

### Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	5	Maximum Rainfall (mm/hr)	200.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.500
Ratio-R	0.300	Preferred Cover Depth (m)	1.200
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	2.00	Enforce best practice design rules	✓

### Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
1	0.025	2.00	66.685	1200	414892.387	416829.912	1.335	65.350
2	0.067	2.00	66.827	1350	414890.545	416839.328	1.648	65.179
3			66.900	1350	414907.463	416842.339	1.893	65.007
4	0.059	2.00	66.800	1200	414875.151	416871.271	1.000	65.800
5			66.500	1200	414901.615	416875.269	0.950	65.550
6			66.900	1350	414904.125	416864.869	2.121	64.779
7	0.018	2.00	66.177	1200	414922.067	416847.640	1.327	64.850
8			66.042	1350	414919.858	416867.878	1.640	64.402
Tank Inlet 1			65.967		414924.236	416868.671	3.167	62.800
9	0.026	2.00	64.501	1200	414936.118	416846.695	1.401	63.100
10	0.049	2.00	65.805	1350	414928.978	416854.563	2.305	63.500
11	0.033	2.00	65.641	1350	414934.410	416857.223	2.762	62.879
12			65.557	1350	414933.144	416864.761	2.729	62.828
Tank Inlet 2			65.563		414932.802	416867.011	2.763	62.800
Tank Outlet 1		2.00	65.504		414934.109	416870.260	2.704	62.800
13			65.442	1800	414935.501	416870.566	2.652	62.790
Outfall to Canal			65.300	1350	414938.428	416871.140	2.547	62.753
14	0.036	2.00	67.507	1350	414865.017	416920.105	1.507	66.000
15	0.040	2.00	67.377	1350	414871.932	416933.056	1.819	65.558
Tank Inlet 3			67.348		414870.382	416933.988	1.848	65.500
Tank Outlet 2		2.00	67.260		414866.143	416936.597	1.760	65.500
16	0.041	2.00	67.238	1500	414864.615	416937.535	1.750	65.488
Outfall to Sewer			67.151	1350	414857.115	416941.966	1.721	65.430

### 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)
1.000	1	2	9.594	0.600	65.350	65.254	0.096	100.0	150	2.16	86.2
1.001	2	3	17.184	0.600	65.179	65.007	0.172	100.0	225	2.38	84.2
1.002	3	6	22.776	0.600	65.007	64.779	0.228	100.0	225	2.67	81.6
2.000	4	5	26.764	0.600	65.800	65.550	0.250	107.1	225	2.35	84.4
2.001	5	6	10.699	0.600	65.550	64.779	0.771	13.9	225	2.40	83.9
1.003	6	8	16.018	0.600	64.779	64.459	0.320	50.0	225	2.81	80.5
3.000	7	8	20.358	0.600	64.850	64.477	0.373	54.6	150	2.25	85.4
1.004	8	Tank Inlet 1	4.449	0.600	64.402	64.313	0.089	50.0	225	2.85	80.1

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)
1.000	1.005	17.8	7.8	1.185	1.423	0.025	0.0	69	0.972
1.001	1.307	52.0	28.0	1.423	1.668	0.092	0.0	117	1.329
1.002	1.307	52.0	27.1	1.668	1.896	0.092	0.0	116	1.322
2.000	1.263	50.2	18.0	0.775	0.725	0.059	0.0	93	1.159
2.001	3.531	140.4	17.9	0.725	1.896	0.059	0.0	54	2.445
1.003	1.854	73.7	43.9	1.896	1.358	0.151	0.0	125	1.932
3.000	1.364	24.1	5.6	1.177	1.415	0.018	0.0	49	1.111
1.004	1.854	73.7	48.9	1.415	1.429	0.169	0.0	134	1.978

