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The Genesis Centre Science Park South Birchwood WA3 7BH			6196 - Longridge Network 1 Surface Water				
Date 01/05/2017			Designed by DM				
File NETWORK1SW 11.04.24.MDX			Checked by				
Innovyze			Network 2020.1				
1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for NETWORK1-05.06.18.SWS							
Simulation Criteria							
Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000							
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000							
Hot Start Level (mm) 0 Inlet Coefficient 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 1 Number of Storage Structures 1 Number of Real Time Controls 0							
Synthetic Rainfall Details							
Rainfall Model FSR Ratio R 0.334							
Region England and Wales Cv (Summer) 0.750							
M5-60 (mm) 18.500 Cv (Winter) 0.840							
Margin for Flood Risk Warning (mm) 300.0							
Analysis Timestep 2.5 Second Increment (Extended)							
DTS Status OFF							
DVD Status ON							
Inertia Status ON							
Profile(s) Summer and Winter							
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960							
Return Period(s) (years) 1, 30, 100							
Climate Change (%) 0, 0, 50							
Water							
US/MH	Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water
PN Name Storm Period Change Surchage Flood Overflow Act. Level (m)							
1.000	1 15 Winter	1	+0%	100/15 Summer			83.388
1.001	2 15 Winter	1	+0%	100/15 Summer			83.161
1.002	3 15 Winter	1	+0%	100/15 Summer			82.952
1.003	4 15 Winter	1	+0%	100/15 Summer			82.545
1.004	5 15 Winter	1	+0%	30/15 Summer			82.318
2.000	6 15 Winter	1	+0%	100/15 Summer	100/15 Summer		81.348
2.001	7 15 Winter	1	+0%	30/15 Summer			81.140
3.000	8 15 Winter	1	+0%	30/15 Summer			81.218
2.002	9 15 Winter	1	+0%	30/15 Summer			81.068
2.003	10 15 Winter	1	+0%	30/15 Summer			81.029
1.005	11 15 Winter	1	+0%	30/15 Summer			80.965
1.006	12 15 Winter	1	+0%	30/15 Summer			80.922
1.007	13 15 Winter	1	+0%	30/15 Winter			80.856
4.000	14 15 Winter	1	+0%	100/15 Summer			81.349
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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for
NETWORK1-05.06.18.SWS

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Time (mins)	Pipe		Level Exceeded
		Depth (m)	Volume (m³)			Flow (l/s)	Status	
1.000	1	-0.162	0.000	0.17		8.1	OK	
1.001	2	-0.138	0.000	0.32		14.9	OK	
1.002	3	-0.138	0.000	0.32		17.7	OK	
1.003	4	-0.144	0.000	0.28		17.6	OK	
1.004	5	-0.126	0.000	0.40		24.6	OK	
2.000	6	-0.150	0.000	0.24		10.1	OK	4
2.001	7	-0.218	0.000	0.16		14.3	OK	
3.000	8	-0.117	0.000	0.46		17.0	OK	
2.002	9	-0.137	0.000	0.58		31.5	OK	
2.003	10	-0.137	0.000	0.57		31.3	OK	
1.005	11	-0.161	0.000	0.61		56.1	OK	
1.006	12	-0.164	0.000	0.61		57.5	OK	
1.007	13	-0.182	0.000	0.51		71.3	OK	
4.000	14	-0.180	0.000	0.09		4.6	OK	

