

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP337B	0.000	180	Type E	6.155	5.600	0.455	488844.585	98011.183
RE337A	0.011	180	Type E	6.126	5.550	0.476	488845.238	98010.325
RWP335D	0.000	180	Type E	6.150	5.600	0.450	488827.981	98003.720
PS227	0.000	250	250 Inspection	6.108	5.425	0.583	488834.469	98005.536
RE334A	0.011	180	Type E	6.131	5.600	0.431	488822.155	98000.485
RWP334A	0.000	180	Type E	6.156	5.600	0.456	488819.025	98009.972
PS222	0.000	450	450 Inspection	6.174	5.450	0.624	488817.550	98010.698
PS223	0.000	450	Type E	6.195	5.300	0.795	488829.675	98016.144
RWP337A	0.000	180	Type E	6.193	5.600	0.493	488840.783	98019.676
RE337B	0.000	180	Type E	6.254	5.550	0.604	488840.168	98020.945
PS224	0.000	450	450 Inspection	6.275	5.250	0.925	488834.055	98018.201
S104	0.005	1050x750	Unknown	6.177	5.425	0.602	488828.152	98024.425
S80	0.000	1350	Type C	5.968	4.481	1.268	488829.449	98028.854
S81	0.000	1350	Type C	5.838	4.429	1.109	488839.135	98032.876
S107	0.005	1050x750	Unknown	6.044	5.300	0.594	488847.679	98024.132
S105	0.004	1050x750	Unknown	5.971	5.221	0.600	488858.804	98020.597
S106	0.002	1350	Type C	5.684	4.318	1.145	488860.519	98026.652
S108	0.005	1050x750	Unknown	5.799	5.050	0.599	488891.377	98011.425
S82	0.000	1350	Type C	5.555	4.103	1.212	488901.714	98014.568
S170	0.079	1050x750	Unknown	5.619	4.879	0.440	488908.262	98005.478
S83	0.000	1350	Type C	5.648	4.032	1.316	488907.709	98001.792
S152	0.000	1350	Type C	5.543	3.850	1.318	488913.945	98000.039
S174	0.000	1350	Type C	5.574	3.834	1.365	488912.616	97995.143
S150	0.000	1350	Type C	5.344	3.725	1.244	488903.692	97962.274
S175	0.000	1350	Type C	5.396	3.708	1.313	488902.151	97956.650
RWP338B	0.000	180	Type E	5.999	5.450	0.449	488856.014	98004.451
RE338A	0.019	180	Type E	5.986	5.350	0.486	488855.820	98003.415
DF341	0.003	700x350	Type E	5.904	5.250	0.504	488875.360	97997.476
PS336	0.000	450	450 Inspection	5.963	5.100	0.713	488873.716	97998.096
DF338	0.010	700x350	Type E	6.012	5.360	0.502	488854.780	98005.829
PS31	0.000	450	450 Inspection	6.131	5.175	0.806	488857.494	98014.907
PS32	0.006	450	450 Inspection	6.087	4.950	0.987	488878.567	98008.755
RWP342B	0.000	180	Type E	5.859	5.300	0.459	488899.791	98001.589
PS33	0.000	450	450 Inspection	5.934	4.700	1.084	488900.795	98002.193
S130	0.012	1800	Type C	5.695	4.023	1.345	488905.777	97996.977
RWP343A	0.000	180	Type E	5.850	5.300	0.450	488889.265	97998.611
RE343B	0.010	180	Type E	5.842	5.275	0.467	488888.139	97998.445
PS232	0.000	450	450 Inspection	5.869	5.150	0.619	488885.371	97987.880
RE343A	0.000	180	Type E	5.964	5.300	0.564	488899.697	97995.686
RWP344D	0.000	180	Type E	5.868	5.300	0.468	488895.615	97986.088
PS233	0.000	450	450 Inspection	5.971	5.000	0.871	488896.703	97985.072
DF344	0.007	700x350	Type E	5.841	5.250	0.491	488885.119	97985.925
RE345A	0.000	180	Type E	5.948	5.250	0.598	488893.945	97975.440
PS29	0.000	450	450 Inspection	5.937	4.850	0.937	488895.785	97982.466
S129	0.000	1800	Type C	5.711	3.940	1.436	488901.469	97980.888
RE345B	0.014	180	Type E	5.814	5.250	0.464	488882.222	97983.287
PS243	0.000	450	450 Inspection	5.803	5.100	0.603	488878.738	97970.766
DF347	0.010	700x350	Type E	5.641	4.975	0.516	488878.391	97965.277
PS240	0.000	180	Type E	5.919	5.250	0.569	488893.173	97971.700
PS27	0.003	450	450 Inspection	5.814	4.850	0.814	488890.104	97961.350
DF348	0.000	700x350	Type E	5.618	4.950	0.518	488877.194	97961.072
RE348A	0.000	180	Type E	5.768	5.075	0.593	488887.335	97951.981
RWP348B	0.000	180	Type E	5.665	5.075	0.490	488887.018	97957.342
PS25	0.000	450	450 Inspection	5.772	4.850	0.772	488888.901	97957.937

