Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.045	5.00	15.840	1200	492774.347	106472.071	1.442
2	0.014	5.00	15.450	1050	492755.012	106446.583	0.800
3	0.027	5.00	15.624	1050	492764.348	106443.963	1.096
4			15.624	1200	492766.894	106450.051	1.279
5			15.682	1000	492770.121	106459.814	1.462
PB1	0.004	5.00	15.870	1200	492774.966	106462.220	0.371
PB2	0.003	5.00	15.870	1200	492772.641	106454.457	0.371
PB3	0.006	5.00	15.700	1200	492766.405	106442.478	0.370
PB4	0.047	5.00	15.540	1200	492761.779	106452.826	0.630
PB5	0.010	5.00	15.435	1200	492753.274	106441.831	0.630
PB6	0.006	5.00	15.870	1200			0.350
SAT1			15.682	1200	492769.042	106460.178	1.462
3.1			15.900	475	492786.253	106467.827	0.563
3.2		5.00	15.924	475	492793.692	106464.378	0.480

Links

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)
1.001	1	5	12.960	0.600	14.398	14.236	0.162	80.0	150	5.45	50.0
1.002	5	SAT1	1.400	0.600	14.236	14.220	0.016	87.5	150	5.47	50.0
1.003	2	3	8.160	0.600	14.650	14.528	0.122	66.9	150	5.16	50.0
1.004	3	4	8.120	0.600	14.528	14.351	0.177	45.9	150	5.25	50.0
1.005	4	5	5.000	0.600	14.351	14.220	0.131	38.2	150	5.30	50.0
2.001	PB1	PB2	3.000	0.600	15.499	15.499	0.000	0.0	150	5.05	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.001	1.125	19.9	6.9	1.292	1.296	0.051	0.0	61	1.026
1.002	1.075	19.0	22.0	1.296	1.312	0.162	0.0	150	1.095
1.003	1.231	21.8	3.3	0.650	0.946	0.024	0.0	39	0.885
1.004	1.489	26.3	8.7	0.946	1.123	0.064	0.0	59	1.340
1.005	1.634	28.9	15.0	1.123	1.312	0.111	0.0	77	1.652
2.001	1.000	17.7	0.5	0.221	0.221	0.004	0.0	0	∞

Links

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)
2.002	PB2	PB3	3.000	0.600	15.499	15.330	0.169	17.8	150	5.07	50.0
2.003	PB3	3	4.000	0.600	15.330	14.548	0.782	5.1	150	5.09	50.0
2.004	PB5	2	5.000	0.600	14.805	14.650	0.155	32.3	150	5.05	50.0
2.005	PB4	4	4.000	0.600	14.910	14.345	0.565	7.1	150	5.02	50.0
2.006	PB6	1	10.000	6.000	15.520	15.040	0.480	20.8	150	5.11	50.0
3.001	3.2	3.1	8.200	0.600	15.444	15.337	0.107	76.6	150	5.12	50.0
3.002	3.1	1	12.640	0.600	15.337	15.040	0.297	42.6	150	5.26	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
2.002	2.402	42.4	0.9	0.221	0.220	0.007	0.0	16	0.982
2.003	4.486	79.3	1.8	0.220	0.926	0.013	0.0	16	1.841
2.004	1.778	31.4	1.4	0.480	0.650	0.010	0.0	21	0.892
2.005	3.811	67.3	6.4	0.480	1.129	0.047	0.0	31	2.421
2.006	1.476	26.1	0.8	0.200	0.650	0.006	0.0	19	0.621
3.001	1.149	20.3	0.0	0.330	0.413	0.000	0.0	0	0.000
3.002	1.547	27.3	0.0	0.413	0.650	0.000	0.0	0	0.000

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)
1.001	12.960	80.0	150	Circular	15.840	14.398	1.292	15.682	14.236	1.296
1.002	1.400	87.5	150	Circular	15.682	14.236	1.296	15.682	14.220	1.312
1.003	8.160	66.9	150	Circular	15.450	14.650	0.650	15.624	14.528	0.946
1.004	8.120	45.9	150	Circular	15.624	14.528	0.946	15.624	14.351	1.123
1.005	5.000	38.2	150	Circular	15.624	14.351	1.123	15.682	14.220	1.312
2.001	3.000	0.0	150	Circular	15.870	15.499	0.221	15.870	15.499	0.221
2.002	3.000	17.8	150	Circular	15.870	15.499	0.221	15.700	15.330	0.220
2.003	4.000	5.1	150	Circular	15.700	15.330	0.220	15.624	14.548	0.926
2.004	5.000	32.3	150	Circular	15.435	14.805	0.480	15.450	14.650	0.650
2.005	4.000	7.1	150	Circular	15.540	14.910	0.480	15.624	14.345	1.129
2.006	10.000	20.8	150	Circular	15.870	15.520	0.200	15.840	15.040	0.650

