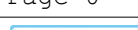


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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section	Type	Auto Design
1.000	25.108	0.251	100.0	0.068	5.00	0.0	0.600	o	225	Pipe/Conduit		🔒
1.001	20.911	0.209	100.0	0.066	0.00	0.0	0.600	o	225	Pipe/Conduit		🔒
1.002	30.098	0.401	75.0	0.029	0.00	0.0	0.600	o	225	Pipe/Conduit		🔒
1.003	12.235	0.245	50.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		🔒
1.004	10.418	0.208	50.0	0.072	0.00	0.0	0.600	o	225	Pipe/Conduit		🔒
2.000	16.749	0.140	119.6	0.084	5.00	0.0	0.600	o	225	Pipe/Conduit		🔒
2.001	18.091	0.154	117.5	0.042	0.00	0.0	0.600	o	300	Pipe/Conduit		🔒
3.000	21.803	0.131	166.9	0.017	5.00	15.0	0.600	o	225	Pipe/Conduit		🔒
2.002	9.488	0.039	245.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		🔒
2.003	9.725	0.040	245.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		🔒
1.005	10.657	0.040	265.1	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		🔒
1.006	12.479	0.047	264.9	0.014	0.00	0.0	0.600	o	375	Pipe/Conduit		🔒
1.007	53.764	0.303	177.6	0.165	0.00	0.0	0.600	o	375	Pipe/Conduit		🔒

Network Results Table

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
4.000	24.071	0.301	80.0	0.039	5.00	0.0	0.600	o	225	Pipe/Conduit	
4.001	11.195	0.160	70.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
4.002	17.571	0.225	78.1	0.079	0.00	0.0	0.600	o	225	Pipe/Conduit	
4.003	18.912	0.107	176.7	0.063	0.00	0.0	0.600	o	300	Pipe/Conduit	
5.000	19.109	0.314	60.9	0.036	5.00	0.0	0.600	o	225	Pipe/Conduit	
5.001	38.566	0.430	89.7	0.073	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.008	33.285	0.666	50.0	0.090	0.00	0.0	0.600	o	375	Pipe/Conduit	
1.009	26.883	0.448	60.0	0.162	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.000	14.959	0.100	149.6	0.025	5.00	0.0	0.600	o	225	Pipe/Conduit	
6.001	13.567	0.090	150.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
6.002	19.616	0.131	150.0	0.138	0.00	0.0	0.600	o	225	Pipe/Conduit	
6.003	17.816	0.089	200.0	0.017	0.00	0.0	0.600	o	300	Pipe/Conduit	
6.004	14.120	0.071	198.9	0.061	0.00	0.0	0.600	o	300	Pipe/Conduit	
7.000	28.222	0.257	109.8	0.030	5.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
4.000	5.00	5.27	81.304	0.039	0.0	0.0	0.0	1.46	58.2	0.5
4.001	5.00	5.39	81.003	0.039	0.0	0.0	0.0	1.57	62.2	0.5
4.002	5.00	5.59	80.843	0.118	0.0	0.0	0.0	1.48	58.9	1.6
4.003	5.00	5.86	80.543	0.181	0.0	0.0	0.0	1.18	83.4	2.5
5.000	5.00	5.19	81.255	0.036	0.0	0.0	0.0	1.68	66.8	0.5
5.001	5.00	5.65	80.941	0.109	0.0	0.0	0.0	1.38	54.9	1.5
1.008	5.00	7.35	80.361	0.937	15.0	0.0	0.0	2.57	283.7	27.7
1.009	5.00	7.52	79.620	1.099	15.0	0.0	0.0	2.63	418.0	29.9
6.000	5.00	5.23	79.878	0.025	0.0	0.0	0.0	1.07	42.4	0.3
6.001	5.00	5.45	79.778	0.025	0.0	0.0	0.0	1.06	42.3	0.3
6.002	5.00	5.75	79.688	0.163	0.0	0.0	0.0	1.07	42.4	2.2
6.003	5.00	6.02	79.482	0.180	0.0	0.0	0.0	1.11	78.3	2.4
6.004	5.00	6.23	79.393	0.241	0.0	0.0	0.0	1.11	78.6	3.3
7.000	5.00	5.38	79.924	0.030	0.0	0.0	0.0	1.25	49.6	0.4



Micro
Drainage

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Innovyze				Network 2019.1							
Manhole Schedules for NETWORK1-05.06.18.SWS											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
1	84.801	1.476	Open Manhole	1500	1.000	83.325	225				
2	84.553	1.479	Open Manhole	1500	1.001	83.074	225	1.000	83.074	225	
3	84.350	1.485	Open Manhole	1500	1.002	82.865	225	1.001	82.865	225	
4	83.908	1.445	Open Manhole	1500	1.003	82.464	225	1.002	82.464	225	
5	83.653	1.434	Open Manhole	1500	1.004	82.219	225	1.003	82.219	225	
6	82.698	1.425	Open Manhole	1500	2.000	81.273	225				
7	82.976	1.918	Open Manhole	1500	2.001	81.058	300	2.000	81.133	225	
8	83.319	2.209	Open Manhole	1500	3.000	81.110	225				
9	83.222	2.318	Open Manhole	1500	2.002	80.904	300	2.001	80.904	300	
								3.000	80.979	225	
10	83.218	2.352	Open Manhole	1500	2.003	80.866	300	2.002	80.866	300	
11	83.459	2.708	Open Manhole	1500	1.005	80.751	375	1.004	82.010	225	1109
								2.003	80.826	300	
12	83.254	2.543	Open Manhole	1800	1.006	80.711	375	1.005	80.711	375	
13	83.001	2.337	Open Manhole	1800	1.007	80.664	375	1.006	80.664	375	
14	82.729	1.425	Open Manhole	1500	4.000	81.304	225				
15	82.430	1.427	Open Manhole	1500	4.001	81.003	225	4.000	81.003	225	
16	82.268	1.425	Open Manhole	1500	4.002	80.843	225	4.001	80.843	225	
17	82.043	1.500	Open Manhole	1500	4.003	80.543	300	4.002	80.618	225	
18	82.680	1.425	Open Manhole	1500	5.000	81.255	225				
19	82.428	1.487	Open Manhole	1500	5.001	80.941	225	5.000	80.941	225	
20	82.039	1.678	Open Manhole	1800	1.008	80.361	375	1.007	80.361	375	
								4.003	80.436	300	
								5.001	80.511	225	
21	81.286	1.666	Open Manhole	1800	1.009	79.620	450	1.008	79.695	375	
22	81.613	1.735	Open Manhole	1500	6.000	79.878	225				
23	81.419	1.641	Open Manhole	1500	6.001	79.778	225	6.000	79.778	225	
24	81.283	1.596	Open Manhole	1500	6.002	79.688	225	6.001	79.688	225	
25	81.082	1.600	Open Manhole	1500	6.003	79.482	300	6.002	79.557	225	
26	80.898	1.505	Open Manhole	1500	6.004	79.393	300	6.003	79.393	300	
27	81.384	1.460	Open Manhole	1500	7.000	79.924	225				
28	81.069	1.402	Open Manhole	1500	7.001	79.667	225	7.000	79.667	225	
29	80.866	1.769	Open Manhole	2100	1.010	79.097	525	1.009	79.172	450	
								6.004	79.322	300	
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<u>Manhole Schedules for NETWORK1-05.06.18.SWS</u>										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)
30	80.301	1.800	Open Manhole	2100	1.011	78.501	600	7.001	79.397	225
31	80.640	1.693	Open Manhole	1500	8.000	78.947	300	1.010	78.576	525
32	80.403	1.607	Open Manhole	1800	8.001	78.796	300	8.000	78.796	300
33	80.263	1.990	Open Manhole	2100	1.012	78.273	750	1.011	78.423	600
								8.001	78.723	300
34	83.961	1.428	Open Manhole	1500	9.000	82.533	225			
35	83.183	1.425	Open Manhole	1500	10.000	81.758	225			
36	83.244	1.650	Open Manhole	1500	10.001	81.594	225	10.000	81.594	225
37	83.209	1.745	Open Manhole	1500	9.001	81.464	225	9.000	81.464	225
								10.001	81.464	225
38	82.841	1.634	Open Manhole	1500	9.002	81.207	300	9.001	81.282	225
39	82.541	1.629	Open Manhole	1500	9.003	80.912	300	9.002	80.912	300
40	82.099	1.584	Open Manhole	1500	9.004	80.515	300	9.003	80.515	300
41	81.777	1.559	Open Manhole	1800	9.005	80.218	300	9.004	80.218	300
42a	83.933	1.425	Open Manhole	1200	11.000	82.508	225			
42	83.651	1.426	Open Manhole	1500	11.001	82.225	225	11.000	82.225	225
43	83.024	1.450	Open Manhole	1500	11.002	81.574	225	11.001	81.574	225
44	82.756	1.427	Open Manhole	1500	11.003	81.329	225	11.002	81.329	225
45	82.287	1.425	Open Manhole	1500	12.000	80.862	225			
46	82.461	1.739	Open Manhole	1500	11.004	80.722	300	11.003	80.796	225
								12.000	80.797	225
47	81.992	1.509	Open Manhole	1500	11.005	80.483	300	11.004	80.483	300
48	83.215	1.425	Open Manhole	1500	13.000	81.790	225			
49	83.048	1.430	Open Manhole	1500	13.001	81.618	225	13.000	81.618	225
50	82.826	1.437	Open Manhole	1500	13.002	81.389	225	13.001	81.389	225
51	82.660	1.437	Open Manhole	1500	13.003	81.223	225	13.002	81.223	225
52	82.491	1.428	Open Manhole	1500	13.004	81.063	225	13.003	81.063	225
53	82.123	1.827	Open Manhole	1800	11.006	80.296	375	11.005	80.371	300
								13.004	80.446	225
54	81.993	1.768	Open Manhole	1800	11.007	80.225	375	11.006	80.225	375
55	81.700	1.575	Open Manhole	1800	11.008	80.125	375	11.007	80.125	375
56	81.650	1.631	Open Manhole	1800	11.009	80.019	375	11.008	80.019	375
57	81.650	1.728	Open Manhole	1800	11.010	79.922	375	11.009	79.922	375
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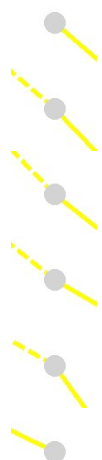
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Network 2019.1