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S128	0.034	1800	Type C	5.545	3.813	1.395	488894.893	97956.335
S172	0.012	1800	Type C	5.475	3.764	0.961	488892.368	97946.904
RE348B	0.014	180	Type E	5.611	5.075	0.436	488877.278	97959.829
PS238	0.000	180	Type E	5.651	4.900	0.651	488873.636	97946.356
PS239	0.000	450	450 Inspection	5.628	4.700	0.828	488882.688	97943.907
RE349A	0.000	180	Type E	5.753	5.075	0.578	488886.029	97948.473
DF350	0.004	700x350	Type E	5.652	5.000	0.502	488878.927	97943.078
PS200	0.000	675	Type E	5.667	4.480	1.037	488884.262	97941.689
S177	0.000	1800	Type C	5.468	3.750	1.418	488883.651	97933.930
S92	0.037	1800	Type C	5.369	3.725	1.344	488888.523	97932.602
S109(D)	0.004	1050x750	Unknown	5.480	4.725	0.605	488874.685	97928.883
S93	0.000	1800	Type C	5.310	3.650	1.285	488886.366	97924.653
S86	0.000	1350	Type C	4.900	3.600	0.925	488892.132	97920.086
S176	0.000	1350	Type C	4.957	3.581	1.001	488890.716	97914.899
S87	0.040	---	Type C	4.725	3.550	0.800	488888.319	97906.120
RWP301A	0.000	180	Type E	6.205	5.700	0.405	488775.724	98029.997
RE301A	0.000	180	Type E	6.207	5.675	0.432	488775.683	98030.780
PS363	0.011	250	250 Inspection	6.123	5.570	0.453	488785.268	98035.014
RWP301C	0.000	180	Type E	6.200	5.650	0.450	488777.958	98024.839
RE302A	0.000	180	Type E	6.185	5.600	0.485	488777.470	98024.357
RWP302B	0.000	180	Type E	6.200	5.650	0.450	488780.105	98020.214
PS365	0.000	250	250 Inspection	6.187	5.540	0.547	488779.786	98019.301
DF302	0.011	1050x750	Type E	6.151	5.500	0.501	488786.683	98019.483
PS362	0.000	450	450 Inspection	6.330	5.370	0.810	488791.289	98021.590
S69	0.054	1350	Type C	6.258	4.700	1.333	488803.735	98025.590
S98	0.057	1350	Type C	6.026	4.500	1.226	488817.737	97994.691
RE333B	0.000	180	Type E	5.671	5.150	0.421	488841.796	97994.495
PS273	0.000	450	450 Inspection	5.650	4.700	0.850	488848.706	97979.256
RWP333B	0.000	180	Type E	5.699	5.150	0.449	488834.359	97991.524
RE333A	0.000	180	Type E	5.765	5.100	0.565	488829.558	97990.015
DF330	0.010	700x350	Type E	5.559	4.925	0.484	488844.510	97973.387
DF331	0.005	700x350	Type E	5.746	5.100	0.496	488833.789	97976.239
PS274	0.000	450	450 Inspection	5.714	4.480	1.084	488836.797	97973.920
S70	0.068	1350	Type C	5.738	4.180	1.183	488830.547	97966.615
RE309B	0.000	180	Type E	5.912	5.350	0.462	488807.208	97961.975
RWP312B	0.000	180	Type E	5.926	5.375	0.451	488815.258	97946.010
PS260	0.000	450	Type E	5.911	5.155	0.656	488814.902	97944.611
RE309A	0.000	180	Type E	6.049	5.350	0.599	488818.135	97966.574
RWP312A	0.000	180	Type E	6.017	5.375	0.542	488823.828	97949.710
PS261	0.000	450	Type E	6.006	4.985	0.871	488825.799	97949.438
PS206	0.004	700x350	Type E	5.588	4.950	0.488	488841.115	97961.533
S117	0.018	1350	Type C	5.647	4.080	1.192	488836.108	97954.004
RE330B	0.010	180	Type E	5.459	4.870	0.489	488850.942	97971.422
PS20	0.000	450	450 Inspection	5.443	4.675	0.668	488858.894	97954.250
RWP330A	0.000	180	Type E	5.625	4.925	0.600	488842.564	97965.168
RE330A	0.011	180	Type E	5.615	4.900	0.615	488841.076	97964.545
S115	0.004	700x350	Type E	5.596	4.900	0.546	488843.773	97951.867
PS23	0.000	450	450 Inspection	5.622	4.500	0.972	488847.905	97949.340
RWP325C	0.000	180	Type E	5.474	4.925	0.449	488857.092	97941.689
ACO325	0.000	180	Type E	5.445	4.895	0.450	488858.800	97942.129
RE325A	0.000	180	Type E	5.458	4.870	0.488	488858.154	97941.672
PS16	0.000	450	450 Inspection	5.471	4.800	0.571	488855.600	97947.083
RWP325B	0.000	180	Type E	5.626	4.925	0.601	488848.519	97937.996
RE325B	0.014	180	Type E	5.627	4.850	0.677	488847.814	97937.107
DF326	0.007	700x350	Type E	5.552	4.850	0.552	488849.875	97946.765
PS10	0.000	450	450 Inspection	5.581	4.400	1.031	488845.305	97942.741
S114	0.018	1350	Type C	5.552	3.985	1.192	488841.902	97941.144
YG313	0.019	450x450	Type E	5.792	5.150	0.492	488816.337	97940.778
YG316	0.000	450x450	Type E	5.656	5.080	0.426	488824.885	97921.096