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)
4.000	9	11	10.666	0.600	63.100	63.029	0.071	150.0	150	2.22	85.7
5.000	10	11	6.048	0.600	63.500	63.029	0.471	12.8	150	2.04	87.4
4.001	11	12	7.644	0.600	62.879	62.828	0.051	150.0	300	2.32	84.7
4.002	12	Tank Inlet 2	2.276	0.600	62.828	62.813	0.015	150.0	300	2.35	84.5
1.005	Tank Outlet 1	13	1.425	0.600	62.800	62.790	0.010	150.0	300	2.02	87.6
1.006	13	Outfall to Canal	2.983	0.600	62.790	62.753	0.037	80.0	225	2.05	87.3
6.000	14	15	14.681	0.600	66.000	65.633	0.367	40.0	150	2.15	86.3
6.001	15	Tank Inlet 3	1.809	0.600	65.558	65.535	0.023	80.0	225	2.17	86.1
5.002	Tank Outlet 2	16	1.793	0.600	65.500	65.488	0.012	150.0	225	2.03	87.5
5.003	16	Outfall to Sewer	8.711	0.600	65.488	65.430	0.058	150.0	225	2.16	86.2

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)
4.000	0.818	14.5	8.0	1.251	2.462	0.026	0.0	80	0.840
5.000	2.826	49.9	15.5	2.155	2.462	0.049	0.0	57	2.495
4.001	1.281	90.6	33.1	2.462	2.429	0.108	0.0	125	1.183
4.002	1.281	90.6	33.0	2.429	2.450	0.108	0.0	125	1.183
1.005	1.281	90.6	0.0	2.404	2.352	0.000	0.0	0	0.000
1.006	1.463	58.2	0.0	2.427	2.322	0.000	0.0	0	0.000
6.000	1.596	28.2	11.2	1.357	1.594	0.036	0.0	66	1.508
6.001	1.463	58.2	23.6	1.594	1.588	0.076	0.0	100	1.389
5.002	1.065	42.3	0.0	1.535	1.525	0.000	0.0	0	0.000
5.003	1.065	42.3	12.8	1.525	1.496	0.041	0.0	85	0.936

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	9.594	100.0	150	1 STANDARD	66.685	65.350	1.185	66.827	65.254	1.423
1.001	17.184	100.0	225	1 STANDARD	66.827	65.179	1.423	66.900	65.007	1.668
1.002	22.776	100.0	225	1 STANDARD	66.900	65.007	1.668	66.900	64.779	1.896
2.000	26.764	107.1	225	1 STANDARD	66.800	65.800	0.775	66.500	65.550	0.725
2.001	10.699	13.9	225	1 STANDARD	66.500	65.550	0.725	66.900	64.779	1.896
1.003	16.018	50.0	225	1 STANDARD	66.900	64.779	1.896	66.042	64.459	1.358
3.000	20.358	54.6	150	1 STANDARD	66.177	64.850	1.177	66.042	64.477	1.415
1.004	4.449	50.0	225	1 STANDARD	66.042	64.402	1.415	65.967	64.313	1.429
4.000	10.666	150.0	150	1 STANDARD	64.501	63.100	1.251	65.641	63.029	2.462
5.000	6.048	12.8	150	1 STANDARD	65.805	63.500	2.155	65.641	63.029	2.462
4.001	7.644	150.0	300	1 STANDARD	65.641	62.879	2.462	65.557	62.828	2.429
4.002	2.276	150.0	300	1 STANDARD	65.557	62.828	2.429	65.563	62.813	2.450
1.005	1.425	150.0	300	1 STANDARD	65.504	62.800	2.404	65.442	62.790	2.352
1.006	2.983	80.0	225	1 STANDARD	65.442	62.790	2.427	65.300	62.753	2.322








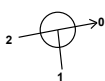



Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	1 STANDARD	2	1350	Manhole	1 STANDARD
1.001	2	1350	Manhole	1 STANDARD	3	1350	Manhole	1 STANDARD
1.002	3	1350	Manhole	1 STANDARD	6	1350	Manhole	1 STANDARD
2.000	4	1200	Manhole	1 STANDARD	5	1200	Manhole	1 STANDARD
2.001	5	1200	Manhole	1 STANDARD	6	1350	Manhole	1 STANDARD
1.003	6	1350	Manhole	1 STANDARD	8	1350	Manhole	1 STANDARD
3.000	7	1200	Manhole	1 STANDARD	8	1350	Manhole	1 STANDARD
1.004	8	1350	Manhole	1 STANDARD	Tank Inlet 1		Junction	
4.000	9	1200	Manhole	1 STANDARD	11	1350	Manhole	1 STANDARD
5.000	10	1350	Manhole	1 STANDARD	11	1350	Manhole	1 STANDARD
4.001	11	1350	Manhole	1 STANDARD	12	1350	Manhole	1 STANDARD
4.002	12	1350	Manhole	1 STANDARD	Tank Inlet 2		Junction	
1.005	Tank Outlet 1		Junction		13	1800	Manhole	1 STANDARD
1.006	13	1800	Manhole	1 STANDARD	Outfall to Canal	1350	Manhole	1 STANDARD

