

PRELIMINARY SURFACE WATER DRAINAGE NETWORK DETAILS

Site at Former Glen Dimplex, Stoney Lane, Whiston

For

Taylor Wimpey

Taylor
Wimpey



Rev. 1.0

20th August 2026

FORMER GLEN DIMPLEX, STONEY LANE, WHISTON

Drainage Network Details

20th August 2026

Issue no.	Rev. 1.0			
Date:	20 th Aug 2026			
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CONTENTS

Surface Water System Details

Plan of proposed Surface Drainage Network

Simulation Settings

Node Details

Link Details

Pipeline Schedules

Manhole Schedules

Flow Controls

Storage Structures

Simulation

Simulation Results for the 1yr Return Period

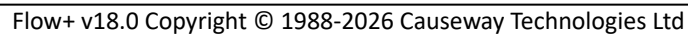
Simulation Results for the 2yr Return Period

Simulation Results for the 30yr Return Period

Simulation Results for the 100yr Return Period

Simulation Results for the 100yr Return Period + 45% Climate Change

Simulation Results for the 200yr Return Period



Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	1 year (l/s)	42.2
Rainfall Events	Singular	Drain Down Time (mins)	1440	2 year (l/s)	42.4
Summer CV	1.000	Additional Storage (m³/ha)	0.0	30 year (l/s)	42.4
Winter CV	1.000	Starting Level (m)		100 year (l/s)	42.4
Analysis Speed	Detailed	Check Discharge Rate(s)	✓	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
2	0	0	0
30	0	0	0
100	0	0	0
100	45	0	0
200	0	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	SPR	0.10	Betterment (%)	0
Greenfield Method	IH124	Region	1	QBar	
Positively Drained Area (ha)		Growth Factor 1 year	0.85	Q 1 year (l/s)	
SAAR (mm)		Growth Factor 30 year	1.95	Q 30 year (l/s)	
Soil Index	1	Growth Factor 100 year	2.48	Q 100 year (l/s)	

Nodes								
Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
S1	0.010	5.00	60.797	1350	347945.194	391628.292	1.659	59.138
S2	0.092	5.00	60.635	1350	347941.921	391610.063	1.621	59.014
S3	0.088	5.00	60.389	1800	347931.180	391583.485	1.641	58.748
S4	0.062	5.00	60.203	1500	347905.708	391593.748	1.645	58.558
S5	0.090	5.00	59.955	1350	347887.069	391642.825	1.253	58.702
S6	0.205	5.00	60.130	2400	347878.280	391604.799	2.042	58.088
S7	0.062	5.00	59.628	2100	347857.494	391553.515	1.678	57.950
S8	0.053	5.00	59.584	2100	347860.047	391547.707	1.650	57.934
S9	0.195	5.00	59.679	2100	347882.811	391538.561	1.806	57.873
S10	0.198	5.00	59.777	2100	347947.445	391512.593	2.080	57.697
S16	0.145	5.00	61.791	2100	348160.138	391490.862	3.658	58.133
S17	0.200	5.00	60.742	2100	348104.767	391513.234	2.758	57.984
S18	0.158	5.00	60.323	2100	348056.250	391532.836	2.470	57.853
S11	0.251	5.00	61.146	1500	348118.621	391574.685	2.732	58.414
S12	0.105	5.00	60.824	1500	348017.411	391615.435	1.675	59.149
S13	0.022	5.00	60.776	1500	348023.976	391609.685	1.801	58.975
S14	0.049	5.00	60.649	1500	348040.478	391606.148	2.012	58.637
S15			60.490	1800	348058.369	391598.944	2.238	58.252
S19	0.209	5.00	60.208	2100	347959.786	391571.810	2.208	58.000
S20	0.129	5.00	59.972	2100	348015.516	391549.294	2.123	57.849
S21			60.242	2700	348035.180	391541.349	2.446	57.796
S22			59.683		348029.837	391528.020	1.924	57.759
S23		5.00	59.683		348018.331	391499.471	2.000	57.683
S25	0.101	5.00	61.506	1200	348158.094	391472.702	1.425	60.081
S24	0.128	5.00	60.271	1200	348135.710	391410.594	1.599	58.672
S26			60.587	1500	348144.008	391433.619	2.286	58.301
S27	0.037	5.00	60.472	2100	348140.169	391435.162	2.482	57.990
S28	0.262	5.00	60.033	2100	348093.698	391453.833	2.168	57.865
S29	0.131	5.00	59.787	2100	348036.303	391476.892	2.076	57.711
S30	0.082	5.00	60.089	2700	348012.998	391486.256	2.441	57.648
S31			60.074	2700	347989.644	391495.638	2.489	57.585
S32			59.529	1350	347978.493	391468.039	2.423	57.106
S33			59.549	1350	347986.213	391464.920	2.493	57.056
Ex MH34			58.500	1350	347983.573	391437.196	1.540	56.960

Links (Input)											
Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S1	S2	18.520	0.600	59.138	59.014	0.124	149.4	225	5.29	38.8
1.001	S2	S3	28.667	0.600	59.014	58.823	0.191	150.1	225	5.74	37.4
1.002	S3	S4	27.462	0.600	58.748	58.633	0.115	238.8	300	6.19	36.2
1.003	S4	S6	29.571	0.600	58.558	58.463	0.095	311.3	375	6.67	34.9
2.000	S5	S6	39.028	0.600	58.702	58.538	0.164	238.0	300	5.64	37.7
1.004	S6	S7	55.336	0.600	58.088	57.950	0.138	401.0	750	7.34	33.3
1.005	S7	S8	6.345	0.600	57.950	57.934	0.016	396.6	750	7.41	33.1
1.006	S8	S9	24.533	0.600	57.934	57.873	0.061	402.2	750	7.71	32.4
1.007	S9	S10	69.656	0.600	57.873	57.697	0.176	395.8	750	8.53	30.7
1.008	S10	S31	45.477	0.600	57.697	57.585	0.112	406.0	750	9.08	29.7
3.000	S16	S17	59.720	0.600	58.133	57.984	0.149	400.8	750	5.72	37.5
3.001	S17	S18	52.327	0.600	57.984	57.853	0.131	399.4	750	6.34	35.8
3.002	S18	S21	22.725	0.600	57.853	57.796	0.057	398.7	750	6.61	35.1
4.000	S11	S15	64.952	0.600	58.414	58.252	0.162	400.9	450	6.07	36.5
5.000	S12	S13	8.727	0.600	59.149	58.975	0.174	50.2	450	5.05	39.5