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)
58	81.700	1.917	Open Manhole	1800	11.011	79.784	375	11.010	79.784	375
59	81.281	1.671	Open Manhole	1800	9.006	79.610	450	9.005	79.760	300
								11.011	79.685	375
60	81.062	1.909	Open Manhole	1800	9.007	79.152	450	9.006	79.152	450
61	80.715	1.846	Open Manhole	1800	9.008	78.869	450	9.007	78.869	450
62	80.431	2.283	Open Manhole	2400	1.013	78.148	750	1.012	78.148	750
								9.008	78.448	450
63	80.190	2.116	Open Manhole	2400	1.014	78.075	750	1.013	78.075	750
64	80.069	2.051	Open Manhole	2400	1.015	78.017	750	1.014	78.017	750
65	80.163	2.165	Open Manhole	2400	1.016	77.998	750	1.015	77.998	750
66	80.000	2.412	Open Manhole	2400	1.017	77.588	750	1.016	77.938	750
67	79.750	2.193	Open Manhole	2400	1.018	77.557	750	1.017	77.557	750
68	79.750	2.215	Open Manhole	2400	1.019	77.535	750	1.018	77.535	750
69	79.750	2.230	Open Manhole	2400	1.020	77.520	450	1.019	77.520	750
70	79.000	1.502	Open Manhole	1200		OUTFALL		1.020	77.498	450

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
1	359947.845	436053.181	359947.845	436053.181	Required	
2	359966.892	436036.822	359966.892	436036.822	Required	
3	359981.375	436021.738	359981.375	436021.738	Required	
4	360004.864	436002.920	360004.864	436002.920	Required	
5	360015.452	435996.788	360015.452	435996.788	Required	
6	360067.539	435978.372	360067.539	435978.372	Required	



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Online Controls for NETWORK1-05.06.18.SWS

Complex Manhole: 69, DS/PN: 1.020, Volume (m³): 11.6

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0349-7300-0750-7300
Design Head (m)	0.750
Design Flow (l/s)	73.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	349
Invert Level (m)	77.520
Minimum Outlet Pipe Diameter (mm)	375
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.750	73.0	Kick-Flo®	0.666	68.9
Flush-Flo™	0.466	72.9	Mean Flow over Head Range	-	53.0

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	10.1	1.200	91.7	3.000	143.2	7.000	216.9
0.200	35.3	1.400	98.8	3.500	154.4	7.500	224.4
0.300	64.9	1.600	105.4	4.000	164.9	8.000	229.2
0.400	72.4	1.800	111.6	4.500	174.7	8.500	236.5
0.500	72.8	2.000	117.5	5.000	183.9	9.000	243.5
0.600	71.1	2.200	123.1	5.500	192.7	9.500	250.3
0.800	75.3	2.400	128.4	6.000	201.1		
1.000	83.9	2.600	133.6	6.500	209.2		

Orifice

Diameter (m) 0.250 Discharge Coefficient 0.600 Invert Level (m) 78.420

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr									
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Innovyze	Network 2019.1									
Storage Structures for NETWORK1-05.06.18.SWS Tank or Pond Manhole: 67, DS/PN: 1.018 Invert Level (m) 77.557 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>960.0</td><td>1.200</td><td>1396.1</td></tr></tbody></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	960.0	1.200	1396.1
Depth (m)	Area (m²)	Depth (m)	Area (m²)							
0.000	960.0	1.200	1396.1							
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr								
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Innovyze Network 2019.1									
Summary Wizard of 15 minute 2 year Summer I+0% 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 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 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	2	83.395	-0.155	0.000	0.21		10.0	OK
1.001	2	2	83.172	-0.127	0.000	0.39		18.2	OK
1.002	3	2	82.962	-0.127	0.000	0.39		21.8	OK
1.003	4	2	82.554	-0.134	0.000	0.34		21.7	OK
1.004	5	2	82.330	-0.113	0.000	0.49		30.2	OK
2.000	6	2	81.357	-0.141	0.000	0.30		12.5	OK
2.001	7	2	81.150	-0.208	0.000	0.20		17.7	OK
3.000	8	2	81.220	-0.115	0.000	0.48		17.5	OK
2.002	9	2	81.080	-0.124	0.000	0.65		35.3	OK
2.003	10	2	81.041	-0.125	0.000	0.64		35.2	OK
1.005	11	2	80.988	-0.138	0.000	0.71		65.1	OK
1.006	12	2	80.945	-0.140	0.000	0.71		67.0	OK
1.007	13	2	80.877	-0.162	0.000	0.59		82.8	OK
4.000	14	2	81.353	-0.176	0.000	0.11		5.8	OK
4.001	15	2	81.053	-0.175	0.000	0.11		5.8	OK
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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
9.006	59	2	79.831	-0.229	0.000	0.48		141.2	OK
9.007	60	4	79.383	-0.219	0.000	0.52		144.1	OK
9.008	61	4	79.084	-0.235	0.000	0.46		155.5	OK
1.013	62	4	78.768	-0.130	0.000	0.74		353.0	OK
1.014	63	4	78.716	-0.108	0.000	0.75		337.8	OK
1.015	64	4	78.669	-0.098	0.000	1.13		329.6	OK
1.016	65	4	78.487	-0.261	0.000	0.75		340.5	OK
1.017	66	3	78.338	0.000	0.000	1.44		341.5	OK
1.018	67	22	77.788	-0.519	0.000	0.17		32.2	OK
1.019	68	22	77.738	-0.547	0.000	0.09		32.1	OK
1.020	69	22	77.732	-0.238	0.000	0.34		32.1	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr								
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by								
Innovyze Network 2019.1									
Summary Wizard of 30 minute 2 year Summer I+0% 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 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 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	3	83.392	-0.158	0.000	0.19		9.3	OK
1.001	2	3	83.168	-0.131	0.000	0.36		17.1	OK
1.002	3	3	82.959	-0.130	0.000	0.37		20.5	OK
1.003	4	3	82.552	-0.137	0.000	0.33		20.6	OK
1.004	5	3	82.327	-0.116	0.000	0.47		28.9	OK
2.000	6	3	81.353	-0.145	0.000	0.27		11.6	OK
2.001	7	3	81.146	-0.212	0.000	0.19		16.7	OK
3.000	8	3	81.219	-0.116	0.000	0.47		17.3	OK
2.002	9	3	81.076	-0.128	0.000	0.62		33.8	OK
2.003	10	3	81.036	-0.129	0.000	0.62		33.9	OK
1.005	11	3	80.980	-0.146	0.000	0.69		62.7	OK
1.006	12	3	80.939	-0.147	0.000	0.68		64.1	OK
1.007	13	3	80.872	-0.166	0.000	0.58		81.3	OK
4.000	14	3	81.351	-0.178	0.000	0.10		5.4	OK
4.001	15	3	81.051	-0.177	0.000	0.10		5.4	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	