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PS257	0.005	450	450 Inspection	5.640	4.780	0.710	488825.637	97920.659
RE313A	0.000	180	Type E	5.896	5.300	0.496	488828.175	97944.387
RE318B	0.009	180	Type E	5.650	5.025	0.525	488842.361	97913.226
PS258	0.000	450	450 Inspection	5.803	4.695	0.958	488836.709	97925.403
RWP324A	0.000	180	Type E	5.474	4.925	0.449	488858.945	97937.570
RE324A	0.000	180	Type E	5.477	4.900	0.477	488859.679	97937.628
PS5	0.000	450	450 Inspection	5.463	4.700	0.663	488861.790	97933.171
DF324	0.007	700x350	Type E	5.338	4.725	0.463	488863.021	97929.497
PS6	0.000	450	450 Inspection	5.584	4.500	0.934	488851.626	97928.647
S71	0.072	1350	Type C	5.447	3.890	1.182	488848.269	97927.014
RE319A	0.000	180	Type E	5.535	5.000	0.435	488836.718	97906.833
GY319	0.004	450x450	Type E	5.387	4.785	0.452	488839.698	97896.016
PS285	0.000	450	Type E	5.523	4.750	0.623	488841.619	97899.482
RE319B	0.006	180	Type E	5.627	4.900	0.627	488844.252	97911.493
RWP319D	0.000	180	Type E	5.563	5.000	0.463	488847.190	97904.027
PS286	0.006	450	450 Inspection	5.557	4.650	0.757	488849.019	97904.226
RE320A	0.000	180	Type E	5.386	4.775	0.511	488842.916	97897.054
GY320	0.004	450x450	Type E	5.209	4.650	0.409	488846.045	97886.120
PS288	0.000	450	Type E	5.307	4.620	0.537	488847.746	97889.632
RWP320D	0.000	180	Type E	5.339	4.800	0.439	488853.383	97894.296
PS283	0.000	450	450 Inspection	5.409	4.550	0.709	488855.322	97894.617
GY279	0.000	450x450	Type E	5.218	4.615	0.453	488856.115	97882.445
S72	0.000	1350	Type C	5.146	3.650	1.121	488866.406	97887.037
S164	0.000	---	Type C	4.725	3.600	0.750	488878.973	97887.524
S163	0.000	---	Type C	4.725	3.500	0.850	488882.512	97886.597
S161	0.000	1350	Type C	4.725	3.450	1.050	488886.385	97885.076
S162	0.000	---	Type C	3.606	3.400	-0.019	488888.992	97883.385

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	RWP337B	5.600	RE337A	5.550	Circ	100	1.078	22	0.600	0.455	0.476
1.001	RE337A	5.550	PS227	5.425	Circ	100	11.786	94	0.600	0.476	0.583
2.000	RWP335D	5.600	PS227	5.425	Circ	100	6.737	38	0.600	0.450	0.583
1.002	PS227	5.425	PS223	5.300	Circ	100	11.641	93	0.600	0.583	0.795
3.000	RE334A	5.600	PS222	5.450	Circ	100	11.204	75	0.600	0.431	0.624
4.000	RWP334A	5.600	PS222	5.450	Circ	100	1.644	11	0.600	0.456	0.624
3.001	PS222	5.450	PS223	5.300	Circ	100	13.292	89	0.600	0.624	0.795
1.003	PS223	5.300	PS224	5.250	Circ	100	4.839	97	0.600	0.795	0.925
5.000	RWP337A	5.600	RE337B	5.550	Circ	100	1.410	28	0.600	0.493	0.604
5.001	RE337B	5.550	PS224	5.250	Circ	100	6.700	22	0.600	0.604	0.925
1.004	PS224	5.250	S80	4.600	Circ	100	11.605	18	0.600	0.925	1.268
6.000	S104	5.425	S80	4.550	Circ	150	4.615	5	0.600	0.602	1.268
1.005	S80	4.481	S81	4.429	Circ	300	10.488	200	0.600	1.186	1.109
1.006	S81	4.429	S106	4.318	Circ	300	22.271	200	0.600	1.109	1.066
7.000	S107	5.300	S106	4.389	Circ	150	13.085	14	0.600	0.594	1.145
8.000	S105	5.221	S106	4.389	Circ	150	6.293	8	0.600	0.600	1.145
1.007	S106	4.318	S82	4.103	Circ	300	42.930	200	0.600	1.066	1.152
9.000	S108	5.050	S82	4.193	Circ	150	10.804	13	0.600	0.599	1.212
1.008	S82	4.103	S83	4.032	Circ	300	14.113	199	0.600	1.152	1.316
10.000	S170	4.879	S83	4.032	Circ	300	3.727	4	0.600	0.440	1.316
1.009	S83	4.032	S152	4.000	Circ	300	6.478	200	0.600	1.315	1.243
1.010	S152	3.850	S174	3.834	Circ	375	5.073	313	0.600	1.318	1.365
1.011	S174	3.834	S150	3.725	Circ	375	34.059	313	0.600	1.365	1.244
1.012	S150	3.725	S175	3.708	Circ	375	5.832	350	0.600	1.244	1.313
1.013	S175	3.708	S86	3.600	Circ	375	37.912	350	0.600	1.313	0.925
11.000	RWP338B	5.450	RE338A	5.400	Circ	100	1.054	21	0.600	0.449	0.486
11.001	RE338A	5.350	PS336	5.100	Circ	150	18.671	75	0.600	0.486	0.713
12.000	DF341	5.250	PS336	5.100	Circ	150	1.757	12	0.600	0.504	0.713
11.002	PS336	5.100	PS32	4.950	Circ	150	11.711	78	0.600	0.713	0.987

