.0	0.0
19824	63.444	63.250	-0.110	0.0	0.0	0.0
19848	63.444	63.250	-0.110	0.0	0.0	0.0
19872	63.444	63.250	-0.110	0.0	0.0	0.0
19896	63.444	63.250	-0.110	0.0	0.0	0.0
19920	63.444	63.250	-0.110	0.0	0.0	0.0
19944	63.444	63.250	-0.110	0.0	0.0	0.0
19968	63.444	63.250	-0.110	0.0	0.0	0.0
19992	63.444	63.250	-0.110	0.0	0.0	0.0
20016	63.444	63.250	-0.110	0.0	0.0	0.0
20040	63.444	63.250	-0.110	0.0	0.0	0.0
20064	63.444	63.250	-0.110	0.0	0.0	0.0
20088	63.444	63.250	-0.110	0.0	0.0	0.0
20112	63.444	63.250	-0.110	0.0	0.0	0.0
20136	63.444	63.250	-0.110	0.0	0.0	0.0
20160	63.444	63.250	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.250	63.100	-0.110	0.0	0.0	0.0
48	63.250	63.100	-0.110	0.0	0.0	0.0
72	63.250	63.100	-0.110	0.0	0.0	0.0
96	63.250	63.100	-0.110	0.0	0.0	0.0
120	63.250	63.100	-0.110	0.0	0.0	0.0
144	63.250	63.100	-0.110	0.0	0.0	0.0
168	63.250	63.100	-0.110	0.0	0.0	0.0
192	63.250	63.100	-0.110	0.0	0.0	0.0
216	63.250	63.100	-0.110	0.0	0.0	0.0
240	63.250	63.100	-0.110	0.0	0.0	0.0
264	63.250	63.100	-0.110	0.0	0.0	0.0
288	63.250	63.100	-0.110	0.0	0.0	0.0
312	63.251	63.100	-0.109	0.0	0.0	0.0
336	63.251	63.100	-0.109	0.0	0.0	0.0
360	63.251	63.100	-0.109	0.0	0.0	0.0
384	63.251	63.100	-0.109	0.0	0.0	0.0
408	63.251	63.100	-0.109	0.0	0.0	0.0
432	63.251	63.100	-0.109	0.0	0.0	0.0
456	63.252	63.100	-0.108	0.0	0.0	0.0
480	63.252	63.100	-0.108	0.0	0.0	0.0
504	63.252	63.100	-0.108	0.0	0.0	0.0
528	63.252	63.101	-0.108	0.0	0.0	0.0
552	63.252	63.101	-0.108	0.0	0.0	0.0
576	63.252	63.101	-0.108	0.0	0.0	0.0
600	63.253	63.101	-0.107	0.0	0.0	0.0
624	63.253	63.101	-0.107	0.0	0.0	0.0
648	63.253	63.101	-0.107	0.0	0.0	0.0
672	63.253	63.101	-0.107	0.0	0.0	0.0
696	63.253	63.101	-0.107	0.0	0.0	0.0
720	63.253	63.102	-0.107	0.0	0.0	0.0
744	63.254	63.102	-0.106	0.0	0.0	0.0
768	63.254	63.102	-0.106	0.0	0.0	0.0
792	63.254	63.102	-0.106	0.0	0.0	0.0
816	63.254	63.102	-0.106	0.0	0.0	0.0
840	63.254	63.102	-0.106	0.0	0.0	0.0
864	63.254	63.102	-0.106	0.0	0.0	0.0
888	63.254	63.103	-0.106	0.0	0.0	0.0
912	63.254	63.103	-0.106	0.0	0.0	0.0
936	63.254	63.103	-0.106	0.0	0.0	0.0
960	63.255	63.103	-0.105	0.0	0.0	0.0
984	63.255	63.103	-0.105	0.0	0.0	0.0
1008	63.255	63.103	-0.105	0.0	0.0	0.0
1032	63.255	63.103	-0.105	0.0	0.0	0.0
1056	63.255	63.103	-0.105	0.0	0.0	0.0
1080	63.255	63.103	-0.105	0.0	0.0	0.0
1104	63.255	63.104	-0.105	0.0	0.0	0.0
1128	63.255	63.104	-0.105	0.0	0.0	0.0
1152	63.255	63.104	-0.105	0.0	0.0	0.0
1176	63.255	63.104	-0.105	0.0	0.0	0.0
1200	63.255	63.104	-0.105	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.255	63.104	-0.105	0.0	0.0	0.0
1248	63.255	63.104	-0.105	0.0	0.0	0.0
1272	63.255	63.104	-0.105	0.0	0.0	0.0
1296	63.255	63.104	-0.105	0.0	0.0	0.0
1320	63.255	63.104	-0.105	0.0	0.0	0.0
1344	63.255	63.104	-0.105	0.0	0.0	0.0
1368	63.255	63.104	-0.105	0.0	0.0	0.0
1392	63.255	63.104	-0.105	0.0	0.0	0.0
1416	63.255	63.104	-0.105	0.0	0.0	0.0
1440	63.255	63.104	-0.105	0.0	0.0	0.0
1464	63.255	63.104	-0.105	0.0	0.0	0.0
1488	63.255	63.104	-0.105	0.0	0.0	0.0
1512	63.255	63.104	-0.105	0.0	0.0	0.0
1536	63.255	63.104	-0.105	0.0	0.0	0.0
1560	63.255	63.104	-0.105	0.0	0.0	0.0
1584	63.255	63.104	-0.105	0.0	0.0	0.0
1608	63.255	63.104	-0.105	0.0	0.0	0.0
1632	63.255	63.104	-0.105	0.0	0.0	0.0
1656	63.255	63.105	-0.105	0.0	0.0	0.0
1680	63.255	63.105	-0.105	0.0	0.0	0.0
1704	63.255	63.105	-0.105	0.0	0.0	0.0
1728	63.255	63.105	-0.105	0.0	0.0	0.0
1752	63.256	63.105	-0.104	0.0	0.0	0.0
1776	63.256	63.105	-0.104	0.0	0.0	0.0
1800	63.256	63.105	-0.104	0.0	0.0	0.0
1824	63.256	63.105	-0.104	0.0	0.0	0.0
1848	63.256	63.105	-0.104	0.0	0.0	0.0
1872	63.256	63.105	-0.104	0.0	0.0	0.0
1896	63.256	63.105	-0.104	0.0	0.0	0.0
1920	63.256	63.105	-0.104	0.0	0.0	0.0
1944	63.256	63.105	-0.104	0.0	0.0	0.0
1968	63.256	63.105	-0.104	0.0	0.0	0.0
1992	63.256	63.105	-0.104	0.0	0.0	0.0
2016	63.256	63.105	-0.104	0.0	0.0	0.0
2040	63.256	63.105	-0.104	0.0	0.0	0.0
2064	63.256	63.105	-0.104	0.0	0.0	0.0
2088	63.256	63.105	-0.104	0.0	0.0	0.0
2112	63.256	63.105	-0.104	0.0	0.0	0.0
2136	63.256	63.105	-0.104	0.0	0.0	0.0
2160	63.256	63.105	-0.104	0.0	0.0	0.0
2184	63.256	63.105	-0.104	0.0	0.0	0.0
2208	63.256	63.105	-0.104	0.0	0.0	0.0
2232	63.256	63.105	-0.104	0.0	0.0	0.0
2256	63.257	63.105	-0.103	0.0	0.0	0.0
2280	63.257	63.106	-0.103	0.0	0.0	0.0
2304	63.258	63.107	-0.102	0.0	0.0	0.0
2328	63.258	63.108	-0.102	0.0	0.0	0.0
2352	63.259	63.109	-0.101	0.0	0.1	0.0
2376	63.259	63.110	-0.101	0.0	0.1	0.0
2400	63.259	63.111	-0.101	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.260	63.112	-0.100	0.0	0.1	0.0
2448	63.260	63.113	-0.100	0.0	0.1	0.0
2472	63.260	63.114	-0.100	0.0	0.1	0.0
2496	63.260	63.115	-0.100	0.0	0.1	0.0
2520	63.260	63.115	-0.100	0.0	0.1	0.0
2544	63.261	63.116	-0.099	0.0	0.1	0.0
2568	63.261	63.117	-0.099	0.0	0.1	0.0
2592	63.262	63.117	-0.098	0.0	0.1	0.0
2616	63.262	63.119	-0.098	0.0	0.1	0.0
2640	63.263	63.120	-0.097	0.0	0.1	0.0
2664	63.263	63.120	-0.097	0.0	0.1	0.0
2688	63.263	63.121	-0.097	0.0	0.1	0.0
2712	63.264	63.122	-0.096	0.0	0.1	0.0
2736	63.264	63.123	-0.096	0.0	0.1	0.0
2760	63.264	63.124	-0.096	0.0	0.1	0.0
2784	63.265	63.125	-0.095	0.0	0.1	0.0
2808	63.265	63.126	-0.095	0.0	0.1	0.0
2832	63.265	63.127	-0.095	0.0	0.1	0.0
2856	63.265	63.128	-0.095	0.0	0.2	0.0
2880	63.266	63.129	-0.094	0.0	0.2	0.0
2904	63.266	63.129	-0.094	0.0	0.2	0.0
2928	63.266	63.130	-0.094	0.0	0.2	0.0
2952	63.266	63.131	-0.094	0.0	0.2	0.0
2976	63.266	63.132	-0.094	0.0	0.2	0.0
3000	63.267	63.132	-0.093	0.0	0.2	0.0
3024	63.267	63.133	-0.093	0.0	0.2	0.0
3048	63.267	63.134	-0.093	0.0	0.2	0.0
3072	63.267	63.134	-0.093	0.0	0.2	0.0
3096	63.268	63.135	-0.092	0.0	0.2	0.0
3120	63.268	63.136	-0.092	0.0	0.2	0.0
3144	63.268	63.137	-0.092	0.0	0.2	0.0
3168	63.268	63.137	-0.092	0.0	0.2	0.0
3192	63.268	63.138	-0.092	0.0	0.2	0.1
3216	63.269	63.139	-0.091	0.0	0.2	0.1
3240	63.269	63.139	-0.091	0.0	0.2	0.1
3264	63.269	63.140	-0.091	0.0	0.2	0.1
3288	63.269	63.141	-0.091	0.0	0.2	0.1
3312	63.270	63.142	-0.090	0.0	0.2	0.1
3336	63.270	63.143	-0.090	0.0	0.2	0.1
3360	63.270	63.143	-0.090	0.0	0.2	0.1
3384	63.270	63.144	-0.090	0.0	0.2	0.1
3408	63.271	63.145	-0.089	0.0	0.2	0.1
3432	63.271	63.146	-0.089	0.0	0.2	0.1
3456	63.271	63.147	-0.089	0.0	0.2	0.1
3480	63.271	63.148	-0.089	0.0	0.2	0.1
3504	63.272	63.148	-0.088	0.0	0.2	0.1
3528	63.272	63.149	-0.088	0.0	0.2	0.1
3552	63.272	63.150	-0.088	0.0	0.2	0.1
3576	63.272	63.151	-0.088	0.0	0.2	0.1
3600	63.273	63.153	-0.087	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.273	63.155	-0.087	0.0	0.2	0.1
3648	63.273	63.158	-0.087	0.0	0.2	0.1
3672	63.273	63.161	-0.087	0.0	0.2	0.1
3696	63.274	63.165	-0.086	0.0	0.2	0.1
3720	63.274	63.169	-0.086	0.0	0.3	0.1
3744	63.274	63.174	-0.086	0.0	0.3	0.1
3768	63.275	63.179	-0.085	0.0	0.3	0.1
3792	63.275	63.184	-0.085	0.0	0.3	0.1
3816	63.275	63.190	-0.085	0.0	0.3	0.1
3840	63.276	63.196	-0.084	0.0	0.3	0.1
3864	63.276	63.202	-0.084	0.0	0.3	0.1
3888	63.276	63.208	-0.084	0.0	0.3	0.1
3912	63.277	63.215	-0.083	0.0	0.3	0.1
3936	63.277	63.222	-0.083	0.0	0.3	0.1
3960	63.278	63.228	-0.082	0.0	0.3	0.1
3984	63.278	63.235	-0.082	0.0	0.3	0.1
4008	63.279	63.242	-0.081	0.0	0.3	0.1
4032	63.279	63.249	-0.081	0.0	0.3	0.1
4056	63.280	63.249	-0.080	0.0	0.2	0.1
4080	63.282	63.248	-0.078	0.0	0.2	0.1
4104	63.283	63.250	-0.077	0.0	0.2	0.1
4128	63.285	63.249	-0.075	0.0	0.2	0.1
4152	63.286	63.251	-0.074	0.0	0.2	0.1
4176	63.288	63.248	-0.072	0.0	0.2	0.1
4200	63.289	63.249	-0.071	0.0	0.2	0.1
4224	63.291	63.250	-0.069	0.0	0.2	0.1
4248	63.291	63.250	-0.069	0.0	0.2	0.1
4272	63.293	63.253	-0.067	0.0	0.2	0.1
4296	63.296	63.251	-0.064	0.0	0.2	0.1
4320	63.298	63.252	-0.062	0.0	0.2	0.1
4344	63.300	63.250	-0.060	0.0	0.2	0.1
4368	63.302	63.250	-0.058	0.0	0.2	0.1
4392	63.304	63.251	-0.056	0.0	0.2	0.1
4416	63.306	63.251	-0.054	0.0	0.2	0.1
4440	63.308	63.251	-0.052	0.0	0.2	0.1
4464	63.311	63.252	-0.049	0.0	0.2	0.1
4488	63.312	63.252	-0.048	0.0	0.3	0.1
4512	63.316	63.255	-0.044	0.0	0.2	0.1
4536	63.318	63.253	-0.042	0.0	0.2	0.1
4560	63.320	63.253	-0.040	0.0	0.2	0.1
4584	63.323	63.254	-0.037	0.0	0.2	0.1
4608	63.325	63.255	-0.035	0.0	0.2	0.1
4632	63.327	63.257	-0.033	0.0	0.3	0.1
4656	63.330	63.259	-0.030	0.0	0.3	0.1
4680	63.332	63.261	-0.028	0.0	0.3	0.1
4704	63.335	63.263	-0.025	0.0	0.3	0.1
4728	63.337	63.265	-0.023	0.0	0.3	0.1
4752	63.339	63.267	-0.021	0.0	0.3	0.1
4776	63.342	63.269	-0.018	0.0	0.3	0.1
4800	63.344	63.272	-0.016	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.347	63.274	-0.013	0.0	0.3	0.1
4848	63.350	63.276	-0.010	0.0	0.3	0.1
4872	63.352	63.279	-0.008	0.0	0.3	0.1
4896	63.355	63.281	-0.005	0.0	0.3	0.1
4920	63.357	63.283	-0.003	0.0	0.3	0.1
4944	63.360	63.286	0.000	0.0	0.3	0.1
4968	63.364	63.274	0.004	0.0	0.1	0.0