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for
NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
4.001	15	15 Winter	1	+0%	100/15 Summer				81.048
4.002	16	15 Winter	1	+0%	100/15 Summer				80.918
4.003	17	15 Winter	1	+0%	100/15 Summer	100/15 Winter			80.648
5.000	18	15 Winter	1	+0%	100/15 Summer				81.295
5.001	19	15 Winter	1	+0%	100/15 Summer				81.014
1.008	20	15 Winter	1	+0%	100/15 Summer				80.532
1.009	21	15 Winter	1	+0%	100/15 Summer				79.803
6.000	22	15 Winter	1	+0%	100/15 Summer				79.921
6.001	23	15 Winter	1	+0%	100/15 Summer				79.825
6.002	24	15 Winter	1	+0%	30/15 Summer				79.793
6.003	25	15 Winter	1	+0%	30/15 Winter				79.589
6.004	26	15 Winter	1	+0%	30/15 Winter				79.520
7.000	27	15 Winter	1	+0%	100/15 Summer				79.966
7.001	28	15 Winter	1	+0%	100/15 Summer				79.736
1.010	29	15 Winter	1	+0%	30/15 Winter				79.311
1.011	30	15 Winter	1	+0%	30/15 Summer	100/15 Summer			78.807
8.000	31	15 Winter	1	+0%	30/15 Summer				79.062
8.001	32	15 Winter	1	+0%	30/15 Summer				78.926
1.012	33	15 Winter	1	+0%	30/15 Summer				78.757
9.000	34	15 Winter	1	+0%	100/15 Summer				82.585
10.000	35	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.806
10.001	36	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.699
9.001	37	15 Winter	1	+0%	30/15 Summer	100/15 Winter			81.587
9.002	38	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.342
9.003	39	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.059
9.004	40	15 Winter	1	+0%	30/15 Summer	100/15 Summer			80.678
9.005	41	15 Winter	1	+0%	30/15 Winter	100/15 Winter			80.356
11.000	42a	15 Winter	1	+0%	100/15 Summer				82.563
11.001	42	15 Winter	1	+0%	100/15 Summer	100/15 Winter			82.304
11.002	43	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.678
11.003	44	15 Winter	1	+0%	30/15 Summer	100/15 Summer			81.425
12.000	45	15 Winter	1	+0%	30/15 Summer				80.897
11.004	46	15 Winter	1	+0%	30/15 Summer				80.845
11.005	47	15 Winter	1	+0%	30/15 Summer	100/15 Summer			80.654
13.000	48	15 Winter	1	+0%	100/15 Summer				81.848
13.001	49	15 Winter	1	+0%	100/15 Summer				81.682
13.002	50	15 Winter	1	+0%	100/15 Summer				81.460
13.003	51	15 Winter	1	+0%	100/15 Summer				81.294
13.004	52	15 Winter	1	+0%	100/15 Summer				81.143
11.006	53	15 Winter	1	+0%	30/15 Summer				80.500
11.007	54	15 Winter	1	+0%	30/15 Summer				80.421
11.008	55	15 Winter	1	+0%	30/15 Summer	100/15 Summer			80.320
11.009	56	15 Winter	1	+0%	30/15 Summer	100/15 Summer			80.215

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for NETWORK1-05.06.18.SWS									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
4.001	15	-0.180	0.000	0.09			4.7	OK	
4.002	16	-0.150	0.000	0.24			12.7	OK	
4.003	17	-0.195	0.000	0.26			19.1	OK	1
5.000	18	-0.185	0.000	0.07			4.3	OK	
5.001	19	-0.152	0.000	0.23			11.9	OK	
1.008	20	-0.204	0.000	0.43			108.4	OK	
1.009	21	-0.267	0.000	0.35			122.9	OK	
6.000	22	-0.182	0.000	0.08			3.0	OK	
6.001	23	-0.178	0.000	0.08			3.0	OK	
6.002	24	-0.120	0.000	0.44			17.0	OK	
6.003	25	-0.193	0.000	0.28			18.5	OK	
6.004	26	-0.172	0.000	0.37			24.4	OK	
7.000	27	-0.183	0.000	0.08			3.6	OK	
7.001	28	-0.156	0.000	0.20			9.5	OK	
1.010	29	-0.310	0.000	0.35			157.5	OK	
1.011	30	-0.293	0.000	0.51			167.1	OK	4
8.000	31	-0.185	0.000	0.30			21.6	OK	
8.001	32	-0.171	0.000	0.39			25.5	OK	
1.012	33	-0.266	0.000	0.37			190.8	OK	
9.000	34	-0.173	0.000	0.12			9.1	OK	
10.000	35	-0.177	0.000	0.10			3.7	OK	6
10.001	36	-0.120	0.000	0.44			16.1	OK	4
9.001	37	-0.102	0.000	0.58			26.9	OK	1
9.002	38	-0.165	0.000	0.41			41.3	OK	5
9.003	39	-0.153	0.000	0.48			54.2	OK	6
9.004	40	-0.137	0.000	0.57			62.8	OK	6
9.005	41	-0.162	0.000	0.43			72.7	OK	1
11.000	42a	-0.170	0.000	0.14			8.8	OK	
11.001	42	-0.146	0.000	0.26			14.9	OK	1
11.002	43	-0.121	0.000	0.44			24.9	OK	4
11.003	44	-0.129	0.000	0.38			30.9	OK	4
12.000	45	-0.190	0.000	0.06			1.9	OK	
11.004	46	-0.177	0.000	0.35			35.1	OK	
11.005	47	-0.129	0.000	0.61			42.3	OK	6
13.000	48	-0.167	0.000	0.15			7.7	OK	
13.001	49	-0.161	0.000	0.17			9.1	OK	
13.002	50	-0.154	0.000	0.22			10.9	OK	
13.003	51	-0.154	0.000	0.22			10.9	OK	
13.004	52	-0.145	0.000	0.28			19.5	OK	
11.006	53	-0.171	0.000	0.57			61.5	OK	
11.007	54	-0.179	0.000	0.54			63.8	OK	
11.008	55	-0.179	0.000	0.53			63.6	OK	6
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Micro
Drainage