Links (Input)											
Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
5.001	S13	S14	16.877	0.600	58.975	58.637	0.338	49.9	450	5.15	39.2
5.002	S14	S15	19.286	0.600	58.637	58.252	0.385	50.1	450	5.26	38.8
4.001	S15	S21	62.089	0.600	58.252	58.096	0.156	398.0	450	7.09	33.8
6.000	S19	S20	60.106	0.600	58.000	57.849	0.151	398.1	750	5.72	37.5
6.001	S20	S21	21.208	0.600	57.849	57.796	0.053	400.2	750	5.97	36.8
3.003	S21	S22	14.360	0.600	57.796	57.760	0.036	398.9	750	7.27	33.4
3.005	S23	S30	14.251	0.600	57.683	57.648	0.035	407.2	750	5.17	39.1
7.000	S25	S26	41.544	0.600	60.081	58.526	1.555	26.7	225	5.27	38.8
8.000	S24	S26	24.475	0.600	58.672	58.526	0.146	167.6	225	5.41	38.4
7.001	S26	S27	4.138	0.600	58.301	58.290	0.011	376.2	450	5.47	38.2
7.002	S27	S28	50.081	0.600	57.990	57.865	0.125	400.6	750	6.07	36.5
7.003	S28	S29	61.853	0.600	57.865	57.711	0.154	401.6	750	6.81	34.5
7.004	S29	S30	25.117	0.600	57.711	57.648	0.063	398.7	750	7.11	33.8
3.006	S30	S31	25.168	0.600	57.648	57.585	0.063	399.5	750	7.41	33.1
1.009	S31	S32	29.766	0.600	57.585	57.106	0.479	62.1	300	9.33	29.3
1.010	S32	S33	8.326	0.600	57.106	57.056	0.050	166.5	225	9.47	29.0
1.011	S33	Ex MH34	27.850	0.600	57.056	56.960	0.096	290.1	225	10.08	28.0
Pipeline Schedule											
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)	
1.000	18.520	149.4	225	Circular	60.797	59.138	1.434	60.635	59.014	1.396	
1.001	28.667	150.1	225	Circular	60.635	59.014	1.396	60.389	58.823	1.341	
1.002	27.462	238.8	300	Circular	60.389	58.748	1.341	60.203	58.633	1.270	
1.003	29.571	311.3	375	Circular	60.203	58.558	1.270	60.130	58.463	1.292	
2.000	39.028	238.0	300	Circular	59.955	58.702	0.953	60.130	58.538	1.292	
1.004	55.336	401.0	750	Circular	60.130	58.088	1.292	59.628	57.950	0.928	
1.005	6.345	396.6	750	Circular	59.628	57.950	0.928	59.584	57.934	0.900	
1.006	24.533	402.2	750	Circular	59.584	57.934	0.900	59.679	57.873	1.056	
1.007	69.656	395.8	750	Circular	59.679	57.873	1.056	59.777	57.697	1.330	
1.008	45.477	406.0	750	Circular	59.777	57.697	1.330	60.074	57.585	1.739	
3.000	59.720	400.8	750	Circular	61.791	58.133	2.908	60.742	57.984	2.008	
3.001	52.327	399.4	750	Circular	60.742	57.984	2.008	60.323	57.853	1.720	
3.002	22.725	398.7	750	Circular	60.323	57.853	1.720	60.242	57.796	1.696	
4.000	64.952	400.9	450	Circular	61.146	58.414	2.282	60.490	58.252	1.788	
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type			
1.000	S1	1350	Manhole	Adoptable	S2	1350	Manhole	Adoptable			
1.001	S2	1350	Manhole	Adoptable	S3	1800	Manhole	Adoptable			
1.002	S3	1800	Manhole	Adoptable	S4	1500	Manhole	Adoptable			
1.003	S4	1500	Manhole	Adoptable	S6	2400	Manhole	Adoptable			
2.000	S5	1350	Manhole	Adoptable	S6	2400	Manhole	Adoptable			
1.004	S6	2400	Manhole	Adoptable	S7	2100	Manhole	Adoptable			
1.005	S7	2100	Manhole	Adoptable	S8	2100	Manhole	Adoptable			
1.006	S8	2100	Manhole	Adoptable	S9	2100	Manhole	Adoptable			
1.007	S9	2100	Manhole	Adoptable	S10	2100	Manhole	Adoptable			
1.008	S10	2100	Manhole	Adoptable	S31	2700	Manhole	Adoptable			
3.000	S16	2100	Manhole	Adoptable	S17	2100	Manhole	Adoptable			
3.001	S17	2100	Manhole	Adoptable	S18	2100	Manhole	Adoptable			
3.002	S18	2100	Manhole	Adoptable	S21	2700	Manhole	Adoptable			
4.000	S11	1500	Manhole	Adoptable	S15	1800	Manhole	Adoptable			

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
5.000	8.727	50.2	450	Circular	60.824	59.149	1.225	60.776	58.975	1.351
5.001	16.877	49.9	450	Circular	60.776	58.975	1.351	60.649	58.637	1.562
5.002	19.286	50.1	450	Circular	60.649	58.637	1.562	60.490	58.252	1.788
4.001	62.089	398.0	450	Circular	60.490	58.252	1.788	60.242	58.096	1.696
6.000	60.106	398.1	750	Circular	60.208	58.000	1.458	59.972	57.849	1.373
6.001	21.208	400.2	750	Circular	59.972	57.849	1.373	60.242	57.796	1.696
3.003	14.360	398.9	750	Circular	60.242	57.796	1.696	59.683	57.760	1.173
3.005	14.251	407.2	750	Circular	59.683	57.683	1.250	60.089	57.648	1.691
7.000	41.544	26.7	225	Circular	61.506	60.081	1.200	60.587	58.526	1.836
8.000	24.475	167.6	225	Circular	60.271	58.672	1.374	60.587	58.526	1.836
7.001	4.138	376.2	450	Circular	60.587	58.301	1.836	60.472	58.290	1.732
7.002	50.081	400.6	750	Circular	60.472	57.990	1.732	60.033	57.865	1.418
7.003	61.853	401.6	750	Circular	60.033	57.865	1.418	59.787	57.711	1.326
7.004	25.117	398.7	750	Circular	59.787	57.711	1.326	60.089	57.648	1.691
3.006	25.168	399.5	750	Circular	60.089	57.648	1.691	60.074	57.585	1.739
1.009	29.766	62.1	300	Circular	60.074	57.585	2.189	59.529	57.106	2.123
1.010	8.326	166.5	225	Circular	59.529	57.106	2.198	59.549	57.056	2.268
1.011	27.850	290.1	225	Circular	59.549	57.056	2.268	58.500	56.960	1.315

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
5.000	S12	1500	Manhole	Adoptable	S13	1500	Manhole	Adoptable
5.001	S13	1500	Manhole	Adoptable	S14	1500	Manhole	Adoptable
5.002	S14	1500	Manhole	Adoptable	S15	1800	Manhole	Adoptable
4.001	S15	1800	Manhole	Adoptable	S21	2700	Manhole	Adoptable
6.000	S19	2100	Manhole	Adoptable	S20	2100	Manhole	Adoptable
6.001	S20	2100	Manhole	Adoptable	S21	2700	Manhole	Adoptable
3.003	S21	2700	Manhole	Adoptable	S22		Junction	
3.005	S23		Junction		S30	2700	Manhole	Adoptable
7.000	S25	1200	Manhole	Adoptable	S26	1500	Manhole	Adoptable
8.000	S24	1200	Manhole	Adoptable	S26	1500	Manhole	Adoptable
7.001	S26	1500	Manhole	Adoptable	S27	2100	Manhole	Adoptable
7.002	S27	2100	Manhole	Adoptable	S28	2100	Manhole	Adoptable
7.003	S28	2100	Manhole	Adoptable	S29	2100	Manhole	Adoptable
7.004	S29	2100	Manhole	Adoptable	S30	2700	Manhole	Adoptable
3.006	S30	2700	Manhole	Adoptable	S31	2700	Manhole	Adoptable
1.009	S31	2700	Manhole	Adoptable	S32	1350	Manhole	Adoptable
1.010	S32	1350	Manhole	Adoptable	S33	1350	Manhole	Adoptable
1.011	S33	1350	Manhole	Adoptable	Ex MH34	1350	Manhole	Adoptable