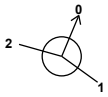
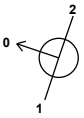
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.001	1	1200	Manhole	Adoptable	5	1000	Manhole	Adoptable
1.002	5	1000	Manhole	Adoptable	SAT1	1200	Manhole	Adoptable
1.003	2	1050	Manhole	Adoptable	3	1050	Manhole	Adoptable
1.004	3	1050	Manhole	Adoptable	4	1200	Manhole	Adoptable
1.005	4	1200	Manhole	Adoptable	5	1000	Manhole	Adoptable
2.001	PB1	1200	Manhole	Adoptable	PB2	1200	Manhole	Adoptable
2.002	PB2	1200	Manhole	Adoptable	PB3	1200	Manhole	Adoptable
2.003	PB3	1200	Manhole	Adoptable	3	1050	Manhole	Adoptable
2.004	PB5	1200	Manhole	Adoptable	2	1050	Manhole	Adoptable
2.005	PB4	1200	Manhole	Adoptable	4	1200	Manhole	Adoptable
2.006	PB6	1200	Manhole	Adoptable	1	1200	Manhole	Adoptable

Pipeline Schedule

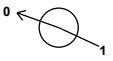
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
3.001	8.200	76.6	150	Circular	15.924	15.444	0.330	15.900	15.337	0.413
3.002	12.640	42.6	150	Circular	15.900	15.337	0.413	15.840	15.040	0.650

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.001	3.2	475	Manhole	Adoptable	3.1	475	Manhole	Adoptable
3.002	3.1	475	Manhole	Adoptable	1	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	492774.347	106472.071	15.840	1.442	1200	1	3.002	15.040	150
						2	2.006	15.040	150
									
						0	1.001	14.398	150
2	492755.012	106446.583	15.450	0.800	1050	1	2.004	14.650	150
									
						0	1.003	14.650	150
3	492764.348	106443.963	15.624	1.096	1050	1	2.003	14.548	150
						2	1.003	14.528	150
									
						0	1.004	14.528	150
4	492766.894	106450.051	15.624	1.279	1200	1	2.005	14.345	150
						2	1.004	14.351	150
									
						0	1.005	14.351	150
5	492770.121	106459.814	15.682	1.462	1000	1	1.005	14.220	150
						2	1.001	14.236	150
									
						0	1.002	14.236	150
PB1	492774.966	106462.220	15.870	0.371	1200				
						0	2.001	15.499	150
PB2	492772.641	106454.457	15.870	0.371	1200	1	2.001	15.499	150
									
						0	2.002	15.499	150
PB3	492766.405	106442.478	15.700	0.370	1200	1	2.002	15.330	150
									
						0	2.003	15.330	150
PB4	492761.779	106452.826	15.540	0.630	1200				
						0	2.005	14.910	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
PB5	492753.274	106441.831	15.435	0.630	1200	 0	2.004	14.805	150
PB6			15.870	0.350	1200	 0	2.006	15.520	150
SAT1	492769.042	106460.178	15.682	1.462	1200	1 	1.002	14.220	150
3.1	492786.253	106467.827	15.900	0.563	475	1  0	3.001 3.002	15.337 15.337	150 150
3.2	492793.692	106464.378	15.924	0.480	475	 0	3.001	15.444	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	20.000	Additional Storage (m³/ha)	20.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0
100	45	0	0

Node PB1 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.350	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	1.0		
Invert Level (m)	15.499	Diameter (m)	0.028		

Node PB2 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.400	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	1.0		
Invert Level (m)	15.499	Diameter (m)	0.027		

Node PB1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	15.499	Depth (m)	0.200
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	112	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	7.600		

Node PB2 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	15.499	Depth (m)	0.200
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	87	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	6.200		