**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)
6.000	14.681	40.0	150	1 STANDARD	67.507	66.000	1.357	67.377	65.633	1.594
6.001	1.809	80.0	225	1 STANDARD	67.377	65.558	1.594	67.348	65.535	1.588
5.002	1.793	150.0	225	1 STANDARD	67.260	65.500	1.535	67.238	65.488	1.525
5.003	8.711	150.0	225	1 STANDARD	67.238	65.488	1.525	67.151	65.430	1.496

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
6.000	14	1350	Manhole	1 STANDARD	15	1350	Manhole	1 STANDARD
6.001	15	1350	Manhole	1 STANDARD	Tank Inlet 3		Junction	
5.002	Tank Outlet 2		Junction		16	1500	Manhole	1 STANDARD
5.003	16	1500	Manhole	1 STANDARD	Outfall to Sewer	1350	Manhole	1 STANDARD

**Manhole Schedule**

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	414892.387	416829.912	66.685	1.335	1200				
						0	1.000	65.350	150
2	414890.545	416839.328	66.827	1.648	1350				
						0	1.001	65.179	225
3	414907.463	416842.339	66.900	1.893	1350				
						0	1.002	65.007	225
4	414875.151	416871.271	66.800	1.000	1200				
						0	2.000	65.800	225
5	414901.615	416875.269	66.500	0.950	1200				
						0	2.001	65.550	225
6	414904.125	416864.869	66.900	2.121	1350				
						1	2.001	64.779	225
						2	1.002	64.779	225
						0	1.003	64.779	225
7	414922.067	416847.640	66.177	1.327	1200				
						0	3.000	64.850	150
8	414919.858	416867.878	66.042	1.640	1350				
						1	3.000	64.477	150
						2	1.003	64.459	225
						0	1.004	64.402	225
Tank Inlet 1	414924.236	416868.671	65.967	3.167					
						1	1.004	64.313	225
9	414936.118	416846.695	64.501	1.401	1200				
						0	4.000	63.100	150
10	414928.978	416854.563	65.805	2.305	1350				
						0	5.000	63.500	150

**Manhole Schedule**

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
11	414934.410	416857.223	65.641	2.762	1350		1	5.000	63.029	150
						2	4.000	63.029	150	
						0	4.001	62.879	300	
12	414933.144	416864.761	65.557	2.729	1350		1	4.001	62.828	300
						0	4.002	62.828	300	
Tank Inlet 2	414932.802	416867.011	65.563	2.763			1	4.002	62.813	300
Tank Outlet 1	414934.109	416870.260	65.504	2.704			0	1.005	62.800	300
13	414935.501	416870.566	65.442	2.652	1800		1	1.005	62.790	300
						0	1.006	62.790	225	
Outfall to Canal	414938.428	416871.140	65.300	2.547	1350		1	1.006	62.753	225
14	414865.017	416920.105	67.507	1.507	1350		0	6.000	66.000	150
15	414871.932	416933.056	67.377	1.819	1350		1	6.000	65.633	150
						0	6.001	65.558	225	
Tank Inlet 3	414870.382	416933.988	67.348	1.848			1	6.001	65.535	225
Tank Outlet 2	414866.143	416936.597	67.260	1.760			0	5.002	65.500	225
16	414864.615	416937.535	67.238	1.750	1500		1	5.002	65.488	225
						0	5.003	65.488	225	
Outfall to Sewer	414857.115	416941.966	67.151	1.721	1350		1	5.003	65.430	225

**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)	17.000	Additional Storage (m <sup>3</sup> /ha)	0.0
Ratio-R	0.300	Starting Level (m)	
Summer CV	1.000	Check Discharge Rate(s)	x
Winter CV	1.000	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 %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	40	0	0
30	0	0	0				

**Node 13 Online Hydro-Brake® Control**

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	62.790	Product Number	CTL-SHE-0178-1730-1600-1730
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	17.3	Min Node Diameter (mm)	1800