Summary Wizard of 30 minute 2 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
9.006	59	3	79.830	-0.230	0.000	0.48	140.3	OK
9.007	60	2	79.384	-0.218	0.000	0.52	144.0	OK
9.008	61	3	79.085	-0.234	0.000	0.46	156.7	OK
1.013	62	3	78.789	-0.109	0.000	0.74	352.1	OK
1.014	63	3	78.730	-0.095	0.000	0.76	341.2	OK
1.015	64	3	78.678	-0.089	0.000	1.13	329.6	OK
1.016	65	3	78.489	-0.259	0.000	0.76	343.4	OK
1.017	66	2	78.338	0.000	0.000	1.43	341.4	OK
1.018	67	20	77.848	-0.459	0.000	0.27	50.1	OK
1.019	68	20	77.797	-0.488	0.000	0.15	50.0	OK
1.020	69	20	77.791	-0.179	0.000	0.53	50.0	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	
Summary Wizard of 60 minute 2 year Summer I+0% 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) 2		
Climate Change (%) 0		
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe Flow	Status	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s)		
1.000 1 5 83.383 -0.167 0.000 0.15 7.2	OK	
1.001 2 5 83.156 -0.143 0.000 0.29 13.6	OK	
1.002 3 5 82.948 -0.142 0.000 0.29 16.4	OK	
1.003 4 5 82.541 -0.148 0.000 0.26 16.4	OK	
1.004 5 5 82.314 -0.129 0.000 0.38 23.3	OK	
2.000 6 5 81.343 -0.155 0.000 0.21 8.9	OK	
2.001 7 5 81.134 -0.224 0.000 0.15 13.0	OK	
3.000 8 5 81.217 -0.118 0.000 0.46 16.8	OK	
2.002 9 5 81.062 -0.142 0.000 0.54 29.7	OK	
2.003 10 5 81.023 -0.143 0.000 0.54 29.8	OK	
1.005 11 5 80.956 -0.170 0.000 0.58 53.0	OK	
1.006 12 5 80.915 -0.171 0.000 0.57 54.3	OK	
1.007 13 5 80.852 -0.187 0.000 0.50 69.3	OK	
4.000 14 5 81.345 -0.184 0.000 0.08 4.1	OK	
4.001 15 5 81.045 -0.183 0.000 0.08 4.1	OK	
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	
Summary Wizard of 120 minute 2 year Summer I+0% 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) 2		
Climate Change (%) 0		
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Flow	Pipe	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s) Status		
1.000 1 7 83.373 -0.177 0.000 0.10 4.9 OK		
1.001 2 7 83.142 -0.157 0.000 0.20 9.5 OK		
1.002 3 7 82.934 -0.156 0.000 0.21 11.6 OK		
1.003 4 7 82.528 -0.160 0.000 0.18 11.6 OK		
1.004 5 7 82.298 -0.146 0.000 0.27 16.6 OK		
2.000 6 7 81.330 -0.168 0.000 0.14 6.1 OK		
2.001 7 7 81.122 -0.236 0.000 0.10 9.1 OK		
3.000 8 7 81.215 -0.120 0.000 0.44 16.2 OK		
2.002 9 7 81.047 -0.157 0.000 0.46 25.3 OK		
2.003 10 7 81.008 -0.157 0.000 0.46 25.3 OK		
1.005 11 7 80.929 -0.197 0.000 0.46 41.8 OK		
1.006 12 7 80.887 -0.198 0.000 0.45 42.8 OK		
1.007 13 7 80.825 -0.213 0.000 0.39 53.9 OK		
4.000 14 7 81.337 -0.192 0.000 0.05 2.8 OK		
4.001 15 7 81.036 -0.192 0.000 0.05 2.8 OK		
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	
Summary Wizard of 180 minute 2 year Summer I+0% 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) 2		
Climate Change (%) 0		
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe Flow	Status	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s)		
1.000 1 8 83.367 -0.183 0.000 0.08 3.9	OK	
1.001 2 8 83.134 -0.165 0.000 0.16 7.5	OK	
1.002 3 8 82.925 -0.165 0.000 0.16 9.1	OK	
1.003 4 8 82.520 -0.168 0.000 0.14 9.1	OK	
1.004 5 8 82.289 -0.155 0.000 0.21 13.1	OK	
2.000 6 8 81.323 -0.175 0.000 0.11 4.8	OK	
2.001 7 8 81.115 -0.243 0.000 0.08 7.1	OK	
3.000 8 8 81.214 -0.121 0.000 0.44 16.0	OK	
2.002 9 8 81.040 -0.164 0.000 0.42 23.1	OK	
2.003 10 8 81.001 -0.165 0.000 0.42 23.1	OK	
1.005 11 8 80.914 -0.212 0.000 0.40 36.1	OK	
1.006 12 8 80.873 -0.213 0.000 0.39 36.9	OK	
1.007 13 8 80.812 -0.227 0.000 0.33 45.8	OK	
4.000 14 8 81.333 -0.196 0.000 0.04 2.2	OK	
4.001 15 8 81.033 -0.195 0.000 0.04 2.2	OK	
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6196 - Longridge
Network 1
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Summary Wizard of 180 minute 2 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	8	80.896	-0.172	0.000	0.13		6.6	OK
4.003	17	8	80.617	-0.226	0.000	0.14		10.1	OK
5.000	18	8	81.282	-0.198	0.000	0.03		2.1	OK
5.001	19	8	80.992	-0.174	0.000	0.12		6.1	OK
1.008	20	8	80.491	-0.245	0.000	0.26		66.8	OK
1.009	21	8	79.760	-0.310	0.000	0.21		75.6	OK
6.000	22	8	79.906	-0.197	0.000	0.04		1.4	OK
6.001	23	8	79.806	-0.197	0.000	0.04		1.4	OK
6.002	24	8	79.762	-0.151	0.000	0.24		9.1	OK
6.003	25	8	79.559	-0.223	0.000	0.15		10.0	OK
6.004	26	8	79.484	-0.208	0.000	0.20		13.4	OK
7.000	27	8	79.952	-0.197	0.000	0.04		1.7	OK
7.001	28	8	79.715	-0.177	0.000	0.11		4.9	OK
1.010	29	8	79.260	-0.362	0.000	0.21		95.3	OK
1.011	30	8	78.729	-0.371	0.000	0.31		101.0	OK
8.000	31	8	79.023	-0.224	0.000	0.15		10.4	OK
8.001	32	8	78.885	-0.211	0.000	0.19		12.5	OK
1.012	33	9	78.605	-0.418	0.000	0.23		118.8	OK
9.000	34	8	82.572	-0.186	0.000	0.07		5.4	OK
10.000	35	8	81.791	-0.192	0.000	0.05		1.9	OK
10.001	36	8	81.654	-0.165	0.000	0.16		5.9	OK
9.001	37	8	81.542	-0.147	0.000	0.26		12.3	OK
9.002	38	8	81.292	-0.215	0.000	0.18		18.2	OK
9.003	39	8	81.007	-0.205	0.000	0.22		25.0	OK
9.004	40	8	80.620	-0.195	0.000	0.27		29.5	OK
9.005	41	8	80.310	-0.208	0.000	0.21		34.9	OK
11.000	42a	8	82.542	-0.191	0.000	0.05		3.5	OK
11.001	42	8	82.276	-0.174	0.000	0.12		6.7	OK
11.002	43	8	81.643	-0.156	0.000	0.21		11.7	OK
11.003	44	8	81.393	-0.161	0.000	0.18		14.6	OK
12.000	45	8	80.886	-0.201	0.000	0.03		0.9	OK
11.004	46	8	80.805	-0.217	0.000	0.17		16.8	OK
11.005	47	8	80.595	-0.188	0.000	0.30		20.8	OK
13.000	48	8	81.836	-0.179	0.000	0.09		4.8	OK
13.001	49	8	81.666	-0.177	0.000	0.10		5.4	OK
13.002	50	8	81.440	-0.173	0.000	0.12		6.1	OK
13.003	51	8	81.275	-0.173	0.000	0.12		6.1	OK
13.004	52	8	81.118	-0.170	0.000	0.14		9.8	OK
11.006	53	8	80.432	-0.239	0.000	0.28		30.5	OK
11.007	54	8	80.356	-0.244	0.000	0.27		31.7	OK
11.008	55	8	80.256	-0.244	0.000	0.27		31.7	OK
11.009	56	8	80.151	-0.243	0.000	0.27		31.6	OK
11.010	57	8	80.059	-0.238	0.000	0.29		35.6	OK
11.011	58	8	79.924	-0.235	0.000	0.30		35.5	OK

