

Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	40	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S08	0.020	5.00	106.400	600	523648.859	232031.347	1.121
Carpark 1 S07	0.020	5.00	106.350		523657.129	232050.946	1.000
Carpark 3 S10		5.00	106.430		523620.248	232034.118	0.400
S09			106.460	1200	523648.654	232027.696	1.547
EX.AWSW 6051			106.000	1200	523646.527	232021.903	1.124
Carpark 2 S14		5.00	106.780		523666.897	232014.602	0.500
S01	0.010	5.00	106.850	1200	523691.649	232023.221	0.200
S02			106.780	1200	523681.356	232015.524	0.390
S03	0.018	5.00	106.400	1200	523656.779	232026.066	0.619
S15			106.780	1200	523660.031	232017.443	0.580
S11			106.430	1200	523624.271	232032.891	0.401
S12			106.460	1200	523641.104	232026.925	0.586
S13			106.460	1200	523646.074	232029.915	0.631
S06			106.400	1200	523669.481	232045.807	0.500
S05			106.500	1200	523671.383	232038.333	0.490
S04	0.010	5.00	106.700	1200	523676.575	232033.835	0.600

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)
1.003	Carpark 1 S07	S08	21.272	0.600	105.350	105.279	0.071	300.0	150	6.03	50.0
1.004	S08	S09	3.657	0.600	105.279	104.988	0.291	12.6	150	6.05	50.0
1.005	S09	EX.AWSW 6051	6.171	0.600	104.913	104.876	0.037	166.8	225	6.15	50.0
2.000	S01	S02	12.853	0.600	106.650	106.390	0.260	49.4	100	5.20	50.0
2.001	S02	S03	26.743	0.600	106.390	105.831	0.559	47.8	100	5.59	50.0
2.002	S03	S09	8.287	0.600	105.781	105.488	0.293	28.3	150	5.67	50.0
3.000	Carpark 2 S14	S15	7.431	0.600	106.280	106.200	0.080	92.9	100	5.16	50.0
3.001	S15	S03	9.216	0.600	106.200	105.940	0.260	35.4	100	5.27	50.0
4.000	Carpark 3 S10	S11	4.206	0.600	106.030	106.029	0.001	4206.0	150	5.48	50.0
4.001	S11	S12	17.859	0.600	106.029	105.874	0.155	115.0	150	5.80	50.0
4.002	S12	S13	5.800	0.600	105.874	105.829	0.045	128.9	150	5.91	50.0
4.003	S13	S09	3.403	0.600	105.829	105.488	0.341	10.0	150	5.92	50.0
1.002	S06	Carpark 1 S07	13.378	0.600	105.900	105.350	0.550	24.3	100	5.41	50.0

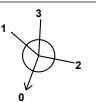
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.003	0.575	10.2	7.6	0.850	0.971	0.030	0.0	97	0.630
1.004	2.857	50.5	12.6	0.971	1.322	0.050	0.0	51	2.388
1.005	1.009	40.1	19.7	1.322	0.899	0.078	0.0	111	1.004
2.000	1.098	8.6	2.5	0.100	0.290	0.010	0.0	37	0.954
2.001	1.117	8.8	2.5	0.290	0.469	0.010	0.0	37	0.970
2.002	1.900	33.6	7.1	0.469	0.822	0.028	0.0	47	1.509
3.000	0.798	6.3	0.0	0.400	0.480	0.000	0.0	0	0.000
3.001	1.300	10.2	0.0	0.480	0.360	0.000	0.0	0	0.000
4.000	0.146	2.6	0.0	0.250	0.251	0.000	0.0	0	0.000
4.001	0.936	16.5	0.0	0.251	0.436	0.000	0.0	0	0.000
4.002	0.883	15.6	0.0	0.436	0.481	0.000	0.0	0	0.000
4.003	3.208	56.7	0.0	0.481	0.822	0.000	0.0	0	0.000
1.002	1.571	12.3	2.5	0.400	0.900	0.010	0.0	31	1.239

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	S04	S05	6.869	0.600	106.100	106.010	0.090	76.3	100	5.13	50.0
1.001	S05	S06	7.712	0.600	106.010	105.900	0.110	70.1	100	5.27	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	0.882	6.9	2.5	0.500	0.390	0.010	0.0	42	0.813
1.001	0.920	7.2	2.5	0.390	0.400	0.010	0.0	41	0.841