4992	63.369	63.259	0.009	0.0	0.2	0.0
5016	63.373	63.250	0.013	0.0	0.2	0.1
5040	63.376	63.254	0.016	0.0	0.2	0.1
5064	63.379	63.254	0.019	0.0	0.2	0.1
5088	63.382	63.251	0.022	0.0	0.2	0.1
5112	63.385	63.250	0.025	0.0	0.2	0.1
5136	63.388	63.251	0.028	0.0	0.2	0.1
5160	63.391	63.253	0.031	0.0	0.3	0.1
5184	63.393	63.257	0.033	0.0	0.3	0.1
5208	63.396	63.263	0.036	0.0	0.3	0.1
5232	63.398	63.269	0.038	0.0	0.3	0.1
5256	63.400	63.277	0.040	0.0	0.3	0.1
5280	63.402	63.286	0.042	0.0	0.3	0.1
5304	63.403	63.295	0.043	0.0	0.3	0.1
5328	63.405	63.307	0.045	0.0	0.3	0.1
5352	63.406	63.318	0.046	0.0	0.3	0.1
5376	63.408	63.330	0.048	0.0	0.3	0.1
5400	63.409	63.340	0.049	0.0	0.3	0.1
5424	63.410	63.348	0.050	0.0	0.3	0.1
5448	63.412	63.354	0.052	0.0	0.3	0.1
5472	63.414	63.358	0.054	0.0	0.3	0.1
5496	63.416	63.360	0.056	0.0	0.3	0.1
5520	63.417	63.363	0.057	0.0	0.3	0.1
5544	63.419	63.365	0.059	0.0	0.3	0.1
5568	63.421	63.367	0.061	0.0	0.3	0.1
5592	63.423	63.369	0.063	0.0	0.3	0.1
5616	63.425	63.371	0.065	0.0	0.3	0.1
5640	63.427	63.372	0.067	0.0	0.3	0.1
5664	63.428	63.374	0.068	0.0	0.3	0.1
5688	63.430	63.376	0.070	0.0	0.3	0.1
5712	63.431	63.377	0.071	0.0	0.3	0.1
5736	63.433	63.379	0.073	0.0	0.3	0.1
5760	63.435	63.380	0.075	0.0	0.3	0.1
5784	63.436	63.382	0.076	0.0	0.3	0.1
5808	63.437	63.383	0.077	0.0	0.3	0.1
5832	63.439	63.385	0.079	0.0	0.3	0.1
5856	63.440	63.386	0.080	0.0	0.3	0.1
5880	63.441	63.387	0.081	0.0	0.3	0.1
5904	63.442	63.388	0.082	0.0	0.3	0.1
5928	63.443	63.390	0.083	0.0	0.3	0.1
5952	63.445	63.391	0.085	0.0	0.3	0.1
5976	63.446	63.392	0.086	0.0	0.3	0.1
6000	63.446	63.393	0.086	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.447	63.394	0.087	0.0	0.3	0.1
6048	63.448	63.395	0.088	0.0	0.3	0.1
6072	63.449	63.395	0.089	0.0	0.3	0.1
6096	63.450	63.396	0.090	0.0	0.3	0.1
6120	63.450	63.397	0.090	0.0	0.3	0.1
6144	63.451	63.398	0.091	0.0	0.3	0.1
6168	63.452	63.398	0.092	0.0	0.3	0.1
6192	63.452	63.399	0.092	0.0	0.2	0.1
6216	63.453	63.399	0.093	0.0	0.2	0.1
6240	63.453	63.400	0.093	0.0	0.2	0.1
6264	63.453	63.400	0.093	0.0	0.2	0.1
6288	63.454	63.401	0.094	0.0	0.2	0.1
6312	63.454	63.401	0.094	0.0	0.2	0.1
6336	63.454	63.401	0.094	0.0	0.2	0.1
6360	63.454	63.401	0.094	0.0	0.2	0.1
6384	63.454	63.402	0.094	0.0	0.2	0.1
6408	63.454	63.402	0.094	0.0	0.1	0.1
6432	63.454	63.402	0.094	0.0	0.1	0.1
6456	63.454	63.402	0.094	0.0	0.1	0.1
6480	63.454	63.402	0.094	0.0	0.1	0.1
6504	63.454	63.402	0.094	0.0	0.1	0.1
6528	63.454	63.401	0.094	0.0	0.2	0.1
6552	63.453	63.401	0.093	0.0	0.2	0.1
6576	63.453	63.401	0.093	0.0	0.2	0.1
6600	63.453	63.401	0.093	0.0	0.2	0.1
6624	63.452	63.400	0.092	0.0	0.2	0.1
6648	63.452	63.400	0.092	0.0	0.2	0.1
6672	63.451	63.400	0.091	0.0	0.2	0.1
6696	63.451	63.399	0.091	0.0	0.2	0.1
6720	63.450	63.398	0.090	0.0	0.2	0.1
6744	63.449	63.398	0.089	0.0	0.2	0.1
6768	63.449	63.397	0.089	0.0	0.3	0.1
6792	63.448	63.397	0.088	0.0	0.3	0.1
6816	63.447	63.396	0.087	0.0	0.3	0.1
6840	63.446	63.395	0.086	0.0	0.3	0.1
6864	63.445	63.394	0.085	0.0	0.3	0.1
6888	63.444	63.394	0.084	0.0	0.3	0.1
6912	63.443	63.393	0.083	0.0	0.3	0.1
6936	63.442	63.392	0.082	0.0	0.3	0.1
6960	63.441	63.391	0.081	0.0	0.3	0.1
6984	63.440	63.390	0.080	0.0	0.3	0.1
7008	63.439	63.389	0.079	0.0	0.3	0.1
7032	63.438	63.388	0.078	0.0	0.3	0.1
7056	63.437	63.387	0.077	0.0	0.3	0.1
7080	63.436	63.385	0.076	0.0	0.3	0.1
7104	63.434	63.384	0.074	0.0	0.3	0.1
7128	63.433	63.383	0.073	0.0	0.3	0.1
7152	63.432	63.382	0.072	0.0	0.3	0.1
7176	63.430	63.380	0.070	0.0	0.3	0.1
7200	63.429	63.379	0.069	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.427	63.378	0.067	0.0	0.2	0.1
7248	63.426	63.376	0.066	0.0	0.3	0.1
7272	63.424	63.375	0.064	0.0	0.3	0.1
7296	63.423	63.373	0.063	0.0	0.3	0.1
7320	63.421	63.372	0.061	0.0	0.3	0.1
7344	63.420	63.370	0.060	0.0	0.3	0.1
7368	63.418	63.369	0.058	0.0	0.2	0.1
7392	63.416	63.367	0.056	0.0	0.2	0.1
7416	63.415	63.366	0.055	0.0	0.2	0.1
7440	63.413	63.364	0.053	0.0	0.2	0.1
7464	63.411	63.363	0.051	0.0	0.2	0.1
7488	63.409	63.361	0.049	0.0	0.3	0.1
7512	63.408	63.359	0.048	0.0	0.2	0.1
7536	63.406	63.357	0.046	0.0	0.2	0.1
7560	63.404	63.356	0.044	0.0	0.2	0.1
7584	63.402	63.354	0.042	0.0	0.2	0.1
7608	63.400	63.352	0.040	0.0	0.2	0.1
7632	63.398	63.350	0.038	0.0	0.2	0.1
7656	63.397	63.349	0.037	0.0	0.2	0.1
7680	63.395	63.346	0.035	0.0	0.2	0.1
7704	63.393	63.344	0.033	0.0	0.2	0.1
7728	63.391	63.341	0.031	0.0	0.2	0.1
7752	63.389	63.338	0.029	0.0	0.2	0.1
7776	63.387	63.334	0.027	0.0	0.2	0.1
7800	63.386	63.331	0.026	0.0	0.2	0.1
7824	63.384	63.328	0.024	0.0	0.2	0.1
7848	63.382	63.324	0.022	0.0	0.2	0.1
7872	63.380	63.320	0.020	0.0	0.2	0.1
7896	63.379	63.314	0.019	0.0	0.2	0.1
7920	63.377	63.308	0.017	0.0	0.2	0.1
7944	63.376	63.300	0.016	0.0	0.2	0.1
7968	63.375	63.292	0.015	0.0	0.2	0.1
7992	63.373	63.284	0.013	0.0	0.2	0.1
8016	63.372	63.275	0.012	0.0	0.2	0.1
8040	63.371	63.265	0.011	0.0	0.2	0.0
8064	63.370	63.254	0.010	0.0	0.2	0.0
8088	63.368	63.249	0.008	0.0	0.2	0.1
8112	63.366	63.252	0.006	0.0	0.2	0.1
8136	63.364	63.250	0.004	0.0	0.2	0.1
8160	63.362	63.250	0.002	0.0	0.2	0.1
8184	63.360	63.251	0.000	0.0	0.2	0.1
8208	63.356	63.267	-0.004	0.0	0.3	0.1
8232	63.353	63.274	-0.007	0.0	0.3	0.1
8256	63.351	63.278	-0.009	0.0	0.3	0.1
8280	63.349	63.279	-0.011	0.0	0.3	0.1
8304	63.347	63.279	-0.013	0.0	0.2	0.1
8328	63.344	63.278	-0.016	0.0	0.2	0.1
8352	63.342	63.277	-0.018	0.0	0.2	0.1
8376	63.340	63.276	-0.020	0.0	0.2	0.1
8400	63.338	63.274	-0.022	0.0	0.2	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.336	63.272	-0.024	0.0	0.2	0.1
8448	63.334	63.270	-0.026	0.0	0.2	0.1
8472	63.332	63.269	-0.028	0.0	0.2	0.1
8496	63.330	63.267	-0.030	0.0	0.2	0.1
8520	63.328	63.265	-0.032	0.0	0.2	0.1
8544	63.326	63.263	-0.034	0.0	0.2	0.1
8568	63.324	63.261	-0.036	0.0	0.2	0.1
8592	63.322	63.259	-0.038	0.0	0.2	0.1
8616	63.320	63.258	-0.040	0.0	0.2	0.1
8640	63.318	63.256	-0.042	0.0	0.2	0.1
8664	63.316	63.254	-0.044	0.0	0.2	0.1
8688	63.314	63.252	-0.046	0.0	0.2	0.1
8712	63.312	63.250	-0.048	0.0	0.2	0.1
8736	63.310	63.252	-0.050	0.0	0.2	0.1
8760	63.307	63.254	-0.053	0.0	0.2	0.1
8784	63.305	63.251	-0.055	0.0	0.2	0.1
8808	63.303	63.250	-0.057	0.0	0.2	0.1
8832	63.301	63.250	-0.059	0.0	0.2	0.1
8856	63.299	63.250	-0.061	0.0	0.2	0.1
8880	63.297	63.251	-0.063	0.0	0.2	0.1
8904	63.294	63.250	-0.066	0.0	0.2	0.1
8928	63.292	63.251	-0.068	0.0	0.2	0.1
8952	63.290	63.250	-0.070	0.0	0.2	0.1
8976	63.289	63.249	-0.071	0.0	0.2	0.1
9000	63.287	63.252	-0.073	0.0	0.2	0.1
9024	63.284	63.249	-0.076	0.0	0.2	0.1
9048	63.282	63.251	-0.078	0.0	0.2	0.1
9072	63.280	63.250	-0.080	0.0	0.2	0.1
9096	63.278	63.250	-0.082	0.0	0.2	0.1
9120	63.276	63.250	-0.084	0.0	0.2	0.1
9144	63.274	63.249	-0.086	0.0	0.2	0.1
9168	63.272	63.249	-0.088	0.0	0.2	0.1
9192	63.270	63.246	-0.090	0.0	0.2	0.1
9216	63.269	63.241	-0.091	0.0	0.2	0.1
9240	63.267	63.233	-0.093	0.0	0.2	0.0
9264	63.266	63.224	-0.094	0.0	0.2	0.0
9288	63.265	63.211	-0.095	0.0	0.2	0.0
9312	63.265	63.199	-0.095	0.0	0.2	0.0
9336	63.264	63.186	-0.096	0.0	0.1	0.0
9360	63.264	63.172	-0.096	0.0	0.1	0.0
9384	63.263	63.158	-0.097	0.0	0.1	0.0
9408	63.263	63.144	-0.097	0.0	0.1	0.0
9432	63.263	63.134	-0.097	0.0	0.1	0.0
9456	63.262	63.129	-0.098	0.0	0.1	0.0
9480	63.262	63.126	-0.098	0.0	0.1	0.0
9504	63.262	63.123	-0.098	0.0	0.1	0.0
9528	63.262	63.122	-0.098	0.0	0.1	0.0
9552	63.261	63.121	-0.099	0.0	0.1	0.0
9576	63.261	63.120	-0.099	0.0	0.1	0.0
9600	63.261	63.119	-0.099	0.0	0.1	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.261	63.118	-0.099	0.0	0.1	0.0
9648	63.261	63.118	-0.099	0.0	0.1	0.0
9672	63.260	63.117	-0.100	0.0	0.1	0.0
9696	63.260	63.117	-0.100	0.0	0.1	0.0
9720	63.260	63.116	-0.100	0.0	0.1	0.0
9744	63.260	63.116	-0.100	0.0	0.1	0.0
9768	63.260	63.115	-0.100	0.0	0.1	0.0
9792	63.259	63.115	-0.101	0.0	0.1	0.0
9816	63.259	63.114	-0.101	0.0	0.1	0.0
9840	63.259	63.113	-0.101	0.0	0.1	0.0
9864	63.259	63.113	-0.101	0.0	0.1	0.0
9888	63.258	63.112	-0.102	0.0	0.1	0.0
9912	63.258	63.111	-0.102	0.0	0.1	0.0
9936	63.258	63.111	-0.102	0.0	0.1	0.0
9960	63.258	63.110	-0.102	0.0	0.0	0.0
9984	63.258	63.109	-0.102	0.0	0.0	0.0
10008	63.257	63.109	-0.103	0.0	0.0	0.0
10032	63.257	63.108	-0.103	0.0	0.0	0.0
10056	63.257	63.108	-0.103	0.0	0.0	0.0
10080	63.256	63.107	-0.104	0.0	0.0	0.0
10104	63.256	63.106	-0.104	0.0	0.0	0.0
10128	63.256	63.106	-0.104	0.0	0.0	0.0
10152	63.255	63.105	-0.105	0.0	0.0	0.0
10176	63.255	63.105	-0.105	0.0	0.0	0.0
10200	63.255	63.104	-0.105	0.0	0.0	0.0
10224	63.255	63.104	-0.105	0.0	0.0	0.0
10248	63.254	63.104	-0.106	0.0	0.0	0.0
10272	63.254	63.103	-0.106	0.0	0.0	0.0
10296	63.254	63.103	-0.106	0.0	0.0	0.0
10320	63.254	63.103	-0.106	0.0	0.0	0.0
10344	63.254	63.103	-0.106	0.0	0.0	0.0
