. . .

Date 29/09/2021 10:11 | Designed by WillGarrett
File 16153 - All Networks_RECOVER... | Checked by
Innovyze | Network 2018.1

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 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 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)	100
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
S1.000	S1	15 Winter	100	+0%	100/15 Winter				93.269	0.019
S2.000	S2	15 Winter	100	+0%	100/15 Summer				93.584	0.445
S2.001	S3	15 Winter	100	+0%	100/15 Summer				93.501	0.504
S2.002	S4	15 Winter	100	+0%	100/15 Summer				93.363	0.458
S1.001	S5	15 Winter	100	+0%	100/15 Summer				93.073	0.302
S3.000	S6	15 Winter	100	+0%	100/15 Summer				93.139	0.439
S3.001	S7	15 Winter	100	+0%	100/15 Summer				93.098	0.579
S3.002	S8	15 Winter	100	+0%	100/15 Summer				93.028	0.620
S3.003	S9	15 Winter	100	+0%	100/15 Summer				92.983	0.650
S1.002	S10	15 Winter	100	+0%	100/15 Summer				92.944	0.668
S1.003	S11	15 Winter	100	+0%	100/15 Summer				92.799	0.571
S4.000	S12	15 Winter	100	+0%					92.494	-0.086
S4.001	S13	15 Winter	100	+0%	100/15 Winter				92.472	0.067
S1.004	S14	15 Winter	100	+0%	100/15 Summer				92.439	0.424
S1.005	S15	15 Winter	100	+0%	100/15 Summer				91.992	0.437
S5.000	S16	15 Winter	100	+0%					91.536	-0.289
S5.001	S17	15 Winter	100	+0%					91.507	-0.148
S5.002	S18	15 Winter	100	+0%	100/15 Summer				91.489	0.214
S1.006	S19	15 Winter	100	+0%	100/15 Summer				91.466	0.375
S1.007	S20	15 Winter	100	+0%	100/15 Summer				90.636	0.182
S1.008	S21	960 Winter	100	+0%					89.973	-0.453
S1.009	S22	960 Winter	100	+0%	100/15 Summer				89.973	0.173
S6.000	S23	960 Winter	100	+0%					89.984	-0.916
S6.001	S24	960 Winter	100	+0%	100/15 Summer				89.984	0.476
S1.010	S25	960 Winter	100	+0%	100/60 Winter				89.972	0.291
S7.000	S26	15 Winter	100	+0%					92.009	-0.191
S8.000	SPP	30 Winter	100	+0%	100/15 Summer				93.218	0.268
S8.001	SOR	30 Winter	100	+0%	100/15 Summer				93.212	0.300
S7.001	S27	15 Winter	100	+0%					91.859	-0.198

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

PN	US/MH Name	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	S1	0.000	0.82		87.0	SURCHARGED	
S2.000	S2	0.000	0.80		31.0	SURCHARGED	
S2.001	S3	0.000	1.35		49.8	SURCHARGED	
S2.002	S4	0.000	1.68		64.5	SURCHARGED	
S1.001	S5	0.000	0.55		151.4	SURCHARGED	
S3.000	S6	0.000	0.48		37.1	SURCHARGED	
S3.001	S7	0.000	0.91		68.8	SURCHARGED	
S3.002	S8	0.000	0.83		78.2	SURCHARGED	
S3.003	S9	0.000	0.86		85.5	SURCHARGED	
S1.002	S10	0.000	1.46		224.0	SURCHARGED	
S1.003	S11	0.000	1.33		248.4	SURCHARGED	
S4.000	S12	0.000	0.35		47.1	OK	
S4.001	S13	0.000	0.48		94.8	SURCHARGED	
S1.004	S14	0.000	1.07		389.9	SURCHARGED	
S1.005	S15	0.000	1.09		395.6	SURCHARGED	
S5.000	S16	0.000	0.12		19.2	OK	
S5.001	S17	0.000	0.36		59.8	OK	
S5.002	S18	0.000	0.62		101.6	SURCHARGED	
S1.006	S19	0.000	1.13		420.6	SURCHARGED	
S1.007	S20	0.000	1.22		439.9	SURCHARGED	
S1.008	S21	0.000	0.02		52.3	OK	
S1.009	S22	0.000	0.17		50.8	SURCHARGED*	
S6.000	S23	0.000	0.00		3.7	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	0.28		22.5	OK	
S8.000	SPP	0.000	0.90		55.4	FLOOD RISK	
S8.001	SOR	0.000	0.17		15.5	FLOOD RISK	
S7.001	S27	0.000	0.44		102.5	OK	

