PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	o	150	S1	91.350	90.150	1.050	Open Manhole	1200
S1.001	o	150	S2	91.350	90.065	1.135	Open Manhole	1200
S2.000	o	150	S3	91.350	90.150	1.050	Open Manhole	1200
S1.002	o	225	S3	91.350	89.900	1.225	Open Manhole	1200
S3.000	o	300	S5	91.220	89.720	1.200	Open Manhole	1200
S1.003	o	300	S4	91.061	89.200	1.561	Open Manhole	1200
S1.004	o	150	S5	91.000	89.100	1.750	Open Manhole	1200
S1.005	o	225	S6	91.050	88.938	1.887	Open Manhole	1200
S4.000	o	225	S9	91.300	90.300	0.775	Open Manhole	1200
S4.001	o	225	S10	91.300	89.325	1.750	Open Manhole	1200
S4.002	o	225	S11	91.375	89.202	1.948	Open Manhole	1200
S5.000	o	150	S12	91.000	89.650	1.200	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S1.000	12.714	150.0	S2	91.350	90.065	1.135	Open Manhole	1200
S1.001	13.500	150.0	S3	91.350	89.975	1.225	Open Manhole	1200
S2.000	16.048	150.0	S3	91.350	90.043	1.157	Open Manhole	1200
S1.002	13.095	21.0	S4	91.061	89.275	1.561	Open Manhole	1200
S3.000	4.632	8.9	S4	91.061	89.200	1.561	Open Manhole	1200
S1.003	29.963	300.0	S5	91.000	89.100	1.600	Open Manhole	1200
S1.004	13.063	150.1	S6	91.050	89.013	1.887	Open Manhole	1200
S1.005	66.500	167.0	S7	90.300	88.540	1.535	Open Manhole	1350
S4.000	14.600	100.0	S10	91.300	90.154	0.921	Open Manhole	1200
S4.001	20.499	166.7	S11	91.375	89.202	1.948	Open Manhole	1200
S4.002	11.879	167.0	S12	91.175	89.131	1.819	Open Manhole	1200
S5.000	15.872	150.0	S12	91.175	89.544	1.481	Open Manhole	1200

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S4.003	o	225	S12	91.175	89.131	1.819	Open Manhole	1200
S6.000	o	300	S14	90.400	88.900	1.200	Open Manhole	1200
S6.001	o	300	S14	90.600	88.794	1.506	Open Manhole	1200
S4.004	o	375	S13	91.000	88.650	1.975	Open Manhole	1350
S7.000	o	225	S16	91.300	90.300	0.775	Open Manhole	1200
S4.005	o	375	S14	91.000	88.581	2.044	Open Manhole	1350
S4.006	o	375	S15	90.400	88.484	1.541	Open Manhole	1350
S1.006	o	225	S7	90.300	88.390	1.685	Open Manhole	1350
S8.000	o	225	S21	90.400	89.100	1.075	Open Manhole	1200
S8.001	o	300	S22	90.200	88.926	0.974	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S4.003	43.459	167.0	S13	91.000	88.871	1.905	Open Manhole	1350
S6.000	21.265	200.0	S14	90.600	88.794	1.506	Open Manhole	1200
S6.001	13.654	200.0	S13	91.000	88.725	1.975	Open Manhole	1350
S4.004	13.753	199.3	S14	91.000	88.581	2.044	Open Manhole	1350
S7.000	37.725	167.0	S14	91.000	90.074	0.701	Open Manhole	1350
S4.005	29.104	300.0	S15	90.400	88.484	1.541	Open Manhole	1350
S4.006	3.448	313.0	S7	90.300	88.473	1.452	Open Manhole	1350
S1.006	16.699	150.4	S	90.000	88.279	1.496	Open Manhole	0
S8.000	16.461	167.0	S22	90.200	89.001	0.974	Open Manhole	1200
S8.001	22.137	300.0	S23	90.450	88.853	1.297	Open Manhole	1200