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S08	523648.859	232031.347	106.400	1.121	600		1 1.003	105.279	150
							0 1.004	105.279	150
Carpark 1 S07	523657.129	232050.946	106.350	1.000			1 1.002	105.350	100
							0 1.003	105.350	150
Carpark 3 S10	523620.248	232034.118	106.430	0.400			0 4.000	106.030	150
S09	523648.654	232027.696	106.460	1.547	1200		1 4.003	105.488	150
							2 2.002	105.488	150
							3 1.004	104.988	150
							0 1.005	104.913	225
EX.AWSW 6051	523646.527	232021.903	106.000	1.124	1200		1 1.005	104.876	225
Carpark 2 S14	523666.897	232014.602	106.780	0.500			0 3.000	106.280	100
S01	523691.649	232023.221	106.850	0.200	1200		0 2.000	106.650	100
S02	523681.356	232015.524	106.780	0.390	1200		1 2.000	106.390	100
							0 2.001	106.390	100
S03	523656.779	232026.066	106.400	0.619	1200		1 3.001	105.940	100
							2 2.001	105.831	100
							0 2.002	105.781	150
S15	523660.031	232017.443	106.780	0.580	1200		1 3.000	106.200	100
							0 3.001	106.200	100
S11	523624.271	232032.891	106.430	0.401	1200		1 4.000	106.029	150
							0 4.001	106.029	150
S12	523641.104	232026.925	106.460	0.586	1200		1 4.001	105.874	150
							0 4.002	105.874	150
S13	523646.074	232029.915	106.460	0.631	1200		1 4.002	105.829	150
							0 4.003	105.829	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S06	523669.481	232045.807	106.400	0.500	1200	 1	1.001	105.900	100
						0	1.002	105.900	100
S05	523671.383	232038.333	106.500	0.490	1200	 1	1.000	106.010	100
						0	1.001	106.010	100
S04	523676.575	232033.835	106.700	0.600	1200	 1			
						0	1.000	106.100	100

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	1140	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	0	0	0
30	0	0	0	100	40	0	0
30	40	0	0				

Node S09 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Downstream Link	1.005	Sump Available	✓
Replaces Downstream Link	✓	Product Number	CTL-SHE-0042-1000-1580-1000
Invert Level (m)	104.913	Min Outlet Diameter (m)	0.075
Design Depth (m)	1.580	Min Node Diameter (mm)	1200
Design Flow (l/s)	1.0		

Node Carpark 1 S07 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	105.350	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	640	Depth (m)	1.000
Safety Factor	2.0	Width (m)	16.000	Inf Depth (m)	
Porosity	0.35	Length (m)	10.000		

Node Carpark 3 S10 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	106.030	Slope (1:X)	200.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	136	Depth (m)	0.400
Safety Factor	2.0	Width (m)	13.100	Inf Depth (m)	
Porosity	0.30	Length (m)	10.000		

Node Carpark 2 S14 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	106.280	Slope (1:X)	200.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.400
Safety Factor	2.0	Width (m)	17.577	Inf Depth (m)	
Porosity	1.00	Length (m)	10.000		