10368	63.254	63.102	-0.106	0.0	0.0	0.0
10392	63.254	63.102	-0.106	0.0	0.0	0.0
10416	63.253	63.102	-0.107	0.0	0.0	0.0
10440	63.253	63.102	-0.107	0.0	0.0	0.0
10464	63.253	63.102	-0.107	0.0	0.0	0.0
10488	63.253	63.102	-0.107	0.0	0.0	0.0
10512	63.253	63.102	-0.107	0.0	0.0	0.0
10536	63.253	63.102	-0.107	0.0	0.0	0.0
10560	63.253	63.101	-0.107	0.0	0.0	0.0
10584	63.253	63.101	-0.107	0.0	0.0	0.0
10608	63.253	63.101	-0.107	0.0	0.0	0.0
10632	63.253	63.101	-0.107	0.0	0.0	0.0
10656	63.253	63.101	-0.107	0.0	0.0	0.0
10680	63.253	63.101	-0.107	0.0	0.0	0.0
10704	63.252	63.101	-0.108	0.0	0.0	0.0
10728	63.252	63.101	-0.108	0.0	0.0	0.0
10752	63.252	63.101	-0.108	0.0	0.0	0.0
10776	63.252	63.101	-0.108	0.0	0.0	0.0
10800	63.252	63.101	-0.108	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.252	63.101	-0.108	0.0	0.0	0.0
10848	63.252	63.101	-0.108	0.0	0.0	0.0
10872	63.252	63.101	-0.108	0.0	0.0	0.0
10896	63.252	63.101	-0.108	0.0	0.0	0.0
10920	63.252	63.101	-0.108	0.0	0.0	0.0
10944	63.252	63.101	-0.108	0.0	0.0	0.0
10968	63.252	63.101	-0.108	0.0	0.0	0.0
10992	63.252	63.101	-0.108	0.0	0.0	0.0
11016	63.252	63.101	-0.108	0.0	0.0	0.0
11040	63.252	63.101	-0.108	0.0	0.0	0.0
11064	63.252	63.101	-0.108	0.0	0.0	0.0
11088	63.252	63.101	-0.108	0.0	0.0	0.0
11112	63.252	63.101	-0.108	0.0	0.0	0.0
11136	63.252	63.101	-0.108	0.0	0.0	0.0
11160	63.252	63.101	-0.108	0.0	0.0	0.0
11184	63.252	63.101	-0.108	0.0	0.0	0.0
11208	63.252	63.101	-0.108	0.0	0.0	0.0
11232	63.252	63.100	-0.108	0.0	0.0	0.0
11256	63.252	63.100	-0.108	0.0	0.0	0.0
11280	63.252	63.100	-0.108	0.0	0.0	0.0
11304	63.251	63.100	-0.109	0.0	0.0	0.0
11328	63.251	63.100	-0.109	0.0	0.0	0.0
11352	63.251	63.100	-0.109	0.0	0.0	0.0
11376	63.251	63.100	-0.109	0.0	0.0	0.0
11400	63.251	63.100	-0.109	0.0	0.0	0.0
11424	63.251	63.100	-0.109	0.0	0.0	0.0
11448	63.251	63.100	-0.109	0.0	0.0	0.0
11472	63.251	63.100	-0.109	0.0	0.0	0.0
11496	63.251	63.100	-0.109	0.0	0.0	0.0
11520	63.251	63.100	-0.109	0.0	0.0	0.0
11544	63.251	63.100	-0.109	0.0	0.0	0.0
11568	63.251	63.100	-0.109	0.0	0.0	0.0
11592	63.251	63.100	-0.109	0.0	0.0	0.0
11616	63.251	63.100	-0.109	0.0	0.0	0.0
11640	63.251	63.100	-0.109	0.0	0.0	0.0
11664	63.251	63.100	-0.109	0.0	0.0	0.0
11688	63.251	63.100	-0.109	0.0	0.0	0.0
11712	63.251	63.100	-0.109	0.0	0.0	0.0
11736	63.251	63.100	-0.109	0.0	0.0	0.0
11760	63.251	63.100	-0.109	0.0	0.0	0.0
11784	63.251	63.100	-0.109	0.0	0.0	0.0
11808	63.251	63.100	-0.109	0.0	0.0	0.0
11832	63.251	63.100	-0.109	0.0	0.0	0.0
11856	63.251	63.100	-0.109	0.0	0.0	0.0
11880	63.251	63.100	-0.109	0.0	0.0	0.0
11904	63.251	63.100	-0.109	0.0	0.0	0.0
11928	63.251	63.100	-0.109	0.0	0.0	0.0
11952	63.251	63.100	-0.109	0.0	0.0	0.0
11976	63.251	63.100	-0.109	0.0	0.0	0.0
12000	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.251	63.100	-0.109	0.0	0.0	0.0
12048	63.251	63.100	-0.109	0.0	0.0	0.0
12072	63.251	63.100	-0.109	0.0	0.0	0.0
12096	63.251	63.100	-0.109	0.0	0.0	0.0
12120	63.251	63.100	-0.109	0.0	0.0	0.0
12144	63.251	63.100	-0.109	0.0	0.0	0.0
12168	63.251	63.100	-0.109	0.0	0.0	0.0
12192	63.251	63.100	-0.109	0.0	0.0	0.0
12216	63.251	63.100	-0.109	0.0	0.0	0.0
12240	63.251	63.100	-0.109	0.0	0.0	0.0
12264	63.251	63.100	-0.109	0.0	0.0	0.0
12288	63.251	63.100	-0.109	0.0	0.0	0.0
12312	63.251	63.100	-0.109	0.0	0.0	0.0
12336	63.251	63.100	-0.109	0.0	0.0	0.0
12360	63.251	63.100	-0.109	0.0	0.0	0.0
12384	63.251	63.100	-0.109	0.0	0.0	0.0
12408	63.251	63.100	-0.109	0.0	0.0	0.0
12432	63.251	63.100	-0.109	0.0	0.0	0.0
12456	63.251	63.100	-0.109	0.0	0.0	0.0
12480	63.251	63.100	-0.109	0.0	0.0	0.0
12504	63.251	63.100	-0.109	0.0	0.0	0.0
12528	63.251	63.100	-0.109	0.0	0.0	0.0
12552	63.251	63.100	-0.109	0.0	0.0	0.0
12576	63.251	63.100	-0.109	0.0	0.0	0.0
12600	63.251	63.100	-0.109	0.0	0.0	0.0
12624	63.251	63.100	-0.109	0.0	0.0	0.0
12648	63.251	63.100	-0.109	0.0	0.0	0.0
12672	63.251	63.100	-0.109	0.0	0.0	0.0
12696	63.251	63.100	-0.109	0.0	0.0	0.0
12720	63.251	63.100	-0.109	0.0	0.0	0.0
12744	63.251	63.100	-0.109	0.0	0.0	0.0
12768	63.251	63.100	-0.109	0.0	0.0	0.0
12792	63.251	63.100	-0.109	0.0	0.0	0.0
12816	63.251	63.100	-0.109	0.0	0.0	0.0
12840	63.251	63.100	-0.109	0.0	0.0	0.0
12864	63.251	63.100	-0.109	0.0	0.0	0.0
12888	63.251	63.100	-0.109	0.0	0.0	0.0
12912	63.251	63.100	-0.109	0.0	0.0	0.0
12936	63.251	63.100	-0.109	0.0	0.0	0.0
12960	63.251	63.100	-0.109	0.0	0.0	0.0
12984	63.251	63.100	-0.109	0.0	0.0	0.0
13008	63.251	63.100	-0.109	0.0	0.0	0.0
13032	63.251	63.100	-0.109	0.0	0.0	0.0
13056	63.251	63.100	-0.109	0.0	0.0	0.0
13080	63.251	63.100	-0.109	0.0	0.0	0.0
13104	63.251	63.100	-0.109	0.0	0.0	0.0
13128	63.251	63.100	-0.109	0.0	0.0	0.0
13152	63.251	63.100	-0.109	0.0	0.0	0.0
13176	63.251	63.100	-0.109	0.0	0.0	0.0
13200	63.251	63.100	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.251	63.100	-0.109	0.0	0.0	0.0
13248	63.251	63.100	-0.109	0.0	0.0	0.0
13272	63.251	63.100	-0.109	0.0	0.0	0.0
13296	63.251	63.100	-0.109	0.0	0.0	0.0
13320	63.251	63.100	-0.109	0.0	0.0	0.0
13344	63.251	63.100	-0.109	0.0	0.0	0.0
13368	63.251	63.100	-0.109	0.0	0.0	0.0
13392	63.251	63.100	-0.109	0.0	0.0	0.0
13416	63.251	63.100	-0.109	0.0	0.0	0.0
13440	63.251	63.100	-0.109	0.0	0.0	0.0
13464	63.251	63.100	-0.109	0.0	0.0	0.0
13488	63.251	63.100	-0.109	0.0	0.0	0.0
13512	63.251	63.100	-0.109	0.0	0.0	0.0
13536	63.251	63.100	-0.109	0.0	0.0	0.0
13560	63.251	63.100	-0.109	0.0	0.0	0.0
13584	63.251	63.100	-0.109	0.0	0.0	0.0
13608	63.251	63.100	-0.109	0.0	0.0	0.0
13632	63.251	63.100	-0.109	0.0	0.0	0.0
13656	63.251	63.100	-0.109	0.0	0.0	0.0
13680	63.251	63.100	-0.109	0.0	0.0	0.0
13704	63.251	63.100	-0.109	0.0	0.0	0.0
13728	63.251	63.100	-0.109	0.0	0.0	0.0
13752	63.251	63.100	-0.109	0.0	0.0	0.0
13776	63.251	63.100	-0.109	0.0	0.0	0.0
13800	63.251	63.100	-0.109	0.0	0.0	0.0
13824	63.251	63.100	-0.109	0.0	0.0	0.0
13848	63.251	63.100	-0.109	0.0	0.0	0.0
13872	63.251	63.100	-0.109	0.0	0.0	0.0
13896	63.251	63.100	-0.109	0.0	0.0	0.0
13920	63.251	63.100	-0.109	0.0	0.0	0.0
13944	63.251	63.100	-0.109	0.0	0.0	0.0
13968	63.251	63.100	-0.109	0.0	0.0	0.0
13992	63.251	63.100	-0.109	0.0	0.0	0.0
14016	63.251	63.100	-0.109	0.0	0.0	0.0
14040	63.251	63.100	-0.109	0.0	0.0	0.0
14064	63.251	63.100	-0.109	0.0	0.0	0.0
14088	63.251	63.100	-0.109	0.0	0.0	0.0
14112	63.251	63.100	-0.109	0.0	0.0	0.0
14136	63.251	63.100	-0.109	0.0	0.0	0.0
14160	63.251	63.100	-0.109	0.0	0.0	0.0
14184	63.251	63.100	-0.109	0.0	0.0	0.0
14208	63.251	63.100	-0.109	0.0	0.0	0.0
14232	63.251	63.100	-0.109	0.0	0.0	0.0
14256	63.251	63.100	-0.109	0.0	0.0	0.0
14280	63.251	63.100	-0.109	0.0	0.0	0.0
14304	63.251	63.100	-0.109	0.0	0.0	0.0
14328	63.251	63.100	-0.109	0.0	0.0	0.0
14352	63.250	63.100	-0.110	0.0	0.0	0.0
14376	63.250	63.100	-0.110	0.0	0.0	0.0
14400	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.250	63.100	-0.110	0.0	0.0	0.0
14448	63.250	63.100	-0.110	0.0	0.0	0.0
14472	63.250	63.100	-0.110	0.0	0.0	0.0
14496	63.250	63.100	-0.110	0.0	0.0	0.0
14520	63.250	63.100	-0.110	0.0	0.0	0.0
14544	63.250	63.100	-0.110	0.0	0.0	0.0
14568	63.250	63.100	-0.110	0.0	0.0	0.0
14592	63.250	63.100	-0.110	0.0	0.0	0.0
14616	63.250	63.100	-0.110	0.0	0.0	0.0
14640	63.250	63.100	-0.110	0.0	0.0	0.0
14664	63.250	63.100	-0.110	0.0	0.0	0.0
14688	63.250	63.100	-0.110	0.0	0.0	0.0
14712	63.250	63.100	-0.110	0.0	0.0	0.0
14736	63.250	63.100	-0.110	0.0	0.0	0.0
14760	63.250	63.100	-0.110	0.0	0.0	0.0
14784	63.250	63.100	-0.110	0.0	0.0	0.0
14808	63.250	63.100	-0.110	0.0	0.0	0.0
14832	63.250	63.100	-0.110	0.0	0.0	0.0
14856	63.250	63.100	-0.110	0.0	0.0	0.0
14880	63.250	63.100	-0.110	0.0	0.0	0.0
14904	63.250	63.100	-0.110	0.0	0.0	0.0
14928	63.250	63.100	-0.110	0.0	0.0	0.0
14952	63.250	63.100	-0.110	0.0	0.0	0.0
14976	63.250	63.100	-0.110	0.0	0.0	0.0
15000	63.250	63.100	-0.110	0.0	0.0	0.0
15024	63.250	63.100	-0.110	0.0	0.0	0.0
15048	63.250	63.100	-0.110	0.0	0.0	0.0
15072	63.250	63.100	-0.110	0.0	0.0	0.0
15096	63.250	63.100	-0.110	0.0	0.0	0.0
15120	63.250	63.100	-0.110	0.0	0.0	0.0
15144	63.250	63.100	-0.110	0.0	0.0	0.0
15168	63.250	63.100	-0.110	0.0	0.0	0.0
15192	63.250	63.100	-0.110	0.0	0.0	0.0
15216	63.250	63.100	-0.110	0.0	0.0	0.0
15240	63.250	63.100	-0.110	0.0	0.0	0.0
15264	63.250	63.100	-0.110	0.0	0.0	0.0
15288	63.250	63.100	-0.110	0.0	0.0	0.0
15312	63.250	63.100	-0.110	0.0	0.0	0.0
15336	63.250	63.100	-0.110	0.0	0.0	0.0
15360	63.250	63.100	-0.110	0.0	0.0	0.0
15384	63.250	63.100	-0.110	0.0	0.0	0.0
15408	63.250	63.100	-0.110	0.0	0.0	0.0
15432	63.250	63.100	-0.110	0.0	0.0	0.0
15456	63.250	63.100	-0.110	0.0	0.0	0.0
15480	63.250	63.100	-0.110	0.0	0.0	0.0
15504	63.250	63.100	-0.110	0.0	0.0	0.0
15528	63.250	63.100	-0.110	0.0	0.0	0.0
15552	63.250	63.100	-0.110	0.0	0.0	0.0
15576	63.250	63.100	-0.110	0.0	0.0	0.0