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13.000	DF338	5.360	PS31	5.175	Circ	150	9.475	51	0.600	0.502	0.806
13.001	PS31	5.175	PS32	4.950	Circ	150	21.953	98	0.600	0.806	0.987
11.003	PS32	4.950	PS33	4.700	Circ	150	23.177	93	0.600	0.987	1.084
14.000	RWP342B	5.300	PS33	4.750	Circ	100	1.172	2	0.600	0.459	1.084
11.004	PS33	4.700	S130	4.200	Circ	150	7.212	14	0.600	1.084	1.345
11.005	S130	4.023	S129	3.940	Circ	750	16.656	200	0.600	0.922	1.021
15.000	RWP343A	5.300	RE343B	5.275	Circ	100	1.138	46	0.600	0.450	0.467
15.001	RE343B	5.275	PS232	5.150	Circ	100	10.922	87	0.600	0.467	0.619
15.002	PS232	5.150	PS233	5.000	Circ	100	11.675	78	0.600	0.619	0.871
16.000	RE343A	5.300	PS233	5.000	Circ	100	11.028	37	0.600	0.564	0.871
17.000	RWP344D	5.300	PS233	5.000	Circ	100	1.488	5	0.600	0.468	0.871
15.003	PS233	5.000	PS29	4.900	Circ	100	2.763	28	0.600	0.871	0.937
18.000	DF344	5.250	PS29	4.900	Circ	100	11.213	32	0.600	0.491	0.937
19.000	RE345A	5.250	PS29	4.900	Circ	100	7.263	21	0.600	0.598	0.937
15.004	PS29	4.850	S129	4.125	Circ	150	5.899	8	0.600	0.937	1.436
11.006	S129	3.940	S128	3.813	Circ	750	25.418	200	0.600	1.021	0.983
20.000	RE345B	5.250	PS243	5.100	Circ	100	12.997	87	0.600	0.464	0.603
20.001	PS243	5.100	PS27	4.900	Circ	100	14.759	74	0.600	0.603	0.814
21.000	DF347	4.975	PS27	4.850	Circ	150	12.354	99	0.600	0.516	0.814
22.000	PS240	5.250	PS27	4.900	Circ	100	10.795	31	0.600	0.569	0.814
20.002	PS27	4.850	S128	4.000	Circ	150	6.934	8	0.600	0.814	1.395
23.000	DF348	4.950	PS25	4.850	Circ	150	12.120	121	0.600	0.518	0.772
24.000	RE348A	5.075	PS25	4.900	Circ	100	6.159	35	0.600	0.593	0.772
25.000	RWP348B	5.075	PS25	4.900	Circ	100	1.975	11	0.600	0.490	0.772
23.001	PS25	4.850	S128	4.000	Circ	150	6.202	7	0.600	0.772	1.395
11.007	S128	3.813	S172	3.764	Circ	750	9.764	200	0.600	0.983	0.961
11.008	S172	3.764	S92	3.725	Circ	750	14.809	383	0.600	0.961	0.894
26.000	RE348B	5.075	PS238	4.900	Circ	100	13.956	80	0.600	0.436	0.651
26.001	PS238	4.900	PS239	4.700	Circ	100	9.377	47	0.600	0.651	0.828
26.002	PS239	4.700	PS200	4.530	Circ	100	2.719	16	0.600	0.828	1.037
27.000	RE349A	5.075	PS200	4.530	Circ	100	7.010	13	0.600	0.578	1.037
28.000	DF350	5.000	PS200	4.480	Circ	150	5.513	11	0.600	0.502	1.037
26.003	PS200	4.480	S92	3.950	Circ	150	10.036	19	0.600	1.037	1.269
29.000	S177	3.750	S92	3.725	Circ	300	5.049	202	0.600	1.418	1.344
11.009	S92	3.725	S93	3.650	Circ	750	8.237	110	0.600	0.894	0.910
30.000	S109(D)	4.725	S93	3.875	Circ	150	12.423	15	0.600	0.605	1.285
11.010	S93	3.650	S86	3.600	Circ	375	7.356	147	0.600	1.285	0.925
1.014	S86	3.600	S176	3.581	Circ	375	5.376	283	0.600	0.925	1.001
1.015	S176	3.581	S87	3.550	Circ	375	9.100	294	0.600	1.001	0.800
1.016	S87	3.550	S163	3.500	Circ	375	20.368	407	0.600	0.800	0.850
31.000	RWP301A	5.700	RE301A	5.675	Circ	100	0.784	31	0.600	0.405	0.432
31.001	RE301A	5.675	PS363	5.570	Circ	100	10.478	100	0.600	0.432	0.453
31.002	PS363	5.570	PS362	5.420	Circ	100	14.712	98	0.600	0.453	0.810
32.000	RWP301C	5.650	RE302A	5.600	Circ	100	0.686	14	0.600	0.450	0.485
32.001	RE302A	5.600	PS365	5.540	Circ	100	5.562	93	0.600	0.485	0.547
33.000	RWP302B	5.650	PS365	5.540	Circ	100	0.967	9	0.600	0.450	0.547
32.002	PS365	5.540	PS362	5.420	Circ	100	11.728	98	0.600	0.547	0.810
34.000	DF302	5.500	PS362	5.370	Circ	150	5.065	39	0.600	0.501	0.810
31.003	PS362	5.370	S69	5.275	Circ	150	13.074	138	0.600	0.810	0.833
31.004	S69	4.700	S98	4.575	Circ	225	33.924	271	0.600	1.333	1.226
31.005	S98	4.500	S70	4.255	Circ	300	30.860	126	0.600	1.226	1.183
35.000	RE333B	5.150	PS273	4.700	Circ	100	16.732	37	0.600	0.421	0.850
35.001	PS273	4.700	PS274	4.530	Circ	100	13.050	77	0.600	0.850	1.084
36.000	RWP333B	5.150	RE333A	5.100	Circ	100	5.033	101	0.600	0.449	0.565
36.001	RE333A	5.100	PS274	4.530	Circ	100	17.647	31	0.600	0.565	1.084
37.000	DF330	4.925	PS274	4.480	Circ	150	7.731	17	0.600	0.484	1.084
38.000	DF331	5.100	PS274	4.480	Circ	150	3.798	6	0.600	0.496	1.084
35.002	PS274	4.480	S70	4.405	Circ	150	9.614	128	0.600	1.084	1.183
31.006	S70	4.180	S117	4.080	Circ	375	13.783	138	0.600	1.183	1.192
39.000	RE309B	5.350	PS260	5.155	Circ	100	18.992	97	0.600	0.462	0.656
40.000	RWP312B	5.375	PS260	5.155	Circ	100	1.444	7	0.600	0.451	0.656
39.001	PS260	5.155	PS261	5.035	Circ	100	11.918	99	0.600	0.656	0.871
41.000	RE309A	5.350	PS261	5.035	Circ	100	18.772	60	0.600	0.599	0.871
42.000	RWP312A	5.375	PS261	5.035	Circ	100	1.990	6	0.600	0.542	0.871
39.002	PS261	4.985	S117	4.905	Circ	150	11.276	141	0.600	0.871	0.592
43.000	PS206	4.950	S117	4.305	Circ	150	9.041	14	0.600	0.488	1.192
31.007	S117	4.080	S114	3.985	Circ	375	14.105	148	0.600	1.192	1.192
44.000	RE330B	4.870	PS20	4.675	Circ	100	18.924	97	0.600	0.489	0.668

