



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	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)	0.000
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	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SP1	0.030	5.00	162.912	1200	407422.478	341864.841	1.512
SP2			161.624	1200	407450.003	341864.371	1.524
S3	0.085	5.00	160.547	1200	407469.513	341873.909	1.797
S4			159.268	1200	407484.298	341883.369	1.818
S5	0.189	5.00	156.657	1500	407514.980	341888.399	1.857
S6			154.813	1500	407535.116	341897.842	1.863
S7			154.012	1500	407544.290	341899.924	1.862
S8	0.144	5.00	151.602	1500	407575.718	341900.341	1.802
S9	0.056	5.00	150.019	1500	407606.668	341897.399	1.919
POND			149.550	100	407623.969	341896.387	1.650
S10			149.550	2700	407635.218	341895.730	1.700
S11			149.000	1500	407645.468	341888.579	1.200
OUTFALL			148.500	100	407656.905	341888.065	0.750
S12	0.071	5.00	149.763	1500	407607.709	341910.202	0.463

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	SP1	SP2	27.529	0.600	161.400	160.100	1.300	21.2	150	5.21	50.0
1.001	SP2	S3	21.717	0.600	160.100	158.750	1.350	16.1	150	5.35	50.0
1.002	S3	S4	17.552	0.600	158.750	157.600	1.150	15.3	150	5.47	50.0
1.003	S4	S5	31.092	0.600	157.450	154.800	2.650	11.7	300	5.58	50.0
1.004	S5	S6	22.240	0.600	154.800	152.950	1.850	12.0	300	5.66	50.0
1.005	S6	S7	9.407	0.600	152.950	152.150	0.800	11.8	300	5.69	50.0
1.006	S7	S8	31.431	0.600	152.150	149.800	2.350	13.4	300	5.81	50.0
1.007	S8	S9	31.090	0.600	149.800	148.175	1.625	19.1	300	5.96	50.0
1.008	S9	POND	17.331	0.600	148.100	148.050	0.050	346.6	375	6.26	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)
1.000	2.198	38.8	4.1	1.362	1.374	0.030	0.0	33	1.425
1.001	2.524	44.6	4.1	1.374	1.647	0.030	0.0	31	1.584
1.002	2.591	45.8	15.6	1.647	1.518	0.115	0.0	60	2.344
1.003	4.614	326.1	15.6	1.518	1.557	0.115	0.0	44	2.411
1.004	4.558	322.2	41.2	1.557	1.563	0.304	0.0	72	3.161
1.005	4.609	325.8	41.2	1.563	1.562	0.304	0.0	72	3.196
1.006	4.321	305.4	41.2	1.562	1.502	0.304	0.0	74	3.050
1.007	3.610	255.2	60.7	1.502	1.544	0.448	0.0	99	2.981
1.008	0.967	106.8	77.9	1.544	1.125	0.575	0.0	238	1.052



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)
1.009	POND	S10	11.268	0.600	147.900	147.850	0.050	225.4	375	6.41	50.0
1.010	S10	S11	12.498	0.600	147.850	147.800	0.050	250.0	375	6.59	50.0
1.011	S11	OUTFALL	11.449	0.600	147.800	147.750	0.050	229.0	375	6.75	50.0
2.000	S12	S9	12.845	0.600	149.300	148.500	0.800	16.1	300	5.05	50.0

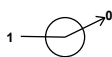
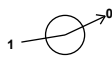
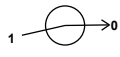
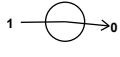
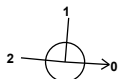
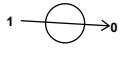
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.009	1.203	132.8	77.9	1.275	1.325	0.575	0.0	207	1.249
1.010	1.141	126.0	77.9	1.325	0.825	0.575	0.0	214	1.199
1.011	1.193	131.8	77.9	0.825	0.375	0.575	0.0	208	1.241
2.000	3.942	278.7	9.6	0.163	1.219	0.071	0.0	38	1.870