**Node 16 Online Hydro-Brake® Control**

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	65.488	Product Number	CTL-SHE-0145-9400-0800-9400
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	9.4	Min Node Diameter (mm)	1200

**Node Tank Outlet 1 Tank Storage Structure**

Invert Level (m) 62.800 | Time to half empty (mins) 68 | Analyse flow through structure x

**Inlets**

Tank Inlet 1 | Tank Inlet 2

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	49.6	1.600	49.6	1.601	0.0

**Node Tank Outlet 2 Tank Storage Structure**

Invert Level (m) 65.500 | Time to half empty (mins) 58 | Analyse flow through structure x

**Inlets**

Tank Inlet 3

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	42.8	0.800	42.8	0.801	0.0

**Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m <sup>3</sup> )	Flood (m <sup>3</sup> )	Status
15 minute summer	1	9	65.415	0.065	6.2	0.0732	0.0000	OK
15 minute summer	2	9	65.290	0.111	22.9	0.1585	0.0000	OK
15 minute summer	3	9	65.116	0.109	22.9	0.1557	0.0000	OK
15 minute summer	4	9	65.891	0.091	14.7	0.1030	0.0000	OK
15 minute summer	5	9	65.599	0.049	14.7	0.0555	0.0000	OK
15 minute summer	6	9	64.901	0.122	37.7	0.1752	0.0000	OK
15 minute summer	7	9	64.894	0.044	4.5	0.0497	0.0000	OK
15 minute summer	8	9	64.535	0.133	41.4	0.1910	0.0000	OK
60 minute summer	Tank Inlet 1	38	63.138	0.338	23.8	0.0000	0.0000	OK
15 minute summer	9	9	63.174	0.074	6.5	0.0841	0.0000	OK
15 minute summer	10	9	63.555	0.055	12.2	0.0790	0.0000	OK
60 minute summer	11	38	63.133	0.254	15.3	0.3630	0.0000	OK
60 minute summer	12	38	63.133	0.305	14.1	0.4360	0.0000	SURCHARGED
60 minute summer	Tank Inlet 2	38	63.133	0.333	12.8	0.0000	0.0000	OK
60 minute summer	Tank Outlet 1	38	63.120	0.320	21.7	16.0162	0.0000	SURCHARGED
60 minute summer	13	38	63.119	0.329	16.2	0.8371	0.0000	SURCHARGED
60 minute summer	Outfall to Canal	38	62.833	0.080	15.9	0.0000	0.0000	OK
15 minute summer	14	9	66.061	0.061	9.0	0.0870	0.0000	OK
60 minute summer	15	37	65.689	0.131	10.8	0.1880	0.0000	OK
60 minute summer	Tank Inlet 3	37	65.689	0.189	10.5	0.0000	0.0000	OK
60 minute summer	Tank Outlet 2	37	65.678	0.178	5.5	7.6505	0.0000	OK
60 minute summer	16	37	65.678	0.190	7.1	0.3359	0.0000	OK
60 minute summer	Outfall to Sewer	37	65.492	0.062	7.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m <sup>3</sup> )	Discharge Vol (m <sup>3</sup> )
15 minute summer	1	1.000	2	6.2	0.886	0.349	0.0671	
15 minute summer	2	1.001	3	22.9	1.191	0.441	0.3304	
15 minute summer	3	1.002	6	23.0	1.119	0.442	0.4677	
15 minute summer	4	2.000	5	14.7	1.398	0.293	0.2867	
15 minute summer	5	2.001	6	14.7	1.138	0.105	0.1521	
15 minute summer	6	1.003	8	36.9	1.768	0.501	0.3344	
15 minute summer	7	3.000	8	4.5	0.973	0.187	0.1084	
15 minute summer	8	1.004	Tank Inlet 1	41.0	1.790	0.556	0.1020	
15 minute summer	9	4.000	11	6.5	0.774	0.449	0.0895	
15 minute summer	10	5.000	11	12.2	2.201	0.244	0.0335	
60 minute summer	11	4.001	12	14.1	0.517	0.156	0.5120	
60 minute summer	12	4.002	Tank Inlet 2	12.8	0.505	0.141	0.1603	
60 minute summer	Tank Outlet 1	1.005	13	16.2	0.462	0.179	0.1003	
60 minute summer	13	1.006	Outfall to Canal	15.9	1.120	0.274	0.0425	37.6
15 minute summer	14	6.000	15	9.0	1.384	0.319	0.0955	
60 minute summer	15	6.001	Tank Inlet 3	10.5	0.872	0.180	0.0480	
60 minute summer	Tank Outlet 2	5.002	16	5.2	-0.251	0.124	0.0624	
60 minute summer	16	5.003	Outfall to Sewer	7.1	0.766	0.167	0.0804	15.8