PN	US/MH Name	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)		
11.009	56	-0.179	0.000	0.53			62.9	OK	4



Micro
Drainage

NETWORK1-05.06.18.SWS

									Water
	US/MH			Return	Climate	First (X)	First (Y)	First (Z)	Overflow
PN	Name	Storm	Period	Change		Surcharge	Flood	Overflow	Act.
11.010	57	15 Winter		1	+0%	30/15 Summer			80.124
11.011	58	15 Winter		1	+0%	30/15 Summer			79.997
9.006	59	15 Winter		1	+0%	30/15 Summer	100/15 Summer		79.829
9.007	60	15 Winter		1	+0%	30/15 Summer			79.381
9.008	61	15 Winter		1	+0%	30/15 Summer			79.080
1.013	62	15 Winter		1	+0%	30/15 Summer			78.701
1.014	63	15 Winter		1	+0%	30/15 Summer			78.648
1.015	64	15 Winter		1	+0%	30/15 Summer			78.604
1.016	65	15 Winter		1	+0%	30/15 Summer			78.472
1.017	66	60 Summer		1	+0%	30/15 Summer			78.338
1.018	67	240 Winter		1	+0%	30/120 Winter			77.938
1.019	68	240 Winter		1	+0%	30/60 Winter			77.897
1.020	69	240 Winter		1	+0%	30/15 Winter			77.893

PN	US/MH	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
	Name	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)		
11.010	57	-0.173	0.000	0.56			68.9	OK	
11.011	58	-0.161	0.000	0.62			72.7	OK	
9.006	59	-0.231	0.000	0.47			138.4	OK	4
9.007	60	-0.222	0.000	0.51			141.2	OK	
9.008	61	-0.239	0.000	0.45			151.3	OK	
1.013	62	-0.197	0.000	0.68			321.6	OK	
1.014	63	-0.176	0.000	0.71			319.3	OK	
1.015	64	-0.163	0.000	1.10			319.7	OK	
1.016	65	-0.276	0.000	0.72			326.6	OK	
1.017	66	0.000	0.000	1.17			278.1	OK	
1.018	67	-0.369	0.000	0.38			71.6	OK	
1.019	68	-0.388	0.000	0.21			71.3	OK	
1.020	69	-0.077	0.000	0.76			71.3	OK	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)																																																																																																																																																		
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
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PN	US/MH Name	Surcharged		Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow / Overflow Cap. (l/s)					
1.000	1	-0.123	0.000	0.41				19.8	OK	
1.001	2	-0.063	0.000	0.84				39.7	OK	
1.002	3	-0.061	0.000	0.86				48.4	OK	
1.003	4	-0.070	0.000	0.76				48.0	OK	
1.004	5	0.033	0.000	1.08				66.8	SURCHARGED	
2.000	6	-0.004	0.000	0.59				24.7	OK	4
2.001	7	0.090	0.000	0.38				33.6	SURCHARGED	
3.000	8	0.086	0.000	0.53				19.4	SURCHARGED	
2.002	9	0.169	0.000	0.87				47.8	SURCHARGED	
2.003	10	0.125	0.000	0.90				49.6	SURCHARGED	
1.005	11	0.078	0.000	1.17				107.2	SURCHARGED	
1.006	12	0.036	0.000	1.17				110.5	SURCHARGED	
1.007	13	0.000	0.000	1.01				140.5	SURCHARGED	
4.000	14	-0.154	0.000	0.21				11.4	OK	