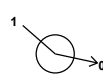
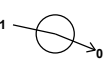
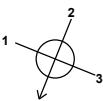
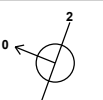
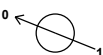
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S1	347945.194	391628.292	60.797	1.659	1350	 0	1.000	59.138	225
S2	347941.921	391610.063	60.635	1.621	1350	 1	1.000	59.014	225
						 0	1.001	59.014	225

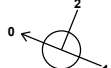
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S3	347931.180	391583.485	60.389	1.641	1800		1	1.001	58.823	225
							0	1.002	58.748	300
S4	347905.708	391593.748	60.203	1.645	1500		1	1.002	58.633	300
							0	1.003	58.558	375
S5	347887.069	391642.825	59.955	1.253	1350		0	2.000	58.702	300
S6	347878.280	391604.799	60.130	2.042	2400		1	2.000	58.538	300
							2	1.003	58.463	375
							0	1.004	58.088	750
S7	347857.494	391553.515	59.628	1.678	2100		1	1.004	57.950	750
							0	1.005	57.950	750
S8	347860.047	391547.707	59.584	1.650	2100		1	1.005	57.934	750
							0	1.006	57.934	750
S9	347882.811	391538.561	59.679	1.806	2100		1	1.006	57.873	750
							0	1.007	57.873	750
S10	347947.445	391512.593	59.777	2.080	2100		1	1.007	57.697	750
							0	1.008	57.697	750
S16	348160.138	391490.862	61.791	3.658	2100		0	3.000	58.133	750
S17	348104.767	391513.234	60.742	2.758	2100		1	3.000	57.984	750
							0	3.001	57.984	750
S18	348056.250	391532.836	60.323	2.470	2100		1	3.001	57.853	750
							0	3.002	57.853	750
S11	348118.621	391574.685	61.146	2.732	1500		0	4.000	58.414	450
S12	348017.411	391615.435	60.824	1.675	1500		0	5.000	59.149	450

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S13	348023.976	391609.685	60.776	1.801	1500		1	5.000	58.975	450
							0	5.001	58.975	450
S14	348040.478	391606.148	60.649	2.012	1500		1	5.001	58.637	450
							0	5.002	58.637	450
S15	348058.369	391598.944	60.490	2.238	1800		1	5.002	58.252	450
							2	4.000	58.252	450
							0	4.001	58.252	450
S19	347959.786	391571.810	60.208	2.208	2100					
							0	6.000	58.000	750
S20	348015.516	391549.294	59.972	2.123	2100		1	6.000	57.849	750
							0	6.001	57.849	750
S21	348035.180	391541.349	60.242	2.446	2700		1	6.001	57.796	750
							2	4.001	58.096	450
							3	3.002	57.796	750
							0	3.003	57.796	750
S22	348029.837	391528.020	59.683	1.924			1	3.003	57.760	750
S23	348018.331	391499.471	59.683	2.000						
							0	3.005	57.683	750
S25	348158.094	391472.702	61.506	1.425	1200					
							0	7.000	60.081	225
S24	348135.710	391410.594	60.271	1.599	1200					
							0	8.000	58.672	225
S26	348144.008	391433.619	60.587	2.286	1500		1	8.000	58.526	225
							2	7.000	58.526	225
							0	7.001	58.301	450
S27	348140.169	391435.162	60.472	2.482	2100		1	7.001	58.290	450
							0	7.002	57.990	750
S28	348093.698	391453.833	60.033	2.168	2100		1	7.002	57.865	750
							0	7.003	57.865	750

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S29	348036.303	391476.892	59.787	2.076	2100		1	7.003	57.711	750
						0	7.004	57.711	750	
S30	348012.998	391486.256	60.089	2.441	2700		1	7.004	57.648	750
							2	3.005	57.648	750
							0	3.006	57.648	750
S31	347989.644	391495.638	60.074	2.489	2700		1	3.006	57.585	750
							2	1.008	57.585	750
							0	1.009	57.585	300
S32	347978.493	391468.039	59.529	2.423	1350		1	1.009	57.106	300
							0	1.010	57.106	225
S33	347986.213	391464.920	59.549	2.493	1350		1	1.010	57.056	225
							0	1.011	57.056	225
Ex MH34	347983.573	391437.196	58.500	1.540	1350		1	1.011	56.960	225

Node S31 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	57.585	Product Number	CTL-SHE-0263-4240-1900-4240
Design Depth (m)	1.900	Min Outlet Diameter (m)	0.300
Design Flow (l/s)	42.4	Min Node Diameter (mm)	2400

Node S23 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	30.425
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	57.683	Main Channel Slope (1:X)	400.0
Safety Factor	2.0	Time to half empty (mins)	300	Main Channel n	0.035

Inlets
S22

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	355.7	0.0	0.600	511.8	0.0	1.200	688.8	0.0	1.800	886.1	0.0
0.100	379.9	0.0	0.700	539.9	0.0	1.300	720.3	0.0	1.900	921.0	0.0
0.200	405.2	0.0	0.800	568.6	0.0	1.400	752.3	0.0	2.000	956.4	0.0
0.300	431.0	0.0	0.900	597.8	0.0	1.500	784.9	0.0			
0.400	457.4	0.0	1.000	627.6	0.0	1.600	818.1	0.0			
0.500	484.3	0.0	1.100	657.9	0.0	1.700	851.8	0.0			