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
44.001	PS20	4.675	PS23	4.550	Circ	100	12.036	96	0.600	0.668	0.972
45.000	RWP330A	4.925	RE330A	4.900	Circ	100	1.613	65	0.600	0.600	0.615
45.001	RE330A	4.900	PS23	4.550	Circ	100	16.668	48	0.600	0.615	0.972
46.000	S115	4.900	PS23	4.500	Circ	150	4.844	12	0.600	0.546	0.972
44.002	PS23	4.500	PS10	4.400	Circ	150	7.093	71	0.600	0.972	1.031
47.000	RWP325C	4.925	RE325A	4.870	Circ	100	1.062	19	0.600	0.449	0.488
48.000	ACO325	4.895	RE325A	4.870	Circ	100	0.792	32	0.600	0.450	0.488
47.001	RE325A	4.870	PS16	4.800	Circ	100	5.983	85	0.600	0.488	0.571
47.002	PS16	4.800	PS10	4.450	Circ	100	11.173	32	0.600	0.571	1.031
49.000	RWP325B	4.925	RE325B	4.850	Circ	100	1.135	15	0.600	0.601	0.677
49.001	RE325B	4.850	PS10	4.450	Circ	100	6.167	15	0.600	0.677	1.031
50.000	DF326	4.850	PS10	4.400	Circ	150	6.089	14	0.600	0.552	1.031
44.003	PS10	4.400	S114	4.210	Circ	150	3.759	20	0.600	1.031	1.192
31.008	S114	3.985	S71	3.890	Circ	375	15.499	163	0.600	1.192	1.182
51.000	YG313	5.150	PS257	4.780	Circ	150	22.165	60	0.600	0.492	0.710
52.000	YG316	5.080	PS257	4.780	Circ	150	0.871	3	0.600	0.426	0.710
51.001	PS257	4.780	PS258	4.695	Circ	150	12.045	142	0.600	0.710	0.958
53.000	RE313A	5.300	PS258	4.745	Circ	100	20.813	38	0.600	0.496	0.958
54.000	RE318B	5.025	PS258	4.745	Circ	100	13.425	48	0.600	0.525	0.958
51.002	PS258	4.695	S71	4.615	Circ	150	11.672	146	0.600	0.958	0.682
55.000	RWP324A	4.925	RE324A	4.900	Circ	100	0.736	29	0.600	0.449	0.477
55.001	RE324A	4.900	PS5	4.700	Circ	100	4.931	25	0.600	0.477	0.663
55.002	PS5	4.700	PS6	4.550	Circ	100	11.125	74	0.600	0.663	0.934
56.000	DF324	4.725	PS6	4.500	Circ	150	11.426	51	0.600	0.463	0.934
55.003	PS6	4.500	S71	4.115	Circ	150	3.733	10	0.600	0.934	1.182
31.009	S71	3.890	S72	3.650	Circ	375	43.898	183	0.600	1.182	1.121
57.000	RE319A	5.000	PS285	4.800	Circ	100	8.835	44	0.600	0.435	0.623
58.000	GY319	4.785	PS285	4.750	Circ	150	3.962	113	0.600	0.452	0.623
57.001	PS285	4.750	PS286	4.650	Circ	150	8.790	88	0.600	0.623	0.757
59.000	RE319B	4.900	PS286	4.700	Circ	100	8.691	43	0.600	0.627	0.757
60.000	RWP319D	5.000	PS286	4.700	Circ	100	1.840	6	0.600	0.463	0.757
57.002	PS286	4.650	PS283	4.550	Circ	150	11.492	115	0.600	0.757	0.709
61.000	RE320A	4.775	PS288	4.670	Circ	100	8.855	84	0.600	0.511	0.537
62.000	GY320	4.650	PS288	4.620	Circ	150	3.902	130	0.600	0.409	0.537
61.001	PS288	4.620	PS283	4.550	Circ	150	9.069	130	0.600	0.537	0.709
63.000	RWP320D	4.800	PS283	4.600	Circ	100	1.966	10	0.600	0.439	0.709
57.003	PS283	4.550	S72	4.375	Circ	150	13.427	77	0.600	0.709	0.621
64.000	GY279	4.615	S72	4.375	Circ	150	11.269	47	0.600	0.453	0.621
31.010	S72	3.650	S164	3.600	Circ	375	12.577	252	0.600	1.121	0.750
31.011	S164	3.600	S163	3.500	Circ	375	3.657	37	0.600	0.750	0.850
1.017	S163	3.500	S161	3.450	Circ	375	4.161	83	0.600	0.850	0.900
1.018	S161	3.450	S162	3.400	Circ	225	3.108	62	0.600	1.050	-0.019