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<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)</u> <u>for NETWORK1-05.06.18.SWS</u>									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
4.001	15	15 Winter	30	+0%	100/15 Summer				81.075
4.002	16	15 Winter	30	+0%	100/15 Summer				80.981
4.003	17	15 Winter	30	+0%	100/15 Summer	100/15 Winter			80.743
5.000	18	15 Winter	30	+0%	100/15 Summer				81.319
5.001	19	15 Winter	30	+0%	100/15 Summer				81.074
1.008	20	15 Winter	30	+0%	100/15 Summer				80.661
1.009	21	15 Winter	30	+0%	100/15 Summer				79.940
6.000	22	15 Winter	30	+0%	100/15 Summer				79.988
6.001	23	15 Winter	30	+0%	100/15 Summer				79.976
6.002	24	15 Winter	30	+0%	30/15 Summer				79.967
6.003	25	15 Winter	30	+0%	30/15 Winter				79.884
6.004	26	15 Winter	30	+0%	30/15 Winter				79.803
7.000	27	15 Winter	30	+0%	100/15 Summer				79.991
7.001	28	15 Winter	30	+0%	100/15 Summer				79.790
1.010	29	15 Winter	30	+0%	30/15 Winter				79.722
1.011	30	15 Winter	30	+0%	30/15 Summer	100/15 Summer			79.492
8.000	31	15 Winter	30	+0%	30/15 Summer				79.590
8.001	32	15 Winter	30	+0%	30/15 Summer				79.503
1.012	33	15 Winter	30	+0%	30/15 Summer				79.421
9.000	34	15 Winter	30	+0%	100/15 Summer				82.617
10.000	35	15 Winter	30	+0%	30/15 Summer	100/15 Summer			82.096
10.001	36	15 Winter	30	+0%	30/15 Summer	100/15 Summer			82.082
9.001	37	15 Winter	30	+0%	30/15 Summer	100/15 Winter			81.970
9.002	38	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.710
9.003	39	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.465
9.004	40	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.000
9.005	41	15 Winter	30	+0%	30/15 Winter	100/15 Winter			80.594
11.000	42a	15 Winter	30	+0%	100/15 Summer				82.598
11.001	42	15 Winter	30	+0%	100/15 Summer	100/15 Winter			82.367
11.002	43	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.930
11.003	44	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.658
12.000	45	15 Winter	30	+0%	30/15 Summer				81.257
11.004	46	15 Winter	30	+0%	30/15 Summer				81.253
11.005	47	15 Winter	30	+0%	30/15 Summer	100/15 Summer			81.127
13.000	48	15 Winter	30	+0%	100/15 Summer				81.884
13.001	49	15 Winter	30	+0%	100/15 Summer				81.724
13.002	50	15 Winter	30	+0%	100/15 Summer				81.511
13.003	51	15 Winter	30	+0%	100/15 Summer				81.345
13.004	52	15 Winter	30	+0%	100/15 Summer				81.214
11.006	53	15 Winter	30	+0%	30/15 Summer				80.977
11.007	54	15 Winter	30	+0%	30/15 Summer				80.891
11.008	55	15 Winter	30	+0%	30/15 Summer	100/15 Summer			80.789
11.009	56	15 Winter	30	+0%	30/15 Summer	100/15 Summer			80.685
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for NETWORK1-05.06.18.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
11.009	56	0.291	0.000	1.08		127.4	SURCHARGED	4

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
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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 Coefficient	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 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region England and Wales Cv (Summer)			0.750
M5-60 (mm)	18.500 Cv (Winter)		0.840

Margin for Flood Risk Warning (mm)

300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status

OFF

DVD Status

ON

Inertia Status

ON

Profile(s)

Summer and Winter

Duration(s) (mins)

15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960

Return Period(s) (years)

1, 30, 100

Climate Change (%)