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Innovyze	Network 2019.1	
Summary Wizard of 240 minute 2 year Summer I+0% 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)	2	
Climate Change (%)	0	
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe	Flow	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s) Status		
1.000 1 10 83.363 -0.187 0.000 0.07 3.2	OK	
1.001 2 10 83.128 -0.171 0.000 0.13 6.3	OK	
1.002 3 10 82.920 -0.170 0.000 0.14 7.7	OK	
1.003 4 10 82.515 -0.173 0.000 0.12 7.6	OK	
1.004 5 10 82.282 -0.161 0.000 0.18 11.0	OK	
2.000 6 10 81.319 -0.179 0.000 0.09 4.0	OK	
2.001 7 10 81.109 -0.249 0.000 0.07 6.0	OK	
3.000 8 10 81.213 -0.122 0.000 0.43 15.8	OK	
2.002 9 10 81.036 -0.169 0.000 0.40 21.8	OK	
2.003 10 10 80.996 -0.169 0.000 0.40 21.8	OK	
1.005 11 10 80.906 -0.220 0.000 0.36 32.7	OK	
1.006 12 10 80.864 -0.221 0.000 0.35 33.4	OK	
1.007 13 10 80.802 -0.237 0.000 0.29 40.9	OK	
4.000 14 10 81.331 -0.198 0.000 0.03 1.9	OK	
4.001 15 10 81.030 -0.198 0.000 0.04 1.9	OK	
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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
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Innovyze		Network 2019.1							
Summary Wizard of 360 minute 2 year Summer I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	12	83.358	-0.192	0.000	0.05		2.5	OK
1.001	2	12	83.122	-0.177	0.000	0.10		4.8	OK
1.002	3	12	82.913	-0.177	0.000	0.10		5.9	OK
1.003	4	12	82.509	-0.179	0.000	0.09		5.9	OK
1.004	5	12	82.274	-0.170	0.000	0.14		8.5	OK
2.000	6	12	81.313	-0.185	0.000	0.07		3.1	OK
2.001	7	12	81.102	-0.256	0.000	0.05		4.6	OK
3.000	8	12	81.212	-0.123	0.000	0.43		15.6	OK
2.002	9	12	81.030	-0.174	0.000	0.37		20.2	OK
2.003	10	12	80.991	-0.175	0.000	0.37		20.2	OK
1.005	11	12	80.895	-0.231	0.000	0.31		28.7	OK
1.006	12	12	80.853	-0.233	0.000	0.31		29.2	OK
1.007	13	12	80.791	-0.248	0.000	0.25		35.0	OK
4.000	14	12	81.328	-0.201	0.000	0.03		1.4	OK
4.001	15	12	81.027	-0.201	0.000	0.03		1.4	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr								
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by								
Innovyze	Network 2019.1								
Summary Wizard of 480 minute 2 year Summer I+0% 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 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 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	14	83.355	-0.195	0.000	0.04		2.0	OK
1.001	2	14	83.118	-0.181	0.000	0.08		4.0	OK
1.002	3	14	82.909	-0.181	0.000	0.09		4.9	OK
1.003	4	14	82.505	-0.184	0.000	0.08		4.9	OK
1.004	5	14	82.269	-0.175	0.000	0.11		7.0	OK
2.000	6	14	81.308	-0.190	0.000	0.06		2.5	OK
2.001	7	14	81.098	-0.260	0.000	0.04		3.8	OK
3.000	8	14	81.212	-0.123	0.000	0.42		15.5	OK
2.002	9	14	81.027	-0.177	0.000	0.35		19.3	OK
2.003	10	14	80.988	-0.178	0.000	0.35		19.3	OK
1.005	11	14	80.887	-0.239	0.000	0.29		26.2	OK
1.006	12	14	80.846	-0.240	0.000	0.28		26.7	OK
1.007	13	14	80.784	-0.255	0.000	0.23		31.5	OK
4.000	14	14	81.327	-0.202	0.000	0.02		1.2	OK
4.001	15	14	81.026	-0.202	0.000	0.02		1.2	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	
Summary Wizard of 600 minute 2 year Summer I+0% 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)	2	
Climate Change (%)	0	
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe	Flow Status	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s)		
1.000 1 16 83.353 -0.197 0.000 0.04 1.7	OK	
1.001 2 16 83.114 -0.185 0.000 0.07 3.4	OK	
1.002 3 16 82.905 -0.185 0.000 0.07 4.2	OK	
1.003 4 16 82.501 -0.188 0.000 0.07 4.2	OK	
1.004 5 16 82.266 -0.178 0.000 0.10 6.0	OK	
2.000 6 16 81.305 -0.193 0.000 0.05 2.1	OK	
2.001 7 16 81.095 -0.263 0.000 0.04 3.2	OK	
3.000 8 16 81.212 -0.123 0.000 0.42 15.4	OK	
2.002 9 16 81.025 -0.179 0.000 0.34 18.6	OK	
2.003 10 16 80.986 -0.180 0.000 0.34 18.6	OK	
1.005 11 16 80.883 -0.243 0.000 0.27 24.6	OK	
1.006 12 16 80.841 -0.245 0.000 0.26 25.0	OK	
1.007 13 16 80.780 -0.259 0.000 0.21 29.2	OK	
4.000 14 16 81.324 -0.205 0.000 0.02 1.0	OK	
4.001 15 16 81.023 -0.205 0.000 0.02 1.0	OK	
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	
Summary Wizard of 720 minute 2 year Summer I+0% 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)	2	
Climate Change (%)	0	
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe	Flow	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s) Status		
1.000 1 17 83.351 -0.199 0.000 0.03 1.5	OK	
1.001 2 17 83.111 -0.188 0.000 0.06 3.0	OK	
1.002 3 17 82.902 -0.188 0.000 0.07 3.7	OK	
1.003 4 17 82.498 -0.190 0.000 0.06 3.7	OK	
1.004 5 17 82.263 -0.181 0.000 0.09 5.3	OK	
2.000 6 17 81.303 -0.195 0.000 0.04 1.9	OK	
2.001 7 17 81.093 -0.265 0.000 0.03 2.8	OK	
3.000 8 17 81.211 -0.124 0.000 0.42 15.4	OK	
2.002 9 17 81.023 -0.181 0.000 0.33 18.2	OK	
2.003 10 17 80.984 -0.181 0.000 0.33 18.2	OK	
1.005 11 17 80.879 -0.247 0.000 0.26 23.5	OK	
1.006 12 17 80.838 -0.248 0.000 0.25 23.8	OK	
1.007 13 17 80.776 -0.262 0.000 0.20 27.5	OK	
4.000 14 17 81.321 -0.208 0.000 0.02 0.9	OK	
4.001 15 17 81.021 -0.207 0.000 0.02 0.9	OK	
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6196 - Longridge
Network 1
Surface Water - 2yr

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Network 2019.1

Summary Wizard of 720 minute 2 year Summer I+0% for NETWORK1-05.06.18.SWS

			Water	Surcharged	Flooded			Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	Status
4.002	16	17	80.875	-0.193	0.000	0.05		2.7	OK
4.003	17	17	80.589	-0.254	0.000	0.06		4.1	OK
5.000	18	17	81.269	-0.211	0.000	0.01		0.8	OK
5.001	19	17	80.972	-0.194	0.000	0.05		2.4	OK
1.008	20	17	80.455	-0.281	0.000	0.14		36.1	OK
1.009	21	17	79.720	-0.350	0.000	0.11		39.7	OK
6.000	22	17	79.894	-0.209	0.000	0.02		0.6	OK
6.001	23	17	79.794	-0.209	0.000	0.02		0.6	OK
6.002	24	17	79.734	-0.179	0.000	0.10		3.7	OK
6.003	25	17	79.529	-0.253	0.000	0.06		4.0	OK
6.004	26	17	79.450	-0.242	0.000	0.08		5.4	OK
7.000	27	17	79.940	-0.209	0.000	0.01		0.7	OK
7.001	28	17	79.697	-0.195	0.000	0.04		2.0	OK
1.010	29	17	79.210	-0.412	0.000	0.11		47.7	OK
1.011	30	17	78.657	-0.444	0.000	0.15		50.1	OK
8.000	31	17	78.993	-0.254	0.000	0.06		4.1	OK
8.001	32	17	78.851	-0.246	0.000	0.08		5.0	OK
1.012	33	17	78.477	-0.546	0.000	0.11		57.8	OK
9.000	34	17	82.558	-0.200	0.000	0.03		2.1	OK
10.000	35	17	81.780	-0.203	0.000	0.02		0.8	OK
10.001	36	17	81.631	-0.188	0.000	0.06		2.4	OK
9.001	37	17	81.513	-0.176	0.000	0.11		4.9	OK
9.002	38	17	81.259	-0.247	0.000	0.07		7.3	OK
9.003	39	17	80.972	-0.240	0.000	0.09		10.1	OK
9.004	40	17	80.581	-0.235	0.000	0.11		11.9	OK
9.005	41	17	80.276	-0.242	0.000	0.08		14.2	OK
11.000	42a	17	82.531	-0.202	0.000	0.02		1.4	OK
11.001	42	17	82.256	-0.194	0.000	0.05		2.7	OK
11.002	43	17	81.617	-0.182	0.000	0.08		4.7	OK
11.003	44	17	81.369	-0.185	0.000	0.07		5.9	OK
12.000	45	17	80.873	-0.214	0.000	0.01		0.4	OK
11.004	46	17	80.773	-0.249	0.000	0.07		6.8	OK
11.005	47	17	80.552	-0.231	0.000	0.12		8.4	OK
13.000	48	17	81.818	-0.197	0.000	0.04		1.9	OK
13.001	49	17	81.647	-0.196	0.000	0.04		2.1	OK
13.002	50	17	81.420	-0.194	0.000	0.05		2.4	OK
13.003	51	17	81.255	-0.194	0.000	0.05		2.4	OK
13.004	52	17	81.097	-0.191	0.000	0.06		3.9	OK
11.006	53	17	80.380	-0.291	0.000	0.11		12.3	OK
11.007	54	17	80.307	-0.293	0.000	0.11		12.8	OK
11.008	55	17	80.206	-0.293	0.000	0.11		12.8	OK
11.009	56	17	80.101	-0.293	0.000	0.11		12.8	OK
11.010	57	17	80.007	-0.290	0.000	0.12		14.5	OK
11.011	58	17	79.870	-0.288	0.000	0.12		14.5	OK

