



Date 29/09/2021 09:58

Designed by WillGarrett

File 16153 - All Networks_RECOVER...

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Innovyze

Network 2018.1

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153 NET
2 SWS.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 8 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
S1.000	S1	15 Winter	1	+0%	100/15 Summer	100/15 Winter			93.056	-0.194
S2.000	S2	15 Winter	1	+0%	30/15 Summer	100/15 Summer			92.998	-0.141
S2.001	S3	15 Winter	1	+0%	30/15 Summer	100/15 Summer			92.881	-0.116
S2.002	S4	15 Winter	1	+0%	30/15 Summer	100/15 Summer			92.803	-0.102
S1.001	S5	15 Winter	1	+0%	100/15 Summer	100/15 Summer			92.512	-0.259
S3.000	S6	15 Winter	1	+0%	100/15 Summer	100/15 Summer			92.487	-0.213
S3.001	S7	15 Winter	1	+0%	30/15 Summer				92.338	-0.181
S3.002	S8	15 Winter	1	+0%	30/15 Summer				92.179	-0.229
S3.003	S9	15 Winter	1	+0%	30/15 Summer				92.108	-0.225
S1.002	S10	15 Winter	1	+0%	30/15 Summer	100/15 Winter			92.069	-0.207
S1.003	S11	15 Winter	1	+0%	30/15 Summer				92.009	-0.219
S4.000	S12	15 Winter	1	+0%	100/15 Summer				92.289	-0.291
S4.001	S13	15 Winter	1	+0%	100/15 Summer				92.122	-0.283
S1.004	S14	15 Winter	1	+0%	100/15 Summer	100/15 Winter			91.725	-0.290
S1.005	S15	15 Winter	1	+0%	30/15 Winter				91.275	-0.280
S5.000	S16	15 Winter	1	+0%	100/15 Summer				91.497	-0.328
S5.001	S17	15 Winter	1	+0%	100/15 Summer				91.359	-0.296
S5.002	S18	15 Winter	1	+0%	100/15 Summer				91.007	-0.268
S1.006	S19	15 Winter	1	+0%	30/15 Summer				90.826	-0.265
S1.007	S20	15 Winter	1	+0%	30/15 Summer	100/15 Winter			90.205	-0.249
S1.008	S21	15 Winter	1	+0%					89.741	-0.685
S1.009	S22	15 Winter	1	+0%	30/15 Summer				89.544	-0.256
S6.000	S23	30 Winter	1	+0%					89.459	-1.441
S6.001	S24	30 Winter	1	+0%	30/15 Summer				89.459	-0.049
S1.010	S25	960 Winter	1	+0%	30/240 Winter				89.410	-0.271
S7.000	S26	15 Winter	1	+0%	100/15 Summer				91.960	-0.240
S8.000	SPP	15 Winter	1	+0%	30/15 Summer	100/30 Winter			92.870	-0.080
S8.001	SOR	15 Winter	1	+0%	30/15 Summer				92.867	-0.045
S7.001	S27	15 Winter	1	+0%	100/15 Summer				91.775	-0.282

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2 SWS.SWS

PN	US/MH Name	Flooded		Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)		
S1.000	S1	0.000	0.26		27.7	OK	1
S2.000	S2	0.000	0.29		11.1	OK	2
S2.001	S3	0.000	0.47		17.5	OK	4
S2.002	S4	0.000	0.58		22.3	OK	4
S1.001	S5	0.000	0.21		57.7	OK	2
S3.000	S6	0.000	0.18		14.0	OK	2
S3.001	S7	0.000	0.33		25.0	OK	
S3.002	S8	0.000	0.31		28.6	OK	
S3.003	S9	0.000	0.31		30.7	OK	
S1.002	S10	0.000	0.56		86.7	OK	1
S1.003	S11	0.000	0.50		94.0	OK	
S4.000	S12	0.000	0.11		14.8	OK	
S4.001	S13	0.000	0.14		27.2	OK	
S1.004	S14	0.000	0.41		148.0	OK	1
S1.005	S15	0.000	0.44		158.6	OK	
S5.000	S16	0.000	0.04		6.0	OK	
S5.001	S17	0.000	0.10		16.3	OK	
S5.002	S18	0.000	0.18		29.0	OK	
S1.006	S19	0.000	0.48		178.8	OK	
S1.007	S20	0.000	0.54		192.9	OK	2
S1.008	S21	0.000	0.09		191.4	OK	
S1.009	S22	0.000	0.63		190.4	OK*	
S6.000	S23	0.000	0.00		5.5	OK	
S6.001	S24	0.000	0.05		4.9	OK	
S1.010	S25	0.000	0.02		5.0	OK	
S7.000	S26	0.000	0.09		7.0	OK	
S8.000	SPP	0.000	0.34		20.8	OK	2
S8.001	SOR	0.000	0.10		9.4	OK	
S7.001	S27	0.000	0.14		32.6	OK	