0, 0, 50

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1 15	Winter	100	+50%	100/15	Summer			84.081
1.001	2 15	Winter	100	+50%	100/15	Summer			83.983
1.002	3 15	Winter	100	+50%	100/15	Summer			83.712
1.003	4 15	Winter	100	+50%	100/15	Summer			83.196
1.004	5 15	Winter	100	+50%	30/15	Summer			82.966
2.000	6 15	Winter	100	+50%	100/15	Summer	100/15	Summer	82.702
2.001	7 15	Winter	100	+50%	30/15	Summer			82.711
3.000	8 15	Winter	100	+50%	30/15	Summer			82.767
2.002	9 15	Winter	100	+50%	30/15	Summer			82.704
2.003	10 15	Winter	100	+50%	30/15	Summer			82.647
1.005	11 15	Winter	100	+50%	30/15	Summer			82.583
1.006	12 15	Winter	100	+50%	30/15	Summer			82.493
1.007	13 15	Winter	100	+50%	30/15	Winter			82.405
4.000	14 15	Winter	100	+50%	100/15	Summer			82.209

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for NETWORK1-05.06.18.SWS

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)					
1.000	1	0.531	0.000	0.64		30.5	SURCHARGED	
1.001	2	0.684	0.000	1.20		56.9	SURCHARGED	
1.002	3	0.622	0.000	1.19		66.6	SURCHARGED	
1.003	4	0.508	0.000	1.02		64.6	SURCHARGED	
1.004	5	0.523	0.000	1.53		94.3	SURCHARGED	
2.000	6	1.204	4.157	1.00		42.1	FLOOD	4
2.001	7	1.353	0.000	0.57		50.3	FLOOD RISK	
3.000	8	1.432	0.000	0.73		26.8	SURCHARGED	
2.002	9	1.500	0.000	1.51		82.5	SURCHARGED	
2.003	10	1.481	0.000	1.70		93.6	SURCHARGED	
1.005	11	1.457	0.000	1.59		145.1	SURCHARGED	
1.006	12	1.408	0.000	1.65		156.1	SURCHARGED	
1.007	13	1.367	0.000	1.24		172.7	SURCHARGED	
4.000	14	0.680	0.000	0.37		19.9	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for NETWORK1-05.06.18.SWS									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
4.001	15	15 Winter	100	+50%	100/15 Summer				82.179
4.002	16	15 Winter	100	+50%	100/15 Summer				82.163
4.003	17	15 Winter	100	+50%	100/15 Summer	100/15 Winter			82.043
5.000	18	15 Winter	100	+50%	100/15 Summer				82.176
5.001	19	15 Winter	100	+50%	100/15 Summer				82.153
1.008	20	15 Winter	100	+50%	100/15 Summer				81.962
1.009	21	15 Winter	100	+50%	100/15 Summer				81.184
6.000	22	15 Winter	100	+50%	100/15 Summer				81.249
6.001	23	15 Winter	100	+50%	100/15 Summer				81.235
6.002	24	15 Winter	100	+50%	30/15 Summer				81.223
6.003	25	15 Winter	100	+50%	30/15 Winter				80.984
6.004	26	15 Winter	100	+50%	30/15 Winter				80.891
7.000	27	15 Winter	100	+50%	100/15 Summer				80.943
7.001	28	15 Winter	100	+50%	100/15 Summer				80.914
1.010	29	15 Winter	100	+50%	30/15 Winter				80.799
1.011	30	30 Winter	100	+50%	30/15 Summer	100/15 Summer			80.316
8.000	31	15 Winter	100	+50%	30/15 Summer				80.556
8.001	32	15 Winter	100	+50%	30/15 Summer				80.367
1.012	33	15 Winter	100	+50%	30/15 Summer				80.220
9.000	34	15 Winter	100	+50%	100/15 Summer				83.492
10.000	35	30 Winter	100	+50%	30/15 Summer	100/15 Summer			83.191
10.001	36	15 Winter	100	+50%	30/15 Summer	100/15 Summer			83.248
9.001	37	15 Winter	100	+50%	30/15 Summer	100/15 Winter			83.209
9.002	38	15 Winter	100	+50%	30/15 Summer	100/15 Summer			82.847
9.003	39	30 Winter	100	+50%	30/15 Summer	100/15 Summer			82.550
9.004	40	30 Winter	100	+50%	30/15 Summer	100/15 Summer			82.106
9.005	41	15 Winter	100	+50%	30/15 Winter	100/15 Winter			81.777
11.000	42a	15 Winter	100	+50%	100/15 Summer				83.745
11.001	42	15 Winter	100	+50%	100/15 Summer	100/15 Winter			83.651
11.002	43	15 Winter	100	+50%	30/15 Summer	100/15 Summer			83.030
11.003	44	15 Winter	100	+50%	30/15 Summer	100/15 Summer			82.757
12.000	45	15 Winter	100	+50%	30/15 Summer				82.283
11.004	46	15 Winter	100	+50%	30/15 Summer				82.263
11.005	47	30 Winter	100	+50%	30/15 Summer	100/15 Summer			82.014
13.000	48	15 Winter	100	+50%	100/15 Summer				82.533
13.001	49	15 Winter	100	+50%	100/15 Summer				82.484
13.002	50	30 Winter	100	+50%	100/15 Summer				82.418
13.003	51	30 Winter	100	+50%	100/15 Summer				82.330
13.004	52	15 Winter	100	+50%	100/15 Summer				82.254
11.006	53	15 Winter	100	+50%	30/15 Summer				81.918
11.007	54	15 Winter	100	+50%	30/15 Summer				81.832
11.008	55	30 Winter	100	+50%	30/15 Summer	100/15 Summer			81.711
11.009	56	15 Winter	100	+50%	30/15 Summer	100/15 Summer			81.651
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for NETWORK1-05.06.18.SWS