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	59.164	0.026	1.2	0.0371	0.0000	OK
15 minute summer	S2	11	59.100	0.086	12.9	0.1233	0.0000	OK
15 minute summer	S3	11	58.870	0.122	23.5	0.3115	0.0000	OK
15 minute summer	S4	11	58.697	0.139	31.1	0.2453	0.0000	OK
15 minute summer	S5	11	58.783	0.081	11.4	0.1155	0.0000	OK
15 minute summer	S6	11	58.254	0.166	67.1	0.7515	0.0000	OK
15 minute summer	S7	12	58.155	0.205	74.9	0.7110	0.0000	OK
15 minute summer	S8	12	58.130	0.196	78.0	0.6779	0.0000	OK
180 minute summer	S9	120	58.073	0.200	40.9	0.6919	0.0000	OK
180 minute summer	S10	120	58.073	0.376	50.1	1.3024	0.0000	OK
15 minute summer	S16	11	58.219	0.086	18.5	0.2970	0.0000	OK
15 minute summer	S17	11	58.112	0.128	42.8	0.4421	0.0000	OK
180 minute summer	S18	120	58.074	0.221	24.0	0.7641	0.0000	OK
15 minute summer	S11	10	58.548	0.134	32.0	0.2366	0.0000	OK
15 minute summer	S12	10	59.204	0.055	13.4	0.0972	0.0000	OK
15 minute summer	S13	10	59.033	0.058	16.1	0.1021	0.0000	OK
15 minute summer	S14	10	58.703	0.066	22.2	0.1172	0.0000	OK
15 minute summer	S15	12	58.426	0.174	54.1	0.4424	0.0000	OK
15 minute summer	S19	11	58.102	0.102	26.7	0.3534	0.0000	OK
180 minute summer	S20	120	58.074	0.225	16.2	0.7782	0.0000	OK
180 minute summer	S21	120	58.074	0.278	54.3	1.5902	0.0000	OK
180 minute summer	S22	120	58.074	0.315	50.9	0.0000	0.0000	OK
180 minute summer	S23	120	58.074	0.391	36.3	0.0000	0.0000	OK
15 minute summer	S25	10	60.135	0.054	12.8	0.0614	0.0000	OK
15 minute summer	S24	10	58.775	0.103	16.3	0.1162	0.0000	OK
15 minute summer	S26	10	58.433	0.132	28.6	0.2336	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	1.2	0.156	0.028	0.1527	
15 minute summer	S2	1.001	S3	12.6	0.922	0.298	0.3919	
15 minute summer	S3	1.002	S4	23.5	0.898	0.328	0.7190	
15 minute summer	S4	1.003	S6	31.0	0.891	0.275	1.0289	
15 minute summer	S5	2.000	S6	11.1	0.740	0.155	0.5854	
15 minute summer	S6	1.004	S7	67.4	0.806	0.110	4.6382	
15 minute summer	S7	1.005	S8	72.7	0.770	0.118	0.5991	
15 minute summer	S8	1.006	S9	78.8	0.852	0.128	2.2704	
15 minute summer	S9	1.007	S10	100.2	0.892	0.162	7.9088	
15 minute summer	S10	1.008	S31	110.4	0.669	0.181	8.4516	
15 minute summer	S16	3.000	S17	17.8	0.474	0.029	2.3066	
15 minute summer	S17	3.001	S18	40.9	0.647	0.066	3.5926	
15 minute summer	S18	3.002	S21	53.9	0.568	0.087	2.3827	
15 minute summer	S11	4.000	S15	32.1	0.736	0.200	3.0402	
15 minute summer	S12	5.000	S13	13.3	1.166	0.029	0.0998	
15 minute summer	S13	5.001	S14	16.0	1.218	0.035	0.2221	
15 minute summer	S14	5.002	S15	22.0	0.869	0.048	0.6711	
15 minute summer	S15	4.001	S21	49.0	0.949	0.304	3.2093	
15 minute summer	S19	6.000	S20	25.8	0.568	0.042	3.6225	
15 minute summer	S20	6.001	S21	35.0	0.442	0.057	2.2054	
15 minute summer	S21	3.003	S22	135.8	1.190	0.220	1.6454	
15 minute summer	S22	Flow through Pond	S23	99.3	0.158	0.002	93.9126	
15 minute summer	S23	3.005	S30	-134.7	-1.471	-0.221	2.3826	
15 minute summer	S25	7.000	S26	12.6	1.727	0.124	0.3024	
15 minute summer	S24	8.000	S26	16.0	0.938	0.400	0.4187	
15 minute summer	S26	7.001	S27	28.5	0.808	0.172	0.1459	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S27	11	58.105	0.115	33.0	0.3983	0.0000	OK
180 minute summer	S28	124	58.073	0.208	25.3	0.7221	0.0000	OK
180 minute summer	S29	124	58.073	0.362	29.9	1.2544	0.0000	OK
180 minute summer	S30	120	58.073	0.425	30.2	2.4358	0.0000	OK
180 minute summer	S31	120	58.073	0.488	44.5	2.7944	0.0000	SURCHARGED
180 minute summer	S32	124	57.413	0.307	41.1	0.4400	0.0000	SURCHARGED
180 minute summer	S33	124	57.332	0.276	41.1	0.3945	0.0000	SURCHARGED
180 minute summer	Ex MH34	124	57.130	0.170	41.1	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	33.0	0.593	0.054	2.8030	
15 minute summer	S28	7.003	S29	65.0	0.801	0.106	5.2960	
15 minute summer	S29	7.004	S30	73.2	0.711	0.119	3.9529	
15 minute summer	S30	3.006	S31	-77.2	-0.443	-0.125	5.1031	
180 minute summer	S31	1.009	S32	41.1	0.979	0.291	1.3954	
180 minute summer	S32	1.010	S33	41.1	1.034	1.023	0.3311	
180 minute summer	S33	1.011	Ex MH34	41.1	1.068	1.356	1.0020	436.9