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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153 NET
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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)
S9.000	S28	15	Winter	1	+0%	100/15	Summer		92.757
S9.001	S29	15	Winter	1	+0%	100/15	Summer		92.581
S9.002	S30	15	Winter	1	+0%	100/15	Summer		92.482
S9.003	S31	15	Winter	1	+0%	100/15	Summer		92.320
S9.004	S33	15	Winter	1	+0%	100/15	Summer		91.703
S9.005	S34	15	Winter	1	+0%	100/15	Summer		91.190
S7.002	S35	15	Winter	1	+0%	100/15	Summer		90.785
S10.000	S36	15	Winter	1	+0%	100/15	Summer		92.199
S10.001	S37	15	Winter	1	+0%	100/15	Summer		91.393
S7.003	S38	15	Winter	1	+0%	30/15	Summer		90.500
S7.004	S39	15	Winter	1	+0%	30/15	Summer		90.394
S7.005	S40	15	Winter	1	+0%	30/15	Winter		90.124
S7.006	S41	15	Winter	1	+0%	30/15	Summer		90.077
S7.007	S42	1440	Winter	1	+0%	100/240	Summer		89.812
S11.000	S45	15	Winter	1	+0%	30/15	Summer		90.622
S11.001	S46	15	Winter	1	+0%	30/15	Summer	100/15 Summer	90.435
S11.002	S47	15	Winter	1	+0%	30/15	Summer		90.316
S11.003	S48	15	Winter	1	+0%	30/15	Summer		90.187
S11.004	S49	15	Winter	1	+0%	30/15	Summer		90.009
S12.000	S50	15	Winter	1	+0%	100/15	Summer	100/15 Summer	91.881
S12.001	S51	15	Winter	1	+0%	30/15	Summer	100/15 Summer	91.341
S12.002	S52	15	Winter	1	+0%	30/15	Summer	100/15 Winter	91.063
S13.000	S53	15	Winter	1	+0%	30/15	Summer	100/15 Summer	91.274
S13.001	S54	15	Winter	1	+0%	100/15	Summer		90.716
S13.002	S55	15	Winter	1	+0%	30/15	Winter		90.609
S13.003	S56	15	Winter	1	+0%	30/15	Summer		90.261
S13.004	S57	15	Winter	1	+0%	30/15	Summer	100/15 Summer	89.932
S13.005	S58	15	Winter	1	+0%	30/15	Summer		89.828
S13.006	S59	1440	Winter	1	+0%	30/15	Summer		89.812
S13.007	S60	1440	Winter	1	+0%	1/960	Summer		89.813
S14.000	S61	15	Winter	1	+0%	30/15	Summer	100/15 Summer	89.920
S7.008	S62	1440	Winter	1	+0%	1/240	Summer		89.812
S7.009	S63	15	Winter	1	+0%	30/1440	Winter		89.272
S7.010	S64	1440	Winter	1	+0%	30/960	Winter		89.199
S15.000	S65	1440	Winter	1	+0%	1/480	Winter		89.199
S1.011	S66	1440	Winter	1	+0%	1/360	Winter		89.199
S1.012	S67	1440	Winter	1	+0%				89.199
S1.013	S68	1440	Winter	1	+0%	1/120	Summer		89.198
S16.000	S69	15	Winter	1	+0%				89.391
S16.001	S70	15	Winter	1	+0%	100/15	Summer		88.840
S16.002	S71	15	Winter	1	+0%	30/30	Winter		88.429
S16.003	S72	60	Winter	1	+0%	30/15	Summer		88.416
S16.004	S73	60	Winter	1	+0%	30/15	Summer		88.412
S16.005	S74	60	Winter	1	+0%	30/15	Summer		88.409
S17.000	S75	15	Winter	1	+0%	30/15	Summer		88.566
S17.001	S76	15	Winter	1	+0%	30/15	Summer		88.455
S17.002	S77	60	Winter	1	+0%	30/15	Summer		88.425
S17.003	S78	60	Winter	1	+0%	30/15	Summer		88.417
S17.004	S79	60	Winter	1	+0%	30/15	Summer		88.410
S1.014	S80	60	Winter	1	+0%				88.405
S1.015	S81	60	Winter	1	+0%				88.404
S1.016	S82	120	Winter	1	+0%				88.239
S1.017	S83	120	Winter	1	+0%	1/120	Winter		88.054