**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 (m <sup>3</sup> )	Flood (m <sup>3</sup> )	Status
15 minute summer	1	9	65.448	0.098	11.7	0.1103	0.0000	OK
15 minute summer	2	9	65.352	0.173	43.1	0.2479	0.0000	OK
15 minute summer	3	9	65.177	0.170	43.1	0.2430	0.0000	OK
15 minute summer	4	9	65.931	0.131	27.6	0.1477	0.0000	OK
15 minute summer	5	9	65.617	0.067	27.6	0.0762	0.0000	OK
15 minute summer	6	9	64.981	0.202	70.8	0.2884	0.0000	OK
15 minute summer	7	9	64.911	0.061	8.4	0.0690	0.0000	OK
15 minute summer	8	10	64.656	0.254	77.0	0.3632	0.0000	SURCHARGED
60 minute summer	Tank Inlet 1	41	63.535	0.735	45.4	0.0000	0.0000	OK
60 minute summer	9	42	63.529	0.429	7.1	0.4854	0.0000	SURCHARGED
15 minute summer	10	8	63.580	0.080	22.9	0.1143	0.0000	OK
60 minute summer	11	42	63.529	0.650	28.0	0.9298	0.0000	SURCHARGED
60 minute summer	12	42	63.528	0.700	26.3	1.0024	0.0000	SURCHARGED
60 minute summer	Tank Inlet 2	42	63.528	0.728	24.8	0.0000	0.0000	OK
60 minute summer	Tank Outlet 1	42	63.513	0.713	36.2	35.1669	0.0000	SURCHARGED
60 minute summer	13	42	63.512	0.722	19.7	1.8363	0.0000	SURCHARGED
30 minute summer	Outfall to Canal	19	62.837	0.084	17.3	0.0000	0.0000	OK
15 minute summer	14	9	66.089	0.089	16.9	0.1272	0.0000	OK
60 minute summer	15	39	65.868	0.310	20.8	0.4440	0.0000	SURCHARGED
60 minute summer	Tank Inlet 3	39	65.868	0.368	19.4	0.0000	0.0000	OK
60 minute summer	Tank Outlet 2	39	65.853	0.353	10.2	14.9983	0.0000	SURCHARGED
60 minute summer	16	39	65.853	0.365	11.2	0.6443	0.0000	SURCHARGED
120 minute summer	Outfall to Sewer	72	65.501	0.071	9.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m <sup>3</sup> )	Discharge Vol (m <sup>3</sup> )
15 minute summer	1	1.000	2	11.7	0.965	0.659	0.1168	
15 minute summer	2	1.001	3	43.1	1.333	0.829	0.5581	
15 minute summer	3	1.002	6	43.2	1.232	0.831	0.7935	
15 minute summer	4	2.000	5	27.6	1.642	0.550	0.4531	
15 minute summer	5	2.001	6	27.6	1.370	0.197	0.2541	
15 minute summer	6	1.003	8	68.6	1.946	0.930	0.5656	
15 minute summer	7	3.000	8	8.4	0.995	0.348	0.2477	
15 minute summer	8	1.004	Tank Inlet 1	73.8	1.879	1.002	0.1746	
60 minute summer	9	4.000	11	5.8	0.709	0.399	0.1878	
15 minute summer	10	5.000	11	23.4	2.504	0.469	0.0708	
60 minute summer	11	4.001	12	26.3	0.636	0.290	0.5383	
60 minute summer	12	4.002	Tank Inlet 2	24.8	0.574	0.274	0.1603	
60 minute summer	Tank Outlet 1	1.005	13	19.7	0.556	0.218	0.1003	
60 minute summer	13	1.006	Outfall to Canal	17.3	1.143	0.297	0.0451	71.8
15 minute summer	14	6.000	15	17.1	1.555	0.606	0.1660	
60 minute summer	15	6.001	Tank Inlet 3	19.4	0.767	0.334	0.0719	
60 minute summer	Tank Outlet 2	5.002	16	8.0	-0.440	0.188	0.0713	
60 minute summer	16	5.003	Outfall to Sewer	9.4	0.826	0.222	0.0990	30.4