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S08	192	105.511	0.232	1.2	0.0656	0.0000	SURCHARGED
240 minute winter	Carpark 1 S07	192	105.511	0.161	2.4	8.7318	0.0000	SURCHARGED
15 minute summer	Carpark 3 S10	1	106.030	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S09	192	105.511	0.598	1.1	0.6761	0.0000	SURCHARGED
15 minute summer	EX.AWSW 6051	1	104.876	0.000	0.6	0.0000	0.0000	OK
15 minute summer	Carpark 2 S14	1	106.280	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S01	10	106.682	0.032	1.8	0.0360	0.0000	OK
15 minute summer	S02	11	106.421	0.031	1.8	0.0347	0.0000	OK
15 minute summer	S03	10	105.821	0.040	4.8	0.0454	0.0000	OK
15 minute summer	S15	1	106.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S11	1	106.029	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S12	1	105.874	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S13	1	105.829	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S06	11	105.926	0.026	1.8	0.0290	0.0000	OK
15 minute summer	S05	11	106.046	0.036	1.8	0.0407	0.0000	OK
15 minute summer	S04	10	106.136	0.036	1.8	0.0407	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)
240 minute winter	S08	1.004	S09	0.6	0.794	0.013	0.0644	
240 minute winter	Carpark 1 S07	1.003	S08	-1.2	0.305	-0.116	0.3745	
15 minute summer	Carpark 3 S10	4.000	S11	0.0	0.000	0.000	0.0000	
240 minute winter	S09	Hydro-Brake®	EX.AWSW 6051	0.7				17.5
15 minute summer	Carpark 2 S14	3.000	S15	0.0	0.000	0.000	0.0000	
15 minute summer	S01	2.000	S02	1.8	0.872	0.206	0.0264	
15 minute summer	S02	2.001	S03	1.7	0.867	0.199	0.0539	
15 minute summer	S03	2.002	S09	4.8	1.308	0.142	0.0304	
15 minute summer	S15	3.001	S03	0.0	0.000	0.000	0.0000	
15 minute summer	S11	4.001	S12	0.0	0.000	0.000	0.0000	
15 minute summer	S12	4.002	S13	0.0	0.000	0.000	0.0000	
15 minute summer	S13	4.003	S09	0.0	0.000	0.000	0.0000	
15 minute summer	S06	1.002	Carpark 1 S07	1.8	1.194	0.143	0.0472	
15 minute summer	S05	1.001	S06	1.8	0.858	0.243	0.0159	
15 minute summer	S04	1.000	S05	1.8	0.703	0.256	0.0173	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S08	232	105.795	0.516	3.0	0.1460	0.0000	SURCHARGED
240 minute winter	Carpark 1 S07	232	105.795	0.445	5.3	24.6371	0.0000	SURCHARGED
15 minute summer	Carpark 3 S10	1	106.030	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S09	232	105.795	0.882	2.3	0.9973	0.0000	SURCHARGED
15 minute summer	EX.AWSW 6051	1	104.876	0.000	0.7	0.0000	0.0000	OK
15 minute summer	Carpark 2 S14	1	106.280	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S01	10	106.703	0.053	4.4	0.0595	0.0000	OK
15 minute summer	S02	11	106.441	0.050	4.4	0.0571	0.0000	OK
15 minute summer	S03	10	105.843	0.062	12.2	0.0706	0.0000	OK
15 minute summer	S15	1	106.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S11	1	106.029	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S12	1	105.874	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S13	1	105.829	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S06	11	105.941	0.041	4.3	0.0463	0.0000	OK
15 minute summer	S05	10	106.071	0.061	4.4	0.0686	0.0000	OK
15 minute summer	S04	10	106.162	0.062	4.4	0.0701	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)
240 minute winter	S08	1.004	S09	-1.4	0.797	-0.028	0.0644	
240 minute winter	Carpark 1 S07	1.003	S08	-2.9	0.304	-0.288	0.3745	
15 minute summer	Carpark 3 S10	4.000	S11	0.0	0.000	0.000	0.0000	
240 minute winter	S09	Hydro-Brake®	EX.AWSW 6051	0.8				36.3