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	27.529	21.2	150	162.912	161.400	1.362	161.624	160.100	1.374
1.001	21.717	16.1	150	161.624	160.100	1.374	160.547	158.750	1.647
1.002	17.552	15.3	150	160.547	158.750	1.647	159.268	157.600	1.518
1.003	31.092	11.7	300	159.268	157.450	1.518	156.657	154.800	1.557
1.004	22.240	12.0	300	156.657	154.800	1.557	154.813	152.950	1.563
1.005	9.407	11.8	300	154.813	152.950	1.563	154.012	152.150	1.562
1.006	31.431	13.4	300	154.012	152.150	1.562	151.602	149.800	1.502
1.007	31.090	19.1	300	151.602	149.800	1.502	150.019	148.175	1.544
1.008	17.331	346.6	375	150.019	148.100	1.544	149.550	148.050	1.125
1.009	11.268	225.4	375	149.550	147.900	1.275	149.550	147.850	1.325
1.010	12.498	250.0	375	149.550	147.850	1.325	149.000	147.800	0.825
1.011	11.449	229.0	375	149.000	147.800	0.825	148.500	147.750	0.375
2.000	12.845	16.1	300	149.763	149.300	0.163	150.019	148.500	1.219

Link	US Node	Dia (mm)	DS Node	Dia (mm)
1.000	SP1	1200	SP2	1200
1.001	SP2	1200	S3	1200
1.002	S3	1200	S4	1200
1.003	S4	1200	S5	1500
1.004	S5	1500	S6	1500
1.005	S6	1500	S7	1500
1.006	S7	1500	S8	1500
1.007	S8	1500	S9	1500
1.008	S9	1500	POND	100
1.009	POND	100	S10	2700
1.010	S10	2700	S11	1500
1.011	S11	1500	OUTFALL	100
2.000	S12	1500	S9	1500

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SP1	407422.478	341864.841	162.912	1.512	1200				
						0	1.000	161.400	150
SP2	407450.003	341864.371	161.624	1.524	1200		1	1.000	160.100
						0	1.001	160.100	150
S3	407469.513	341873.909	160.547	1.797	1200		1	1.001	158.750
						0	1.002	158.750	150
S4	407484.298	341883.369	159.268	1.818	1200		1	1.002	157.600
						0	1.003	157.450	300
S5	407514.980	341888.399	156.657	1.857	1500		1	1.003	154.800
						0	1.004	154.800	300
S6	407535.116	341897.842	154.813	1.863	1500		1	1.004	152.950
						0	1.005	152.950	300
S7	407544.290	341899.924	154.012	1.862	1500		1	1.005	152.150
						0	1.006	152.150	300
S8	407575.718	341900.341	151.602	1.802	1500		1	1.006	149.800
						0	1.007	149.800	300
S9	407606.668	341897.399	150.019	1.919	1500		1	2.000	148.500
						2	1.007	148.175	300
						0	1.008	148.100	375
POND	407623.969	341896.387	149.550	1.650	100		1	1.008	148.050
						0	1.009	147.900	375
S10	407635.218	341895.730	149.550	1.700	2700		1	1.009	147.850
						0	1.010	147.850	375
S11	407645.468	341888.579	149.000	1.200	1500		1	1.010	147.800
						0	1.011	147.800	375
OUTFALL	407656.905	341888.065	148.500	0.750	100		1	1.011	147.750

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S12	407607.709	341910.202	149.763	0.463	1500		0	2.000	149.300	300

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m³/ha)	0.0
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
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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	40	0	0

Node S10 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	147.850	Product Number	CTL-SHE-0120-7200-1375-7200
Design Depth (m)	1.375	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	7.2	Min Node Diameter (mm)	1200

Node POND Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	147.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	112.3	0.0	1.350	345.2	0.0	1.650	422.5	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	109.521	30.991	1 year 120 minute winter	19.966	7.942
1 year 15 minute winter	76.857	30.991	1 year 180 minute summer	23.233	5.979
1 year 30 minute summer	71.439	20.215	1 year 180 minute winter	15.102	5.979
1 year 30 minute winter	50.133	20.215	1 year 240 minute summer	18.475	4.882
1 year 60 minute summer	48.435	12.800	1 year 240 minute winter	12.274	4.882
1 year 60 minute winter	32.179	12.800	1 year 360 minute summer	14.169	3.646
1 year 120 minute summer	30.053	7.942	1 year 360 minute winter	9.210	3.646