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2 SWS.SWS

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m ³)			Flow (l/s)		
S9.000	S28	-0.218	0.000	0.17		15.9	OK	
S9.001	S29	-0.212	0.000	0.18		15.7	OK	
S9.002	S30	-0.194	0.000	0.27		24.2	OK	
S9.003	S31	-0.182	0.000	0.32		33.7	OK	
S9.004	S33	-0.254	0.000	0.23		43.6	OK	
S9.005	S34	-0.307	0.000	0.22		58.9	OK	
S7.002	S35	-0.405	0.000	0.23		112.9	OK	
S10.000	S36	-0.201	0.000	0.23		26.3	OK	
S10.001	S37	-0.262	0.000	0.19		51.0	OK	
S7.003	S38	-0.296	0.000	0.51		176.5	OK	
S7.004	S39	-0.288	0.000	0.52		187.2	OK	
S7.005	S40	-0.320	0.000	0.33		197.6	OK	
S7.006	S41	0.000	0.000	1.13		196.6	OK	
S7.007	S42	-0.533	0.000	0.02		15.2	OK	
S11.000	S45	-0.148	0.000	0.25		10.0	OK	
S11.001	S46	-0.087	0.000	0.69		21.3	OK	2
S11.002	S47	-0.159	0.000	0.45		33.6	OK	
S11.003	S48	-0.199	0.000	0.44		46.5	OK	
S11.004	S49	-0.196	0.000	0.46		49.5	OK	
S12.000	S50	-0.144	0.000	0.27		13.1	OK	2
S12.001	S51	-0.174	0.000	0.36		29.3	OK	2
S12.002	S52	-0.155	0.000	0.47		39.6	OK	1
S13.000	S53	-0.076	0.000	0.48		10.4	OK	4
S13.001	S54	-0.134	0.000	0.34		14.5	OK	
S13.002	S55	-0.148	0.000	0.25		18.6	OK	
S13.003	S56	-0.196	0.000	0.26		28.3	OK	
S13.004	S57	-0.168	0.000	0.40		36.0	OK	4
S13.005	S58	-0.142	0.000	0.54		38.4	OK	
S13.006	S59	-0.007	0.000	0.04		2.9	OK	
S13.007	S60	0.100	0.000	0.05		3.1	SURCHARGED	
S14.000	S61	-0.030	0.000	0.97		15.8	OK	4
S7.008	S62	0.212	0.000	0.02		0.9	SURCHARGED	
S7.009	S63	-0.252	0.000	0.06		3.3	OK	
S7.010	S64	-0.282	0.000	0.01		2.1	OK	
S15.000	S65	0.144	0.000	0.03		0.9	SURCHARGED	
S1.011	S66	0.239	0.000	0.04		8.4	SURCHARGED	
S1.012	S67	-1.101	0.000	0.00		8.9	OK	
S1.013	S68	0.487	0.000	0.02		4.4	SURCHARGED	
S16.000	S69	-0.179	0.000	0.09		4.8	OK	
S16.001	S70	-0.401	0.000	0.03		10.2	OK	
S16.002	S71	-0.334	0.000	0.15		24.5	OK	
S16.003	S72	-0.185	0.000	0.12		20.1	OK	
S16.004	S73	-0.079	0.000	0.22		27.5	OK	
S16.005	S74	-0.051	0.000	0.20		29.0	OK	
S17.000	S75	-0.196	0.000	0.25		14.9	OK	
S17.001	S76	-0.155	0.000	0.44		22.8	OK	
S17.002	S77	-0.141	0.000	0.29		16.7	OK	
S17.003	S78	-0.061	0.000	0.33		17.6	OK	
S17.004	S79	-0.018	0.000	0.31		16.2	OK	
S1.014	S80	-1.195	0.000	0.01		44.2	OK	
S1.015	S81	-1.196	0.000	0.00		28.0	OK	
S1.016	S82	-1.081	0.000	0.00		17.1	OK	
S1.017	S83	0.003	0.000	0.26		14.2	SURCHARGED	



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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 8 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
S1.000	S1	15 Winter	30	+0%	100/15 Summer	100/15 Winter			93.129	-0.121
S2.000	S2	15 Winter	30	+0%	30/15 Summer	100/15 Summer			93.224	0.085
S2.001	S3	15 Winter	30	+0%	30/15 Summer	100/15 Summer			93.159	0.162
S2.002	S4	15 Winter	30	+0%	30/15 Summer	100/15 Summer			93.038	0.133
S1.001	S5	15 Winter	30	+0%	100/15 Summer	100/15 Summer			92.591	-0.180
S3.000	S6	15 Winter	30	+0%	100/15 Summer	100/15 Summer			92.640	-0.060
S3.001	S7	15 Winter	30	+0%	30/15 Summer				92.601	0.082
S3.002	S8	15 Winter	30	+0%	30/15 Summer				92.539	0.131
S3.003	S9	15 Winter	30	+0%	30/15 Summer				92.496	0.163
S1.002	S10	15 Winter	30	+0%	30/15 Summer	100/15 Winter			92.461	0.185
S1.003	S11	15 Winter	30	+0%	30/15 Summer				92.326	0.098
S4.000	S12	15 Winter	30	+0%	100/15 Summer				92.340	-0.240
S4.001	S13	15 Winter	30	+0%	100/15 Summer				92.190	-0.215
S1.004	S14	15 Winter	30	+0%	100/15 Summer	100/15 Winter			91.968	-0.047
S1.005	S15	15 Winter	30	+0%	30/15 Winter				91.590	0.036
S5.000	S16	15 Winter	30	+0%	100/15 Summer				91.527	-0.298
S5.001	S17	15 Winter	30	+0%	100/15 Summer				91.415	-0.240
S5.002	S18	15 Winter	30	+0%	100/15 Summer				91.189	-0.086
S1.006	S19	15 Winter	30	+0%	30/15 Summer				91.171	0.080
S1.007	S20	15 Winter	30	+0%	30/15 Summer	100/15 Winter			90.514	0.060
S1.008	S21	15 Winter	30	+0%					89.913	-0.514
S1.009	S22	15 Winter	30	+0%	30/15 Summer				89.832	0.032
S6.000	S23	960 Winter	30	+0%					89.810	-1.090
S6.001	S24	960 Winter	30	+0%	30/15 Summer				89.810	0.302
S1.010	S25	960 Winter	30	+0%	30/240 Winter				89.794	0.113
S7.000	S26	15 Winter	30	+0%	100/15 Summer				91.995	-0.205
S8.000	SPP	30 Winter	30	+0%	30/15 Summer	100/30 Winter			93.114	0.164
S8.001	SOR	30 Winter	30	+0%	30/15 Summer				93.109	0.197
S7.001	S27	15 Winter	30	+0%	100/15 Summer				91.837	-0.220