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Micro
Drainage

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
9.006	59	17	79.704	-0.356	0.000	0.10		28.7	OK
9.007	60	17	79.250	-0.352	0.000	0.11		29.7	OK
9.008	61	17	78.963	-0.356	0.000	0.10		33.1	OK
1.013	62	17	78.405	-0.493	0.000	0.19		92.4	OK
1.014	63	17	78.349	-0.475	0.000	0.21		94.1	OK
1.015	64	17	78.309	-0.458	0.000	0.32		94.0	OK
1.016	65	17	78.233	-0.514	0.000	0.22		98.5	OK
1.017	66	18	77.968	-0.370	0.000	0.41		98.3	OK
1.018	67	13	77.924	-0.383	0.000	0.38		70.8	OK
1.019	68	13	77.879	-0.406	0.000	0.21		70.7	OK
1.020	69	13	77.875	-0.095	0.000	0.75		70.7	OK

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6196 - Longridge Network 1 Surface Water - 2yr									
Designed by Lees Roxburgh Checked by									
Network 2019.1									
Summary Wizard of 960 minute 2 year Summer I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	20	83.349	-0.201	0.000	0.03		1.3	OK
1.001	2	20	83.107	-0.192	0.000	0.05		2.5	OK
1.002	3	20	82.898	-0.192	0.000	0.05		3.0	OK
1.003	4	20	82.495	-0.194	0.000	0.05		3.0	OK
1.004	5	20	82.258	-0.186	0.000	0.07		4.3	OK
2.000	6	20	81.301	-0.197	0.000	0.04		1.5	OK
2.001	7	20	81.090	-0.268	0.000	0.03		2.3	OK
3.000	8	20	81.211	-0.124	0.000	0.42		15.3	OK
2.002	9	20	81.021	-0.183	0.000	0.32		17.6	OK
2.003	10	20	80.982	-0.184	0.000	0.32		17.6	OK
1.005	11	20	80.875	-0.251	0.000	0.24		22.0	OK
1.006	12	20	80.833	-0.252	0.000	0.23		22.2	OK
1.007	13	20	80.771	-0.268	0.000	0.18		25.2	OK
4.000	14	20	81.318	-0.211	0.000	0.01		0.7	OK
4.001	15	20	81.017	-0.211	0.000	0.01		0.7	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH									
6196 - Longridge Network 1 Surface Water - 2yr									
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Designed by Lees Roxburgh Checked by									
Innovyze		Network 2019.1							
Summary Wizard of 15 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	1	83.397	-0.153	0.000	0.22		10.5	OK
1.001	2	1	83.174	-0.124	0.000	0.41		19.3	OK
1.002	3	1	82.965	-0.125	0.000	0.41		23.0	OK
1.003	4	1	82.557	-0.131	0.000	0.36		22.8	OK
1.004	5	1	82.335	-0.109	0.000	0.52		31.9	OK
2.000	6	1	81.359	-0.139	0.000	0.31		13.1	OK
2.001	7	1	81.152	-0.206	0.000	0.21		18.5	OK
3.000	8	1	81.220	-0.115	0.000	0.48		17.6	OK
2.002	9	1	81.083	-0.121	0.000	0.66		36.3	OK
2.003	10	1	81.044	-0.122	0.000	0.66		36.1	OK
1.005	11	1	80.995	-0.131	0.000	0.75		68.3	OK
1.006	12	1	80.952	-0.134	0.000	0.74		70.1	OK
1.007	13	1	80.883	-0.156	0.000	0.63		88.0	OK
4.000	14	1	81.355	-0.174	0.000	0.11		6.0	OK
4.001	15	1	81.054	-0.174	0.000	0.12		6.1	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	

Summary Wizard of 15 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
9.006	59	1	79.843	-0.217	0.000	0.53	153.2	OK
9.007	60	1	79.395	-0.207	0.000	0.57	156.8	OK
9.008	61	1	79.096	-0.223	0.000	0.50	170.0	OK
1.013	62	1	78.853	-0.045	0.000	0.77	364.2	OK
1.014	63	1	78.775	-0.050	0.000	0.78	348.5	OK
1.015	64	1	78.710	-0.057	0.000	1.13	329.6	OK
1.016	65	2	78.491	-0.256	0.000	0.76	345.4	OK
1.017	66	6	78.338	0.000	0.000	1.45	344.2	OK
1.018	67	21	77.811	-0.496	0.000	0.21	39.0	OK
1.019	68	21	77.761	-0.524	0.000	0.11	38.8	OK
1.020	69	21	77.755	-0.215	0.000	0.41	38.8	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
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Innovyze		Network 2019.1							
Summary Wizard of 30 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	4	83.388	-0.162	0.000	0.18		8.5	OK
1.001	2	4	83.164	-0.135	0.000	0.34		16.0	OK
1.002	3	4	82.956	-0.134	0.000	0.34		19.3	OK
1.003	4	4	82.548	-0.140	0.000	0.31		19.3	OK
1.004	5	4	82.324	-0.120	0.000	0.44		27.5	OK
2.000	6	4	81.349	-0.149	0.000	0.25		10.5	OK
2.001	7	4	81.142	-0.216	0.000	0.17		15.3	OK
3.000	8	4	81.218	-0.117	0.000	0.47		17.1	OK
2.002	9	4	81.071	-0.134	0.000	0.59		32.4	OK
2.003	10	4	81.031	-0.134	0.000	0.59		32.4	OK
1.005	11	4	80.973	-0.153	0.000	0.65		59.7	OK
1.006	12	4	80.932	-0.154	0.000	0.65		61.4	OK
1.007	13	4	80.868	-0.171	0.000	0.57		79.0	OK
4.000	14	4	81.349	-0.180	0.000	0.09		4.9	OK
4.001	15	4	81.049	-0.179	0.000	0.09		4.9	OK
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Science Park South

Birchwood WA3 7BH

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6196 - Longridge

Network 1

Surface Water - 2yr

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Network 2019.1

Summary Wizard of 30 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	4	80.922	-0.146	0.000	0.26		13.9	OK
4.003	17	4	80.654	-0.189	0.000	0.29		21.2	OK
5.000	18	4	81.295	-0.185	0.000	0.07		4.5	OK
5.001	19	4	81.017	-0.149	0.000	0.25		12.8	OK
1.008	20	4	80.544	-0.192	0.000	0.48		121.9	OK
1.009	21	4	79.816	-0.254	0.000	0.39		139.5	OK
6.000	22	4	79.921	-0.182	0.000	0.08		3.1	OK
6.001	23	4	79.827	-0.176	0.000	0.08		3.1	OK
6.002	24	4	79.800	-0.113	0.000	0.49		18.9	OK
6.003	25	4	79.596	-0.186	0.000	0.31		20.8	OK
6.004	26	4	79.529	-0.164	0.000	0.42		27.6	OK
7.000	27	4	79.967	-0.182	0.000	0.08		3.7	OK
7.001	28	4	79.739	-0.153	0.000	0.22		10.4	OK
1.010	29	4	79.327	-0.295	0.000	0.40		179.9	OK
1.011	30	2	78.943	-0.157	0.000	0.59		190.2	OK
8.000	31	4	79.063	-0.184	0.000	0.32		22.6	OK
8.001	32	4	78.930	-0.166	0.000	0.41		27.0	OK
1.012	33	2	78.906	-0.117	0.000	0.42		216.6	OK
9.000	34	4	82.592	-0.166	0.000	0.15		11.8	OK
10.000	35	4	81.808	-0.175	0.000	0.11		4.2	OK
10.001	36	4	81.685	-0.135	0.000	0.34		12.4	OK
9.001	37	4	81.585	-0.104	0.000	0.56		26.2	OK
9.002	38	4	81.334	-0.172	0.000	0.38		38.2	OK
9.003	39	4	81.055	-0.157	0.000	0.46		52.0	OK
9.004	40	4	80.675	-0.140	0.000	0.55		61.0	OK
9.005	41	4	80.355	-0.163	0.000	0.43		72.1	OK
11.000	42a	4	82.560	-0.173	0.000	0.12		7.7	OK
11.001	42	4	82.301	-0.149	0.000	0.25		14.2	OK
11.002	43	4	81.677	-0.122	0.000	0.43		24.7	OK
11.003	44	4	81.425	-0.129	0.000	0.38		30.5	OK
12.000	45	4	80.897	-0.190	0.000	0.06		2.0	OK
11.004	46	4	80.846	-0.176	0.000	0.36		35.3	OK
11.005	47	4	80.656	-0.127	0.000	0.62		43.2	OK
13.000	48	4	81.858	-0.157	0.000	0.20		10.5	OK
13.001	49	4	81.690	-0.153	0.000	0.22		11.6	OK
13.002	50	4	81.466	-0.147	0.000	0.26		13.1	OK
13.003	51	4	81.301	-0.147	0.000	0.26		13.1	OK
13.004	52	4	81.146	-0.142	0.000	0.30		20.8	OK
11.006	53	4	80.505	-0.166	0.000	0.60		63.9	OK
11.007	54	4	80.426	-0.174	0.000	0.56		66.3	OK
11.008	55	4	80.324	-0.175	0.000	0.55		66.0	OK
11.009	56	4	80.220	-0.174	0.000	0.56		65.9	OK
11.010	57	4	80.131	-0.167	0.000	0.59		72.8	OK
11.011	58	4	79.997	-0.162	0.000	0.62		72.8	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	