Node PB3 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	15.330	Depth (m)	0.200
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	24	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	12.000		

Node PB4 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	14.910	Depth (m)	0.500
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	132	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	21.600		

Node PB5 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	14.805	Depth (m)	0.500
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	148	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	20.300		

Node PB6 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	15.520	Depth (m)	0.200
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	5	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	4.800	Number Required	1
Porosity	0.30	Pit Length (m)	12.000		

Node SAT1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.31600	Invert Level (m)	14.220	Depth (m)	0.800
Side Inf Coefficient (m/hr)	0.31600	Time to half empty (mins)	109	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	3.000	Number Required	1
Porosity	0.95	Pit Length (m)	15.000		

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	14.456	0.058	6.5	0.1025	0.0000	OK
15 minute winter	2	11	14.683	0.033	2.3	0.0398	0.0000	OK
15 minute winter	3	11	14.580	0.052	6.4	0.0701	0.0000	OK
60 minute winter	4	57	14.443	0.098	7.2	0.1113	0.0000	OK
60 minute winter	5	57	14.443	0.223	10.7	0.1752	0.0000	SURCHARGED
60 minute winter	PB1	57	15.525	0.026	0.3	0.3196	0.0000	OK
240 minute winter	PB2	156	15.522	0.023	0.2	0.2370	0.0000	OK
15 minute winter	PB3	13	15.340	0.010	0.8	0.1808	0.0000	OK
15 minute winter	PB4	12	14.939	0.029	6.6	0.9900	0.0000	OK
30 minute winter	PB5	22	14.820	0.015	1.1	0.4533	0.0000	OK
30 minute winter	PB6	22	15.534	0.014	0.7	0.2550	0.0000	OK
60 minute winter	SAT1	58	14.442	0.222	10.4	9.7614	0.0000	OK
15 minute summer	3.1	1	15.337	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.2	1	15.444	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	1	1.001	5	6.4	0.595	0.322	0.1423
15 minute winter	2	1.003	3	2.3	0.561	0.105	0.0334
15 minute winter	3	1.004	4	6.4	0.994	0.245	0.0577
60 minute winter	4	1.005	5	7.2	0.681	0.248	0.0725
60 minute winter	5	1.002	SAT1	10.4	1.040	0.548	0.0246
60 minute winter	PB1	2.001	PB2	0.1	0.063	0.006	0.0051
240 minute winter	PB2	2.002	PB3	0.1	0.545	0.003	0.0007
15 minute winter	PB3	2.003	3	0.6	1.089	0.008	0.0062
15 minute winter	PB4	2.005	4	5.6	1.054	0.084	0.0243
30 minute winter	PB5	2.004	2	0.6	0.457	0.020	0.0083
30 minute winter	PB6	2.006	1	0.4	0.564	0.017	0.0078
60 minute winter	SAT1	Infiltration		2.3			
15 minute summer	3.1	3.002	1	0.0	0.000	0.000	0.0000
15 minute summer	3.2	3.001	3.1	0.0	0.000	0.000	0.0000

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	114	14.863	0.465	5.5	0.8167	0.0000	SURCHARGED
120 minute winter	2	114	14.865	0.215	2.6	0.2611	0.0000	SURCHARGED
120 minute winter	3	114	14.865	0.337	6.3	0.4575	0.0000	SURCHARGED
120 minute winter	4	114	14.864	0.519	10.8	0.5871	0.0000	SURCHARGED
120 minute winter	5	114	14.863	0.643	15.2	0.5047	0.0000	SURCHARGED
120 minute winter	PB1	88	15.559	0.060	0.4	0.7350	0.0000	OK
120 minute winter	PB2	84	15.548	0.049	0.4	0.5046	0.0000	OK
15 minute winter	PB3	12	15.346	0.016	2.2	0.3049	0.0000	OK
15 minute winter	PB4	12	14.964	0.054	16.3	1.8076	0.0000	OK
120 minute winter	PB5	114	14.865	0.060	1.6	1.8324	0.0000	OK
15 minute winter	PB6	12	15.544	0.024	2.1	0.4481	0.0000	OK
120 minute winter	SAT1	116	14.862	0.642	14.9	28.1585	0.0000	OK
15 minute summer	3.1	1	15.337	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.2	1	15.444	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
120 minute winter	1	1.001	5	5.0	0.388	0.251	0.2282
120 minute winter	2	1.003	3	2.5	0.609	0.117	0.1437
120 minute winter	3	1.004	4	6.0	0.893	0.229	0.1430
120 minute winter	4	1.005	5	10.3	0.586	0.357	0.0880
120 minute winter	5	1.002	SAT1	14.9	1.046	0.785	0.0246
120 minute winter	PB1	2.001	PB2	0.2	0.051	0.010	0.0152
120 minute winter	PB2	2.002	PB3	0.3	0.728	0.007	0.0015
15 minute winter	PB3	2.003	3	1.9	0.813	0.025	0.0373
15 minute winter	PB4	2.005	4	13.4	0.980	0.199	0.0465
120 minute winter	PB5	2.004	2	-1.2	0.496	-0.037	0.0603
15 minute winter	PB6	2.006	1	1.4	0.799	0.055	0.0179
120 minute winter	SAT1	Infiltration		3.0			
15 minute summer	3.1	3.002	1	0.0	0.000	0.000	0.0000
15 minute summer	3.2	3.001	3.1	0.0	0.000	0.000	0.0000