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
4.001	15	0.951	0.000	0.37			19.4	FLOOD RISK	
4.002	16	1.095	0.000	0.93			49.1	FLOOD RISK	
4.003	17	1.200	0.081	1.00			72.4	FLOOD	1
5.000	18	0.696	0.000	0.31			18.7	SURCHARGED	
5.001	19	0.987	0.000	0.93			48.5	FLOOD RISK	
1.008	20	1.227	0.000	1.09			274.9	FLOOD RISK	
1.009	21	1.114	0.000	0.92			326.6	FLOOD RISK	
6.000	22	1.146	0.000	0.26			9.9	SURCHARGED	
6.001	23	1.232	0.000	0.35			12.9	FLOOD RISK	
6.002	24	1.311	0.000	1.61			61.6	FLOOD RISK	
6.003	25	1.202	0.000	0.86			57.6	FLOOD RISK	
6.004	26	1.199	0.000	1.18			77.3	FLOOD RISK	
7.000	27	0.794	0.000	0.32			14.8	SURCHARGED	
7.001	28	1.022	0.000	0.77			36.3	FLOOD RISK	
1.010	29	1.177	0.000	0.96			432.1	FLOOD RISK	
1.011	30	1.216	15.347	1.48			482.0	FLOOD	4
8.000	31	1.309	0.000	1.10			78.3	FLOOD RISK	
8.001	32	1.271	0.000	1.41			92.4	FLOOD RISK	
1.012	33	1.197	0.000	1.02			531.7	FLOOD RISK	
9.000	34	0.734	0.000	0.49			37.9	SURCHARGED	
10.000	35	1.208	8.588	0.82			30.7	FLOOD	6
10.001	36	1.429	3.808	1.40			51.1	FLOOD	4
9.001	37	1.520	0.023	1.65			76.9	FLOOD	1
9.002	38	1.340	5.572	1.01			101.6	FLOOD	5
9.003	39	1.338	9.235	1.15			131.0	FLOOD	6
9.004	40	1.291	7.336	1.42			156.9	FLOOD	6
9.005	41	1.259	0.033	1.10			186.9	FLOOD	1
11.000	42a	1.012	0.000	0.51			32.9	FLOOD RISK	
11.001	42	1.201	0.020	0.96			54.5	FLOOD	1
11.002	43	1.231	5.789	1.29			73.9	FLOOD	4
11.003	44	1.203	0.830	1.09			88.1	FLOOD	4
12.000	45	1.196	0.000	0.50			16.8	FLOOD RISK	
11.004	46	1.241	0.000	1.00			99.1	FLOOD RISK	
11.005	47	1.231	22.353	1.43			98.5	FLOOD	6
13.000	48	0.518	0.000	0.64			33.4	SURCHARGED	
13.001	49	0.641	0.000	0.74			38.4	SURCHARGED	
13.002	50	0.804	0.000	0.69			34.8	SURCHARGED	
13.003	51	0.882	0.000	0.63			31.7	SURCHARGED	
13.004	52	0.966	0.000	0.91			64.2	FLOOD RISK	
11.006	53	1.247	0.000	1.42			152.2	FLOOD RISK	
11.007	54	1.232	0.000	1.31			155.0	FLOOD RISK	
11.008	55	1.211	10.997	1.11			132.3	FLOOD	6

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