Summary Wizard of 30 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Flow (l/s)	
9.006	59	4	79.829	-0.231	0.000	0.48	139.6	OK	
9.007	60	3	79.384	-0.219	0.000	0.52	143.7	OK	
9.008	61	2	79.086	-0.233	0.000	0.47	157.6	OK	
1.013	62	2	78.815	-0.082	0.000	0.75	353.9	OK	
1.014	63	2	78.750	-0.074	0.000	0.76	341.8	OK	
1.015	64	2	78.694	-0.073	0.000	1.13	329.6	OK	
1.016	65	1	78.493	-0.255	0.000	0.76	347.0	OK	
1.017	66	4	78.338	0.000	0.000	1.45	345.0	OK	
1.018	67	19	77.877	-0.430	0.000	0.32	59.0	OK	
1.019	68	19	77.826	-0.459	0.000	0.17	58.8	OK	
1.020	69	19	77.821	-0.149	0.000	0.63	58.8	OK	

Lees Roxburgh		Page 61							
The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr								
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by								
Innovyze	Network 2019.1								
Summary Wizard of 60 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	6	83.377	-0.173	0.000	0.12		5.8	OK
1.001	2	6	83.148	-0.151	0.000	0.24		11.3	OK
1.002	3	6	82.940	-0.150	0.000	0.24		13.7	OK
1.003	4	6	82.534	-0.154	0.000	0.22		13.7	OK
1.004	5	6	82.306	-0.138	0.000	0.32		19.6	OK
2.000	6	6	81.335	-0.163	0.000	0.17		7.2	OK
2.001	7	6	81.127	-0.231	0.000	0.12		10.7	OK
3.000	8	6	81.215	-0.120	0.000	0.45		16.5	OK
2.002	9	6	81.054	-0.151	0.000	0.50		27.1	OK
2.003	10	6	81.014	-0.151	0.000	0.49		27.1	OK
1.005	11	6	80.941	-0.185	0.000	0.51		46.7	OK
1.006	12	6	80.900	-0.186	0.000	0.51		47.9	OK
1.007	13	6	80.838	-0.201	0.000	0.44		61.2	OK
4.000	14	6	81.340	-0.189	0.000	0.06		3.3	OK
4.001	15	6	81.040	-0.188	0.000	0.06		3.3	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	

Summary Wizard of 60 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Flow (l/s)	
9.006	59	6	79.795	-0.265	0.000	0.36	103.9	OK	
9.007	60	6	79.347	-0.256	0.000	0.39	107.3	OK	
9.008	61	6	79.053	-0.266	0.000	0.35	119.0	OK	
1.013	62	6	78.662	-0.235	0.000	0.61	287.5	OK	
1.014	63	6	78.609	-0.215	0.000	0.65	291.7	OK	
1.015	64	6	78.565	-0.202	0.000	1.00	291.5	OK	
1.016	65	6	78.449	-0.299	0.000	0.67	304.9	OK	
1.017	66	5	78.338	0.000	0.000	1.28	304.1	OK	
1.018	67	12	77.930	-0.377	0.000	0.39	72.1	OK	
1.019	68	12	77.886	-0.399	0.000	0.21	71.0	OK	
1.020	69	12	77.882	-0.088	0.000	0.76	70.9	OK	

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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX		Designed by Lees Roxburgh Checked by							
Innovyze		Network 2019.1							
Summary Wizard of 120 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	9	83.367	-0.183	0.000	0.08		3.7	OK
1.001	2	9	83.133	-0.166	0.000	0.16		7.3	OK
1.002	3	9	82.924	-0.165	0.000	0.16		8.9	OK
1.003	4	9	82.519	-0.169	0.000	0.14		8.9	OK
1.004	5	9	82.288	-0.156	0.000	0.21		12.8	OK
2.000	6	9	81.322	-0.176	0.000	0.11		4.6	OK
2.001	7	9	81.114	-0.244	0.000	0.08		6.9	OK
3.000	8	9	81.214	-0.121	0.000	0.44		15.9	OK
2.002	9	9	81.039	-0.165	0.000	0.42		22.9	OK
2.003	10	9	81.000	-0.166	0.000	0.42		22.9	OK
1.005	11	9	80.913	-0.213	0.000	0.39		35.7	OK
1.006	12	9	80.872	-0.214	0.000	0.39		36.5	OK
1.007	13	9	80.811	-0.228	0.000	0.33		45.4	OK
4.000	14	9	81.333	-0.196	0.000	0.04		2.1	OK
4.001	15	9	81.032	-0.196	0.000	0.04		2.1	OK
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Micro
Drainage

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe			
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
9.006	59	9	79.758	-0.302	0.000	0.24		69.0	OK
9.007	60	9	79.307	-0.295	0.000	0.26		71.4	OK
9.008	61	9	79.016	-0.303	0.000	0.24		79.5	OK
1.013	62	8	78.556	-0.341	0.000	0.42		200.5	OK
1.014	63	8	78.505	-0.320	0.000	0.45		204.1	OK
1.015	64	8	78.464	-0.303	0.000	0.70		204.1	OK
1.016	65	8	78.360	-0.388	0.000	0.47		214.4	OK
1.017	66	8	78.143	-0.195	0.000	0.90		214.1	OK
1.018	67	3	77.972	-0.335	0.000	0.40		74.1	OK
1.019	68	3	77.941	-0.344	0.000	0.21		72.4	OK
1.020	69	3	77.936	-0.034	0.000	0.77		72.3	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX		Designed by Lees Roxburgh Checked by							
Innovyze		Network 2019.1							
Summary Wizard of 180 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	11	83.360	-0.190	0.000	0.06		2.9	OK
1.001	2	11	83.125	-0.174	0.000	0.12		5.6	OK
1.002	3	11	82.917	-0.173	0.000	0.12		6.8	OK
1.003	4	11	82.513	-0.176	0.000	0.11		6.8	OK
1.004	5	11	82.279	-0.165	0.000	0.16		9.8	OK
2.000	6	11	81.316	-0.182	0.000	0.08		3.5	OK
2.001	7	11	81.105	-0.253	0.000	0.06		5.3	OK
3.000	8	11	81.213	-0.122	0.000	0.43		15.7	OK
2.002	9	11	81.033	-0.171	0.000	0.38		21.0	OK
2.003	10	11	80.994	-0.172	0.000	0.38		21.0	OK
1.005	11	11	80.901	-0.225	0.000	0.34		30.9	OK
1.006	12	11	80.859	-0.226	0.000	0.33		31.4	OK
1.007	13	11	80.797	-0.242	0.000	0.27		38.3	OK
4.000	14	11	81.330	-0.199	0.000	0.03		1.6	OK
4.001	15	11	81.029	-0.199	0.000	0.03		1.6	OK
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Science Park South
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6196 - Longridge
Network 1
Surface Water - 2yr