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	59.168	0.030	1.7	0.0431	0.0000	OK
15 minute summer	S2	11	59.117	0.103	17.7	0.1478	0.0000	OK
15 minute summer	S3	11	58.895	0.147	32.5	0.3753	0.0000	OK
15 minute summer	S4	11	58.724	0.166	42.8	0.2936	0.0000	OK
15 minute summer	S5	11	58.798	0.096	15.7	0.1367	0.0000	OK
15 minute summer	S6	11	58.286	0.198	92.5	0.8961	0.0000	OK
15 minute summer	S7	12	58.197	0.247	103.3	0.8539	0.0000	OK
15 minute summer	S8	12	58.169	0.235	107.5	0.8134	0.0000	OK
180 minute summer	S9	124	58.161	0.288	51.1	0.9980	0.0000	OK
180 minute summer	S10	124	58.161	0.464	58.5	1.6064	0.0000	OK
15 minute summer	S16	11	58.233	0.100	25.4	0.3457	0.0000	OK
180 minute summer	S17	128	58.162	0.178	20.7	0.6165	0.0000	OK
180 minute summer	S18	128	58.162	0.309	30.2	1.0687	0.0000	OK
15 minute summer	S11	10	58.572	0.158	44.0	0.2795	0.0000	OK
15 minute summer	S12	10	59.214	0.065	18.4	0.1146	0.0000	OK
15 minute summer	S13	10	59.043	0.068	22.1	0.1198	0.0000	OK
15 minute summer	S14	10	58.715	0.078	30.6	0.1370	0.0000	OK
15 minute summer	S15	12	58.461	0.209	74.5	0.5322	0.0000	OK
180 minute summer	S19	124	58.162	0.162	12.6	0.5608	0.0000	OK
180 minute summer	S20	124	58.161	0.312	20.3	1.0823	0.0000	OK
180 minute summer	S21	128	58.161	0.365	65.5	2.0912	0.0000	OK
180 minute summer	S22	124	58.161	0.402	60.7	0.0000	0.0000	OK
180 minute summer	S23	124	58.161	0.478	43.2	0.0000	0.0000	OK
15 minute summer	S25	10	60.145	0.064	17.6	0.0725	0.0000	OK
15 minute summer	S24	10	58.797	0.125	22.4	0.1409	0.0000	OK
15 minute summer	S26	10	58.458	0.157	39.3	0.2765	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	1.6	0.167	0.039	0.1936	
15 minute summer	S2	1.001	S3	17.4	1.002	0.410	0.4971	
15 minute summer	S3	1.002	S4	32.4	0.981	0.453	0.9083	
15 minute summer	S4	1.003	S6	42.8	0.974	0.380	1.3015	
15 minute summer	S5	2.000	S6	15.3	0.810	0.214	0.7393	
15 minute summer	S6	1.004	S7	92.9	0.860	0.151	6.0154	
15 minute summer	S7	1.005	S8	100.1	0.822	0.162	0.7727	
15 minute summer	S8	1.006	S9	108.6	0.910	0.177	2.9307	
15 minute summer	S9	1.007	S10	138.2	0.937	0.223	10.3887	
15 minute summer	S10	1.008	S31	153.9	0.735	0.252	11.1295	
15 minute summer	S16	3.000	S17	24.5	0.519	0.040	2.9033	
15 minute summer	S17	3.001	S18	57.1	0.685	0.093	4.7673	
15 minute summer	S18	3.002	S21	75.9	0.595	0.123	3.1413	
15 minute summer	S11	4.000	S15	44.1	0.788	0.275	3.8901	
15 minute summer	S12	5.000	S13	18.3	1.264	0.040	0.1264	
15 minute summer	S13	5.001	S14	22.0	1.328	0.048	0.2793	
15 minute summer	S14	5.002	S15	30.3	0.910	0.066	0.8595	
15 minute summer	S15	4.001	S21	68.5	1.042	0.426	4.0849	
15 minute summer	S19	6.000	S20	35.5	0.591	0.058	4.8397	
15 minute summer	S20	6.001	S21	48.5	0.455	0.079	2.9091	
15 minute summer	S21	3.003	S22	192.0	1.308	0.312	2.1094	
15 minute winter	S22	Flow through Pond	S23	107.2	0.159	0.002	128.8610	
15 minute summer	S23	3.005	S30	-203.8	-1.574	-0.334	3.1603	
15 minute summer	S25	7.000	S26	17.3	1.891	0.172	0.3808	
15 minute summer	S24	8.000	S26	22.0	1.013	0.549	0.5331	
15 minute summer	S26	7.001	S27	39.1	0.881	0.236	0.1840	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S27	124	58.162	0.172	16.0	0.5950	0.0000	OK
180 minute summer	S28	124	58.161	0.296	31.8	1.0264	0.0000	OK
180 minute summer	S29	124	58.161	0.450	33.5	1.5584	0.0000	OK
180 minute summer	S30	124	58.161	0.513	32.5	2.9366	0.0000	OK
180 minute summer	S31	124	58.161	0.576	50.3	3.2964	0.0000	SURCHARGED
180 minute summer	S32	128	57.427	0.321	42.0	0.4590	0.0000	SURCHARGED
180 minute summer	S33	128	57.341	0.285	42.0	0.4082	0.0000	SURCHARGED
180 minute summer	Ex MH34	128	57.132	0.172	42.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	45.5	0.647	0.074	3.5505	
15 minute summer	S28	7.003	S29	90.1	0.850	0.147	8.9565	
15 minute summer	S29	7.004	S30	101.0	0.719	0.164	5.3418	
15 minute summer	S30	3.006	S31	-106.2	-0.509	-0.172	6.5299	
180 minute summer	S31	1.009	S32	42.0	0.976	0.298	1.4009	
180 minute summer	S32	1.010	S33	42.0	1.057	1.046	0.3311	
180 minute summer	S33	1.011	Ex MH34	42.0	1.089	1.386	1.0066	548.2

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	59.194	0.056	3.8	0.0795	0.0000	OK
15 minute summer	S2	11	59.194	0.180	38.4	0.2575	0.0000	OK
15 minute summer	S3	11	59.004	0.256	71.7	0.6511	0.0000	OK
15 minute summer	S4	11	58.829	0.271	94.3	0.4783	0.0000	OK
15 minute summer	S5	10	58.852	0.150	34.8	0.2149	0.0000	OK
120 minute winter	S6	118	58.604	0.516	59.7	2.3324	0.0000	OK
120 minute winter	S7	118	58.604	0.654	63.5	2.2644	0.0000	OK
120 minute winter	S8	118	58.604	0.670	62.4	2.3197	0.0000	OK
120 minute winter	S9	118	58.603	0.730	79.8	2.5303	0.0000	OK
120 minute winter	S10	118	58.604	0.907	90.4	3.1406	0.0000	SURCHARGED
120 minute winter	S16	118	58.605	0.472	15.8	1.6365	0.0000	OK
120 minute winter	S17	120	58.604	0.620	36.6	2.1487	0.0000	OK
120 minute winter	S18	118	58.604	0.751	43.3	2.6019	0.0000	SURCHARGED
15 minute summer	S11	11	58.670	0.256	97.3	0.4532	0.0000	OK
15 minute summer	S12	10	59.249	0.100	40.8	0.1762	0.0000	OK
15 minute summer	S13	10	59.079	0.104	49.1	0.1829	0.0000	OK
15 minute summer	S14	10	58.752	0.115	67.8	0.2032	0.0000	OK
120 minute winter	S15	118	58.604	0.352	46.6	0.8963	0.0000	OK
120 minute winter	S19	118	58.605	0.605	22.8	2.0951	0.0000	OK
120 minute winter	S20	118	58.604	0.755	30.1	2.6166	0.0000	SURCHARGED
120 minute winter	S21	118	58.604	0.808	100.3	4.6283	0.0000	SURCHARGED
120 minute winter	S22	118	58.605	0.845	88.2	0.0000	0.0000	OK
120 minute winter	S23	118	58.604	0.921	79.8	0.0000	0.0000	SURCHARGED
15 minute summer	S25	10	60.180	0.099	39.0	0.1120	0.0000	OK
15 minute summer	S24	10	58.957	0.285	49.7	0.3226	0.0000	SURCHARGED
120 minute winter	S26	118	58.604	0.303	25.0	0.5360	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	3.9	0.207	0.091	0.3855	
15 minute summer	S2	1.001	S3	38.5	1.136	0.908	0.9783	
15 minute summer	S3	1.002	S4	71.1	1.217	0.994	1.5951	
15 minute summer	S4	1.003	S6	94.3	1.219	0.836	2.2826	
15 minute summer	S5	2.000	S6	34.1	1.004	0.475	1.3239	
15 minute summer	S6	1.004	S7	202.6	0.986	0.330	11.7219	
15 minute summer	S7	1.005	S8	217.9	0.936	0.353	1.6177	
15 minute summer	S8	1.006	S9	232.3	1.001	0.379	6.9080	
15 minute summer	S9	1.007	S10	285.3	1.036	0.461	24.7266	
15 minute summer	S10	1.008	S31	318.9	0.924	0.522	19.2694	
15 minute summer	S16	3.000	S17	54.6	0.624	0.089	10.6349	
15 minute summer	S17	3.001	S18	114.9	0.745	0.187	13.9024	
15 minute summer	S18	3.002	S21	160.5	0.661	0.260	7.4244	
15 minute summer	S11	4.000	S15	95.1	0.922	0.593	7.3373	
15 minute summer	S12	5.000	S13	40.6	1.518	0.089	0.2336	
15 minute summer	S13	5.001	S14	48.8	1.646	0.106	0.5012	
15 minute summer	S14	5.002	S15	67.4	1.144	0.147	1.5819	
15 minute summer	S15	4.001	S21	152.6	1.302	0.947	7.2386	
15 minute summer	S19	6.000	S20	70.1	0.634	0.114	15.9958	
15 minute summer	S20	6.001	S21	107.7	0.509	0.175	6.9076	
15 minute summer	S21	3.003	S22	418.3	1.660	0.679	5.0445	
15 minute summer	S22	Flow through Pond	S23	197.8	0.153	0.004	266.5284	
15 minute summer	S23	3.005	S30	-456.0	-2.057	-0.748	5.9251	
15 minute summer	S25	7.000	S26	38.5	2.341	0.381	0.6836	
15 minute summer	S24	8.000	S26	48.5	1.239	1.212	0.9111	
15 minute summer	S26	7.001	S27	86.6	1.111	0.522	0.3227	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S27	118	58.604	0.614	29.0	2.1278	0.0000	OK
120 minute winter	S28	118	58.604	0.739	52.0	2.5606	0.0000	OK
120 minute winter	S29	118	58.604	0.893	53.9	3.0938	0.0000	SURCHARGED
120 minute winter	S30	118	58.604	0.956	77.7	5.4748	0.0000	SURCHARGED
120 minute winter	S31	118	58.604	1.019	77.4	5.8341	0.0000	SURCHARGED
15 minute winter	S32	48	57.431	0.325	42.3	0.4658	0.0000	SURCHARGED
60 minute summer	S33	185	57.345	0.289	42.3	0.4131	0.0000	SURCHARGED
60 minute summer	Ex MH34	185	57.132	0.172	42.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	100.3	0.736	0.163	13.1905	
15 minute summer	S28	7.003	S29	191.3	0.953	0.312	21.7733	
15 minute summer	S29	7.004	S30	207.1	0.845	0.336	10.3068	
15 minute summer	S30	3.006	S31	-259.4	-0.748	-0.421	10.8750	
120 minute winter	S31	1.009	S32	42.3	0.980	0.300	1.4029	
15 minute winter	S32	1.010	S33	42.3	1.065	1.054	0.3311	
60 minute summer	S33	1.011	Ex MH34	42.3	1.097	1.397	1.0083	830.3