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 480 minute summer	11.185	2.956	30 year 120 minute winter	46.797	18.615
1 year 480 minute winter	7.431	2.956	30 year 180 minute summer	53.298	13.715
1 year 600 minute summer	9.182	2.511	30 year 180 minute winter	34.645	13.715
1 year 600 minute winter	6.274	2.511	30 year 240 minute summer	41.604	10.995
1 year 720 minute summer	8.203	2.199	30 year 240 minute winter	27.641	10.995
1 year 720 minute winter	5.513	2.199	30 year 360 minute summer	31.221	8.034
1 year 960 minute summer	6.768	1.782	30 year 360 minute winter	20.295	8.034
1 year 960 minute winter	4.483	1.782	30 year 480 minute summer	24.324	6.428
1 year 1440 minute summer	4.949	1.326	30 year 480 minute winter	16.160	6.428
1 year 1440 minute winter	3.326	1.326	30 year 600 minute summer	19.756	5.404
2 year 15 minute summer	141.566	40.058	30 year 600 minute winter	13.498	5.404
2 year 15 minute winter	99.345	40.058	30 year 720 minute summer	17.490	4.687
2 year 30 minute summer	91.753	25.963	30 year 720 minute winter	11.754	4.687
2 year 30 minute winter	64.388	25.963	30 year 960 minute summer	14.215	3.743
2 year 60 minute summer	61.301	16.200	30 year 960 minute winter	9.416	3.743
2 year 60 minute winter	40.727	16.200	30 year 1440 minute summer	10.161	2.723
2 year 120 minute summer	37.449	9.897	30 year 1440 minute winter	6.829	2.723
2 year 120 minute winter	24.880	9.897	100 year +40% CC 15 minute summer	488.233	138.153
2 year 180 minute summer	28.672	7.378	100 year +40% CC 15 minute winter	342.620	138.153
2 year 180 minute winter	18.637	7.378	100 year +40% CC 30 minute summer	320.551	90.705
2 year 240 minute summer	22.636	5.982	100 year +40% CC 30 minute winter	224.948	90.705
2 year 240 minute winter	15.039	5.982	100 year +40% CC 60 minute summer	214.603	56.713
2 year 360 minute summer	17.235	4.435	100 year +40% CC 60 minute winter	142.577	56.713
2 year 360 minute winter	11.203	4.435	100 year +40% CC 120 minute summer	129.587	34.246
2 year 480 minute summer	13.550	3.581	100 year +40% CC 120 minute winter	86.094	34.246
2 year 480 minute winter	9.003	3.581	100 year +40% CC 180 minute summer	97.729	25.149
2 year 600 minute summer	11.088	3.033	100 year +40% CC 180 minute winter	63.526	25.149
2 year 600 minute winter	7.576	3.033	100 year +40% CC 240 minute summer	75.977	20.078
2 year 720 minute summer	9.878	2.647	100 year +40% CC 240 minute winter	50.477	20.078
2 year 720 minute winter	6.639	2.647	100 year +40% CC 360 minute summer	56.677	14.585
2 year 960 minute summer	8.113	2.136	100 year +40% CC 360 minute winter	36.841	14.585
2 year 960 minute winter	5.374	2.136	100 year +40% CC 480 minute summer	43.979	11.622
2 year 1440 minute summer	5.891	1.579	100 year +40% CC 480 minute winter	29.219	11.622
2 year 1440 minute winter	3.959	1.579	100 year +40% CC 600 minute summer	35.604	9.738
30 year 15 minute summer	268.706	76.035	100 year +40% CC 600 minute winter	24.327	9.738
30 year 15 minute winter	188.566	76.035	100 year +40% CC 720 minute summer	31.433	8.424
30 year 30 minute summer	174.929	49.499	100 year +40% CC 720 minute winter	21.125	8.424
30 year 30 minute winter	122.757	49.499	100 year +40% CC 960 minute summer	25.432	6.697
30 year 60 minute summer	116.589	30.811	100 year +40% CC 960 minute winter	16.847	6.697
30 year 60 minute winter	77.459	30.811	100 year +40% CC 1440 minute summer	18.055	4.839
30 year 120 minute summer	70.438	18.615	100 year +40% CC 1440 minute winter	12.134	4.839