15600	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.250	63.100	-0.110	0.0	0.0	0.0
15648	63.250	63.100	-0.110	0.0	0.0	0.0
15672	63.250	63.100	-0.110	0.0	0.0	0.0
15696	63.250	63.100	-0.110	0.0	0.0	0.0
15720	63.250	63.100	-0.110	0.0	0.0	0.0
15744	63.250	63.100	-0.110	0.0	0.0	0.0
15768	63.250	63.100	-0.110	0.0	0.0	0.0
15792	63.250	63.100	-0.110	0.0	0.0	0.0
15816	63.250	63.100	-0.110	0.0	0.0	0.0
15840	63.250	63.100	-0.110	0.0	0.0	0.0
15864	63.250	63.100	-0.110	0.0	0.0	0.0
15888	63.250	63.100	-0.110	0.0	0.0	0.0
15912	63.250	63.100	-0.110	0.0	0.0	0.0
15936	63.250	63.100	-0.110	0.0	0.0	0.0
15960	63.250	63.100	-0.110	0.0	0.0	0.0
15984	63.250	63.100	-0.110	0.0	0.0	0.0
16008	63.250	63.100	-0.110	0.0	0.0	0.0
16032	63.250	63.100	-0.110	0.0	0.0	0.0
16056	63.250	63.100	-0.110	0.0	0.0	0.0
16080	63.250	63.100	-0.110	0.0	0.0	0.0
16104	63.250	63.100	-0.110	0.0	0.0	0.0
16128	63.250	63.100	-0.110	0.0	0.0	0.0
16152	63.250	63.100	-0.110	0.0	0.0	0.0
16176	63.250	63.100	-0.110	0.0	0.0	0.0
16200	63.250	63.100	-0.110	0.0	0.0	0.0
16224	63.250	63.100	-0.110	0.0	0.0	0.0
16248	63.250	63.100	-0.110	0.0	0.0	0.0
16272	63.250	63.100	-0.110	0.0	0.0	0.0
16296	63.250	63.100	-0.110	0.0	0.0	0.0
16320	63.250	63.100	-0.110	0.0	0.0	0.0
16344	63.250	63.100	-0.110	0.0	0.0	0.0
16368	63.250	63.100	-0.110	0.0	0.0	0.0
16392	63.250	63.100	-0.110	0.0	0.0	0.0
16416	63.250	63.100	-0.110	0.0	0.0	0.0
16440	63.250	63.100	-0.110	0.0	0.0	0.0
16464	63.250	63.100	-0.110	0.0	0.0	0.0
16488	63.250	63.100	-0.110	0.0	0.0	0.0
16512	63.250	63.100	-0.110	0.0	0.0	0.0
16536	63.250	63.100	-0.110	0.0	0.0	0.0
16560	63.250	63.100	-0.110	0.0	0.0	0.0
16584	63.250	63.100	-0.110	0.0	0.0	0.0
16608	63.250	63.100	-0.110	0.0	0.0	0.0
16632	63.250	63.100	-0.110	0.0	0.0	0.0
16656	63.250	63.100	-0.110	0.0	0.0	0.0
16680	63.250	63.100	-0.110	0.0	0.0	0.0
16704	63.250	63.100	-0.110	0.0	0.0	0.0
16728	63.250	63.100	-0.110	0.0	0.0	0.0
16752	63.250	63.100	-0.110	0.0	0.0	0.0
16776	63.250	63.100	-0.110	0.0	0.0	0.0
16800	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.250	63.100	-0.110	0.0	0.0	0.0
16848	63.250	63.100	-0.110	0.0	0.0	0.0
16872	63.250	63.100	-0.110	0.0	0.0	0.0
16896	63.250	63.100	-0.110	0.0	0.0	0.0
16920	63.250	63.100	-0.110	0.0	0.0	0.0
16944	63.250	63.100	-0.110	0.0	0.0	0.0
16968	63.250	63.100	-0.110	0.0	0.0	0.0
16992	63.250	63.100	-0.110	0.0	0.0	0.0
17016	63.250	63.100	-0.110	0.0	0.0	0.0
17040	63.250	63.100	-0.110	0.0	0.0	0.0
17064	63.250	63.100	-0.110	0.0	0.0	0.0
17088	63.250	63.100	-0.110	0.0	0.0	0.0
17112	63.250	63.100	-0.110	0.0	0.0	0.0
17136	63.250	63.100	-0.110	0.0	0.0	0.0
17160	63.250	63.100	-0.110	0.0	0.0	0.0
17184	63.250	63.100	-0.110	0.0	0.0	0.0
17208	63.250	63.100	-0.110	0.0	0.0	0.0
17232	63.250	63.100	-0.110	0.0	0.0	0.0
17256	63.250	63.100	-0.110	0.0	0.0	0.0
17280	63.250	63.100	-0.110	0.0	0.0	0.0
17304	63.250	63.100	-0.110	0.0	0.0	0.0
17328	63.250	63.100	-0.110	0.0	0.0	0.0
17352	63.250	63.100	-0.110	0.0	0.0	0.0
17376	63.250	63.100	-0.110	0.0	0.0	0.0
17400	63.250	63.100	-0.110	0.0	0.0	0.0
17424	63.250	63.100	-0.110	0.0	0.0	0.0
17448	63.250	63.100	-0.110	0.0	0.0	0.0
17472	63.250	63.100	-0.110	0.0	0.0	0.0
17496	63.250	63.100	-0.110	0.0	0.0	0.0
17520	63.250	63.100	-0.110	0.0	0.0	0.0
17544	63.250	63.100	-0.110	0.0	0.0	0.0
17568	63.250	63.100	-0.110	0.0	0.0	0.0
17592	63.250	63.100	-0.110	0.0	0.0	0.0
17616	63.250	63.100	-0.110	0.0	0.0	0.0
17640	63.250	63.100	-0.110	0.0	0.0	0.0
17664	63.250	63.100	-0.110	0.0	0.0	0.0
17688	63.250	63.100	-0.110	0.0	0.0	0.0
17712	63.250	63.100	-0.110	0.0	0.0	0.0
17736	63.250	63.100	-0.110	0.0	0.0	0.0
17760	63.250	63.100	-0.110	0.0	0.0	0.0
17784	63.250	63.100	-0.110	0.0	0.0	0.0
17808	63.250	63.100	-0.110	0.0	0.0	0.0
17832	63.250	63.100	-0.110	0.0	0.0	0.0
17856	63.250	63.100	-0.110	0.0	0.0	0.0
17880	63.250	63.100	-0.110	0.0	0.0	0.0
17904	63.250	63.100	-0.110	0.0	0.0	0.0
17928	63.250	63.100	-0.110	0.0	0.0	0.0
17952	63.250	63.100	-0.110	0.0	0.0	0.0
17976	63.250	63.100	-0.110	0.0	0.0	0.0
18000	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.250	63.100	-0.110	0.0	0.0	0.0
18048	63.250	63.100	-0.110	0.0	0.0	0.0
18072	63.250	63.100	-0.110	0.0	0.0	0.0
18096	63.250	63.100	-0.110	0.0	0.0	0.0
18120	63.250	63.100	-0.110	0.0	0.0	0.0
18144	63.250	63.100	-0.110	0.0	0.0	0.0
18168	63.250	63.100	-0.110	0.0	0.0	0.0
18192	63.250	63.100	-0.110	0.0	0.0	0.0
18216	63.250	63.100	-0.110	0.0	0.0	0.0
18240	63.250	63.100	-0.110	0.0	0.0	0.0
18264	63.250	63.100	-0.110	0.0	0.0	0.0
18288	63.250	63.100	-0.110	0.0	0.0	0.0
18312	63.250	63.100	-0.110	0.0	0.0	0.0
18336	63.250	63.100	-0.110	0.0	0.0	0.0
18360	63.250	63.100	-0.110	0.0	0.0	0.0
18384	63.250	63.100	-0.110	0.0	0.0	0.0
18408	63.250	63.100	-0.110	0.0	0.0	0.0
18432	63.250	63.100	-0.110	0.0	0.0	0.0
18456	63.250	63.100	-0.110	0.0	0.0	0.0
18480	63.250	63.100	-0.110	0.0	0.0	0.0
18504	63.250	63.100	-0.110	0.0	0.0	0.0
18528	63.250	63.100	-0.110	0.0	0.0	0.0
18552	63.250	63.100	-0.110	0.0	0.0	0.0
18576	63.250	63.100	-0.110	0.0	0.0	0.0
18600	63.250	63.100	-0.110	0.0	0.0	0.0
18624	63.250	63.100	-0.110	0.0	0.0	0.0
18648	63.250	63.100	-0.110	0.0	0.0	0.0
18672	63.250	63.100	-0.110	0.0	0.0	0.0
18696	63.250	63.100	-0.110	0.0	0.0	0.0
18720	63.250	63.100	-0.110	0.0	0.0	0.0
18744	63.250	63.100	-0.110	0.0	0.0	0.0
18768	63.250	63.100	-0.110	0.0	0.0	0.0
18792	63.250	63.100	-0.110	0.0	0.0	0.0
18816	63.250	63.100	-0.110	0.0	0.0	0.0
18840	63.250	63.100	-0.110	0.0	0.0	0.0
18864	63.250	63.100	-0.110	0.0	0.0	0.0
18888	63.250	63.100	-0.110	0.0	0.0	0.0
18912	63.250	63.100	-0.110	0.0	0.0	0.0
18936	63.250	63.100	-0.110	0.0	0.0	0.0
18960	63.250	63.100	-0.110	0.0	0.0	0.0
18984	63.250	63.100	-0.110	0.0	0.0	0.0
19008	63.250	63.100	-0.110	0.0	0.0	0.0
19032	63.250	63.100	-0.110	0.0	0.0	0.0
19056	63.250	63.100	-0.110	0.0	0.0	0.0
19080	63.250	63.100	-0.110	0.0	0.0	0.0
19104	63.250	63.100	-0.110	0.0	0.0	0.0
19128	63.250	63.100	-0.110	0.0	0.0	0.0
19152	63.250	63.100	-0.110	0.0	0.0	0.0
19176	63.250	63.100	-0.110	0.0	0.0	0.0
19200	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.250	63.100	-0.110	0.0	0.0	0.0
19248	63.250	63.100	-0.110	0.0	0.0	0.0
19272	63.250	63.100	-0.110	0.0	0.0	0.0
19296	63.250	63.100	-0.110	0.0	0.0	0.0
19320	63.250	63.100	-0.110	0.0	0.0	0.0
19344	63.250	63.100	-0.110	0.0	0.0	0.0
19368	63.250	63.100	-0.110	0.0	0.0	0.0
19392	63.250	63.100	-0.110	0.0	0.0	0.0
19416	63.250	63.100	-0.110	0.0	0.0	0.0
19440	63.250	63.100	-0.110	0.0	0.0	0.0
19464	63.250	63.100	-0.110	0.0	0.0	0.0
19488	63.250	63.100	-0.110	0.0	0.0	0.0
19512	63.250	63.100	-0.110	0.0	0.0	0.0
19536	63.250	63.100	-0.110	0.0	0.0	0.0
19560	63.250	63.100	-0.110	0.0	0.0	0.0
19584	63.250	63.100	-0.110	0.0	0.0	0.0
19608	63.250	63.100	-0.110	0.0	0.0	0.0
19632	63.250	63.100	-0.110	0.0	0.0	0.0
19656	63.250	63.100	-0.110	0.0	0.0	0.0
19680	63.250	63.100	-0.110	0.0	0.0	0.0
19704	63.250	63.100	-0.110	0.0	0.0	0.0
19728	63.250	63.100	-0.110	0.0	0.0	0.0
19752	63.250	63.100	-0.110	0.0	0.0	0.0
19776	63.250	63.100	-0.110	0.0	0.0	0.0
19800	63.250	63.100	-0.110	0.0	0.0	0.0
19824	63.250	63.100	-0.110	0.0	0.0	0.0
19848	63.250	63.100	-0.110	0.0	0.0	0.0
19872	63.250	63.100	-0.110	0.0	0.0	0.0
19896	63.250	63.100	-0.110	0.0	0.0	0.0
19920	63.250	63.100	-0.110	0.0	0.0	0.0
19944	63.250	63.100	-0.110	0.0	0.0	0.0
19968	63.250	63.100	-0.110	0.0	0.0	0.0
19992	63.250	63.100	-0.110	0.0	0.0	0.0
20016	63.250	63.100	-0.110	0.0	0.0	0.0
20040	63.250	63.100	-0.110	0.0	0.0	0.0
20064	63.250	63.100	-0.110	0.0	0.0	0.0
20088	63.250	63.100	-0.110	0.0	0.0	0.0
20112	63.250	63.100	-0.110	0.0	0.0	0.0
20136	63.250	63.100	-0.110	0.0	0.0	0.0
20160	63.250	63.100	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
24	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.100	63.096	-0.110	0.0	0.0	0.0
72	63.100	63.096	-0.110	0.0	0.0	0.0
96	63.100	63.096	-0.110	0.0	0.0	0.0
120	63.100	63.096	-0.110	0.0	0.0	0.0
144	63.100	63.096	-0.110	0.0	0.0	0.0
168	63.100	63.096	-0.110	0.0	0.0	0.0
192	63.100	63.096	-0.110	0.0	0.0	0.0
216	63.100	63.096	-0.110	0.0	0.0	0.0
240	63.100	63.096	-0.110	0.0	0.0	0.0
264	63.100	63.096	-0.110	0.0	0.0	0.0
288	63.100	63.096	-0.110	0.0	0.0	0.0
312	63.100	63.096	-0.110	0.0	0.0	0.0
336	63.100	63.096	-0.110	0.0	0.0	0.0
360	63.100	63.096	-0.110	0.0	0.0	0.0
384	63.100	63.096	-0.110	0.0	0.0	0.0
408	63.100	63.096	-0.110	0.0	0.0	0.0
432	63.100	63.096	-0.110	0.0	0.0	0.0
456	63.100	63.096	-0.110	0.0	0.0	0.0
480	63.100	63.096	-0.110	0.0	0.0	0.0
504	63.100	63.096	-0.110	0.0	0.0	0.0
528	63.101	63.096	-0.109	0.0	0.0	0.0
552	63.101	63.096	-0.109	0.0	0.0	0.0
576	63.101	63.096	-0.109	0.0	0.0	0.0
600	63.101	63.096	-0.109	0.0	0.0	0.0
624	63.101	63.096	-0.109	0.0	0.0	0.0
648	63.101	63.096	-0.109	0.0	0.0	0.0