100 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)	Surcharged Depth (m)
S9.000	S28	15 Winter	100	+0%					92.832	-0.143
S9.001	S29	15 Winter	100	+0%					92.725	-0.068
S9.002	S30	15 Winter	100	+0%	100/15 Summer				92.696	0.020
S9.003	S31	15 Winter	100	+0%	100/15 Summer				92.568	0.066
S9.004	S33	15 Winter	100	+0%					91.955	-0.002
S9.005	S34	15 Winter	100	+0%	100/15 Summer				91.739	0.242
S7.002	S35	15 Winter	100	+0%	100/15 Summer				91.618	0.428
S10.000	S36	15 Winter	100	+0%					92.297	-0.103
S10.001	S37	15 Winter	100	+0%	100/15 Winter				91.700	0.045
S7.003	S38	15 Winter	100	+0%	100/15 Summer				91.470	0.674
S7.004	S39	15 Winter	100	+0%	100/15 Summer				91.240	0.558
S7.005	S40	15 Winter	100	+0%	100/15 Summer				90.731	0.287
S7.006	S41	1440 Winter	100	+0%	100/15 Summer				90.467	0.390
S7.007	S42	1440 Winter	100	+0%	100/960 Winter				90.467	0.122
S11.000	S45	15 Winter	100	+0%	100/15 Summer				91.282	0.512
S11.001	S46	15 Winter	100	+0%	100/15 Summer				91.161	0.639
S11.002	S47	15 Winter	100	+0%	100/15 Summer				90.955	0.481
S11.003	S48	15 Winter	100	+0%	100/15 Summer				90.783	0.397
S11.004	S49	1440 Winter	100	+0%	100/15 Summer				90.467	0.262
S12.000	S50	15 Winter	100	+0%	100/15 Summer				92.336	0.311
S12.001	S51	15 Winter	100	+0%	100/15 Summer				92.082	0.567
S12.002	S52	15 Winter	100	+0%	100/15 Summer				91.751	0.533
S13.000	S53	15 Winter	100	+0%	100/15 Summer				91.980	0.630
S13.001	S54	15 Winter	100	+0%	100/15 Summer				91.270	0.420
S13.002	S55	15 Winter	100	+0%	100/15 Summer				91.209	0.452
S13.003	S56	15 Winter	100	+0%	100/15 Summer				91.100	0.643
S13.004	S57	15 Winter	100	+0%	100/15 Summer				90.940	0.840
S13.005	S58	15 Winter	100	+0%	100/15 Summer				90.792	0.822
S13.006	S59	15 Winter	100	+0%	100/15 Summer				90.478	0.659
S13.007	S60	1440 Winter	100	+0%	100/15 Summer				90.467	0.754
S14.000	S61	15 Winter	100	+0%	100/15 Summer				90.896	0.946
S7.008	S62	1440 Winter	100	+0%	100/15 Summer				90.467	0.867
S7.009	S63	1440 Winter	100	+0%	100/960 Summer				89.702	0.178
S7.010	S64	1440 Winter	100	+0%	100/960 Summer				89.701	0.220
S15.000	S65	1440 Winter	100	+0%	100/15 Summer				89.701	0.646
S1.011	S66	1440 Winter	100	+0%	100/30 Winter				89.702	0.742
S1.012	S67	1440 Winter	100	+0%					89.701	-0.599
S1.013	S68	1440 Winter	100	+0%	100/15 Summer				89.701	0.990
S16.000	S69	15 Winter	100	+0%					89.429	-0.141
S16.001	S70	60 Winter	100	+0%					89.071	-0.170
S16.002	S71	60 Winter	100	+0%	100/15 Summer				89.069	0.306
S16.003	S72	60 Winter	100	+0%	100/15 Summer				89.059	0.458
S16.004	S73	60 Winter	100	+0%	100/15 Summer				89.047	0.556
S16.005	S74	60 Winter	100	+0%	100/15 Summer				89.038	0.578
S17.000	S75	15 Winter	100	+0%	100/15 Summer				89.200	0.438
S17.001	S76	15 Winter	100	+0%	100/15 Summer				89.141	0.531
S17.002	S77	30 Winter	100	+0%	100/15 Summer				89.096	0.530
S17.003	S78	60 Winter	100	+0%	100/15 Summer				89.063	0.585
S17.004	S79	60 Winter	100	+0%	100/15 Summer				89.041	0.613
S1.014	S80	60 Winter	100	+0%					89.022	-0.578
S1.015	S81	60 Winter	100	+0%					89.022	-0.578
S1.016	S82	240 Winter	100	+0%					88.741	-0.579
S1.017	S83	240 Winter	100	+0%	100/15 Summer				88.545	0.494