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP1	10	161.434	0.034	4.2	0.0387	0.0000	OK
15 minute winter	SP2	10	160.131	0.031	4.2	0.0348	0.0000	OK
15 minute winter	S3	10	158.814	0.064	16.1	0.0720	0.0000	OK
15 minute winter	S4	10	157.495	0.045	15.9	0.0505	0.0000	OK
15 minute winter	S5	10	154.875	0.075	42.5	0.1321	0.0000	OK
15 minute winter	S6	10	153.029	0.079	42.2	0.1394	0.0000	OK
15 minute winter	S7	10	152.224	0.074	41.9	0.1313	0.0000	OK
15 minute winter	S8	10	149.899	0.099	61.9	0.1755	0.0000	OK
15 minute winter	S9	11	148.345	0.245	79.0	0.4336	0.0000	OK
120 minute winter	POND	94	148.194	0.294	26.5	40.5424	0.0000	OK
120 minute winter	S10	94	148.194	0.344	7.9	1.9710	0.0000	OK
120 minute winter	S11	94	147.861	0.061	7.2	0.1084	0.0000	OK
120 minute winter	OUTFALL	94	147.809	0.059	7.2	0.0000	0.0000	OK
15 minute winter	S12	10	149.340	0.040	10.0	0.0704	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 winter	SP1	1.000	SP2	4.2	1.485	0.107	0.0772	
15 minute winter	SP2	1.001	S3	4.1	0.875	0.092	0.1055	
15 minute winter	S3	1.002	S4	15.9	2.298	0.347	0.1215	
15 minute winter	S4	1.003	S5	15.8	1.603	0.048	0.3144	
15 minute winter	S5	1.004	S6	42.2	2.964	0.131	0.3163	
15 minute winter	S6	1.005	S7	41.9	2.958	0.129	0.1332	
15 minute winter	S7	1.006	S8	41.6	2.466	0.136	0.5327	
15 minute winter	S8	1.007	S9	61.2	2.225	0.240	0.9573	
15 minute winter	S9	1.008	POND	79.1	1.143	0.740	1.1982	
120 minute winter	POND	1.009	S10	7.9	0.387	0.059	1.1200	
120 minute winter	S10	Hydro-Brake®	S11	7.2				
120 minute winter	S11	1.011	OUTFALL	7.2	0.632	0.054	0.1298	75.9
15 minute winter	S12	2.000	S9	9.9	1.838	0.036	0.0693	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP1	10	161.439	0.039	5.5	0.0443	0.0000	OK
15 minute winter	SP2	10	160.135	0.035	5.4	0.0397	0.0000	OK
15 minute winter	S3	10	158.824	0.074	20.8	0.0839	0.0000	OK
15 minute winter	S4	10	157.501	0.051	20.6	0.0573	0.0000	OK
15 minute winter	S5	10	154.885	0.085	54.8	0.1509	0.0000	OK
15 minute winter	S6	10	153.041	0.091	54.4	0.1610	0.0000	OK
15 minute winter	S7	10	152.235	0.085	54.1	0.1494	0.0000	OK
15 minute winter	S8	10	149.914	0.114	79.9	0.2011	0.0000	OK
15 minute winter	S9	11	148.390	0.290	102.2	0.5122	0.0000	OK
120 minute winter	POND	98	148.276	0.375	33.1	54.3331	0.0000	SURCHARGED
120 minute winter	S10	98	148.275	0.425	8.2	2.4349	0.0000	SURCHARGED
60 minute winter	S11	64	147.862	0.062	7.2	0.1088	0.0000	OK
60 minute winter	OUTFALL	48	147.809	0.059	7.2	0.0000	0.0000	OK
15 minute winter	S12	10	149.345	0.045	12.9	0.0800	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 winter	SP1	1.000	SP2	5.4	1.603	0.140	0.0934	
15 minute winter	SP2	1.001	S3	5.3	0.926	0.120	0.1282	
15 minute winter	S3	1.002	S4	20.6	2.448	0.449	0.1475	
15 minute winter	S4	1.003	S5	20.4	1.722	0.063	0.3783	
15 minute winter	S5	1.004	S6	54.4	3.151	0.169	0.3842	
15 minute winter	S6	1.005	S7	54.1	3.152	0.166	0.1615	
15 minute winter	S7	1.006	S8	53.7	2.648	0.176	0.6406	
15 minute winter	S8	1.007	S9	79.2	2.235	0.310	1.2187	
15 minute winter	S9	1.008	POND	102.0	1.238	0.955	1.4219	
120 minute winter	POND	1.009	S10	8.2	0.413	0.062	1.2424	
120 minute winter	S10	Hydro-Brake®	S11	7.2				
60 minute winter	S11	1.011	OUTFALL	7.2	0.633	0.055	0.1303	77.1
15 minute winter	S12	2.000	S9	12.8	1.977	0.046	0.0832	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP1	10	161.455	0.055	10.4	0.0621	0.0000	OK