15 minute summer	Carpark 2 S14	3.000	S15	0.0	0.000	0.000	0.0000	
15 minute summer	S01	2.000	S02	4.4	1.084	0.506	0.0519	
15 minute summer	S02	2.001	S03	4.3	1.101	0.491	0.1047	
15 minute summer	S03	2.002	S09	12.1	1.493	0.362	0.1017	
15 minute summer	S15	3.001	S03	0.0	0.000	0.000	0.0000	
15 minute summer	S11	4.001	S12	0.0	0.000	0.000	0.0000	
15 minute summer	S12	4.002	S13	0.0	0.000	0.000	0.0000	
15 minute summer	S13	4.003	S09	0.0	0.000	0.000	0.0300	
15 minute summer	S06	1.002	Carpark 1 S07	4.3	1.170	0.351	0.0725	
15 minute summer	S05	1.001	S06	4.3	1.081	0.595	0.0307	
15 minute summer	S04	1.000	S05	4.4	0.865	0.629	0.0346	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S08	236	106.007	0.728	4.4	0.2060	0.0000	SURCHARGED
240 minute winter	Carpark 1 S07	236	106.007	0.657	7.7	36.5159	0.0000	SURCHARGED
15 minute summer	Carpark 3 S10	1	106.030	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S09	236	106.007	1.094	3.1	1.2371	0.0000	SURCHARGED
15 minute summer	EX.AWSW 6051	1	104.876	0.000	0.8	0.0000	0.0000	OK
15 minute summer	Carpark 2 S14	1	106.280	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S01	10	106.716	0.066	6.2	0.0746	0.0000	OK
15 minute summer	S02	10	106.452	0.062	6.1	0.0701	0.0000	OK
240 minute winter	S03	236	106.007	0.226	3.1	0.2554	0.0000	SURCHARGED
15 minute summer	S15	1	106.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S11	1	106.029	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S12	236	106.007	0.133	0.2	0.1502	0.0000	OK
240 minute winter	S13	236	106.007	0.178	0.3	0.2011	0.0000	SURCHARGED
240 minute winter	S06	236	106.007	0.107	1.1	0.1211	0.0000	SURCHARGED
15 minute summer	S05	11	106.087	0.077	6.1	0.0871	0.0000	OK
15 minute summer	S04	10	106.181	0.081	6.2	0.0919	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)
240 minute winter	S08	1.004	S09	-2.2	0.787	-0.043	0.0644	
240 minute winter	Carpark 1 S07	1.003	S08	-4.3	0.307	-0.424	0.3745	
15 minute summer	Carpark 3 S10	4.000	S11	0.0	0.000	0.000	0.0000	
240 minute winter	S09	Hydro-Brake®	EX.AWSW 6051	0.9				50.7
15 minute summer	Carpark 2 S14	3.000	S15	0.0	0.000	0.000	0.0000	
15 minute summer	S01	2.000	S02	6.1	1.164	0.712	0.0679	
15 minute summer	S02	2.001	S03	6.1	1.138	0.697	0.1716	
240 minute winter	S03	2.002	S09	3.1	1.025	0.092	0.1459	
15 minute summer	S15	3.001	S03	0.0	0.000	0.000	0.0239	
15 minute summer	S11	4.001	S12	0.0	0.000	0.000	0.0465	
240 minute winter	S12	4.002	S13	-0.2	-0.058	-0.011	0.0989	
240 minute winter	S13	4.003	S09	-0.3	-0.022	-0.005	0.0599	
240 minute winter	S06	1.002	Carpark 1 S07	1.1	0.574	0.089	0.1047	
15 minute summer	S05	1.001	S06	6.1	1.158	0.838	0.0399	
15 minute summer	S04	1.000	S05	6.1	0.920	0.882	0.0456	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S08	236	105.960	0.681	4.2	0.1927	0.0000	SURCHARGED
240 minute winter	Carpark 1 S07	236	105.960	0.610	7.2	33.8838	0.0000	SURCHARGED
15 minute summer	Carpark 3 S10	1	106.030	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S09	236	105.960	1.047	3.0	1.1840	0.0000	SURCHARGED
15 minute summer	EX.AWSW 6051	1	104.876	0.000	0.8	0.0000	0.0000	OK
15 minute summer	Carpark 2 S14	1	106.280	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S01	10	106.713	0.063	5.8	0.0712	0.0000	OK
15 minute summer	S02	10	106.449	0.059	5.7	0.0670	0.0000	OK
240 minute winter	S03	236	105.960	0.179	3.0	0.2023	0.0000	SURCHARGED