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	59.317	0.179	5.3	0.2563	0.0000	OK
15 minute summer	S2	11	59.314	0.300	44.1	0.4298	0.0000	SURCHARGED
15 minute summer	S3	11	59.068	0.320	84.6	0.8133	0.0000	SURCHARGED
120 minute winter	S4	118	58.881	0.323	33.9	0.5709	0.0000	OK
120 minute winter	S5	118	58.881	0.179	12.1	0.2559	0.0000	OK
120 minute winter	S6	120	58.881	0.793	73.7	3.5858	0.0000	SURCHARGED
120 minute winter	S7	118	58.881	0.931	72.2	3.2250	0.0000	SURCHARGED
120 minute winter	S8	118	58.881	0.947	69.9	3.2806	0.0000	SURCHARGED
120 minute winter	S9	118	58.881	1.008	90.9	3.4925	0.0000	SURCHARGED
120 minute winter	S10	118	58.882	1.185	104.2	4.1036	0.0000	SURCHARGED
120 minute winter	S16	120	58.884	0.751	19.6	2.5999	0.0000	SURCHARGED
120 minute winter	S17	120	58.883	0.899	40.9	3.1134	0.0000	SURCHARGED
120 minute winter	S18	120	58.883	1.030	47.5	3.5663	0.0000	SURCHARGED
120 minute winter	S11	120	58.881	0.467	33.9	0.8251	0.0000	SURCHARGED
15 minute summer	S12	10	59.261	0.112	50.4	0.1986	0.0000	OK
15 minute summer	S13	10	59.091	0.116	60.7	0.2055	0.0000	OK
120 minute winter	S14	120	58.882	0.245	23.8	0.4324	0.0000	OK
120 minute winter	S15	118	58.883	0.631	57.7	1.6055	0.0000	SURCHARGED
120 minute winter	S19	120	58.882	0.882	28.2	3.0562	0.0000	SURCHARGED
120 minute winter	S20	120	58.882	1.033	36.3	3.5800	0.0000	SURCHARGED
120 minute winter	S21	120	58.882	1.086	115.6	6.2212	0.0000	SURCHARGED
120 minute winter	S22	120	58.883	1.124	107.7	0.0000	0.0000	OK
120 minute winter	S23	120	58.883	1.200	120.4	0.0000	0.0000	SURCHARGED
15 minute summer	S25	10	60.193	0.112	48.3	0.1271	0.0000	OK
15 minute summer	S24	10	59.101	0.429	61.4	0.4848	0.0000	SURCHARGED
120 minute winter	S26	120	58.882	0.581	30.9	1.0270	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	7.6	0.312	0.179	0.6821	
15 minute summer	S2	1.001	S3	44.4	1.179	1.049	1.1401	
15 minute summer	S3	1.002	S4	84.2	1.240	1.176	1.7740	
15 minute summer	S4	1.003	S6	111.9	1.280	0.992	2.5701	
15 minute summer	S5	2.000	S6	42.1	1.064	0.587	1.5452	
15 minute summer	S6	1.004	S7	243.8	1.012	0.397	15.7238	
15 minute summer	S7	1.005	S8	261.2	0.959	0.423	2.1422	
15 minute summer	S8	1.006	S9	277.3	1.017	0.452	8.8852	
15 minute summer	S9	1.007	S10	336.6	1.052	0.544	28.6114	
15 minute summer	S10	1.008	S31	388.2	0.979	0.636	20.0154	
15 minute summer	S16	3.000	S17	67.5	0.649	0.110	15.8198	
15 minute summer	S17	3.001	S18	138.5	0.741	0.225	18.2402	
15 minute summer	S18	3.002	S21	196.0	0.693	0.318	9.1029	
15 minute summer	S11	4.000	S15	114.9	0.954	0.716	8.8988	
15 minute summer	S12	5.000	S13	50.2	1.586	0.110	0.2763	
15 minute summer	S13	5.001	S14	60.3	1.736	0.132	0.5868	
15 minute summer	S14	5.002	S15	83.3	1.185	0.182	1.8299	
15 minute summer	S15	4.001	S21	184.5	1.361	1.146	8.2670	
15 minute summer	S19	6.000	S20	85.1	0.649	0.138	20.5758	
15 minute summer	S20	6.001	S21	135.5	0.533	0.220	8.4863	
15 minute summer	S21	3.003	S22	486.5	1.741	0.790	6.0207	
15 minute summer	S22	Flow through Pond	S23	-248.9	0.164	-0.005	332.2716	
15 minute summer	S23	3.005	S30	-518.5	-2.034	-0.850	6.2722	
15 minute summer	S25	7.000	S26	47.7	2.468	0.472	0.8033	
15 minute summer	S24	8.000	S26	60.1	1.514	1.502	0.9436	
15 minute summer	S26	7.001	S27	107.4	1.189	0.648	0.3736	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S27	120	58.882	0.892	35.9	3.0905	0.0000	SURCHARGED
120 minute winter	S28	120	58.882	1.017	62.9	3.5215	0.0000	SURCHARGED
120 minute winter	S29	118	58.882	1.171	66.2	4.0555	0.0000	SURCHARGED
120 minute winter	S30	120	58.882	1.234	122.2	7.0651	0.0000	SURCHARGED
120 minute winter	S31	118	58.882	1.297	97.2	7.4254	0.0000	SURCHARGED
30 minute summer	S32	180	57.431	0.325	42.3	0.4658	0.0000	SURCHARGED
30 minute summer	S33	180	57.345	0.289	42.3	0.4131	0.0000	SURCHARGED
30 minute summer	Ex MH34	180	57.132	0.172	42.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	121.1	0.747	0.197	17.0813	
15 minute summer	S28	7.003	S29	224.3	0.972	0.365	25.4732	
15 minute summer	S29	7.004	S30	242.2	0.880	0.393	11.0536	
15 minute summer	S30	3.006	S31	-306.3	-0.790	-0.497	11.0770	
720 minute summer	S31	1.009	S32	42.3	0.964	0.300	1.4029	
30 minute winter	S32	1.010	S33	42.3	1.065	1.054	0.3311	
30 minute summer	S33	1.011	Ex MH34	42.3	1.097	1.397	1.0083	834.4