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NET 2 SWS.SWS

PN	US/MH Name	Flooded		Overflow (l/s)	Pipe	Status	Level Exceeded
		Volume (m ³)	Flow / Cap.		Flow (l/s)		
S1.000	S1	0.000	0.64		67.8	OK	1
S2.000	S2	0.000	0.67		25.8	SURCHARGED	2
S2.001	S3	0.000	1.13		41.9	SURCHARGED	4
S2.002	S4	0.000	1.42		54.6	SURCHARGED	4
S1.001	S5	0.000	0.52		143.6	OK	2
S3.000	S6	0.000	0.44		33.7	OK	2
S3.001	S7	0.000	0.76		57.3	SURCHARGED	
S3.002	S8	0.000	0.71		66.2	SURCHARGED	
S3.003	S9	0.000	0.74		73.7	SURCHARGED	
S1.002	S10	0.000	1.34		204.9	SURCHARGED	1
S1.003	S11	0.000	1.21		225.5	SURCHARGED	
S4.000	S12	0.000	0.27		36.3	OK	
S4.001	S13	0.000	0.37		73.0	OK	
S1.004	S14	0.000	0.96		347.7	OK	1
S1.005	S15	0.000	0.97		351.0	SURCHARGED	
S5.000	S16	0.000	0.09		14.8	OK	
S5.001	S17	0.000	0.27		46.0	OK	
S5.002	S18	0.000	0.52		84.8	OK	
S1.006	S19	0.000	1.01		376.5	SURCHARGED	
S1.007	S20	0.000	1.10		394.4	SURCHARGED	2
S1.008	S21	0.000	0.18		392.7	OK	
S1.009	S22	0.000	1.28		390.1	SURCHARGED*	
S6.000	S23	0.000	0.00		2.4	OK	
S6.001	S24	0.000	0.02		2.0	SURCHARGED	
S1.010	S25	0.000	0.02		5.0	SURCHARGED	
S7.000	S26	0.000	0.21		17.3	OK	
S8.000	SPP	0.000	0.68		41.9	FLOOD RISK	2
S8.001	SOR	0.000	0.15		13.9	FLOOD RISK	
S7.001	S27	0.000	0.35		80.5	OK	