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Summary Wizard of 180 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
4.002	16	11	80.889	-0.179	0.000	0.09	5.0	OK
4.003	17	11	80.608	-0.235	0.000	0.11	7.6	OK
5.000	18	11	81.279	-0.201	0.000	0.03	1.5	OK
5.001	19	11	80.986	-0.180	0.000	0.09	4.6	OK
1.008	20	11	80.478	-0.258	0.000	0.21	54.2	OK
1.009	21	11	79.745	-0.325	0.000	0.17	61.0	OK
6.000	22	11	79.903	-0.200	0.000	0.03	1.1	OK
6.001	23	11	79.803	-0.200	0.000	0.03	1.1	OK
6.002	24	11	79.751	-0.161	0.000	0.18	6.8	OK
6.003	25	11	79.548	-0.233	0.000	0.11	7.5	OK
6.004	26	11	79.471	-0.222	0.000	0.15	10.1	OK
7.000	27	11	79.949	-0.200	0.000	0.03	1.3	OK
7.001	28	11	79.709	-0.183	0.000	0.08	3.7	OK
1.010	29	11	79.240	-0.381	0.000	0.17	75.9	OK
1.011	30	11	78.702	-0.399	0.000	0.25	80.3	OK
8.000	31	11	79.012	-0.235	0.000	0.11	7.7	OK
8.001	32	11	78.871	-0.225	0.000	0.14	9.3	OK
1.012	33	11	78.559	-0.464	0.000	0.18	94.5	OK
9.000	34	11	82.566	-0.192	0.000	0.05	4.0	OK
10.000	35	11	81.786	-0.197	0.000	0.04	1.4	OK
10.001	36	11	81.646	-0.173	0.000	0.12	4.4	OK
9.001	37	11	81.532	-0.157	0.000	0.20	9.2	OK
9.002	38	11	81.280	-0.227	0.000	0.14	13.6	OK
9.003	39	11	80.993	-0.219	0.000	0.17	18.8	OK
9.004	40	11	80.606	-0.209	0.000	0.20	22.2	OK
9.005	41	11	80.297	-0.221	0.000	0.16	26.4	OK
11.000	42a	11	82.537	-0.196	0.000	0.04	2.6	OK
11.001	42	11	82.270	-0.180	0.000	0.09	5.0	OK
11.002	43	11	81.633	-0.166	0.000	0.15	8.8	OK
11.003	44	11	81.384	-0.170	0.000	0.14	10.9	OK
12.000	45	11	80.883	-0.204	0.000	0.02	0.7	OK
11.004	46	11	80.793	-0.229	0.000	0.13	12.6	OK
11.005	47	11	80.579	-0.204	0.000	0.23	15.7	OK
13.000	48	11	81.828	-0.187	0.000	0.07	3.5	OK
13.001	49	11	81.659	-0.184	0.000	0.08	4.0	OK
13.002	50	11	81.434	-0.180	0.000	0.09	4.5	OK
13.003	51	11	81.269	-0.180	0.000	0.09	4.5	OK
13.004	52	11	81.111	-0.177	0.000	0.10	7.3	OK
11.006	53	11	80.413	-0.258	0.000	0.21	23.0	OK
11.007	54	11	80.339	-0.261	0.000	0.20	23.9	OK
11.008	55	11	80.238	-0.262	0.000	0.20	23.9	OK
11.009	56	11	80.133	-0.261	0.000	0.20	23.9	OK
11.010	57	11	80.041	-0.257	0.000	0.22	27.0	OK
11.011	58	11	79.904	-0.254	0.000	0.23	27.0	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr								
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by								
Innovyze	Network 2019.1								
Summary Wizard of 240 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	13	83.357	-0.193	0.000	0.05		2.4	OK
1.001	2	13	83.121	-0.178	0.000	0.10		4.6	OK
1.002	3	13	82.912	-0.178	0.000	0.10		5.6	OK
1.003	4	13	82.509	-0.180	0.000	0.09		5.6	OK
1.004	5	13	82.273	-0.171	0.000	0.13		8.1	OK
2.000	6	13	81.311	-0.187	0.000	0.07		2.9	OK
2.001	7	13	81.101	-0.257	0.000	0.05		4.4	OK
3.000	8	13	81.212	-0.123	0.000	0.43		15.6	OK
2.002	9	13	81.029	-0.175	0.000	0.36		20.0	OK
2.003	10	13	80.990	-0.175	0.000	0.36		20.0	OK
1.005	11	13	80.893	-0.233	0.000	0.31		28.1	OK
1.006	12	13	80.851	-0.235	0.000	0.30		28.6	OK
1.007	13	13	80.789	-0.249	0.000	0.25		34.3	OK
4.000	14	13	81.328	-0.201	0.000	0.03		1.4	OK
4.001	15	13	81.027	-0.201	0.000	0.03		1.4	OK
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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
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Innovyze		Network 2019.1							
Summary Wizard of 360 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	15	83.353	-0.197	0.000	0.04		1.8	OK
1.001	2	15	83.114	-0.185	0.000	0.07		3.5	OK
1.002	3	15	82.906	-0.184	0.000	0.08		4.3	OK
1.003	4	15	82.502	-0.187	0.000	0.07		4.3	OK
1.004	5	15	82.266	-0.178	0.000	0.10		6.2	OK
2.000	6	15	81.306	-0.192	0.000	0.05		2.2	OK
2.001	7	15	81.095	-0.263	0.000	0.04		3.3	OK
3.000	8	15	81.212	-0.123	0.000	0.42		15.4	OK
2.002	9	15	81.025	-0.179	0.000	0.34		18.8	OK
2.003	10	15	80.986	-0.179	0.000	0.34		18.8	OK
1.005	11	15	80.884	-0.242	0.000	0.27		24.9	OK
1.006	12	15	80.842	-0.244	0.000	0.27		25.3	OK
1.007	13	15	80.780	-0.258	0.000	0.21		29.6	OK
4.000	14	15	81.324	-0.205	0.000	0.02		1.0	OK
4.001	15	15	81.024	-0.204	0.000	0.02		1.0	OK
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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe			Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (1/s)	Flow (1/s)	
9.006	59	15	79.711	-0.349	0.000	0.11		33.4	OK
9.007	60	15	79.258	-0.345	0.000	0.13		34.6	OK
9.008	61	15	78.970	-0.349	0.000	0.11		38.6	OK
1.013	62	15	78.426	-0.472	0.000	0.22		105.4	OK
1.014	63	15	78.371	-0.453	0.000	0.24		107.3	OK
1.015	64	15	78.331	-0.436	0.000	0.37		107.3	OK
1.016	65	15	78.250	-0.498	0.000	0.25		112.6	OK
1.017	66	14	78.003	-0.335	0.000	0.47		112.4	OK
1.018	67	5	77.969	-0.338	0.000	0.39		72.5	OK
1.019	68	5	77.936	-0.349	0.000	0.21		72.3	OK
1.020	69	5	77.932	-0.038	0.000	0.77		72.2	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX	Designed by Lees Roxburgh Checked by	
Innovyze	Network 2019.1	
Summary Wizard of 480 minute 2 year Winter I+0% 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) 2		
Climate Change (%) 0		
Water Surcharged Flooded Pipe		
US/MH Storm Level Depth Volume Flow / Overflow Pipe	Flow Status	
PN Name Rank (m) (m) (m³) Cap. (l/s) (l/s)		
1.000 1 18 83.351 -0.199 0.000 0.03 1.5	OK	
1.001 2 18 83.110 -0.189 0.000 0.06 2.9	OK	
1.002 3 18 82.901 -0.189 0.000 0.06 3.5	OK	
1.003 4 18 82.497 -0.191 0.000 0.06 3.5	OK	
1.004 5 18 82.262 -0.182 0.000 0.08 5.1	OK	
2.000 6 18 81.303 -0.195 0.000 0.04 1.8	OK	
2.001 7 18 81.092 -0.266 0.000 0.03 2.7	OK	
3.000 8 18 81.211 -0.124 0.000 0.42 15.4	OK	
2.002 9 18 81.023 -0.182 0.000 0.33 18.1	OK	
2.003 10 18 80.984 -0.182 0.000 0.33 18.1	OK	
1.005 11 18 80.878 -0.248 0.000 0.25 23.1	OK	
1.006 12 18 80.837 -0.249 0.000 0.25 23.4	OK	
1.007 13 18 80.775 -0.264 0.000 0.19 27.0	OK	
4.000 14 18 81.321 -0.208 0.000 0.02 0.8	OK	
4.001 15 18 81.020 -0.208 0.000 0.02 0.8	OK	
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The Genesis Centre
Science Park South
Birchwood WA3 7BH

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6196 - Longridge
Network 1
Surface Water - 2yr