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S9.000	o	225	S23	90.300	88.900	1.175	Open Manhole	1200
S8.002	o	300	S23	90.450	88.725	1.425	Open Manhole	1200
S8.003	o	300	S24	90.300	87.350	2.650	Open Manhole	1200
S8.004	o	150	S25	90.200	87.294	2.756	Open Manhole	1200
S10.000	o	225	S27	89.900	88.600	1.075	Open Manhole	1200
S10.001	o	300	S28	89.900	88.484	1.116	Open Manhole	1200
S10.002	o	375	S29	89.650	88.372	0.903	Open Manhole	1350
S10.003	o	375	S30	89.500	88.329	0.796	Open Manhole	1350
S11.000	o	150	S31	89.650	88.350	1.150	Open Manhole	1200
S11.001	o	150	S31	89.650	88.087	1.413	Open Manhole	1200
S10.004	o	375	S31	89.400	87.200	1.825	Open Manhole	1350
S12.000	o	150	S34	89.400	88.100	1.150	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S9.000	16.699	167.0	S23	90.450	88.800	1.425	Open Manhole	1200
S8.002	3.950	300.0	S24	90.300	88.712	1.288	Open Manhole	1200
S8.003	16.914	302.0	S25	90.200	87.294	2.606	Open Manhole	1200
S8.004	10.968	296.4	S26	89.000	87.257	1.593	Open Manhole	1200
S10.000	6.800	167.0	S28	89.900	88.559	1.116	Open Manhole	1200
S10.001	11.064	300.0	S29	89.650	88.447	0.903	Open Manhole	1350
S10.002	12.894	300.0	S30	89.500	88.329	0.796	Open Manhole	1350
S10.003	6.254	297.8	S31	89.400	88.308	0.717	Open Manhole	1350
S11.000	39.462	150.0	S31	89.650	88.087	1.413	Open Manhole	1200
S11.001	17.628	149.4	S31	89.400	87.969	1.281	Open Manhole	1350
S10.004	62.244	300.7	S32	89.000	86.993	1.632	Open Manhole	1350
S12.000	10.090	150.6	S32	89.000	88.033	0.817	Open Manhole	1350

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S10.005	o	150	S32	89.000	86.993	1.857	Open Manhole	1350
S13.000	o	150	S36	90.040	88.700	1.190	Open Manhole	1200
S8.005	o	150	S26	89.000	86.960	1.890	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
S10.005	4.879	147.8	S26	89.000	86.960	1.890	Open Manhole	1200
S13.000	24.500	150.3	S26	89.000	88.537	0.313	Open Manhole	1200
S8.005	5.457	3.7	S	88.710	85.465	3.095	Open Manhole	0

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Online Controls for Storm

Hydro-Brake Optimum® Manhole: S5, DS/PN: S1.004, Volume (m³): 4.2

Unit Reference	MD-SHE-0109-5000-0800-5000
Design Head (m)	0.800
Design Flow (l/s)	5.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	109
Invert Level (m)	89.100
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.800	5.0	Kick-Flo®	0.537	4.2
Flush-Flo™	0.241	5.0	Mean Flow over Head Range	-	4.3

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.7	1.200	6.0	3.000	9.3	7.000	13.9
0.200	5.0	1.400	6.5	3.500	10.0	7.500	14.4
0.300	5.0	1.600	6.9	4.000	10.6	8.000	14.8
0.400	4.8	1.800	7.3	4.500	11.3	8.500	15.2
0.500	4.5	2.000	7.7	5.000	11.8	9.000	15.7
0.600	4.4	2.200	8.0	5.500	12.4	9.500	16.1
0.800	5.0	2.400	8.4	6.000	12.9		
1.000	5.5	2.600	8.7	6.500	13.4		

Hydro-Brake Optimum® Manhole: S7, DS/PN: S1.006, Volume (m³): 5.6

Unit Reference	MD-SHE-0100-5000-1400-5000
Design Head (m)	1.400
Design Flow (l/s)	5.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	100
Invert Level (m)	88.473
Minimum Outlet Pipe Diameter (mm)	150

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Hydro-Brake Optimum® Manhole: S7, DS/PN: S1.006, Volume (m³): 5.6

Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.400	5.0	Kick-Flo®	0.855	4.0
Flush-Flo™	0.416	5.0	Mean Flow over Head Range	-	4.4

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.3	1.200	4.7	3.000	7.1	7.000	10.7
0.200	4.6	1.400	5.0	3.500	7.7	7.500	11.0
0.300	4.9	1.600	5.3	4.000	8.2	8.000	11.4
0.400	5.0	1.800	5.6	4.500	8.6	8.500	11.7
0.500	5.0	2.000	5.9	5.000	9.1	9.000	12.0
0.600	4.9	2.200	6.2	5.500	9.5	9.500	12.3
0.800	4.3	2.400	6.4	6.000	9.9		
1.000	4.3	2.600	6.7	6.500	10.3		