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Network 2018.1

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 2 SWS.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S9.000	S28	15	Winter	30	+0%	100/15	Summer		92.809
S9.001	S29	15	Winter	30	+0%	100/15	Summer		92.637
S9.002	S30	15	Winter	30	+0%	100/15	Summer		92.567
S9.003	S31	15	Winter	30	+0%	100/15	Summer		92.427
S9.004	S33	15	Winter	30	+0%	100/15	Summer		91.802
S9.005	S34	15	Winter	30	+0%	100/15	Summer		91.307
S7.002	S35	15	Winter	30	+0%	100/15	Summer		91.136
S10.000	S36	15	Winter	30	+0%	100/15	Summer		92.265
S10.001	S37	15	Winter	30	+0%	100/15	Summer		91.476
S7.003	S38	15	Winter	30	+0%	30/15	Summer		91.011
S7.004	S39	15	Winter	30	+0%	30/15	Summer		90.834
S7.005	S40	15	Winter	30	+0%	30/15	Winter		90.467
S7.006	S41	1440	Winter	30	+0%	30/15	Summer		90.258
S7.007	S42	1440	Winter	30	+0%	100/240	Summer		90.258
S11.000	S45	15	Winter	30	+0%	30/15	Summer		90.810
S11.001	S46	15	Winter	30	+0%	30/15	Summer	100/15 Summer	90.730
S11.002	S47	15	Winter	30	+0%	30/15	Summer		90.588
S11.003	S48	15	Winter	30	+0%	30/15	Summer		90.475
S11.004	S49	1440	Winter	30	+0%	30/15	Summer		90.258
S12.000	S50	15	Winter	30	+0%	100/15	Summer	100/15 Summer	91.938
S12.001	S51	15	Winter	30	+0%	30/15	Summer	100/15 Summer	91.593
S12.002	S52	15	Winter	30	+0%	30/15	Summer	100/15 Winter	91.367
S13.000	S53	15	Winter	30	+0%	30/15	Summer	100/15 Summer	91.466
S13.001	S54	15	Winter	30	+0%	100/15	Summer		90.811
S13.002	S55	15	Winter	30	+0%	30/15	Winter		90.759
S13.003	S56	15	Winter	30	+0%	30/15	Summer		90.671
S13.004	S57	15	Winter	30	+0%	30/15	Summer	100/15 Summer	90.550
S13.005	S58	15	Winter	30	+0%	30/15	Summer		90.444
S13.006	S59	1440	Winter	30	+0%	30/15	Summer		90.258
S13.007	S60	1440	Winter	30	+0%	1/960	Summer		90.258
S14.000	S61	15	Winter	30	+0%	30/15	Summer	100/15 Summer	90.496
S7.008	S62	1440	Winter	30	+0%	1/240	Summer		90.258
S7.009	S63	1440	Winter	30	+0%	30/1440	Winter		89.547
S7.010	S64	1440	Winter	30	+0%	30/960	Winter		89.547
S15.000	S65	1440	Winter	30	+0%	1/480	Winter		89.547
S1.011	S66	1440	Winter	30	+0%	1/360	Winter		89.547
S1.012	S67	1440	Winter	30	+0%				89.546
S1.013	S68	1440	Winter	30	+0%	1/120	Summer		89.546
S16.000	S69	15	Winter	30	+0%				89.418
S16.001	S70	15	Winter	30	+0%	100/15	Summer		88.872
S16.002	S71	60	Winter	30	+0%	30/30	Winter		88.844
S16.003	S72	60	Winter	30	+0%	30/15	Summer		88.837
S16.004	S73	60	Winter	30	+0%	30/15	Summer		88.827
S16.005	S74	60	Winter	30	+0%	30/15	Summer		88.820
S17.000	S75	60	Winter	30	+0%	30/15	Summer		88.886
S17.001	S76	60	Winter	30	+0%	30/15	Summer		88.873
S17.002	S77	60	Winter	30	+0%	30/15	Summer		88.860
S17.003	S78	60	Winter	30	+0%	30/15	Summer		88.840
S17.004	S79	60	Winter	30	+0%	30/15	Summer		88.822
S1.014	S80	60	Winter	30	+0%				88.808
S1.015	S81	60	Winter	30	+0%				88.807
S1.016	S82	120	Winter	30	+0%				88.576
S1.017	S83	240	Winter	30	+0%	1/120	Winter		88.376



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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 2 SWS.SWS

PN	US/MH Name	Surcharged Flooded			Pipe	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)		
S9.000	S28	-0.166	0.000	0.41	39.0	OK	
S9.001	S29	-0.156	0.000	0.45	38.7	OK	
S9.002	S30	-0.109	0.000	0.71	63.5	OK	
S9.003	S31	-0.075	0.000	0.88	92.5	OK	
S9.004	S33	-0.155	0.000	0.63	122.0	OK	
S9.005	S34	-0.190	0.000	0.62	166.5	OK	
S7.002	S35	-0.054	0.000	0.56	278.3	OK	
S10.000	S36	-0.135	0.000	0.57	64.3	OK	
S10.001	S37	-0.179	0.000	0.52	136.9	OK	
S7.003	S38	0.215	0.000	1.23	427.8	SURCHARGED	
S7.004	S39	0.152	0.000	1.24	447.5	SURCHARGED	
S7.005	S40	0.023	0.000	0.78	471.8	SURCHARGED	
S7.006	S41	0.181	0.000	0.18	31.1	SURCHARGED	
S7.007	S42	-0.087	0.000	0.04	30.8	OK	
S11.000	S45	0.040	0.000	0.58	23.3	SURCHARGED	
S11.001	S46	0.208	0.000	1.73	53.4	SURCHARGED	2
S11.002	S47	0.114	0.000	1.17	86.7	SURCHARGED	
S11.003	S48	0.089	0.000	1.15	123.0	SURCHARGED	
S11.004	S49	0.053	0.000	0.06	6.8	SURCHARGED	
S12.000	S50	-0.087	0.000	0.66	32.1	OK	2
S12.001	S51	0.078	0.000	0.90	73.3	SURCHARGED	2
S12.002	S52	0.149	0.000	1.12	94.0	SURCHARGED	1
S13.000	S53	0.116	0.000	1.10	23.9	SURCHARGED	4
S13.001	S54	-0.039	0.000	0.81	34.6	OK	
S13.002	S55	0.002	0.000	0.63	46.7	SURCHARGED	
S13.003	S56	0.214	0.000	0.63	68.7	SURCHARGED	
S13.004	S57	0.450	0.000	0.91	82.0	SURCHARGED	4
S13.005	S58	0.474	0.000	1.23	87.4	SURCHARGED	
S13.006	S59	0.439	0.000	0.09	5.6	SURCHARGED	
S13.007	S60	0.545	0.000	0.11	6.4	SURCHARGED	
S14.000	S61	0.546	0.000	2.16	35.3	SURCHARGED	4
S7.008	S62	0.658	0.000	0.02	1.0	SURCHARGED	
S7.009	S63	0.023	0.000	0.02	1.3	SURCHARGED	
S7.010	S64	0.066	0.000	0.01	3.3	SURCHARGED	
S15.000	S65	0.492	0.000	0.07	1.9	SURCHARGED	
S1.011	S66	0.587	0.000	0.05	11.4	SURCHARGED	
S1.012	S67	-0.754	0.000	0.00	12.5	OK	
S1.013	S68	0.835	0.000	0.02	4.4	SURCHARGED	
S16.000	S69	-0.152	0.000	0.22	11.9	OK	
S16.001	S70	-0.369	0.000	0.07	28.5	OK	
S16.002	S71	0.081	0.000	0.20	33.2	SURCHARGED	
S16.003	S72	0.236	0.000	0.29	47.7	SURCHARGED	
S16.004	S73	0.336	0.000	0.57	72.7	SURCHARGED	
S16.005	S74	0.360	0.000	0.54	78.0	SURCHARGED	
S17.000	S75	0.124	0.000	0.29	17.6	SURCHARGED	
S17.001	S76	0.263	0.000	0.53	27.7	SURCHARGED	
S17.002	S77	0.294	0.000	0.61	34.9	SURCHARGED	
S17.003	S78	0.362	0.000	0.74	39.6	SURCHARGED	
S17.004	S79	0.394	0.000	0.74	38.9	SURCHARGED	
S1.014	S80	-0.792	0.000	0.01	115.1	OK	
S1.015	S81	-0.793	0.000	0.00	56.7	OK	
S1.016	S82	-0.744	0.000	0.00	23.9	OK	
S1.017	S83	0.325	0.000	0.26	14.5	SURCHARGED	