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	118	15.001	0.603	7.2	1.0580	0.0000	SURCHARGED
120 minute winter	2	116	15.003	0.353	4.1	0.4287	0.0000	SURCHARGED
120 minute winter	3	116	15.002	0.474	7.7	0.6448	0.0000	SURCHARGED
120 minute winter	4	118	15.002	0.657	13.7	0.7428	0.0000	SURCHARGED
120 minute winter	5	118	15.000	0.780	19.7	0.6127	0.0000	SURCHARGED
120 minute winter	PB1	88	15.580	0.081	0.6	0.9963	0.0000	OK
120 minute winter	PB2	88	15.565	0.066	0.6	0.6753	0.0000	OK
15 minute winter	PB3	11	15.349	0.019	2.8	0.3481	0.0000	OK
120 minute winter	PB4	118	15.002	0.092	6.7	3.0959	0.0000	OK
120 minute winter	PB5	118	15.003	0.198	5.0	6.0624	0.0000	SURCHARGED
15 minute winter	PB6	12	15.548	0.028	2.7	0.5257	0.0000	OK
120 minute winter	SAT1	118	14.999	0.779	19.3	34.1884	0.0000	OK
15 minute summer	3.1	1	15.337	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.2	1	15.444	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
120 minute winter	1	1.001	5	6.7	0.418	0.336	0.2282
120 minute winter	2	1.003	3	3.0	0.612	0.139	0.1437
120 minute winter	3	1.004	4	7.1	0.901	0.268	0.1430
120 minute winter	4	1.005	5	13.2	0.750	0.457	0.0880
120 minute winter	5	1.002	SAT1	19.3	1.110	1.018	0.0246
120 minute winter	PB1	2.001	PB2	0.2	0.050	0.012	0.0224
120 minute winter	PB2	2.002	PB3	0.3	0.780	0.008	0.0017
15 minute winter	PB3	2.003	3	2.6	0.695	0.033	0.0377
120 minute winter	PB4	2.005	4	6.7	0.878	0.099	0.0578
120 minute winter	PB5	2.004	2	-3.9	0.488	-0.124	0.0880
15 minute winter	PB6	2.006	1	2.0	0.878	0.076	0.0225
120 minute winter	SAT1	Infiltration		3.2			
15 minute summer	3.1	3.002	1	0.0	0.000	0.000	0.0000
15 minute summer	3.2	3.001	3.1	0.0	0.000	0.000	0.0000