Hydro-Brake Optimum® Manhole: S25, DS/PN: S8.004, Volume (m³): 4.4

Unit Reference	MD-SHE-0103-5000-1200-5000
Design Head (m)	1.200
Design Flow (l/s)	5.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	103
Invert Level (m)	87.294
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.200	5.0	Kick-Flo®	0.745	4.0
Flush-Flo™	0.354	5.0	Mean Flow over Head Range	-	4.4

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.4	0.200	4.7	0.300	5.0	0.400	5.0

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Hydro-Brake Optimum® Manhole: S25, DS/PN: S8.004, Volume (m³): 4.4

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.500	4.9	1.800	6.0	4.000	8.8	7.500	11.8
0.600	4.7	2.000	6.3	4.500	9.3	8.000	12.2
0.800	4.1	2.200	6.6	5.000	9.8	8.500	12.6
1.000	4.6	2.400	6.9	5.500	10.2	9.000	12.9
1.200	5.0	2.600	7.2	6.000	10.7	9.500	13.3
1.400	5.4	3.000	7.7	6.500	11.1		
1.600	5.7	3.500	8.3	7.000	11.5		

Hydro-Brake Optimum® Manhole: S26, DS/PN: S8.005, Volume (m³): 3.0

Unit Reference	MD-SHE-0093-5000-1900-5000
Design Head (m)	1.900
Design Flow (l/s)	5.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	93
Invert Level (m)	86.960
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.900	5.0	Kick-Flo®	0.830	3.4
Flush-Flo™	0.406	4.3	Mean Flow over Head Range	-	4.0

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.9	1.200	4.0	3.000	6.2	7.000	9.2
0.200	3.9	1.400	4.3	3.500	6.7	7.500	9.5
0.300	4.2	1.600	4.6	4.000	7.1	8.000	9.8
0.400	4.3	1.800	4.9	4.500	7.5	8.500	10.1
0.500	4.2	2.000	5.1	5.000	7.9	9.000	10.4
0.600	4.1	2.200	5.4	5.500	8.2	9.500	10.7
0.800	3.6	2.400	5.6	6.000	8.6		
1.000	3.7	2.600	5.8	6.500	8.9		

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Storage Structures for Storm

Tank or Pond Manhole: S5, DS/PN: S1.004

Invert Level (m) 89.100

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	125.0	0.800	125.0	0.801	0.0

Tank or Pond Manhole: S15, DS/PN: S4.006

Invert Level (m) 88.484

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	360.0	0.800	360.0	0.801	0.0

Tank or Pond Manhole: S25, DS/PN: S8.004

Invert Level (m) 87.294

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	63.0	1.200	63.0	1.201	0.0

Tank or Pond Manhole: S32, DS/PN: S10.005

Invert Level (m) 87.200

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	240.0	0.800	240.0	0.801	0.0

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 4 Number of Storage Structures 4 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.450
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.600	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status ON

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S1.000	S1	15 Winter	100	+40%	30/15 Summer				90.713
S1.001	S2	15 Winter	100	+40%	30/15 Summer				90.607
S2.000	S3	15 Winter	100	+40%	100/15 Summer				90.438
S1.002	S3	15 Winter	100	+40%	100/15 Summer				90.166
S3.000	S5	15 Winter	100	+40%	100/15 Summer				90.269
S1.003	S4	120 Winter	100	+40%	30/15 Summer				90.119
S1.004	S5	120 Winter	100	+40%	30/15 Summer				90.119
S1.005	S6	360 Winter	100	+40%	100/120 Winter				90.017
S4.000	S9	15 Winter	100	+40%	100/15 Summer				90.841
S4.001	S10	15 Winter	100	+40%	30/15 Summer				90.683
S4.002	S11	15 Winter	100	+40%	30/15 Summer				90.431
S5.000	S12	15 Winter	100	+40%	100/15 Summer				90.292
S4.003	S12	15 Winter	100	+40%	30/15 Summer				90.276
S6.000	S14	15 Winter	100	+40%	30/15 Summer				90.258
S6.001	S14	15 Winter	100	+40%	30/15 Summer				90.184
S4.004	S13	360 Winter	100	+40%	30/15 Summer				90.016