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
Permeable Paving1	S104	5.467	6.177	5.697	0.00000000	2.00	488825.789	98021.813
Permeable Paving2	S107	5.455	6.044	5.564	0.00000000	2.00	488843.997	98023.870
Permeable Paving3	S105	4.417	5.971	5.491	0.00000000	2.00	488856.050	98020.364
Permeable Paving4	S108	5.447	5.799	5.319	0.00000000	2.00	488887.747	98011.131
Permeable Paving 89	S170	101.171	5.619	4.889	0.00000000	2.00	488889.860	98017.805
Permeable Paving23	DF341	3.523	5.904	5.424	0.00000000	2.00	488876.614	98005.263
Permeable Paving22	DF338	10.568	6.012	5.532	0.00000000	2.00	488853.505	98011.996
Permeable Paving21	DF344	6.910	5.841	5.361	0.00000000	2.00	488892.325	97983.998
Permeable Paving19	DF347	7.404	5.641	5.161	0.00000000	2.00	488887.012	97965.330
Permeable Paving20	PS27	3.657	5.814	5.334	0.00000000	2.00	488883.219	97960.008
Permeable Paving6	DF350	3.930	5.652	5.172	0.00000000	2.00	488876.194	97942.705
Permeable Paving5	S109(D)	3.936	5.480	5.000	0.00000000	2.00	488872.771	97930.156
Permeable Paving18	DF302	8.232	6.151	5.671	0.00000000	2.00	488787.796	98020.022
Permeable Paving8	DF330	10.217	5.559	5.079	0.00000000	2.00	488840.915	97973.455
Permeable Paving7	DF331	5.253	5.746	5.266	0.00000000	2.00	488831.107	97979.388
Permeable Paving11	PS206	3.922	5.588	5.108	0.00000000	2.00	488838.248	97963.536
Permeable Paving10	S115	3.932	5.596	5.116	0.00000000	2.00	488842.352	97954.419
Permeable Paving9	DF326	7.047	5.552	5.072	0.00000000	2.00	488849.893	97946.751
Permeable Paving12	DF324	7.067	5.338	4.858	0.00000000	2.00	488857.872	97929.121

Outfall Details

Outfall Manhole S162 : Surcharged (Constant Level)

Surcharged Constant

Water Elevation (m)	Water Depth (m)
3.900	0.500

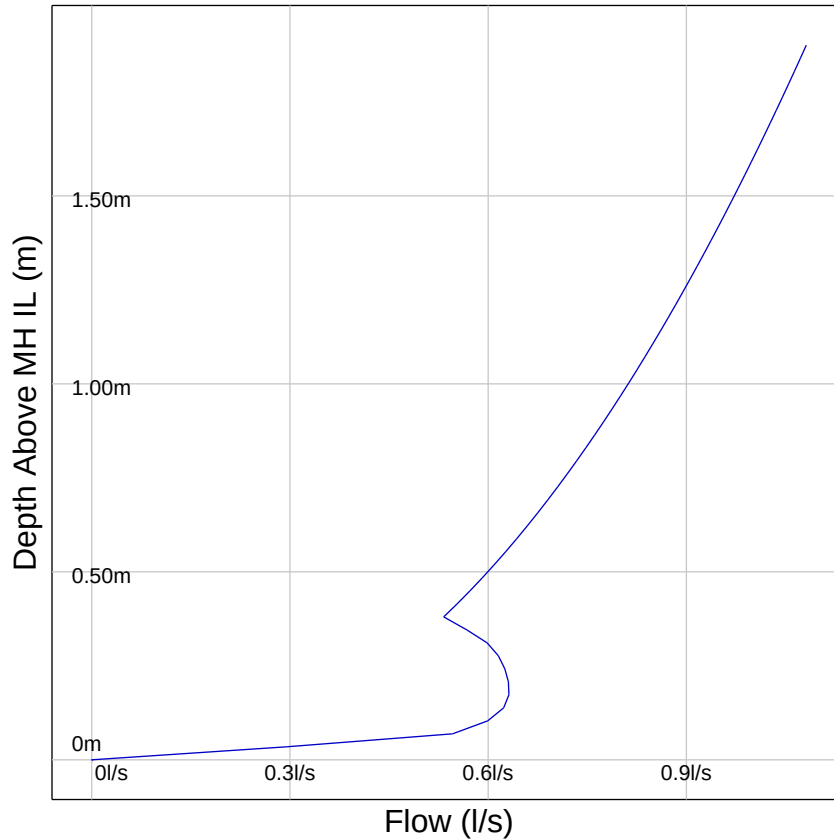
Flow Control Details

Controls within Manhole S83

Hydro-Brake® Optimum Control

Model Ref	Design Depth (m)	Design Flow (l/s)	Invert Offset (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0042-1000-1600-1000	1.600	1.000	0.000	0.185	0.632	0.372	0.528