672	63.101	63.096	-0.109	0.0	0.0	0.0
696	63.101	63.096	-0.109	0.0	0.0	0.0
720	63.102	63.096	-0.108	0.0	0.0	0.0
744	63.102	63.096	-0.108	0.0	0.0	0.0
768	63.102	63.096	-0.108	0.0	0.0	0.0
792	63.102	63.096	-0.108	0.0	0.0	0.0
816	63.102	63.096	-0.108	0.0	0.0	0.0
840	63.102	63.096	-0.108	0.0	0.0	0.0
864	63.102	63.096	-0.108	0.0	0.0	0.0
888	63.103	63.096	-0.107	0.0	0.0	0.0
912	63.103	63.096	-0.107	0.0	0.0	0.0
936	63.103	63.096	-0.107	0.0	0.0	0.0
960	63.103	63.096	-0.107	0.0	0.0	0.0
984	63.103	63.096	-0.107	0.0	0.0	0.0
1008	63.103	63.096	-0.107	0.0	0.0	0.0
1032	63.103	63.096	-0.107	0.0	0.0	0.0
1056	63.103	63.096	-0.107	0.0	0.0	0.0
1080	63.103	63.096	-0.107	0.0	0.0	0.0
1104	63.104	63.096	-0.106	0.0	0.0	0.0
1128	63.104	63.096	-0.106	0.0	0.0	0.0
1152	63.104	63.096	-0.106	0.0	0.0	0.0
1176	63.104	63.096	-0.106	0.0	0.0	0.0
1200	63.104	63.096	-0.106	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1224	63.104	63.096	-0.106	0.0	0.0	0.0
1248	63.104	63.096	-0.106	0.0	0.0	0.0
1272	63.104	63.096	-0.106	0.0	0.0	0.0
1296	63.104	63.096	-0.106	0.0	0.0	0.0
1320	63.104	63.096	-0.106	0.0	0.0	0.0
1344	63.104	63.096	-0.106	0.0	0.0	0.0
1368	63.104	63.096	-0.106	0.0	0.0	0.0
1392	63.104	63.096	-0.106	0.0	0.0	0.0
1416	63.104	63.096	-0.106	0.0	0.0	0.0
1440	63.104	63.096	-0.106	0.0	0.0	0.0
1464	63.104	63.096	-0.106	0.0	0.0	0.0
1488	63.104	63.096	-0.106	0.0	0.0	0.0
1512	63.104	63.096	-0.106	0.0	0.0	0.0
1536	63.104	63.096	-0.106	0.0	0.0	0.0
1560	63.104	63.096	-0.106	0.0	0.0	0.0
1584	63.104	63.096	-0.106	0.0	0.0	0.0
1608	63.104	63.096	-0.106	0.0	0.0	0.0
1632	63.104	63.096	-0.106	0.0	0.0	0.0
1656	63.105	63.096	-0.105	0.0	0.0	0.0
1680	63.105	63.096	-0.105	0.0	0.0	0.0
1704	63.105	63.096	-0.105	0.0	0.0	0.0
1728	63.105	63.096	-0.105	0.0	0.0	0.0
1752	63.105	63.096	-0.105	0.0	0.0	0.0
1776	63.105	63.096	-0.105	0.0	0.0	0.0
1800	63.105	63.096	-0.105	0.0	0.0	0.0
1824	63.105	63.096	-0.105	0.0	0.0	0.0
1848	63.105	63.096	-0.105	0.0	0.0	0.0
1872	63.105	63.096	-0.105	0.0	0.0	0.0
1896	63.105	63.096	-0.105	0.0	0.0	0.0
1920	63.105	63.096	-0.105	0.0	0.0	0.0
1944	63.105	63.096	-0.105	0.0	0.0	0.0
1968	63.105	63.096	-0.105	0.0	0.0	0.0
1992	63.105	63.096	-0.105	0.0	0.0	0.0
2016	63.105	63.096	-0.105	0.0	0.0	0.0
2040	63.105	63.096	-0.105	0.0	0.0	0.0
2064	63.105	63.096	-0.105	0.0	0.0	0.0
2088	63.105	63.096	-0.105	0.0	0.0	0.0
2112	63.105	63.096	-0.105	0.0	0.0	0.0
2136	63.105	63.096	-0.105	0.0	0.0	0.0
2160	63.105	63.096	-0.105	0.0	0.0	0.0
2184	63.105	63.096	-0.105	0.0	0.0	0.0
2208	63.105	63.096	-0.105	0.0	0.0	0.0
2232	63.105	63.096	-0.105	0.0	0.0	0.0
2256	63.105	63.096	-0.105	0.0	0.0	0.0
2280	63.106	63.096	-0.104	0.0	0.0	0.0
2304	63.107	63.096	-0.103	0.0	0.0	0.0
2328	63.108	63.096	-0.102	0.0	0.0	0.0
2352	63.109	63.096	-0.101	0.0	0.0	0.0
2376	63.110	63.096	-0.100	0.0	0.0	0.0
2400	63.111	63.096	-0.099	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
2424	63.112	63.096	-0.098	0.0	0.0	0.0
2448	63.113	63.096	-0.097	0.0	0.0	0.0
2472	63.114	63.096	-0.096	0.0	0.0	0.0
2496	63.115	63.096	-0.095	0.0	0.0	0.0
2520	63.115	63.096	-0.095	0.0	0.0	0.0
2544	63.116	63.096	-0.094	0.0	0.0	0.0
2568	63.117	63.096	-0.093	0.0	0.0	0.0
2592	63.117	63.096	-0.093	0.0	0.0	0.0
2616	63.119	63.096	-0.091	0.0	0.0	0.0
2640	63.120	63.096	-0.090	0.0	0.0	0.0
2664	63.120	63.096	-0.090	0.0	0.0	0.0
2688	63.121	63.096	-0.089	0.0	0.0	0.0
2712	63.122	63.096	-0.088	0.0	0.0	0.0
2736	63.123	63.096	-0.087	0.0	0.0	0.0
2760	63.124	63.096	-0.086	0.0	0.0	0.0
2784	63.125	63.096	-0.085	0.0	0.0	0.0
2808	63.126	63.096	-0.084	0.0	0.0	0.0
2832	63.127	63.096	-0.083	0.0	0.0	0.0
2856	63.128	63.096	-0.082	0.0	0.0	0.0
2880	63.129	63.096	-0.081	0.0	0.0	0.0
2904	63.129	63.096	-0.081	0.0	0.0	0.0
2928	63.130	63.096	-0.080	0.0	0.0	0.0
2952	63.131	63.096	-0.079	0.0	0.0	0.0
2976	63.132	63.096	-0.078	0.0	0.0	0.0
3000	63.132	63.096	-0.078	0.0	0.0	0.0
3024	63.133	63.096	-0.077	0.0	0.0	0.0
3048	63.134	63.096	-0.076	0.0	0.0	0.0
3072	63.134	63.096	-0.076	0.0	0.0	0.0
3096	63.135	63.096	-0.075	0.0	0.0	0.0
3120	63.136	63.096	-0.074	0.0	0.0	0.0
3144	63.137	63.096	-0.073	0.0	0.0	0.0
3168	63.137	63.096	-0.073	0.0	0.0	0.0
3192	63.138	63.096	-0.072	0.0	0.0	0.0
3216	63.139	63.096	-0.071	0.0	0.0	0.0
3240	63.139	63.096	-0.071	0.0	0.0	0.0
3264	63.140	63.096	-0.070	0.0	0.0	0.0
3288	63.141	63.096	-0.069	0.0	0.0	0.0
3312	63.142	63.096	-0.068	0.0	0.0	0.0
3336	63.143	63.096	-0.067	0.0	0.0	0.0
3360	63.143	63.096	-0.067	0.0	0.0	0.0
3384	63.144	63.096	-0.066	0.0	0.0	0.0
3408	63.145	63.096	-0.065	0.0	0.0	0.0
3432	63.146	63.096	-0.064	0.0	0.0	0.0
3456	63.147	63.096	-0.063	0.0	0.0	0.0
3480	63.148	63.096	-0.062	0.0	0.0	0.0
3504	63.148	63.096	-0.062	0.0	0.0	0.0
3528	63.149	63.096	-0.061	0.0	0.0	0.0
3552	63.150	63.096	-0.060	0.0	0.0	0.0
3576	63.151	63.096	-0.059	0.0	0.0	0.0
3600	63.153	63.096	-0.057	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
3624	63.155	63.096	-0.055	0.0	0.0	0.0
3648	63.158	63.096	-0.052	0.0	0.0	0.0
3672	63.161	63.096	-0.049	0.0	0.0	0.0
3696	63.165	63.096	-0.045	0.0	0.0	0.0
3720	63.169	63.096	-0.041	0.0	0.0	0.0
3744	63.174	63.096	-0.036	0.0	0.0	0.0
3768	63.179	63.096	-0.031	0.0	0.0	0.0
3792	63.184	63.096	-0.026	0.0	0.0	0.0
3816	63.190	63.096	-0.020	0.0	0.0	0.0
3840	63.196	63.096	-0.014	0.0	0.0	0.0
3864	63.202	63.096	-0.008	0.0	0.0	0.0
3888	63.208	63.096	-0.002	0.0	0.0	0.0
3912	63.215	63.096	0.005	0.0	0.0	0.0
3936	63.222	63.096	0.012	0.0	0.0	0.0
3960	63.228	63.096	0.018	0.0	0.0	0.0
3984	63.235	63.096	0.025	0.0	0.0	0.0
4008	63.242	63.096	0.032	0.0	0.0	0.0
4032	63.249	63.096	0.039	0.0	0.0	0.0
4056	63.249	63.096	0.039	0.0	0.0	0.0
4080	63.248	63.096	0.038	0.0	0.0	0.0
4104	63.250	63.096	0.040	0.0	0.0	0.0
4128	63.249	63.096	0.039	0.0	0.0	0.0
4152	63.251	63.096	0.041	0.0	0.0	0.0
4176	63.248	63.096	0.038	0.0	0.0	0.0
4200	63.249	63.096	0.039	0.0	0.0	0.0
4224	63.250	63.096	0.040	0.0	0.0	0.0
4248	63.250	63.096	0.040	0.0	0.0	0.0
4272	63.253	63.096	0.043	0.0	0.0	0.0
4296	63.251	63.096	0.041	0.0	0.0	0.0
4320	63.252	63.096	0.042	0.0	0.0	0.0
4344	63.250	63.096	0.040	0.0	0.0	0.0
4368	63.250	63.096	0.040	0.0	0.0	0.0
4392	63.251	63.096	0.041	0.0	0.0	0.0
4416	63.251	63.096	0.041	0.0	0.0	0.0
4440	63.251	63.096	0.041	0.0	0.0	0.0
4464	63.252	63.096	0.042	0.0	0.0	0.0
4488	63.252	63.096	0.042	0.0	0.0	0.0
4512	63.255	63.096	0.045	0.0	0.0	0.0
4536	63.253	63.096	0.043	0.0	0.0	0.0
4560	63.253	63.096	0.043	0.0	0.0	0.0
4584	63.254	63.096	0.044	0.0	0.0	0.0
4608	63.255	63.096	0.045	0.0	0.0	0.0
4632	63.257	63.096	0.047	0.0	0.0	0.0
4656	63.259	63.096	0.049	0.0	0.0	0.0
4680	63.261	63.096	0.051	0.0	0.0	0.0
4704	63.263	63.096	0.053	0.0	0.0	0.0
4728	63.265	63.096	0.055	0.0	0.0	0.0
4752	63.267	63.096	0.057	0.0	0.0	0.0
4776	63.269	63.096	0.059	0.0	0.0	0.0
4800	63.272	63.096	0.062	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
4824	63.274	63.096	0.064	0.0	0.0	0.0
4848	63.276	63.096	0.066	0.0	0.0	0.0
4872	63.279	63.096	0.069	0.0	0.0	0.0
4896	63.281	63.096	0.071	0.0	0.0	0.0
4920	63.283	63.096	0.073	0.0	0.0	0.0
4944	63.286	63.096	0.076	0.0	0.0	0.0
4968	63.274	63.096	0.064	0.0	0.0	0.0
4992	63.259	63.096	0.049	0.0	0.0	0.0
5016	63.250	63.096	0.040	0.0	0.0	0.0
5040	63.254	63.096	0.044	0.0	0.0	0.0
5064	63.254	63.096	0.044	0.0	0.0	0.0
5088	63.251	63.096	0.041	0.0	0.0	0.0
5112	63.250	63.096	0.040	0.0	0.0	0.0
5136	63.251	63.096	0.041	0.0	0.0	0.0
5160	63.253	63.096	0.043	0.0	0.0	0.0
5184	63.257	63.096	0.047	0.0	0.0	0.0
5208	63.263	63.096	0.053	0.0	0.0	0.0
5232	63.269	63.096	0.059	0.0	0.0	0.0
5256	63.277	63.096	0.067	0.0	0.0	0.0
5280	63.286	63.096	0.076	0.0	0.0	0.0
5304	63.295	63.096	0.085	0.0	0.0	0.0
5328	63.307	63.096	0.097	0.0	0.0	0.0
5352	63.318	63.096	0.108	0.0	0.0	0.0
5376	63.330	63.096	0.120	0.0	0.0	0.0
5400	63.340	63.096	0.130	0.0	0.1	0.0
5424	63.348	63.096	0.138	0.0	0.1	0.0
5448	63.354	63.096	0.144	0.0	0.1	0.0
5472	63.358	63.096	0.148	0.0	0.1	0.0
5496	63.360	63.096	0.150	0.0	0.1	0.0
5520	63.363	63.096	0.153	0.0	0.1	0.0
5544	63.365	63.096	0.155	0.0	0.1	0.0
5568	63.367	63.096	0.157	0.0	0.1	0.0
5592	63.369	63.096	0.159	0.0	0.1	0.0
5616	63.371	63.096	0.161	0.0	0.1	0.0
5640	63.372	63.096	0.162	0.0	0.1	0.0
5664	63.374	63.096	0.164	0.0	0.1	0.0
5688	63.376	63.096	0.166	0.0	0.1	0.0
5712	63.377	63.096	0.167	0.0	0.1	0.0
5736	63.379	63.096	0.169	0.0	0.1	0.0
5760	63.380	63.096	0.170	0.0	0.1	0.0
5784	63.382	63.096	0.172	0.0	0.1	0.0
5808	63.383	63.096	0.173	0.0	0.1	0.0
5832	63.385	63.096	0.175	0.0	0.1	0.0
5856	63.386	63.096	0.176	0.0	0.1	0.0
5880	63.387	63.096	0.177	0.0	0.1	0.0
5904	63.388	63.096	0.178	0.0	0.1	0.0
5928	63.390	63.096	0.180	0.0	0.1	0.0
5952	63.391	63.096	0.181	0.0	0.1	0.0
5976	63.392	63.096	0.182	0.0	0.1	0.0
6000	63.393	63.096	0.183	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