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

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S9.000	S28	0.000	0.53		50.7	OK	
S9.001	S29	0.000	0.58		49.4	OK	
S9.002	S30	0.000	0.86		76.9	SURCHARGED	
S9.003	S31	0.000	1.06		110.5	SURCHARGED	
S9.004	S33	0.000	0.74		143.2	OK	
S9.005	S34	0.000	0.67		180.9	SURCHARGED	
S7.002	S35	0.000	0.62		307.2	SURCHARGED	
S10.000	S36	0.000	0.74		83.4	OK	
S10.001	S37	0.000	0.66		171.9	SURCHARGED	
S7.003	S38	0.000	1.41		490.5	SURCHARGED	
S7.004	S39	0.000	1.46		525.1	SURCHARGED	
S7.005	S40	0.000	0.95		578.2	SURCHARGED	
S7.006	S41	0.000	0.22		39.1	SURCHARGED	
S7.007	S42	0.000	0.05		38.8	SURCHARGED	
S11.000	S45	0.000	0.74		29.4	SURCHARGED	
S11.001	S46	0.000	2.06		63.6	SURCHARGED	
S11.002	S47	0.000	1.39		103.0	SURCHARGED	
S11.003	S48	0.000	1.38		148.0	SURCHARGED	
S11.004	S49	0.000	0.08		8.5	SURCHARGED	
S12.000	S50	0.000	0.75		36.3	SURCHARGED	
S12.001	S51	0.000	1.02		83.3	SURCHARGED	
S12.002	S52	0.000	1.35		113.6	SURCHARGED	
S13.000	S53	0.000	1.20		26.1	SURCHARGED	
S13.001	S54	0.000	0.92		39.3	SURCHARGED	
S13.002	S55	0.000	0.68		50.0	SURCHARGED	
S13.003	S56	0.000	0.67		73.2	SURCHARGED	
S13.004	S57	0.000	1.05		95.0	SURCHARGED	
S13.005	S58	0.000	1.44		102.7	SURCHARGED	
S13.006	S59	0.000	1.86		120.1	SURCHARGED	
S13.007	S60	0.000	0.14		8.1	SURCHARGED	
S14.000	S61	0.000	2.73		44.5	SURCHARGED	
S7.008	S62	0.000	0.02		1.1	SURCHARGED	
S7.009	S63	0.000	0.03		1.5	SURCHARGED	
S7.010	S64	0.000	0.02		4.0	SURCHARGED	
S15.000	S65	0.000	0.08		2.3	SURCHARGED	
S1.011	S66	0.000	0.06		12.5	SURCHARGED	
S1.012	S67	0.000	0.00		14.4	OK	
S1.013	S68	0.000	0.02		4.6	FLOOD RISK	
S16.000	S69	0.000	0.29		15.4	OK	
S16.001	S70	0.000	0.05		18.7	OK	
S16.002	S71	0.000	0.25		42.2	SURCHARGED	
S16.003	S72	0.000	0.42		68.6	SURCHARGED	
S16.004	S73	0.000	0.82		103.6	SURCHARGED	
S16.005	S74	0.000	0.77		111.6	SURCHARGED	
S17.000	S75	0.000	0.67		39.9	SURCHARGED	
S17.001	S76	0.000	1.25		65.2	SURCHARGED	
S17.002	S77	0.000	1.18		67.9	SURCHARGED	
S17.003	S78	0.000	1.03		55.1	SURCHARGED	
S17.004	S79	0.000	1.03		54.1	SURCHARGED	
S1.014	S80	0.000	0.02		163.0	OK	
S1.015	S81	0.000	0.01		67.6	OK	
S1.016	S82	0.000	0.00		24.2	OK	
S1.017	S83	0.000	0.26		14.5	SURCHARGED	