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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 2 SWS.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 8 Number of Storage Structures 3 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 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%	100/15 Summer	100/15 Winter			94.451
S2.000	S2	15 Winter	100	+40%	30/15 Summer	100/15 Summer			94.421
S2.001	S3	15 Winter	100	+40%	30/15 Summer	100/15 Summer			94.284
S2.002	S4	15 Winter	100	+40%	30/15 Summer	100/15 Summer			94.185
S1.001	S5	15 Winter	100	+40%	100/15 Summer	100/15 Summer			94.084
S3.000	S6	15 Winter	100	+40%	100/15 Summer	100/15 Summer			94.193
S3.001	S7	15 Winter	100	+40%	30/15 Summer				94.233
S3.002	S8	15 Winter	100	+40%	30/15 Summer				94.154
S3.003	S9	15 Winter	100	+40%	30/15 Summer				94.082
S1.002	S10	15 Winter	100	+40%	30/15 Summer	100/15 Winter			94.030
S1.003	S11	15 Winter	100	+40%	30/15 Summer				93.902
S4.000	S12	15 Winter	100	+40%	100/15 Summer				93.647
S4.001	S13	15 Winter	100	+40%	100/15 Summer				93.605
S1.004	S14	15 Winter	100	+40%	100/15 Summer	100/15 Winter			93.507
S1.005	S15	15 Winter	100	+40%	30/15 Winter				93.020
S5.000	S16	15 Winter	100	+40%	100/15 Summer				92.417
S5.001	S17	15 Winter	100	+40%	100/15 Summer				92.408
S5.002	S18	15 Winter	100	+40%	100/15 Summer				92.369
S1.006	S19	15 Winter	100	+40%	30/15 Summer				92.318
S1.007	S20	15 Winter	100	+40%	30/15 Summer	100/15 Winter			90.977
S1.008	S21	1440 Winter	100	+40%					90.280
S1.009	S22	1440 Winter	100	+40%	30/15 Summer				90.280
S6.000	S23	1440 Winter	100	+40%					90.289
S6.001	S24	1440 Winter	100	+40%	30/15 Summer				90.288
S1.010	S25	1440 Winter	100	+40%	30/240 Winter				90.279
S7.000	S26	15 Winter	100	+40%	100/15 Summer				92.821
S8.000	SPP	30 Winter	100	+40%	30/15 Summer	100/30 Winter			93.352
S8.001	SOR	30 Winter	100	+40%	30/15 Summer				93.347
S7.001	S27	15 Winter	100	+40%	100/15 Summer				92.795



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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 2 SWS.SWS