6024	63.394	63.096	0.184	0.0	0.1	0.0
6048	63.395	63.096	0.185	0.0	0.1	0.0
6072	63.395	63.096	0.185	0.0	0.1	0.0
6096	63.396	63.096	0.186	0.0	0.1	0.0
6120	63.397	63.096	0.187	0.0	0.1	0.0
6144	63.398	63.096	0.188	0.0	0.1	0.0
6168	63.398	63.096	0.188	0.0	0.1	0.0
6192	63.399	63.096	0.189	0.0	0.1	0.0
6216	63.399	63.096	0.189	0.0	0.1	0.0
6240	63.400	63.096	0.190	0.0	0.1	0.0
6264	63.400	63.096	0.190	0.0	0.1	0.0
6288	63.401	63.096	0.191	0.0	0.1	0.0
6312	63.401	63.096	0.191	0.0	0.1	0.0
6336	63.401	63.096	0.191	0.0	0.1	0.0
6360	63.401	63.096	0.191	0.0	0.1	0.0
6384	63.402	63.096	0.192	0.0	0.1	0.0
6408	63.402	63.096	0.192	0.0	0.1	0.0
6432	63.402	63.096	0.192	0.0	0.1	0.0
6456	63.402	63.096	0.192	0.0	0.1	0.0
6480	63.402	63.096	0.192	0.0	0.1	0.0
6504	63.402	63.096	0.192	0.0	0.1	0.0
6528	63.401	63.096	0.191	0.0	0.1	0.0
6552	63.401	63.096	0.191	0.0	0.1	0.0
6576	63.401	63.096	0.191	0.0	0.1	0.0
6600	63.401	63.096	0.191	0.0	0.1	0.0
6624	63.400	63.096	0.190	0.0	0.1	0.0
6648	63.400	63.096	0.190	0.0	0.1	0.0
6672	63.400	63.096	0.190	0.0	0.1	0.0
6696	63.399	63.096	0.189	0.0	0.1	0.0
6720	63.398	63.096	0.188	0.0	0.1	0.0
6744	63.398	63.096	0.188	0.0	0.1	0.0
6768	63.397	63.096	0.187	0.0	0.1	0.0
6792	63.397	63.096	0.187	0.0	0.1	0.0
6816	63.396	63.096	0.186	0.0	0.1	0.0
6840	63.395	63.096	0.185	0.0	0.1	0.0
6864	63.394	63.096	0.184	0.0	0.1	0.0
6888	63.394	63.096	0.184	0.0	0.1	0.0
6912	63.393	63.096	0.183	0.0	0.1	0.0
6936	63.392	63.096	0.182	0.0	0.1	0.0
6960	63.391	63.096	0.181	0.0	0.1	0.0
6984	63.390	63.096	0.180	0.0	0.1	0.0
7008	63.389	63.096	0.179	0.0	0.1	0.0
7032	63.388	63.096	0.178	0.0	0.1	0.0
7056	63.387	63.096	0.177	0.0	0.1	0.0
7080	63.385	63.096	0.175	0.0	0.1	0.0
7104	63.384	63.096	0.174	0.0	0.1	0.0
7128	63.383	63.096	0.173	0.0	0.1	0.0
7152	63.382	63.096	0.172	0.0	0.1	0.0
7176	63.380	63.096	0.170	0.0	0.1	0.0
7200	63.379	63.096	0.169	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
7224	63.378	63.096	0.168	0.0	0.1	0.0
7248	63.376	63.096	0.166	0.0	0.1	0.0
7272	63.375	63.096	0.165	0.0	0.1	0.0
7296	63.373	63.096	0.163	0.0	0.1	0.0
7320	63.372	63.096	0.162	0.0	0.1	0.0
7344	63.370	63.096	0.160	0.0	0.1	0.0
7368	63.369	63.096	0.159	0.0	0.1	0.0
7392	63.367	63.096	0.157	0.0	0.1	0.0
7416	63.366	63.096	0.156	0.0	0.1	0.0
7440	63.364	63.096	0.154	0.0	0.1	0.0
7464	63.363	63.096	0.153	0.0	0.1	0.0
7488	63.361	63.096	0.151	0.0	0.1	0.0
7512	63.359	63.096	0.149	0.0	0.1	0.0
7536	63.357	63.096	0.147	0.0	0.1	0.0
7560	63.356	63.096	0.146	0.0	0.1	0.0
7584	63.354	63.096	0.144	0.0	0.1	0.0
7608	63.352	63.096	0.142	0.0	0.1	0.0
7632	63.350	63.096	0.140	0.0	0.1	0.0
7656	63.349	63.096	0.139	0.0	0.1	0.0
7680	63.346	63.096	0.136	0.0	0.1	0.0
7704	63.344	63.096	0.134	0.0	0.1	0.0
7728	63.341	63.096	0.131	0.0	0.1	0.0
7752	63.338	63.096	0.128	0.0	0.1	0.0
7776	63.334	63.096	0.124	0.0	0.1	0.0
7800	63.331	63.096	0.121	0.0	0.1	0.0
7824	63.328	63.096	0.118	0.0	0.1	0.0
7848	63.324	63.096	0.114	0.0	0.0	0.0
7872	63.320	63.096	0.110	0.0	0.0	0.0
7896	63.314	63.096	0.104	0.0	0.0	0.0
7920	63.308	63.096	0.098	0.0	0.0	0.0
7944	63.300	63.096	0.090	0.0	0.0	0.0
7968	63.292	63.096	0.082	0.0	0.0	0.0
7992	63.284	63.096	0.074	0.0	0.0	0.0
8016	63.275	63.096	0.065	0.0	0.0	0.0
8040	63.265	63.096	0.055	0.0	0.0	0.0
8064	63.254	63.096	0.044	0.0	0.0	0.0
8088	63.249	63.096	0.039	0.0	0.0	0.0
8112	63.252	63.096	0.042	0.0	0.0	0.0
8136	63.250	63.096	0.040	0.0	0.0	0.0
8160	63.250	63.096	0.040	0.0	0.0	0.0
8184	63.251	63.096	0.041	0.0	0.0	0.0
8208	63.267	63.096	0.057	0.0	0.0	0.0
8232	63.274	63.096	0.064	0.0	0.0	0.0
8256	63.278	63.096	0.068	0.0	0.0	0.0
8280	63.279	63.096	0.069	0.0	0.0	0.0
8304	63.279	63.096	0.069	0.0	0.0	0.0
8328	63.278	63.096	0.068	0.0	0.0	0.0
8352	63.277	63.096	0.067	0.0	0.0	0.0
8376	63.276	63.096	0.066	0.0	0.0	0.0
8400	63.274	63.096	0.064	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
8424	63.272	63.096	0.062	0.0	0.0	0.0
8448	63.270	63.096	0.060	0.0	0.0	0.0
8472	63.269	63.096	0.059	0.0	0.0	0.0
8496	63.267	63.096	0.057	0.0	0.0	0.0
8520	63.265	63.096	0.055	0.0	0.0	0.0
8544	63.263	63.096	0.053	0.0	0.0	0.0
8568	63.261	63.096	0.051	0.0	0.0	0.0
8592	63.259	63.096	0.049	0.0	0.0	0.0
8616	63.258	63.096	0.048	0.0	0.0	0.0
8640	63.256	63.096	0.046	0.0	0.0	0.0
8664	63.254	63.096	0.044	0.0	0.0	0.0
8688	63.252	63.096	0.042	0.0	0.0	0.0
8712	63.250	63.096	0.040	0.0	0.0	0.0
8736	63.252	63.096	0.042	0.0	0.0	0.0
8760	63.254	63.096	0.044	0.0	0.0	0.0
8784	63.251	63.096	0.041	0.0	0.0	0.0
8808	63.250	63.096	0.040	0.0	0.0	0.0
8832	63.250	63.096	0.040	0.0	0.0	0.0
8856	63.250	63.096	0.040	0.0	0.0	0.0
8880	63.251	63.096	0.041	0.0	0.0	0.0
8904	63.250	63.096	0.040	0.0	0.0	0.0
8928	63.251	63.096	0.041	0.0	0.0	0.0
8952	63.250	63.096	0.040	0.0	0.0	0.0
8976	63.249	63.096	0.039	0.0	0.0	0.0
9000	63.252	63.096	0.042	0.0	0.0	0.0
9024	63.249	63.096	0.039	0.0	0.0	0.0
9048	63.251	63.096	0.041	0.0	0.0	0.0
9072	63.250	63.096	0.040	0.0	0.0	0.0
9096	63.250	63.096	0.040	0.0	0.0	0.0
9120	63.250	63.096	0.040	0.0	0.0	0.0
9144	63.249	63.096	0.039	0.0	0.0	0.0
9168	63.249	63.096	0.039	0.0	0.0	0.0
9192	63.246	63.096	0.036	0.0	0.0	0.0
9216	63.241	63.096	0.031	0.0	0.0	0.0
9240	63.233	63.096	0.023	0.0	0.0	0.0
9264	63.224	63.096	0.014	0.0	0.0	0.0
9288	63.211	63.096	0.001	0.0	0.0	0.0
9312	63.199	63.096	-0.011	0.0	0.0	0.0
9336	63.186	63.096	-0.024	0.0	0.0	0.0
9360	63.172	63.096	-0.038	0.0	0.0	0.0
9384	63.158	63.096	-0.052	0.0	0.0	0.0
9408	63.144	63.096	-0.066	0.0	0.0	0.0
9432	63.134	63.096	-0.076	0.0	0.0	0.0
9456	63.129	63.096	-0.081	0.0	0.0	0.0
9480	63.126	63.096	-0.084	0.0	0.0	0.0
9504	63.123	63.096	-0.087	0.0	0.0	0.0
9528	63.122	63.096	-0.088	0.0	0.0	0.0
9552	63.121	63.096	-0.089	0.0	0.0	0.0
9576	63.120	63.096	-0.090	0.0	0.0	0.0
9600	63.119	63.096	-0.091	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
9624	63.118	63.096	-0.092	0.0	0.0	0.0
9648	63.118	63.096	-0.092	0.0	0.0	0.0
9672	63.117	63.096	-0.093	0.0	0.0	0.0
9696	63.117	63.096	-0.093	0.0	0.0	0.0
9720	63.116	63.096	-0.094	0.0	0.0	0.0
9744	63.116	63.096	-0.094	0.0	0.0	0.0
9768	63.115	63.096	-0.095	0.0	0.0	0.0
9792	63.115	63.096	-0.095	0.0	0.0	0.0
9816	63.114	63.096	-0.096	0.0	0.0	0.0
9840	63.113	63.096	-0.097	0.0	0.0	0.0
9864	63.113	63.096	-0.097	0.0	0.0	0.0
9888	63.112	63.096	-0.098	0.0	0.0	0.0
9912	63.111	63.096	-0.099	0.0	0.0	0.0
9936	63.111	63.096	-0.099	0.0	0.0	0.0
9960	63.110	63.096	-0.100	0.0	0.0	0.0
9984	63.109	63.096	-0.101	0.0	0.0	0.0
10008	63.109	63.096	-0.101	0.0	0.0	0.0
10032	63.108	63.096	-0.102	0.0	0.0	0.0
10056	63.108	63.096	-0.102	0.0	0.0	0.0
10080	63.107	63.096	-0.103	0.0	0.0	0.0
10104	63.106	63.096	-0.104	0.0	0.0	0.0
10128	63.106	63.096	-0.104	0.0	0.0	0.0
10152	63.105	63.096	-0.105	0.0	0.0	0.0
10176	63.105	63.096	-0.105	0.0	0.0	0.0
10200	63.104	63.096	-0.106	0.0	0.0	0.0
10224	63.104	63.096	-0.106	0.0	0.0	0.0
10248	63.104	63.096	-0.106	0.0	0.0	0.0
10272	63.103	63.096	-0.107	0.0	0.0	0.0
10296	63.103	63.096	-0.107	0.0	0.0	0.0
10320	63.103	63.096	-0.107	0.0	0.0	0.0
10344	63.103	63.096	-0.107	0.0	0.0	0.0
10368	63.102	63.096	-0.108	0.0	0.0	0.0
10392	63.102	63.096	-0.108	0.0	0.0	0.0
10416	63.102	63.096	-0.108	0.0	0.0	0.0
10440	63.102	63.096	-0.108	0.0	0.0	0.0
10464	63.102	63.096	-0.108	0.0	0.0	0.0
10488	63.102	63.096	-0.108	0.0	0.0	0.0
10512	63.102	63.096	-0.108	0.0	0.0	0.0
10536	63.102	63.096	-0.108	0.0	0.0	0.0
10560	63.101	63.096	-0.109	0.0	0.0	0.0
10584	63.101	63.096	-0.109	0.0	0.0	0.0
10608	63.101	63.096	-0.109	0.0	0.0	0.0
10632	63.101	63.096	-0.109	0.0	0.0	0.0
10656	63.101	63.096	-0.109	0.0	0.0	0.0
10680	63.101	63.096	-0.109	0.0	0.0	0.0
10704	63.101	63.096	-0.109	0.0	0.0	0.0
10728	63.101	63.096	-0.109	0.0	0.0	0.0
10752	63.101	63.096	-0.109	0.0	0.0	0.0
10776	63.101	63.096	-0.109	0.0	0.0	0.0
10800	63.101	63.096	-0.109	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10824	63.101	63.096	-0.109	0.0	0.0	0.0
10848	63.101	63.096	-0.109	0.0	0.0	0.0
10872	63.101	63.096	-0.109	0.0	0.0	0.0
10896	63.101	63.096	-0.109	0.0	0.0	0.0
10920	63.101	63.096	-0.109	0.0	0.0	0.0
10944	63.101	63.096	-0.109	0.0	0.0	0.0
10968	63.101	63.096	-0.109	0.0	0.0	0.0
10992	63.101	63.096	-0.109	0.0	0.0	0.0
11016	63.101	63.096	-0.109	0.0	0.0	0.0
11040	63.101	63.096	-0.109	0.0	0.0	0.0
11064	63.101	63.096	-0.109	0.0	0.0	0.0
11088	63.101	63.096	-0.109	0.0	0.0	0.0
11112	63.101	63.096	-0.109	0.0	0.0	0.0
11136	63.101	63.096	-0.109	0.0	0.0	0.0
11160	63.101	63.096	-0.109	0.0	0.0	0.0
11184	63.101	63.096	-0.109	0.0	0.0	0.0
11208	63.101	63.096	-0.109	0.0	0.0	0.0
11232	63.100	63.096	-0.110	0.0	0.0	0.0
11256	63.100	63.096	-0.110	0.0	0.0	0.0
11280	63.100	63.096	-0.110	0.0	0.0	0.0
11304	63.100	63.096	-0.110	0.0	0.0	0.0
11328	63.100	63.096	-0.110	0.0	0.0	0.0
11352	63.100	63.096	-0.110	0.0	0.0	0.0