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	176	15.353	0.955	7.5	1.6760	0.0000	SURCHARGED
180 minute winter	2	176	15.355	0.705	5.7	0.8570	0.0000	FLOOD RISK
180 minute winter	3	176	15.355	0.827	6.9	1.1235	0.0000	FLOOD RISK
180 minute winter	4	176	15.354	1.009	12.3	1.1411	0.0000	FLOOD RISK
180 minute winter	5	176	15.353	1.133	17.7	0.8891	0.0000	SURCHARGED
120 minute winter	PB1	90	15.616	0.117	0.8	1.4383	0.0000	OK
120 minute winter	PB2	92	15.593	0.094	0.8	0.9643	0.0000	OK
180 minute winter	PB3	176	15.355	0.025	1.2	0.4620	0.0000	OK
180 minute winter	PB4	176	15.354	0.444	7.5	14.9779	0.0000	FLOOD RISK
180 minute winter	PB5	176	15.355	0.550	6.9	15.4267	0.0000	FLOOD RISK
15 minute winter	PB6	12	15.554	0.034	3.8	0.6454	0.0000	OK
180 minute winter	SAT1	176	15.351	1.131	17.3	35.5008	0.0000	OK
180 minute winter	3.1	176	15.353	0.016	0.0	0.0028	0.0000	OK
15 minute summer	3.2	1	15.444	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
180 minute winter	1	1.001	5	7.3	0.419	0.369	0.2282
180 minute winter	2	1.003	3	-3.7	0.578	-0.171	0.1437
180 minute winter	3	1.004	4	6.3	0.806	0.239	0.1430
180 minute winter	4	1.005	5	11.8	0.668	0.407	0.0880
180 minute winter	5	1.002	SAT1	17.3	1.087	0.912	0.0246
120 minute winter	PB1	2.001	PB2	0.3	0.050	0.015	0.0350
120 minute winter	PB2	2.002	PB3	0.4	0.846	0.010	0.0020
180 minute winter	PB3	2.003	3	1.2	1.018	0.015	0.0390
180 minute winter	PB4	2.005	4	6.8	0.744	0.101	0.0704
180 minute winter	PB5	2.004	2	-5.4	0.455	-0.173	0.0880
15 minute winter	PB6	2.006	1	3.1	0.879	0.118	0.1032
180 minute winter	SAT1	Infiltration		3.2			
180 minute winter	3.1	3.002	1	0.0	0.004	0.002	0.1176
15 minute summer	3.2	3.001	3.1	0.0	0.000	0.000	0.0000

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	176	15.406	1.008	7.7	1.7691	0.0000	SURCHARGED
180 minute winter	2	176	15.408	0.758	6.4	0.9212	0.0000	FLOOD RISK
180 minute winter	3	176	15.407	0.879	6.4	1.1952	0.0000	FLOOD RISK
180 minute winter	4	176	15.407	1.062	11.4	1.2009	0.0000	FLOOD RISK
180 minute winter	5	176	15.406	1.186	17.5	0.9306	0.0000	FLOOD RISK
120 minute winter	PB1	92	15.619	0.120	0.8	1.4734	0.0000	OK
60 minute winter	PB2	56	15.596	0.097	1.1	0.9932	0.0000	OK
180 minute winter	PB3	176	15.408	0.078	1.3	1.4521	0.0000	OK
180 minute winter	PB4	176	15.407	0.497	11.4	16.7597	0.0000	FLOOD RISK
180 minute winter	PB5	176	15.408	0.603	7.6	15.5032	0.0000	FLOOD RISK
15 minute winter	PB6	12	15.555	0.035	3.9	0.6602	0.0000	OK
180 minute winter	SAT1	176	15.404	1.184	17.2	35.5607	0.0000	OK
180 minute winter	3.1	176	15.406	0.069	0.1	0.0122	0.0000	OK
15 minute summer	3.2	1	15.444	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
180 minute winter	1	1.001	5	7.4	0.419	0.371	0.2282
180 minute winter	2	1.003	3	-4.3	0.561	-0.196	0.1437
180 minute winter	3	1.004	4	5.7	0.815	0.216	0.1430
180 minute winter	4	1.005	5	11.2	0.634	0.386	0.0880
180 minute winter	5	1.002	SAT1	17.2	1.094	0.908	0.0246
120 minute winter	PB1	2.001	PB2	0.3	0.053	0.015	0.0359
60 minute winter	PB2	2.002	PB3	0.4	0.872	0.010	0.0025
180 minute winter	PB3	2.003	3	1.3	1.006	0.016	0.0536
180 minute winter	PB4	2.005	4	7.0	0.748	0.104	0.0704
180 minute winter	PB5	2.004	2	-6.1	0.458	-0.193	0.0880
15 minute winter	PB6	2.006	1	3.2	0.888	0.123	0.1037
180 minute winter	SAT1	Infiltration		3.2			
180 minute winter	3.1	3.002	1	-0.1	-0.007	-0.003	0.1613
15 minute summer	3.2	3.001	3.1	0.0	0.000	0.000	0.0000