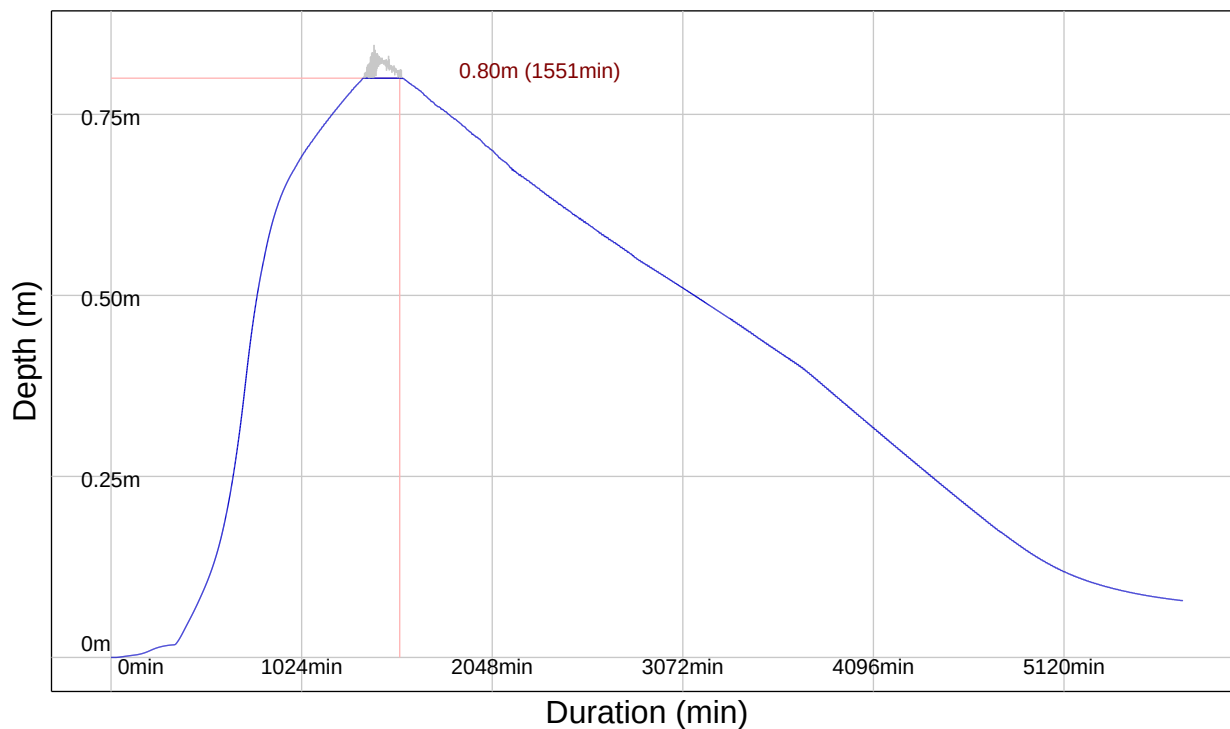
Hydro-Brake® Optimum Control from S83 to S152



Tank Structure at Manhole S152

Tank Invert (m)	Tank Height (m)	Porosity Ratio (%)	Area (m2)	Effective Area (m2) Area x Porosity Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.850	0.800	95.00	188.000	178.600	142.880	0.00000000	0.00000000	2.00