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	S1	0.413	0.000	1.11		14.6	SURCHARGED	
S1.001	S2	0.392	0.000	2.19		28.9	SURCHARGED	
S2.000	S3	0.138	0.000	1.50		20.1	SURCHARGED	
S1.002	S3	0.041	0.000	0.53		52.1	SURCHARGED	
S3.000	S5	0.249	0.000	0.57		103.6	SURCHARGED	
S1.003	S4	0.619	0.000	0.79		45.6	SURCHARGED	
S1.004	S5	0.869	0.000	0.41		5.4	SURCHARGED	
S1.005	S6	0.854	0.000	0.15		5.7	SURCHARGED	
S4.000	S9	0.316	0.000	1.29		58.8	SURCHARGED	
S4.001	S10	1.133	0.000	1.50		54.5	SURCHARGED	
S4.002	S11	1.004	0.000	1.50		51.3	SURCHARGED	
S5.000	S12	0.492	0.000	0.47		6.3	SURCHARGED	
S4.003	S12	0.921	0.000	1.55		59.4	SURCHARGED	
S6.000	S14	1.058	0.000	0.40		27.8	FLOOD RISK	
S6.001	S14	1.091	0.000	2.42		156.5	SURCHARGED	
S4.004	S13	0.991	0.000	0.27		28.8	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S7.000	S16	15 Winter	100	+40%	100/15 Summer				91.011
S4.005	S14	360 Winter	100	+40%	30/15 Summer				90.014
S4.006	S15	360 Winter	100	+40%	30/120 Winter				90.012
S1.006	S7	1440 Summer	100	+40%	1/60 Summer				90.082
S8.000	S21	15 Winter	100	+40%					89.265
S8.001	S22	15 Winter	100	+40%					89.183
S9.000	S23	15 Winter	100	+40%	100/15 Summer				89.163
S8.002	S23	15 Winter	100	+40%	100/15 Summer				89.133
S8.003	S24	240 Winter	100	+40%	30/30 Winter				88.294
S8.004	S25	240 Winter	100	+40%	30/15 Summer				88.293
S10.000	S27	15 Winter	100	+40%	30/15 Winter				89.143
S10.001	S28	15 Winter	100	+40%	30/15 Winter				89.055
S10.002	S29	15 Winter	100	+40%	100/15 Summer				88.935
S10.003	S30	15 Winter	100	+40%	100/15 Summer				88.818
S11.000	S31	15 Winter	100	+40%	100/15 Summer				88.721
S11.001	S31	15 Winter	100	+40%	30/15 Summer				88.525
S10.004	S31	240 Winter	100	+40%	30/120 Winter				88.334
S12.000	S34	15 Winter	100	+40%	30/15 Summer				88.603
S10.005	S32	240 Winter	100	+40%	1/15 Summer				88.330
S13.000	S36	15 Winter	100	+40%	30/15 Summer				89.609
S8.005	S26	240 Winter	100	+40%	1/15 Summer				88.320

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S7.000	S16	0.486	0.000	1.77		67.0	FLOOD RISK	
S4.005	S14	1.058	0.000	0.37		37.2	SURCHARGED	
S4.006	S15	1.152	0.000	0.08		6.2	SURCHARGED	
S1.006	S7	1.467	0.000	0.13		5.0	FLOOD RISK	
S8.000	S21	-0.060	0.000	0.89		31.5	OK	
S8.001	S22	-0.043	0.000	0.67		37.9	OK	
S9.000	S23	0.038	0.000	0.42		15.0	SURCHARGED	
S8.002	S23	0.108	0.000	1.84		89.5	SURCHARGED	
S8.003	S24	0.644	0.000	0.28		15.4	SURCHARGED	
S8.004	S25	0.849	0.000	0.39		3.6	SURCHARGED	
S10.000	S27	0.318	0.000	1.37		41.0	SURCHARGED	
S10.001	S28	0.271	0.000	1.66		84.6	SURCHARGED	
S10.002	S29	0.188	0.000	1.46		130.6	SURCHARGED	
S10.003	S30	0.113	0.000	1.97		148.3	SURCHARGED	
S11.000	S31	0.221	0.000	0.85		11.9	SURCHARGED	
S11.001	S31	0.288	0.000	1.85		25.1	SURCHARGED	
S10.004	S31	0.759	0.000	0.28		30.1	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S12.000	S34	0.353	0.000	2.46		31.6	SURCHARGED	
S10.005	S32	1.187	0.000	0.49		5.6	SURCHARGED	
S13.000	S36	0.759	0.000	2.36		32.4	SURCHARGED	
S8.005	S26	1.210	0.000	0.06		4.3	SURCHARGED	

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