11376	63.100	63.096	-0.110	0.0	0.0	0.0
11400	63.100	63.096	-0.110	0.0	0.0	0.0
11424	63.100	63.096	-0.110	0.0	0.0	0.0
11448	63.100	63.096	-0.110	0.0	0.0	0.0
11472	63.100	63.096	-0.110	0.0	0.0	0.0
11496	63.100	63.096	-0.110	0.0	0.0	0.0
11520	63.100	63.096	-0.110	0.0	0.0	0.0
11544	63.100	63.096	-0.110	0.0	0.0	0.0
11568	63.100	63.096	-0.110	0.0	0.0	0.0
11592	63.100	63.096	-0.110	0.0	0.0	0.0
11616	63.100	63.096	-0.110	0.0	0.0	0.0
11640	63.100	63.096	-0.110	0.0	0.0	0.0
11664	63.100	63.096	-0.110	0.0	0.0	0.0
11688	63.100	63.096	-0.110	0.0	0.0	0.0
11712	63.100	63.096	-0.110	0.0	0.0	0.0
11736	63.100	63.096	-0.110	0.0	0.0	0.0
11760	63.100	63.096	-0.110	0.0	0.0	0.0
11784	63.100	63.096	-0.110	0.0	0.0	0.0
11808	63.100	63.096	-0.110	0.0	0.0	0.0
11832	63.100	63.096	-0.110	0.0	0.0	0.0
11856	63.100	63.096	-0.110	0.0	0.0	0.0
11880	63.100	63.096	-0.110	0.0	0.0	0.0
11904	63.100	63.096	-0.110	0.0	0.0	0.0
11928	63.100	63.096	-0.110	0.0	0.0	0.0
11952	63.100	63.096	-0.110	0.0	0.0	0.0
11976	63.100	63.096	-0.110	0.0	0.0	0.0
12000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12024	63.100	63.096	-0.110	0.0	0.0	0.0
12048	63.100	63.096	-0.110	0.0	0.0	0.0
12072	63.100	63.096	-0.110	0.0	0.0	0.0
12096	63.100	63.096	-0.110	0.0	0.0	0.0
12120	63.100	63.096	-0.110	0.0	0.0	0.0
12144	63.100	63.096	-0.110	0.0	0.0	0.0
12168	63.100	63.096	-0.110	0.0	0.0	0.0
12192	63.100	63.096	-0.110	0.0	0.0	0.0
12216	63.100	63.096	-0.110	0.0	0.0	0.0
12240	63.100	63.096	-0.110	0.0	0.0	0.0
12264	63.100	63.096	-0.110	0.0	0.0	0.0
12288	63.100	63.096	-0.110	0.0	0.0	0.0
12312	63.100	63.096	-0.110	0.0	0.0	0.0
12336	63.100	63.096	-0.110	0.0	0.0	0.0
12360	63.100	63.096	-0.110	0.0	0.0	0.0
12384	63.100	63.096	-0.110	0.0	0.0	0.0
12408	63.100	63.096	-0.110	0.0	0.0	0.0
12432	63.100	63.096	-0.110	0.0	0.0	0.0
12456	63.100	63.096	-0.110	0.0	0.0	0.0
12480	63.100	63.096	-0.110	0.0	0.0	0.0
12504	63.100	63.096	-0.110	0.0	0.0	0.0
12528	63.100	63.096	-0.110	0.0	0.0	0.0
12552	63.100	63.096	-0.110	0.0	0.0	0.0
12576	63.100	63.096	-0.110	0.0	0.0	0.0
12600	63.100	63.096	-0.110	0.0	0.0	0.0
12624	63.100	63.096	-0.110	0.0	0.0	0.0
12648	63.100	63.096	-0.110	0.0	0.0	0.0
12672	63.100	63.096	-0.110	0.0	0.0	0.0
12696	63.100	63.096	-0.110	0.0	0.0	0.0
12720	63.100	63.096	-0.110	0.0	0.0	0.0
12744	63.100	63.096	-0.110	0.0	0.0	0.0
12768	63.100	63.096	-0.110	0.0	0.0	0.0
12792	63.100	63.096	-0.110	0.0	0.0	0.0
12816	63.100	63.096	-0.110	0.0	0.0	0.0
12840	63.100	63.096	-0.110	0.0	0.0	0.0
12864	63.100	63.096	-0.110	0.0	0.0	0.0
12888	63.100	63.096	-0.110	0.0	0.0	0.0
12912	63.100	63.096	-0.110	0.0	0.0	0.0
12936	63.100	63.096	-0.110	0.0	0.0	0.0
12960	63.100	63.096	-0.110	0.0	0.0	0.0
12984	63.100	63.096	-0.110	0.0	0.0	0.0
13008	63.100	63.096	-0.110	0.0	0.0	0.0
13032	63.100	63.096	-0.110	0.0	0.0	0.0
13056	63.100	63.096	-0.110	0.0	0.0	0.0
13080	63.100	63.096	-0.110	0.0	0.0	0.0
13104	63.100	63.096	-0.110	0.0	0.0	0.0
13128	63.100	63.096	-0.110	0.0	0.0	0.0
13152	63.100	63.096	-0.110	0.0	0.0	0.0
13176	63.100	63.096	-0.110	0.0	0.0	0.0
13200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
13224	63.100	63.096	-0.110	0.0	0.0	0.0
13248	63.100	63.096	-0.110	0.0	0.0	0.0
13272	63.100	63.096	-0.110	0.0	0.0	0.0
13296	63.100	63.096	-0.110	0.0	0.0	0.0
13320	63.100	63.096	-0.110	0.0	0.0	0.0
13344	63.100	63.096	-0.110	0.0	0.0	0.0
13368	63.100	63.096	-0.110	0.0	0.0	0.0
13392	63.100	63.096	-0.110	0.0	0.0	0.0
13416	63.100	63.096	-0.110	0.0	0.0	0.0
13440	63.100	63.096	-0.110	0.0	0.0	0.0
13464	63.100	63.096	-0.110	0.0	0.0	0.0
13488	63.100	63.096	-0.110	0.0	0.0	0.0
13512	63.100	63.096	-0.110	0.0	0.0	0.0
13536	63.100	63.096	-0.110	0.0	0.0	0.0
13560	63.100	63.096	-0.110	0.0	0.0	0.0
13584	63.100	63.096	-0.110	0.0	0.0	0.0
13608	63.100	63.096	-0.110	0.0	0.0	0.0
13632	63.100	63.096	-0.110	0.0	0.0	0.0
13656	63.100	63.096	-0.110	0.0	0.0	0.0
13680	63.100	63.096	-0.110	0.0	0.0	0.0
13704	63.100	63.096	-0.110	0.0	0.0	0.0
13728	63.100	63.096	-0.110	0.0	0.0	0.0
13752	63.100	63.096	-0.110	0.0	0.0	0.0
13776	63.100	63.096	-0.110	0.0	0.0	0.0
13800	63.100	63.096	-0.110	0.0	0.0	0.0
13824	63.100	63.096	-0.110	0.0	0.0	0.0
13848	63.100	63.096	-0.110	0.0	0.0	0.0
13872	63.100	63.096	-0.110	0.0	0.0	0.0
13896	63.100	63.096	-0.110	0.0	0.0	0.0
13920	63.100	63.096	-0.110	0.0	0.0	0.0
13944	63.100	63.096	-0.110	0.0	0.0	0.0
13968	63.100	63.096	-0.110	0.0	0.0	0.0
13992	63.100	63.096	-0.110	0.0	0.0	0.0
14016	63.100	63.096	-0.110	0.0	0.0	0.0
14040	63.100	63.096	-0.110	0.0	0.0	0.0
14064	63.100	63.096	-0.110	0.0	0.0	0.0
14088	63.100	63.096	-0.110	0.0	0.0	0.0
14112	63.100	63.096	-0.110	0.0	0.0	0.0
14136	63.100	63.096	-0.110	0.0	0.0	0.0
14160	63.100	63.096	-0.110	0.0	0.0	0.0
14184	63.100	63.096	-0.110	0.0	0.0	0.0
14208	63.100	63.096	-0.110	0.0	0.0	0.0
14232	63.100	63.096	-0.110	0.0	0.0	0.0
14256	63.100	63.096	-0.110	0.0	0.0	0.0
14280	63.100	63.096	-0.110	0.0	0.0	0.0
14304	63.100	63.096	-0.110	0.0	0.0	0.0
14328	63.100	63.096	-0.110	0.0	0.0	0.0
14352	63.100	63.096	-0.110	0.0	0.0	0.0
14376	63.100	63.096	-0.110	0.0	0.0	0.0
14400	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
14424	63.100	63.096	-0.110	0.0	0.0	0.0
14448	63.100	63.096	-0.110	0.0	0.0	0.0
14472	63.100	63.096	-0.110	0.0	0.0	0.0
14496	63.100	63.096	-0.110	0.0	0.0	0.0
14520	63.100	63.096	-0.110	0.0	0.0	0.0
14544	63.100	63.096	-0.110	0.0	0.0	0.0
14568	63.100	63.096	-0.110	0.0	0.0	0.0
14592	63.100	63.096	-0.110	0.0	0.0	0.0
14616	63.100	63.096	-0.110	0.0	0.0	0.0
14640	63.100	63.096	-0.110	0.0	0.0	0.0
14664	63.100	63.096	-0.110	0.0	0.0	0.0
14688	63.100	63.096	-0.110	0.0	0.0	0.0
14712	63.100	63.096	-0.110	0.0	0.0	0.0
14736	63.100	63.096	-0.110	0.0	0.0	0.0
14760	63.100	63.096	-0.110	0.0	0.0	0.0
14784	63.100	63.096	-0.110	0.0	0.0	0.0
14808	63.100	63.096	-0.110	0.0	0.0	0.0
14832	63.100	63.096	-0.110	0.0	0.0	0.0
14856	63.100	63.096	-0.110	0.0	0.0	0.0
14880	63.100	63.096	-0.110	0.0	0.0	0.0
14904	63.100	63.096	-0.110	0.0	0.0	0.0
14928	63.100	63.096	-0.110	0.0	0.0	0.0
14952	63.100	63.096	-0.110	0.0	0.0	0.0
14976	63.100	63.096	-0.110	0.0	0.0	0.0
15000	63.100	63.096	-0.110	0.0	0.0	0.0
15024	63.100	63.096	-0.110	0.0	0.0	0.0
15048	63.100	63.096	-0.110	0.0	0.0	0.0
15072	63.100	63.096	-0.110	0.0	0.0	0.0
15096	63.100	63.096	-0.110	0.0	0.0	0.0
15120	63.100	63.096	-0.110	0.0	0.0	0.0
15144	63.100	63.096	-0.110	0.0	0.0	0.0
15168	63.100	63.096	-0.110	0.0	0.0	0.0
15192	63.100	63.096	-0.110	0.0	0.0	0.0
15216	63.100	63.096	-0.110	0.0	0.0	0.0
15240	63.100	63.096	-0.110	0.0	0.0	0.0
15264	63.100	63.096	-0.110	0.0	0.0	0.0
15288	63.100	63.096	-0.110	0.0	0.0	0.0
15312	63.100	63.096	-0.110	0.0	0.0	0.0
15336	63.100	63.096	-0.110	0.0	0.0	0.0
15360	63.100	63.096	-0.110	0.0	0.0	0.0
15384	63.100	63.096	-0.110	0.0	0.0	0.0
15408	63.100	63.096	-0.110	0.0	0.0	0.0
15432	63.100	63.096	-0.110	0.0	0.0	0.0
15456	63.100	63.096	-0.110	0.0	0.0	0.0
15480	63.100	63.096	-0.110	0.0	0.0	0.0
15504	63.100	63.096	-0.110	0.0	0.0	0.0
15528	63.100	63.096	-0.110	0.0	0.0	0.0
15552	63.100	63.096	-0.110	0.0	0.0	0.0
15576	63.100	63.096	-0.110	0.0	0.0	0.0
15600	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
15624	63.100	63.096	-0.110	0.0	0.0	0.0
15648	63.100	63.096	-0.110	0.0	0.0	0.0
15672	63.100	63.096	-0.110	0.0	0.0	0.0
15696	63.100	63.096	-0.110	0.0	0.0	0.0
15720	63.100	63.096	-0.110	0.0	0.0	0.0
15744	63.100	63.096	-0.110	0.0	0.0	0.0
15768	63.100	63.096	-0.110	0.0	0.0	0.0
15792	63.100	63.096	-0.110	0.0	0.0	0.0
15816	63.100	63.096	-0.110	0.0	0.0	0.0
15840	63.100	63.096	-0.110	0.0	0.0	0.0
15864	63.100	63.096	-0.110	0.0	0.0	0.0
15888	63.100	63.096	-0.110	0.0	0.0	0.0
15912	63.100	63.096	-0.110	0.0	0.0	0.0
15936	63.100	63.096	-0.110	0.0	0.0	0.0
15960	63.100	63.096	-0.110	0.0	0.0	0.0
15984	63.100	63.096	-0.110	0.0	0.0	0.0
16008	63.100	63.096	-0.110	0.0	0.0	0.0
16032	63.100	63.096	-0.110	0.0	0.0	0.0
16056	63.100	63.096	-0.110	0.0	0.0	0.0
16080	63.100	63.096	-0.110	0.0	0.0	0.0
16104	63.100	63.096	-0.110	0.0	0.0	0.0
16128	63.100	63.096	-0.110	0.0	0.0	0.0
16152	63.100	63.096	-0.110	0.0	0.0	0.0
16176	63.100	63.096	-0.110	0.0	0.0	0.0
16200	63.100	63.096	-0.110	0.0	0.0	0.0
16224	63.100	63.096	-0.110	0.0	0.0	0.0
16248	63.100	63.096	-0.110	0.0	0.0	0.0
16272	63.100	63.096	-0.110	0.0	0.0	0.0
16296	63.100	63.096	-0.110	0.0	0.0	0.0
16320	63.100	63.096	-0.110	0.0	0.0	0.0
16344	63.100	63.096	-0.110	0.0	0.0	0.0
16368	63.100	63.096	-0.110	0.0	0.0	0.0
16392	63.100	63.096	-0.110	0.0	0.0	0.0
16416	63.100	63.096	-0.110	0.0	0.0	0.0
16440	63.100	63.096	-0.110	0.0	0.0	0.0
16464	63.100	63.096	-0.110	0.0	0.0	0.0
16488	63.100	63.096	-0.110	0.0	0.0	0.0
16512	63.100	63.096	-0.110	0.0	0.0	0.0
16536	63.100	63.096	-0.110	0.0	0.0	0.0
16560	63.100	63.096	-0.110	0.0	0.0	0.0