**Results for 100 year +40% CC 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
15 minute summer	1	10	66.229	0.879	21.1	0.9940	0.0000	SURCHARGED
15 minute summer	2	10	66.126	0.947	69.4	1.3544	0.0000	SURCHARGED
15 minute summer	3	10	65.893	0.886	59.8	1.2682	0.0000	SURCHARGED
15 minute summer	4	9	65.998	0.198	49.7	0.2237	0.0000	OK
15 minute summer	5	9	65.675	0.125	50.1	0.1408	0.0000	OK
15 minute summer	6	10	65.567	0.788	99.0	1.1278	0.0000	SURCHARGED
15 minute summer	7	9	64.946	0.096	15.2	0.1087	0.0000	OK
15 minute summer	8	10	64.830	0.428	108.3	0.6121	0.0000	SURCHARGED
120 minute summer	Tank Inlet 1	80	64.526	1.726	54.5	0.0000	0.0000	OK
120 minute summer	9	78	64.501	1.401	8.4	1.5845	1.3409	FLOOD
120 minute summer	10	78	64.514	1.014	15.8	1.4508	0.0000	SURCHARGED
120 minute summer	11	78	64.509	1.630	31.5	2.3319	0.0000	SURCHARGED
120 minute summer	12	78	64.509	1.681	29.6	2.4055	0.0000	SURCHARGED
120 minute summer	Tank Inlet 2	78	64.509	1.709	27.8	0.0000	0.0000	OK
120 minute summer	Tank Outlet 1	80	64.496	1.696	40.3	77.7824	0.0000	SURCHARGED
120 minute summer	13	80	64.495	1.705	19.9	4.3384	0.0000	SURCHARGED
120 minute summer	Outfall to Canal	80	62.837	0.084	17.3	0.0000	0.0000	OK
15 minute summer	14	9	66.327	0.327	30.3	0.4677	0.0000	SURCHARGED
120 minute summer	15	80	66.297	0.739	24.4	1.0581	0.0000	SURCHARGED
120 minute summer	Tank Inlet 3	80	66.297	0.797	23.1	0.0000	0.0000	OK
120 minute summer	Tank Outlet 2	80	66.281	0.781	12.9	32.8201	0.0000	SURCHARGED
120 minute summer	16	80	66.280	0.792	13.2	1.3996	0.0000	SURCHARGED
15 minute winter	Outfall to Sewer	9	65.501	0.071	9.4	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)	Discharge Vol (m³)
15 minute summer	1	1.000	2	15.8	0.982	0.891	0.1689	
15 minute summer	2	1.001	3	59.8	1.503	1.150	0.6834	
15 minute summer	3	1.002	6	55.9	1.405	1.075	0.9058	
15 minute summer	4	2.000	5	50.1	1.764	0.997	0.7967	
15 minute summer	5	2.001	6	47.5	1.702	0.339	0.3333	
15 minute summer	6	1.003	8	97.2	2.444	1.319	0.6371	
15 minute summer	7	3.000	8	14.5	1.004	0.600	0.3006	
15 minute summer	8	1.004	Tank Inlet 1	109.1	2.743	1.480	0.1752	
120 minute summer	9	4.000	11	6.9	0.584	0.480	0.1878	
120 minute summer	10	5.000	11	14.0	1.648	0.279	0.1065	
120 minute summer	11	4.001	12	29.6	0.577	0.327	0.5383	
120 minute summer	12	4.002	Tank Inlet 2	27.8	0.593	0.307	0.1603	
120 minute summer	Tank Outlet 1	1.005	13	19.9	0.578	0.219	0.1003	
120 minute summer	13	1.006	Outfall to Canal	17.3	1.144	0.298	0.0452	167.8
15 minute summer	14	6.000	15	26.7	1.567	0.948	0.2585	
120 minute summer	15	6.001	Tank Inlet 3	23.1	0.711	0.398	0.0719	
120 minute summer	Tank Outlet 2	5.002	16	9.0	-0.491	0.213	0.0713	
120 minute summer	16	5.003	Outfall to Sewer	9.4	0.826	0.222	0.0990	71.4