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	59.962	0.824	7.3	1.1790	0.0000	SURCHARGED
15 minute summer	S2	11	59.961	0.947	65.6	1.3550	0.0000	SURCHARGED
30 minute summer	S3	20	59.515	0.767	112.6	1.9512	0.0000	SURCHARGED
180 minute winter	S4	176	59.507	0.949	35.6	1.6776	0.0000	SURCHARGED
180 minute winter	S5	176	59.507	0.805	12.7	1.1524	0.0000	SURCHARGED
180 minute winter	S6	176	59.507	1.419	76.8	6.4209	0.0000	SURCHARGED
180 minute winter	S7	176	59.507	1.557	73.2	5.3943	0.0000	FLOOD RISK
180 minute winter	S8	176	59.507	1.573	73.2	5.4497	0.0000	FLOOD RISK
180 minute winter	S9	176	59.507	1.634	98.4	5.6610	0.0000	FLOOD RISK
180 minute winter	S10	176	59.507	1.810	124.8	6.2706	0.0000	FLOOD RISK
180 minute winter	S16	180	59.507	1.374	20.5	4.7608	0.0000	SURCHARGED
180 minute winter	S17	180	59.507	1.523	43.2	5.2767	0.0000	SURCHARGED
180 minute winter	S18	180	59.508	1.655	62.4	5.7313	0.0000	SURCHARGED
180 minute winter	S11	176	59.507	1.093	35.6	1.9321	0.0000	SURCHARGED
180 minute winter	S12	176	59.507	0.358	14.9	0.6331	0.0000	OK
180 minute winter	S13	176	59.507	0.532	18.0	0.9407	0.0000	SURCHARGED
180 minute winter	S14	176	59.507	0.870	25.2	1.5380	0.0000	SURCHARGED
180 minute winter	S15	176	59.507	1.255	57.5	3.1947	0.0000	SURCHARGED
180 minute winter	S19	180	59.508	1.508	29.6	5.2221	0.0000	SURCHARGED
180 minute winter	S20	180	59.508	1.659	45.0	5.7456	0.0000	SURCHARGED
180 minute winter	S21	180	59.508	1.712	152.9	9.8010	0.0000	SURCHARGED
180 minute winter	S22	180	59.508	1.749	161.9	0.0000	0.0000	OK
180 minute winter	S23	180	59.508	1.825	172.3	0.0000	0.0000	FLOOD RISK
15 minute summer	S25	10	60.224	0.143	69.9	0.1616	0.0000	OK
15 minute summer	S24	10	59.562	0.890	89.0	1.0064	0.0000	SURCHARGED
180 minute winter	S26	180	59.507	1.206	32.4	2.1317	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	15.7	0.465	0.371	0.7366	
15 minute summer	S2	1.001	S3	64.1	1.611	1.513	1.1401	
15 minute summer	S3	1.002	S4	121.1	1.720	1.692	1.9339	
15 minute summer	S4	1.003	S6	162.1	1.501	1.437	3.2616	
15 minute summer	S5	2.000	S6	61.0	1.177	0.850	2.7483	
15 minute summer	S6	1.004	S7	327.3	1.061	0.533	24.3545	
15 minute summer	S7	1.005	S8	330.1	0.987	0.534	2.7926	
15 minute summer	S8	1.006	S9	340.8	1.029	0.555	10.7975	
15 minute summer	S9	1.007	S10	453.0	1.070	0.732	30.6570	
15 minute summer	S10	1.008	S31	548.6	1.247	0.898	20.0154	
30 minute summer	S16	3.000	S17	88.8	0.632	0.144	26.2840	
15 minute summer	S17	3.001	S18	170.5	0.741	0.277	23.0302	
15 minute summer	S18	3.002	S21	252.3	0.738	0.409	10.0017	
15 minute summer	S11	4.000	S15	176.9	1.117	1.103	10.2912	
15 minute summer	S12	5.000	S13	72.8	1.802	0.159	0.3707	
15 minute summer	S13	5.001	S14	87.8	1.865	0.191	1.4177	
15 minute summer	S14	5.002	S15	117.1	1.253	0.256	2.7857	
15 minute summer	S15	4.001	S21	272.1	1.744	1.689	9.8376	
15 minute summer	S19	6.000	S20	131.0	0.637	0.212	26.4539	
15 minute summer	S20	6.001	S21	202.8	0.585	0.330	9.3341	
15 minute summer	S21	3.003	S22	707.1	1.941	1.148	6.3201	
15 minute summer	S22	Flow through Pond	S23	-497.1	0.159	-0.011	526.4492	
30 minute summer	S23	3.005	S30	-829.3	-1.884	-1.360	6.2722	
15 minute summer	S25	7.000	S26	69.2	2.681	0.685	1.0754	
15 minute summer	S24	8.000	S26	87.5	2.201	2.187	0.9636	
15 minute summer	S26	7.001	S27	156.1	1.353	0.942	0.6556	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S27	180	59.507	1.517	35.0	5.2563	0.0000	SURCHARGED
180 minute winter	S28	180	59.507	1.642	67.9	5.6894	0.0000	SURCHARGED
180 minute winter	S29	180	59.508	1.797	85.1	6.2232	0.0000	FLOOD RISK
180 minute winter	S30	180	59.508	1.860	175.2	10.6480	0.0000	SURCHARGED
180 minute winter	S31	180	59.507	1.922	123.0	11.0067	0.0000	SURCHARGED
180 minute summer	S32	648	57.431	0.325	42.3	0.4658	0.0000	SURCHARGED
30 minute winter	S33	348	57.345	0.289	42.3	0.4131	0.0000	SURCHARGED
30 minute winter	Ex MH34	348	57.132	0.172	42.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	164.1	0.758	0.267	22.0417	
15 minute summer	S28	7.003	S29	298.6	1.008	0.486	27.2228	
15 minute summer	S29	7.004	S30	333.3	0.945	0.541	11.0545	
30 minute summer	S30	3.006	S31	-497.3	-1.130	-0.808	11.0770	
60 minute summer	S31	1.009	S32	42.3	1.004	0.300	1.4029	
480 minute summer	S32	1.010	S33	42.3	1.065	1.054	0.3311	
30 minute winter	S33	1.011	Ex MH34	42.3	1.097	1.397	1.0083	1211.5