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
S1.000	S1	1.201	0.915	0.93		98.1	FLOOD	1
S2.000	S2	1.282	0.585	0.98		38.0	FLOOD	2
S2.001	S3	1.287	3.814	1.45		53.5	FLOOD	4
S2.002	S4	1.280	5.222	2.28		87.4	FLOOD	4
S1.001	S5	1.313	4.447	0.59		163.6	FLOOD	2
S3.000	S6	1.493	3.504	0.65		50.7	FLOOD	2
S3.001	S7	1.714	0.000	1.06		80.2	FLOOD RISK	
S3.002	S8	1.746	0.000	0.93		87.1	FLOOD RISK	
S3.003	S9	1.749	0.000	0.89		89.4	FLOOD RISK	
S1.002	S10	1.754	0.042	1.55		238.4	FLOOD	1
S1.003	S11	1.674	0.000	1.36		253.0	FLOOD RISK	
S4.000	S12	1.067	0.000	0.43		57.0	FLOOD RISK	
S4.001	S13	1.200	0.000	0.47		94.1	FLOOD RISK	
S1.004	S14	1.492	7.472	1.21		438.0	FLOOD	1
S1.005	S15	1.466	0.000	1.30		474.0	SURCHARGED	
S5.000	S16	0.592	0.000	0.16		26.5	SURCHARGED	
S5.001	S17	0.753	0.000	0.48		80.2	SURCHARGED	
S5.002	S18	1.094	0.000	0.75		122.9	FLOOD RISK	
S1.006	S19	1.227	0.000	1.41		525.1	FLOOD RISK	
S1.007	S20	0.523	3.537	1.52		546.3	FLOOD	2
S1.008	S21	-0.146	0.000	0.02		53.0	FLOOD RISK	
S1.009	S22	0.480	0.000	0.17		53.0	FLOOD RISK*	
S6.000	S23	-0.611	0.000	0.00		5.2	OK	
S6.001	S24	0.780	0.000	0.02		1.6	FLOOD RISK	
S1.010	S25	0.598	0.000	0.02		5.0	FLOOD RISK	
S7.000	S26	0.621	0.000	0.35		28.5	SURCHARGED	
S8.000	SPP	0.402	2.180	1.28		78.4	FLOOD	2
S8.001	SOR	0.435	0.000	0.19		17.3	FLOOD RISK	
S7.001	S27	0.738	0.000	0.54		126.2	SURCHARGED	



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NET 2 SWS.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S9.000	S28	15	Winter	100	+40%	100/15	Summer		93.911
S9.001	S29	15	Winter	100	+40%	100/15	Summer		93.855
S9.002	S30	15	Winter	100	+40%	100/15	Summer		93.821
S9.003	S31	15	Winter	100	+40%	100/15	Summer		93.687
S9.004	S33	15	Winter	100	+40%	100/15	Summer		93.087
S9.005	S34	15	Winter	100	+40%	100/15	Summer		92.831
S7.002	S35	15	Winter	100	+40%	100/15	Summer		92.652
S10.000	S36	15	Winter	100	+40%	100/15	Summer		93.318
S10.001	S37	15	Winter	100	+40%	100/15	Summer		92.838
S7.003	S38	15	Winter	100	+40%	30/15	Summer		92.423
S7.004	S39	15	Winter	100	+40%	30/15	Summer		92.056
S7.005	S40	15	Winter	100	+40%	30/15	Winter		91.243
S7.006	S41	1440	Winter	100	+40%	30/15	Summer		90.823
S7.007	S42	1440	Winter	100	+40%	100/240	Summer		90.823
S11.000	S45	15	Winter	100	+40%	30/15	Summer		92.065
S11.001	S46	15	Winter	100	+40%	30/15	Summer	100/15 Summer	91.782
S11.002	S47	15	Winter	100	+40%	30/15	Summer		91.578
S11.003	S48	15	Winter	100	+40%	30/15	Summer		91.315
S11.004	S49	1440	Winter	100	+40%	30/15	Summer		90.823
S12.000	S50	15	Winter	100	+40%	100/15	Summer	100/15 Summer	93.252
S12.001	S51	15	Winter	100	+40%	30/15	Summer	100/15 Summer	92.951
S12.002	S52	15	Winter	100	+40%	30/15	Summer	100/15 Winter	92.550
S13.000	S53	15	Winter	100	+40%	30/15	Summer	100/15 Summer	92.633
S13.001	S54	15	Winter	100	+40%	100/15	Summer		92.003
S13.002	S55	15	Winter	100	+40%	30/15	Winter		91.910
S13.003	S56	15	Winter	100	+40%	30/15	Summer		91.701
S13.004	S57	15	Winter	100	+40%	30/15	Summer	100/15 Summer	91.355
S13.005	S58	15	Winter	100	+40%	30/15	Summer		91.224
S13.006	S59	15	Winter	100	+40%	30/15	Summer		90.869
S13.007	S60	1440	Winter	100	+40%	1/960	Summer		90.823
S14.000	S61	15	Winter	100	+40%	30/15	Summer	100/15 Summer	91.202
S7.008	S62	1440	Winter	100	+40%	1/240	Summer		90.823
S7.009	S63	1440	Winter	100	+40%	30/1440	Winter		89.963
S7.010	S64	1440	Winter	100	+40%	30/960	Winter		89.962
S15.000	S65	1440	Winter	100	+40%	1/480	Winter		89.962
S1.011	S66	1440	Winter	100	+40%	1/360	Winter		89.962
S1.012	S67	1440	Winter	100	+40%				89.962
S1.013	S68	1440	Winter	100	+40%	1/120	Summer		89.962
S16.000	S69	15	Winter	100	+40%				89.446
S16.001	S70	60	Winter	100	+40%	100/15	Summer		89.414
S16.002	S71	60	Winter	100	+40%	30/30	Winter		89.411
S16.003	S72	60	Winter	100	+40%	30/15	Summer		89.399
S16.004	S73	60	Winter	100	+40%	30/15	Summer		89.382
S16.005	S74	60	Winter	100	+40%	30/15	Summer		89.370
S17.000	S75	15	Winter	100	+40%	30/15	Summer		89.900
S17.001	S76	15	Winter	100	+40%	30/15	Summer		89.783
S17.002	S77	15	Winter	100	+40%	30/15	Summer		89.670
S17.003	S78	30	Winter	100	+40%	30/15	Summer		89.430
S17.004	S79	60	Winter	100	+40%	30/15	Summer		89.375
S1.014	S80	60	Winter	100	+40%				89.350
S1.015	S81	60	Winter	100	+40%				89.349
S1.016	S82	240	Winter	100	+40%				89.001
S1.017	S83	480	Winter	100	+40%	1/120	Winter		88.817