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Network 2019.1

Summary Wizard of 480 minute 2 year Winter I+0% for NETWORK1-05.06.18.SWS

			Water	Surcharged	Flooded			Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	Status
4.002	16	18	80.875	-0.193	0.000	0.05		2.5	OK
4.003	17	18	80.588	-0.255	0.000	0.05		3.9	OK
5.000	18	18	81.269	-0.211	0.000	0.01		0.8	OK
5.001	19	18	80.972	-0.194	0.000	0.05		2.3	OK
1.008	20	18	80.453	-0.283	0.000	0.14		35.2	OK
1.009	21	18	79.718	-0.351	0.000	0.11		38.6	OK
6.000	22	18	79.893	-0.210	0.000	0.01		0.5	OK
6.001	23	18	79.794	-0.209	0.000	0.01		0.5	OK
6.002	24	18	79.733	-0.179	0.000	0.09		3.5	OK
6.003	25	18	79.528	-0.254	0.000	0.06		3.9	OK
6.004	26	18	79.449	-0.244	0.000	0.08		5.2	OK
7.000	27	18	79.939	-0.210	0.000	0.01		0.6	OK
7.001	28	18	79.696	-0.196	0.000	0.04		1.9	OK
1.010	29	18	79.209	-0.413	0.000	0.10		46.3	OK
1.011	30	18	78.655	-0.446	0.000	0.15		48.6	OK
8.000	31	18	78.992	-0.255	0.000	0.06		3.9	OK
8.001	32	18	78.849	-0.247	0.000	0.07		4.8	OK
1.012	33	18	78.473	-0.550	0.000	0.11		56.0	OK
9.000	34	18	82.557	-0.201	0.000	0.03		2.0	OK
10.000	35	18	81.779	-0.204	0.000	0.02		0.7	OK
10.001	36	18	81.630	-0.189	0.000	0.06		2.3	OK
9.001	37	18	81.512	-0.177	0.000	0.10		4.7	OK
9.002	38	18	81.258	-0.249	0.000	0.07		7.0	OK
9.003	39	18	80.971	-0.241	0.000	0.09		9.7	OK
9.004	40	18	80.579	-0.236	0.000	0.10		11.4	OK
9.005	41	18	80.274	-0.244	0.000	0.08		13.6	OK
11.000	42a	18	82.530	-0.203	0.000	0.02		1.3	OK
11.001	42	18	82.255	-0.195	0.000	0.04		2.6	OK
11.002	43	18	81.616	-0.183	0.000	0.08		4.5	OK
11.003	44	18	81.368	-0.186	0.000	0.07		5.6	OK
12.000	45	18	80.873	-0.214	0.000	0.01		0.3	OK
11.004	46	18	80.772	-0.250	0.000	0.07		6.5	OK
11.005	47	18	80.551	-0.232	0.000	0.12		8.0	OK
13.000	48	18	81.817	-0.198	0.000	0.03		1.8	OK
13.001	49	18	81.646	-0.197	0.000	0.04		2.0	OK
13.002	50	18	81.420	-0.194	0.000	0.05		2.3	OK
13.003	51	18	81.254	-0.194	0.000	0.05		2.3	OK
13.004	52	18	81.096	-0.192	0.000	0.05		3.7	OK
11.006	53	18	80.378	-0.293	0.000	0.11		11.8	OK
11.007	54	18	80.305	-0.295	0.000	0.10		12.3	OK
11.008	55	18	80.205	-0.295	0.000	0.10		12.3	OK
11.009	56	18	80.099	-0.295	0.000	0.10		12.3	OK
11.010	57	18	80.006	-0.292	0.000	0.11		13.9	OK
11.011	58	18	79.869	-0.290	0.000	0.12		13.9	OK

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The Genesis Centre
Science Park South
Birchwood WA3 7BH

6196 - Longridge
Network 1
Surface Water - 2yr

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Network 2019.1

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Summary Wizard of 600 minute 2 year Winter I+0% 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 (1/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)

2

Climate Change (%)

0

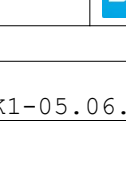
				Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	Status
1.000	1	19	83.349	-0.201	0.000	0.03		1.3	OK
1.001	2	19	83.107	-0.192	0.000	0.05		2.5	OK
1.002	3	19	82.898	-0.192	0.000	0.05		3.0	OK
1.003	4	19	82.495	-0.194	0.000	0.05		3.0	OK
1.004	5	19	82.258	-0.186	0.000	0.07		4.3	OK
2.000	6	19	81.301	-0.197	0.000	0.04		1.5	OK
2.001	7	19	81.090	-0.268	0.000	0.03		2.3	OK
3.000	8	19	81.211	-0.124	0.000	0.42		15.3	OK
2.002	9	19	81.021	-0.183	0.000	0.32		17.6	OK
2.003	10	19	80.982	-0.184	0.000	0.32		17.6	OK
1.005	11	19	80.875	-0.251	0.000	0.24		22.0	OK
1.006	12	19	80.833	-0.252	0.000	0.24		22.2	OK
1.007	13	19	80.771	-0.268	0.000	0.18		25.3	OK
4.000	14	19	81.318	-0.211	0.000	0.01		0.7	OK
4.001	15	19	81.018	-0.210	0.000	0.01		0.7	OK

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Micro
Drainage

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
9.006	59	19	79.695	-0.365	0.000	0.08		23.5	OK
9.007	60	19	79.242	-0.360	0.000	0.09		24.3	OK
9.008	61	19	78.954	-0.365	0.000	0.08		27.1	OK
1.013	62	19	78.382	-0.516	0.000	0.17		78.6	OK
1.014	63	19	78.324	-0.500	0.000	0.18		80.0	OK
1.015	64	19	78.284	-0.484	0.000	0.27		80.0	OK
1.016	65	19	78.214	-0.534	0.000	0.18		83.7	OK
1.017	66	19	77.960	-0.378	0.000	0.35		83.6	OK
1.018	67	14	77.920	-0.387	0.000	0.38		70.5	OK
1.019	68	14	77.873	-0.412	0.000	0.21		70.4	OK
1.020	69	14	77.868	-0.102	0.000	0.75		70.4	OK

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 2yr	
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Innovyze	Network 2019.1	

Summary Wizard of 720 minute 2 year Winter I+0% 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 (1/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) 2

Climate Change (%) 0

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	1	21	83.348	-0.202	0.000	0.02	1.1	OK
1.001	2	21	83.105	-0.194	0.000	0.05	2.2	OK
1.002	3	21	82.896	-0.194	0.000	0.05	2.6	OK
1.003	4	21	82.493	-0.196	0.000	0.04	2.6	OK
1.004	5	21	82.255	-0.189	0.000	0.06	3.8	OK
2.000	6	21	81.299	-0.199	0.000	0.03	1.4	OK
2.001	7	21	81.089	-0.269	0.000	0.02	2.0	OK
3.000	8	21	81.211	-0.124	0.000	0.42	15.3	OK
2.002	9	21	81.020	-0.185	0.000	0.32	17.3	OK
2.003	10	21	80.981	-0.185	0.000	0.32	17.3	OK
1.005	11	21	80.873	-0.253	0.000	0.23	21.1	OK
1.006	12	21	80.831	-0.255	0.000	0.23	21.4	OK
1.007	13	21	80.768	-0.271	0.000	0.17	24.0	OK
4.000	14	21	81.317	-0.212	0.000	0.01	0.6	OK
4.001	15	21	81.016	-0.212	0.000	0.01	0.6	OK

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Micro
Drainage

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
9.006	59	21	79.688	-0.372	0.000	0.07	20.7	OK
9.007	60	21	79.235	-0.367	0.000	0.08	21.4	OK
9.008	61	21	78.947	-0.372	0.000	0.07	23.9	OK
1.013	62	21	78.370	-0.528	0.000	0.15	71.0	OK
1.014	63	21	78.311	-0.514	0.000	0.16	72.3	OK
1.015	64	21	78.270	-0.498	0.000	0.25	72.3	OK
1.016	65	21	78.202	-0.546	0.000	0.17	75.6	OK
1.017	66	21	77.945	-0.393	0.000	0.32	75.5	OK
1.018	67	15	77.904	-0.403	0.000	0.36	66.7	OK
1.019	68	15	77.855	-0.430	0.000	0.20	66.7	OK
1.020	69	15	77.850	-0.120	0.000	0.71	66.7	OK

Lees Roxburgh		Page 85							
The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 2yr							
Date 26/02/2024 14:48 File NETWORK1SW 31.07.23.MDX		Designed by Lees Roxburgh Checked by							
Innovyze		Network 2019.1							
Summary Wizard of 960 minute 2 year Winter I+0% 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) 2									
Climate Change (%) 0									
Water Surcharged Flooded Pipe									
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	22	83.345	-0.205	0.000	0.02		0.9	OK
1.001	2	22	83.102	-0.197	0.000	0.04		1.8	OK
1.002	3	22	82.893	-0.197	0.000	0.04		2.2	OK
1.003	4	22	82.490	-0.198	0.000	0.03		2.2	OK
1.004	5	22	82.251	-0.193	0.000	0.05		3.1	OK
2.000	6	22	81.297	-0.201	0.000	0.03		1.1	OK
2.001	7	22	81.085	-0.273	0.000	0.02		1.7	OK
3.000	8	22	81.211	-0.124	0.000	0.42		15.2	OK
2.002	9	22	81.018	-0.186	0.000	0.31		16.9	OK
2.003	10	22	80.979	-0.187	0.000	0.31		16.9	OK
1.005	11	22	80.869	-0.257	0.000	0.22		20.0	OK
1.006	12	22	80.828	-0.258	0.000	0.21		20.2	OK
1.007	13	22	80.764	-0.275	0.000	0.16		22.4	OK
4.000	14	22	81.314	-0.215	0.000	0.01		0.5	OK
4.001	15	22	81.013	-0.215	0.000	0.01		0.5	OK
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