Results for 200 year Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	59.477	0.339	5.3	0.4858	0.0000	SURCHARGED
15 minute summer	S2	11	59.467	0.453	51.9	0.6488	0.0000	SURCHARGED
15 minute summer	S3	11	59.142	0.394	95.5	1.0037	0.0000	SURCHARGED
180 minute winter	S4	176	59.077	0.519	27.8	0.9167	0.0000	SURCHARGED
180 minute winter	S5	176	59.077	0.375	9.9	0.5362	0.0000	SURCHARGED
180 minute winter	S6	176	59.077	0.989	60.3	4.4731	0.0000	SURCHARGED
180 minute winter	S7	176	59.077	1.127	59.8	3.9033	0.0000	SURCHARGED
180 minute winter	S8	176	59.077	1.143	58.4	3.9587	0.0000	SURCHARGED
180 minute winter	S9	176	59.077	1.204	76.1	4.1701	0.0000	SURCHARGED
180 minute winter	S10	176	59.077	1.380	89.3	4.7802	0.0000	SURCHARGED
180 minute winter	S16	176	59.077	0.944	16.0	3.2711	0.0000	SURCHARGED
180 minute winter	S17	176	59.077	1.093	30.9	3.7871	0.0000	SURCHARGED
180 minute winter	S18	176	59.077	1.224	36.3	4.2410	0.0000	SURCHARGED
180 minute winter	S11	176	59.078	0.664	27.7	1.1725	0.0000	SURCHARGED
15 minute summer	S12	10	59.269	0.120	56.5	0.2121	0.0000	OK
15 minute summer	S13	10	59.099	0.124	68.1	0.2192	0.0000	OK
180 minute winter	S14	176	59.077	0.440	19.4	0.7778	0.0000	OK
180 minute winter	S15	176	59.077	0.825	47.1	2.1004	0.0000	SURCHARGED
180 minute winter	S19	176	59.077	1.077	23.1	3.7320	0.0000	SURCHARGED
180 minute winter	S20	176	59.077	1.228	30.0	4.2550	0.0000	SURCHARGED
180 minute winter	S21	176	59.077	1.281	92.5	7.3369	0.0000	SURCHARGED
180 minute winter	S22	176	59.077	1.318	93.8	0.0000	0.0000	OK
180 minute winter	S23	176	59.077	1.394	103.2	0.0000	0.0000	SURCHARGED
15 minute summer	S25	10	60.202	0.120	54.1	0.1363	0.0000	OK
15 minute summer	S24	10	59.224	0.552	68.8	0.6239	0.0000	SURCHARGED
180 minute winter	S26	176	59.077	0.776	25.2	1.3718	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	11.3	0.361	0.265	0.7366	
15 minute summer	S2	1.001	S3	50.5	1.269	1.192	1.1401	
15 minute summer	S3	1.002	S4	94.9	1.350	1.326	1.8784	
15 minute summer	S4	1.003	S6	125.7	1.321	1.115	2.7763	
15 minute summer	S5	2.000	S6	47.2	1.098	0.658	1.6777	
15 minute summer	S6	1.004	S7	269.5	1.030	0.438	18.7699	
15 minute summer	S7	1.005	S8	283.2	0.965	0.458	2.4665	
15 minute summer	S8	1.006	S9	297.7	1.015	0.485	10.0085	
15 minute summer	S9	1.007	S10	361.2	1.054	0.584	30.0519	
15 minute summer	S10	1.008	S31	419.8	0.993	0.688	20.0154	
15 minute summer	S16	3.000	S17	74.4	0.658	0.121	19.4429	
15 minute summer	S17	3.001	S18	150.2	0.745	0.244	20.6900	
15 minute summer	S18	3.002	S21	217.0	0.711	0.352	9.8074	
15 minute summer	S11	4.000	S15	124.6	0.968	0.776	9.9076	
15 minute summer	S12	5.000	S13	56.3	1.623	0.123	0.3027	
15 minute summer	S13	5.001	S14	67.7	1.788	0.148	0.6394	
15 minute summer	S14	5.002	S15	93.4	1.214	0.204	1.9099	
15 minute summer	S15	4.001	S21	204.7	1.390	1.271	8.6526	
15 minute summer	S19	6.000	S20	99.2	0.657	0.161	23.4871	
15 minute summer	S20	6.001	S21	146.0	0.543	0.237	9.1567	
15 minute summer	S21	3.003	S22	549.5	1.818	0.892	6.3201	
15 minute summer	S22	Flow through Pond	S23	-289.0	0.177	-0.006	377.0437	
15 minute summer	S23	3.005	S30	-583.6	-2.170	-0.957	6.2722	
15 minute summer	S25	7.000	S26	53.4	2.535	0.529	0.8760	
15 minute summer	S24	8.000	S26	67.6	1.699	1.688	0.9556	
15 minute summer	S26	7.001	S27	120.5	1.235	0.727	0.4033	

Results for 200 year Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S27	176	59.077	1.087	29.0	3.7664	0.0000	SURCHARGED
180 minute winter	S28	176	59.077	1.212	50.4	4.1992	0.0000	SURCHARGED
180 minute winter	S29	176	59.077	1.366	55.6	4.7327	0.0000	SURCHARGED
180 minute winter	S30	176	59.077	1.429	104.8	8.1839	0.0000	SURCHARGED
180 minute winter	S31	176	59.077	1.492	85.8	8.5434	0.0000	SURCHARGED
30 minute summer	S32	223	57.431	0.325	42.3	0.4658	0.0000	SURCHARGED
60 minute winter	S33	337	57.345	0.289	42.3	0.4131	0.0000	SURCHARGED
60 minute summer	Ex MH34	337	57.132	0.172	42.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S27	7.002	S28	132.5	0.750	0.216	19.4166	
15 minute summer	S28	7.003	S29	245.2	0.985	0.399	26.7074	
15 minute summer	S29	7.004	S30	266.0	0.892	0.432	11.0545	
15 minute summer	S30	3.006	S31	-343.5	-0.805	-0.558	11.0770	
30 minute winter	S31	1.009	S32	42.3	1.075	0.300	1.4029	
30 minute summer	S32	1.010	S33	42.3	1.065	1.054	0.3311	
60 minute summer	S33	1.011	Ex MH34	42.3	1.097	1.397	1.0083	1178.2