15 minute summer	S15	1	106.200	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S11	1	106.029	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S12	236	105.960	0.086	0.1	0.0971	0.0000	OK
240 minute winter	S13	236	105.960	0.131	0.2	0.1480	0.0000	OK
240 minute winter	S06	236	105.960	0.060	1.1	0.0680	0.0000	OK
15 minute summer	S05	10	106.083	0.073	5.7	0.0826	0.0000	OK
15 minute summer	S04	10	106.176	0.076	5.8	0.0864	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)
240 minute winter	S08	1.004	S09	-2.1	0.787	-0.041	0.0644	
240 minute winter	Carpark 1 S07	1.003	S08	-4.0	0.305	-0.398	0.3745	
15 minute summer	Carpark 3 S10	4.000	S11	0.0	0.000	0.000	0.0000	
240 minute winter	S09	Hydro-Brake®	EX.AWSW 6051	0.8				47.5
15 minute summer	Carpark 2 S14	3.000	S15	0.0	0.000	0.000	0.0000	
15 minute summer	S01	2.000	S02	5.7	1.149	0.666	0.0643	
15 minute summer	S02	2.001	S03	5.7	1.163	0.649	0.1625	
240 minute winter	S03	2.002	S09	3.0	1.049	0.089	0.1459	
15 minute summer	S15	3.001	S03	0.0	0.000	0.000	0.0020	
15 minute summer	S11	4.001	S12	0.0	0.000	0.000	0.0049	
240 minute winter	S12	4.002	S13	-0.1	-0.046	-0.007	0.0775	
240 minute winter	S13	4.003	S09	-0.2	-0.015	-0.004	0.0577	
240 minute winter	S06	1.002	Carpark 1 S07	1.1	0.510	0.089	0.0852	
15 minute summer	S05	1.001	S06	5.7	1.145	0.782	0.0378	
15 minute summer	S04	1.000	S05	5.7	0.911	0.825	0.0431	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S08	352	106.176	0.897	4.1	0.2539	0.0000	FLOOD RISK
360 minute winter	Carpark 1 S07	352	106.176	0.826	7.2	45.9941	0.0000	FLOOD RISK
360 minute winter	Carpark 3 S10	352	106.176	0.146	1.9	4.7663	0.0000	OK
360 minute winter	S09	352	106.176	1.263	3.0	1.4286	0.0000	FLOOD RISK
15 minute summer	EX.AWSW 6051	1	104.876	0.000	0.9	0.0000	0.0000	OK
15 minute summer	Carpark 2 S14	1	106.280	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S01	10	106.733	0.083	8.1	0.0934	0.0000	OK
15 minute summer	S02	12	106.540	0.150	8.0	0.1701	0.0000	FLOOD RISK
15 minute summer	S03	12	106.205	0.424	21.9	0.4797	0.0000	FLOOD RISK
15 minute summer	S15	13	106.203	0.003	0.1	0.0030	0.0000	OK
360 minute winter	S11	352	106.176	0.147	2.0	0.1665	0.0000	OK
360 minute winter	S12	352	106.176	0.302	2.0	0.3417	0.0000	FLOOD RISK
360 minute winter	S13	352	106.176	0.347	2.1	0.3926	0.0000	FLOOD RISK
360 minute winter	S06	352	106.176	0.276	1.1	0.3125	0.0000	FLOOD RISK
360 minute winter	S05	352	106.176	0.166	1.1	0.1881	0.0000	SURCHARGED
15 minute summer	S04	11	106.255	0.155	8.1	0.1751	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S08	1.004	S09	-2.0	0.696	-0.040	0.0644	
360 minute winter	Carpark 1 S07	1.003	S08	-4.0	0.264	-0.391	0.3745	
360 minute winter	Carpark 3 S10	4.000	S11	-1.9	-0.351	-0.728	0.0736	
360 minute winter	S09	Hydro-Brake®	EX.AWSW 6051	0.9				68.8
15 minute summer	Carpark 2 S14	3.000	S15	0.0	0.000	0.000	0.0002	
15 minute summer	S01	2.000	S02	8.0	1.215	0.927	0.0927	
15 minute summer	S02	2.001	S03	7.4	1.105	0.842	0.2092	
15 minute summer	S03	2.002	S09	19.0	1.383	0.567	0.1459	
15 minute summer	S15	3.001	S03	-0.1	-0.033	-0.014	0.0363	
360 minute winter	S11	4.001	S12	-2.0	-0.139	-0.119	0.3137	
360 minute winter	S12	4.002	S13	-2.0	-0.114	-0.129	0.1021	
360 minute winter	S13	4.003	S09	-2.1	-0.117	-0.036	0.0599	
360 minute winter	S06	1.002	Carpark 1 S07	1.1	0.538	0.089	0.1047	
360 minute winter	S05	1.001	S06	1.1	0.755	0.152	0.0603	
15 minute summer	S04	1.000	S05	7.5	0.956	1.081	0.0537	