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NET 2 SWS.SWS

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
S9.000	S28	0.936	0.000	0.60		57.2	SURCHARGED	
S9.001	S29	1.062	0.000	0.64		54.8	SURCHARGED	
S9.002	S30	1.145	0.000	0.91		81.9	FLOOD RISK	
S9.003	S31	1.185	0.000	1.17		122.1	FLOOD RISK	
S9.004	S33	1.130	0.000	0.78		151.2	SURCHARGED	
S9.005	S34	1.334	0.000	0.75		203.7	FLOOD RISK	
S7.002	S35	1.462	0.000	0.75		373.4	FLOOD RISK	
S10.000	S36	0.918	0.000	0.86		97.1	SURCHARGED	
S10.001	S37	1.183	0.000	0.69		181.5	FLOOD RISK	
S7.003	S38	1.627	0.000	1.75		607.1	FLOOD RISK	
S7.004	S39	1.374	0.000	1.82		655.6	SURCHARGED	
S7.005	S40	0.799	0.000	1.19		724.0	SURCHARGED	
S7.006	S41	0.746	0.000	0.31		53.6	SURCHARGED	
S7.007	S42	0.478	0.000	0.07		53.5	SURCHARGED	
S11.000	S45	1.295	0.000	1.00		40.0	FLOOD RISK	
S11.001	S46	1.260	2.322	2.95		91.1	FLOOD	2
S11.002	S47	1.104	0.000	1.72		127.9	FLOOD RISK	
S11.003	S48	0.929	0.000	1.79		191.2	FLOOD RISK	
S11.004	S49	0.618	0.000	0.11		11.3	SURCHARGED	
S12.000	S50	1.227	1.790	1.07		51.9	FLOOD	2
S12.001	S51	1.436	1.109	1.32		107.3	FLOOD	2
S12.002	S52	1.332	0.018	1.74		146.9	FLOOD	1
S13.000	S53	1.283	2.082	1.45		31.6	FLOOD	4
S13.001	S54	1.153	0.000	1.03		44.2	FLOOD RISK	
S13.002	S55	1.153	0.000	0.82		60.9	FLOOD RISK	
S13.003	S56	1.244	0.000	0.93		101.6	FLOOD RISK	
S13.004	S57	1.255	5.101	1.34		120.9	FLOOD	4
S13.005	S58	1.254	0.000	1.78		126.7	FLOOD RISK	
S13.006	S59	1.050	0.000	2.19		141.5	SURCHARGED	
S13.007	S60	1.110	0.000	0.20		11.4	FLOOD RISK	
S14.000	S61	1.252	2.491	3.13		51.0	FLOOD	4
S7.008	S62	1.223	0.000	0.02		1.1	SURCHARGED	
S7.009	S63	0.439	0.000	0.03		1.7	SURCHARGED	
S7.010	S64	0.481	0.000	0.02		5.2	SURCHARGED	
S15.000	S65	0.907	0.000	0.12		3.3	FLOOD RISK	
S1.011	S66	1.002	0.000	0.07		15.0	FLOOD RISK	
S1.012	S67	-0.338	0.000	0.00		18.2	OK	
S1.013	S68	1.251	0.000	0.02		5.0	FLOOD RISK	
S16.000	S69	-0.124	0.000	0.41		21.6	OK	
S16.001	S70	0.173	0.000	0.06		23.4	SURCHARGED	
S16.002	S71	0.648	0.000	0.35		58.9	SURCHARGED	
S16.003	S72	0.798	0.000	0.60		96.9	SURCHARGED	
S16.004	S73	0.891	0.000	1.16		147.0	SURCHARGED	
S16.005	S74	0.910	0.000	1.09		158.4	FLOOD RISK	
S17.000	S75	1.138	0.000	0.92		55.2	FLOOD RISK	
S17.001	S76	1.173	0.000	1.69		88.3	FLOOD RISK	
S17.002	S77	1.104	0.000	1.93		110.7	FLOOD RISK	
S17.003	S78	0.952	0.000	1.99		106.6	FLOOD RISK	
S17.004	S79	0.947	0.000	1.46		76.6	FLOOD RISK	
S1.014	S80	-0.250	0.000	0.03		229.3	FLOOD RISK	
S1.015	S81	-0.251	0.000	0.01		82.3	FLOOD RISK*	
S1.016	S82	-0.319	0.000	0.00		27.6	OK	
S1.017	S83	0.766	0.000	0.26		14.5	FLOOD RISK	