15 minute winter	SP2	10	160.149	0.049	10.3	0.0553	0.0000	OK
15 minute winter	S3	10	158.867	0.117	39.6	0.1325	0.0000	OK
15 minute winter	S4	10	157.520	0.069	39.0	0.0786	0.0000	OK
15 minute winter	S5	10	154.921	0.121	104.2	0.2144	0.0000	OK
15 minute winter	S6	10	153.084	0.134	103.6	0.2371	0.0000	OK
15 minute winter	S7	10	152.269	0.119	103.0	0.2098	0.0000	OK
15 minute winter	S8	10	149.965	0.165	152.3	0.2908	0.0000	OK
120 minute winter	S9	120	148.635	0.535	62.3	0.9446	0.0000	SURCHARGED
120 minute winter	POND	120	148.635	0.735	61.0	129.0596	0.0000	SURCHARGED
120 minute winter	S10	120	148.634	0.784	9.0	4.4917	0.0000	SURCHARGED
15 minute winter	S11	12	147.862	0.062	7.2	0.1088	0.0000	OK
15 minute winter	OUTFALL	12	147.809	0.059	7.2	0.0000	0.0000	OK
15 minute winter	S12	9	149.361	0.061	24.6	0.1076	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 winter	SP1	1.000	SP2	10.3	1.910	0.265	0.1487	
15 minute winter	SP2	1.001	S3	10.2	1.028	0.229	0.2142	
15 minute winter	S3	1.002	S4	39.0	2.775	0.853	0.2469	
15 minute winter	S4	1.003	S5	38.9	2.039	0.119	0.6067	
15 minute winter	S5	1.004	S6	103.6	3.624	0.322	0.6359	
15 minute winter	S6	1.005	S7	103.0	3.654	0.316	0.2654	
15 minute winter	S7	1.006	S8	102.5	3.133	0.336	1.0292	
15 minute winter	S8	1.007	S9	151.2	2.434	0.592	1.7096	
120 minute winter	S9	1.008	POND	61.0	1.014	0.571	1.9116	
120 minute winter	POND	1.009	S10	9.0	0.467	0.068	1.2428	
120 minute winter	S10	Hydro-Brake®	S11	7.2				
15 minute winter	S11	1.011	OUTFALL	7.2	0.633	0.055	0.1303	89.6
15 minute winter	S12	2.000	S9	24.5	2.262	0.088	0.2275	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP1	9	161.474	0.074	18.9	0.0841	0.0000	OK
15 minute winter	SP2	12	160.337	0.237	19.0	0.2681	0.0000	SURCHARGED
15 minute winter	S3	11	160.158	1.408	69.9	1.5922	0.0000	SURCHARGED
15 minute winter	S4	11	157.537	0.087	60.9	0.0985	0.0000	OK
15 minute winter	S5	10	154.967	0.167	175.9	0.2946	0.0000	OK
15 minute winter	S6	10	153.140	0.190	174.5	0.3357	0.0000	OK
15 minute winter	S7	11	152.340	0.190	173.9	0.3364	0.0000	OK
15 minute winter	S8	11	151.061	1.261	260.5	2.2273	0.0000	SURCHARGED
240 minute winter	S9	236	149.178	1.078	67.7	1.9040	0.0000	SURCHARGED
240 minute winter	POND	236	149.177	1.277	66.3	284.2009	0.0000	SURCHARGED
240 minute winter	S10	236	149.177	1.327	8.3	7.5990	0.0000	SURCHARGED
15 minute summer	S11	10	147.862	0.062	7.2	0.1088	0.0000	OK
15 minute winter	OUTFALL	10	147.809	0.059	7.2	0.0000	0.0000	OK
15 minute winter	S12	10	149.381	0.080	44.6	0.1422	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 winter	SP1	1.000	SP2	19.0	2.188	0.488	0.3565	
15 minute winter	SP2	1.001	S3	21.3	1.254	0.478	0.3823	
15 minute winter	S3	1.002	S4	60.9	3.459	1.330	0.3059	
15 minute winter	S4	1.003	S5	60.8	2.531	0.186	0.8839	
15 minute winter	S5	1.004	S6	174.5	4.035	0.542	0.9700	
15 minute winter	S6	1.005	S7	173.9	3.969	0.534	0.4376	
15 minute winter	S7	1.006	S8	173.0	3.066	0.566	1.8475	
15 minute winter	S8	1.007	S9	250.3	3.555	0.981	2.1893	
240 minute winter	S9	1.008	POND	66.3	0.840	0.621	1.9116	
240 minute winter	POND	1.009	S10	8.3	0.450	0.063	1.2428	
240 minute winter	S10	Hydro-Brake®	S11	7.2				
15 minute summer	S11	1.011	OUTFALL	7.2	0.633	0.055	0.1303	102.8
15 minute winter	S12	2.000	S9	44.5	2.150	0.160	0.5498	