16584	63.100	63.096	-0.110	0.0	0.0	0.0
16608	63.100	63.096	-0.110	0.0	0.0	0.0
16632	63.100	63.096	-0.110	0.0	0.0	0.0
16656	63.100	63.096	-0.110	0.0	0.0	0.0
16680	63.100	63.096	-0.110	0.0	0.0	0.0
16704	63.100	63.096	-0.110	0.0	0.0	0.0
16728	63.100	63.096	-0.110	0.0	0.0	0.0
16752	63.100	63.096	-0.110	0.0	0.0	0.0
16776	63.100	63.096	-0.110	0.0	0.0	0.0
16800	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
16824	63.100	63.096	-0.110	0.0	0.0	0.0
16848	63.100	63.096	-0.110	0.0	0.0	0.0
16872	63.100	63.096	-0.110	0.0	0.0	0.0
16896	63.100	63.096	-0.110	0.0	0.0	0.0
16920	63.100	63.096	-0.110	0.0	0.0	0.0
16944	63.100	63.096	-0.110	0.0	0.0	0.0
16968	63.100	63.096	-0.110	0.0	0.0	0.0
16992	63.100	63.096	-0.110	0.0	0.0	0.0
17016	63.100	63.096	-0.110	0.0	0.0	0.0
17040	63.100	63.096	-0.110	0.0	0.0	0.0
17064	63.100	63.096	-0.110	0.0	0.0	0.0
17088	63.100	63.096	-0.110	0.0	0.0	0.0
17112	63.100	63.096	-0.110	0.0	0.0	0.0
17136	63.100	63.096	-0.110	0.0	0.0	0.0
17160	63.100	63.096	-0.110	0.0	0.0	0.0
17184	63.100	63.096	-0.110	0.0	0.0	0.0
17208	63.100	63.096	-0.110	0.0	0.0	0.0
17232	63.100	63.096	-0.110	0.0	0.0	0.0
17256	63.100	63.096	-0.110	0.0	0.0	0.0
17280	63.100	63.096	-0.110	0.0	0.0	0.0
17304	63.100	63.096	-0.110	0.0	0.0	0.0
17328	63.100	63.096	-0.110	0.0	0.0	0.0
17352	63.100	63.096	-0.110	0.0	0.0	0.0
17376	63.100	63.096	-0.110	0.0	0.0	0.0
17400	63.100	63.096	-0.110	0.0	0.0	0.0
17424	63.100	63.096	-0.110	0.0	0.0	0.0
17448	63.100	63.096	-0.110	0.0	0.0	0.0
17472	63.100	63.096	-0.110	0.0	0.0	0.0
17496	63.100	63.096	-0.110	0.0	0.0	0.0
17520	63.100	63.096	-0.110	0.0	0.0	0.0
17544	63.100	63.096	-0.110	0.0	0.0	0.0
17568	63.100	63.096	-0.110	0.0	0.0	0.0
17592	63.100	63.096	-0.110	0.0	0.0	0.0
17616	63.100	63.096	-0.110	0.0	0.0	0.0
17640	63.100	63.096	-0.110	0.0	0.0	0.0
17664	63.100	63.096	-0.110	0.0	0.0	0.0
17688	63.100	63.096	-0.110	0.0	0.0	0.0
17712	63.100	63.096	-0.110	0.0	0.0	0.0
17736	63.100	63.096	-0.110	0.0	0.0	0.0
17760	63.100	63.096	-0.110	0.0	0.0	0.0
17784	63.100	63.096	-0.110	0.0	0.0	0.0
17808	63.100	63.096	-0.110	0.0	0.0	0.0
17832	63.100	63.096	-0.110	0.0	0.0	0.0
17856	63.100	63.096	-0.110	0.0	0.0	0.0
17880	63.100	63.096	-0.110	0.0	0.0	0.0
17904	63.100	63.096	-0.110	0.0	0.0	0.0
17928	63.100	63.096	-0.110	0.0	0.0	0.0
17952	63.100	63.096	-0.110	0.0	0.0	0.0
17976	63.100	63.096	-0.110	0.0	0.0	0.0
18000	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
18024	63.100	63.096	-0.110	0.0	0.0	0.0
18048	63.100	63.096	-0.110	0.0	0.0	0.0
18072	63.100	63.096	-0.110	0.0	0.0	0.0
18096	63.100	63.096	-0.110	0.0	0.0	0.0
18120	63.100	63.096	-0.110	0.0	0.0	0.0
18144	63.100	63.096	-0.110	0.0	0.0	0.0
18168	63.100	63.096	-0.110	0.0	0.0	0.0
18192	63.100	63.096	-0.110	0.0	0.0	0.0
18216	63.100	63.096	-0.110	0.0	0.0	0.0
18240	63.100	63.096	-0.110	0.0	0.0	0.0
18264	63.100	63.096	-0.110	0.0	0.0	0.0
18288	63.100	63.096	-0.110	0.0	0.0	0.0
18312	63.100	63.096	-0.110	0.0	0.0	0.0
18336	63.100	63.096	-0.110	0.0	0.0	0.0
18360	63.100	63.096	-0.110	0.0	0.0	0.0
18384	63.100	63.096	-0.110	0.0	0.0	0.0
18408	63.100	63.096	-0.110	0.0	0.0	0.0
18432	63.100	63.096	-0.110	0.0	0.0	0.0
18456	63.100	63.096	-0.110	0.0	0.0	0.0
18480	63.100	63.096	-0.110	0.0	0.0	0.0
18504	63.100	63.096	-0.110	0.0	0.0	0.0
18528	63.100	63.096	-0.110	0.0	0.0	0.0
18552	63.100	63.096	-0.110	0.0	0.0	0.0
18576	63.100	63.096	-0.110	0.0	0.0	0.0
18600	63.100	63.096	-0.110	0.0	0.0	0.0
18624	63.100	63.096	-0.110	0.0	0.0	0.0
18648	63.100	63.096	-0.110	0.0	0.0	0.0
18672	63.100	63.096	-0.110	0.0	0.0	0.0
18696	63.100	63.096	-0.110	0.0	0.0	0.0
18720	63.100	63.096	-0.110	0.0	0.0	0.0
18744	63.100	63.096	-0.110	0.0	0.0	0.0
18768	63.100	63.096	-0.110	0.0	0.0	0.0
18792	63.100	63.096	-0.110	0.0	0.0	0.0
18816	63.100	63.096	-0.110	0.0	0.0	0.0
18840	63.100	63.096	-0.110	0.0	0.0	0.0
18864	63.100	63.096	-0.110	0.0	0.0	0.0
18888	63.100	63.096	-0.110	0.0	0.0	0.0
18912	63.100	63.096	-0.110	0.0	0.0	0.0
18936	63.100	63.096	-0.110	0.0	0.0	0.0
18960	63.100	63.096	-0.110	0.0	0.0	0.0
18984	63.100	63.096	-0.110	0.0	0.0	0.0
19008	63.100	63.096	-0.110	0.0	0.0	0.0
19032	63.100	63.096	-0.110	0.0	0.0	0.0
19056	63.100	63.096	-0.110	0.0	0.0	0.0
19080	63.100	63.096	-0.110	0.0	0.0	0.0
19104	63.100	63.096	-0.110	0.0	0.0	0.0
19128	63.100	63.096	-0.110	0.0	0.0	0.0
19152	63.100	63.096	-0.110	0.0	0.0	0.0
19176	63.100	63.096	-0.110	0.0	0.0	0.0
19200	63.100	63.096	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
10080 minute 100 year Winter
Average Rainfall Intensity 0.829 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
19224	63.100	63.096	-0.110	0.0	0.0	0.0
19248	63.100	63.096	-0.110	0.0	0.0	0.0
19272	63.100	63.096	-0.110	0.0	0.0	0.0
19296	63.100	63.096	-0.110	0.0	0.0	0.0
19320	63.100	63.096	-0.110	0.0	0.0	0.0
19344	63.100	63.096	-0.110	0.0	0.0	0.0
19368	63.100	63.096	-0.110	0.0	0.0	0.0
19392	63.100	63.096	-0.110	0.0	0.0	0.0
19416	63.100	63.096	-0.110	0.0	0.0	0.0
19440	63.100	63.096	-0.110	0.0	0.0	0.0
19464	63.100	63.096	-0.110	0.0	0.0	0.0
19488	63.100	63.096	-0.110	0.0	0.0	0.0
19512	63.100	63.096	-0.110	0.0	0.0	0.0
19536	63.100	63.096	-0.110	0.0	0.0	0.0
19560	63.100	63.096	-0.110	0.0	0.0	0.0
19584	63.100	63.096	-0.110	0.0	0.0	0.0
19608	63.100	63.096	-0.110	0.0	0.0	0.0
19632	63.100	63.096	-0.110	0.0	0.0	0.0
19656	63.100	63.096	-0.110	0.0	0.0	0.0
19680	63.100	63.096	-0.110	0.0	0.0	0.0
19704	63.100	63.096	-0.110	0.0	0.0	0.0
19728	63.100	63.096	-0.110	0.0	0.0	0.0
19752	63.100	63.096	-0.110	0.0	0.0	0.0
19776	63.100	63.096	-0.110	0.0	0.0	0.0
19800	63.100	63.096	-0.110	0.0	0.0	0.0
19824	63.100	63.096	-0.110	0.0	0.0	0.0
19848	63.100	63.096	-0.110	0.0	0.0	0.0
19872	63.100	63.096	-0.110	0.0	0.0	0.0
19896	63.100	63.096	-0.110	0.0	0.0	0.0
19920	63.100	63.096	-0.110	0.0	0.0	0.0
19944	63.100	63.096	-0.110	0.0	0.0	0.0
19968	63.100	63.096	-0.110	0.0	0.0	0.0
19992	63.100	63.096	-0.110	0.0	0.0	0.0
20016	63.100	63.096	-0.110	0.0	0.0	0.0
20040	63.100	63.096	-0.110	0.0	0.0	0.0
20064	63.100	63.096	-0.110	0.0	0.0	0.0
20088	63.100	63.096	-0.110	0.0	0.0	0.0
20112	63.100	63.096	-0.110	0.0	0.0	0.0
20136	63.100	63.096	-0.110	0.0	0.0	0.0
20160	63.100	63.096	-0.110	0.0	0.0	0.0

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TWINHAM, 34 HURST ROAD, HASSOCKS

SIMULATION ASSESSMENT OF HALF DRAIN TIME FOR ATTENUATION TANK AND RAIN GARDEN

Parameter	Symbol	Value	Units	Notes
Catchment Area	A	150	m^2	Impermeable
Runoff Coefficient	C	1	-	Fully impermeable
Attenuation Tank Volume	V_tank	12.2	m^3	No tank infiltration
Flow Control Discharge (L/s)	Q_out_Lps	0.3	L/s	Constant discharge to pond
Flow to Infiltration Pond (m^3/s)	Q_out_m3s	0.0003	m^3/s	Converted flow rate
Flow to Infiltration Pond (m^3/h)	Q_out_m3h	1.08	m^3/h	Converted flow rate
Half Volume	V_half	6.1	m^3	Half of tank storage
Rain Garden Infiltration Rate (m/h)	f	0.045	m/h	Adjustable
Rain Garden Base Area (m^2)	A_pond	12.8	m^2	Adjustable

TWINHAM, 34 HURST ROAD, HASSOCKS

SIMULATION ASSESSMENT OF HALF DRAIN TIME FOR ATTENUATION TANK AND RAIN GARDEN

Duration (min)	Duration (hrs)	Rainfall Winter (mm)	Runoff Volume Winter (m^3)	Tank Overflow Winter	Half-Drain Time Winter (hrs)	Full-Drain Time Winter (hrs)	Rainfall Summer (mm)	Runoff Volume Summer (m^3)	Tank Overflow Summer	Half-Drain Time Summer (hrs)	Full-Drain Time Summer (hrs)
15	0.25	12	1.8	None	5.65	11.30	18	2.7	None	5.65	11.30
30	0.5	18	2.7		5.65	11.30	25	3.75		5.65	11.30
60	1	25	3.75		5.65	11.30	35	5.25		5.65	11.30
120	2	35	5.25		5.65	11.30	45	6.75		5.65	11.30
360	6	50	7.5		5.65	11.30	60	9		5.65	11.30
720	12	60	9		5.65	11.30	75	11.25		5.65	11.30
1440	24	75	11.25		5.65	11.30	90	13.5		5.65	11.30
2880	48	90	13.5		5.65	11.30	105	15.75		5.65	11.30
4320	72	100	15		5.65	11.30	120	18		5.65	11.30
10080	168	120	18		5.65	11.30	140	21		5.65	11.30

1 in 100 year + 45% CC Return Storm Event

TWINHAM, 34 HURST ROAD, HASSOCKS

SIMULATION ASSESSMENT OF HALF DRAIN TIME FOR ATTENUATION TANK AND RAIN GARDEN

Parameter	Formula/ Reference	Value/ Formula	Units	Notes
Inflow volume (from tank) (m^3)	12.20	12.20	m^3	Assume full tank volume could be passed to Rain Garden
Rain Garden infiltration rate (m/h)	0.05	0.05	m/h	SI test
Rain Garden base area (m^2)	12.80	12.80	m^2	L * W
Infiltration capacity (m^3/h)	0.58	0.58	m^3/h	f * A_Rain Garden
Time to empty Rain Garden (hrs)	21.18	21.18	hrs	If pond receives full tank volume

TWINHAM, 34 HURST ROAD, HASSOCKS

SIMULATION ASSESSMENT OF HALF DRAIN TIME FOR ATTENUATION TANK AND RAIN GARDEN

Compliance Check	Limit (hrs)	Winter Result (hrs)	Winter Pass/Fail	Summer Result (hrs)	Summer Pass/Fail
Tank half-drain time	24	5.65	Pass	5.65	Pass
Tank full-drain time	24	11.30	Pass	11.30	Pass
Rain Garden drain time	24	10.59	Pass	10.59	Pass