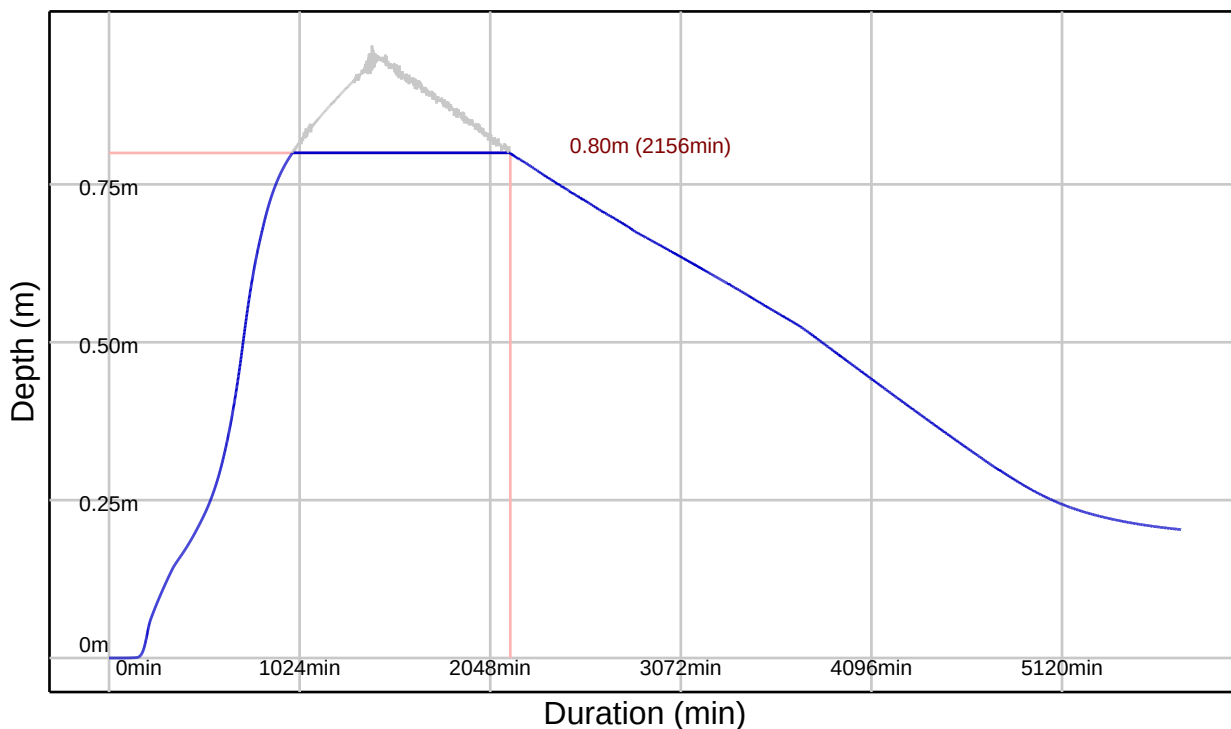
Tank 7 at S152 (100Yr+45% 1440Min Summer)



Tank Structure at Manhole S150

Tank Invert (m)	Tank Height (m)	Porosity Ratio (%)	Area (m2)	Effective Area (m2) Area x Porosity Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.725	0.800	95.00	100.000	95.000	76.000	0.00000000	0.00000000	2.00

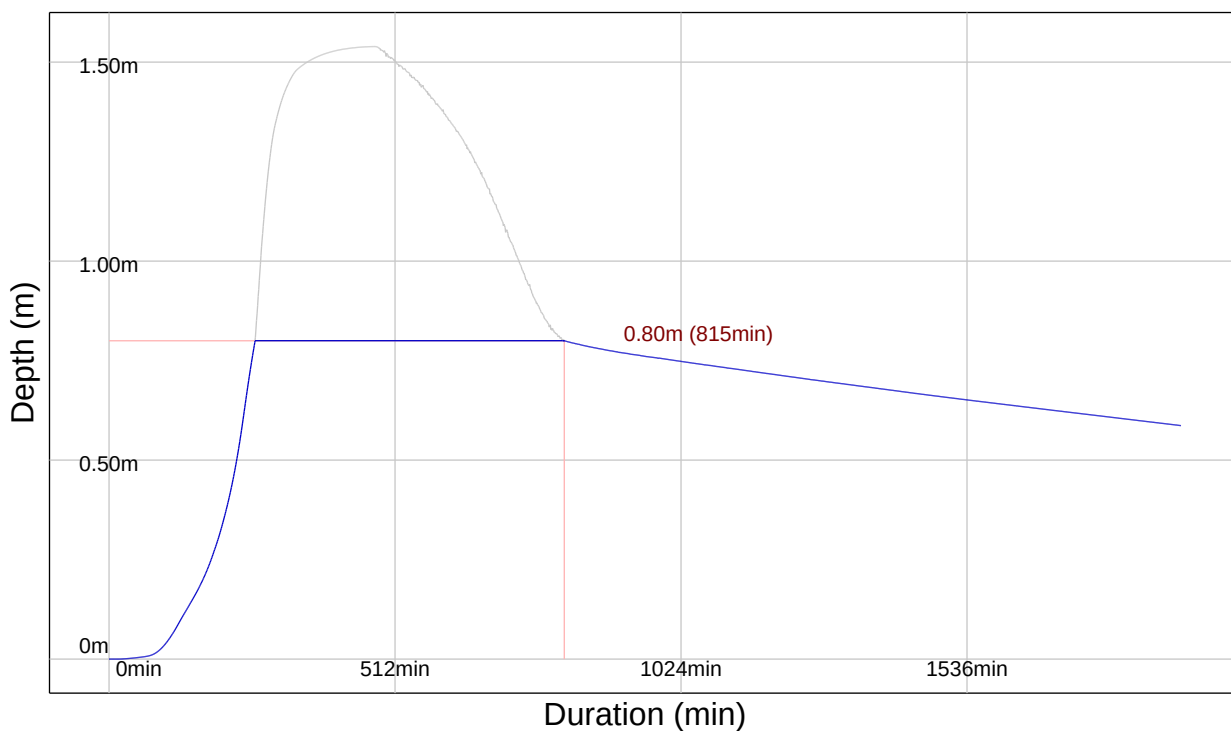
Tank 6 at S150 (100Yr+45% 1440Min Summer)



Tank Structure at Manhole S177

Tank Invert (m)	Tank Height (m)	Porosity Ratio (%)	Area (m2)	Effective Area (m2) Area x Porosity Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.700	0.800	95.00	80.237	76.226	60.980	0.00000000	0.00000000	2.00

Tank 9 at S177 (100Yr+45% 480Min Summer)

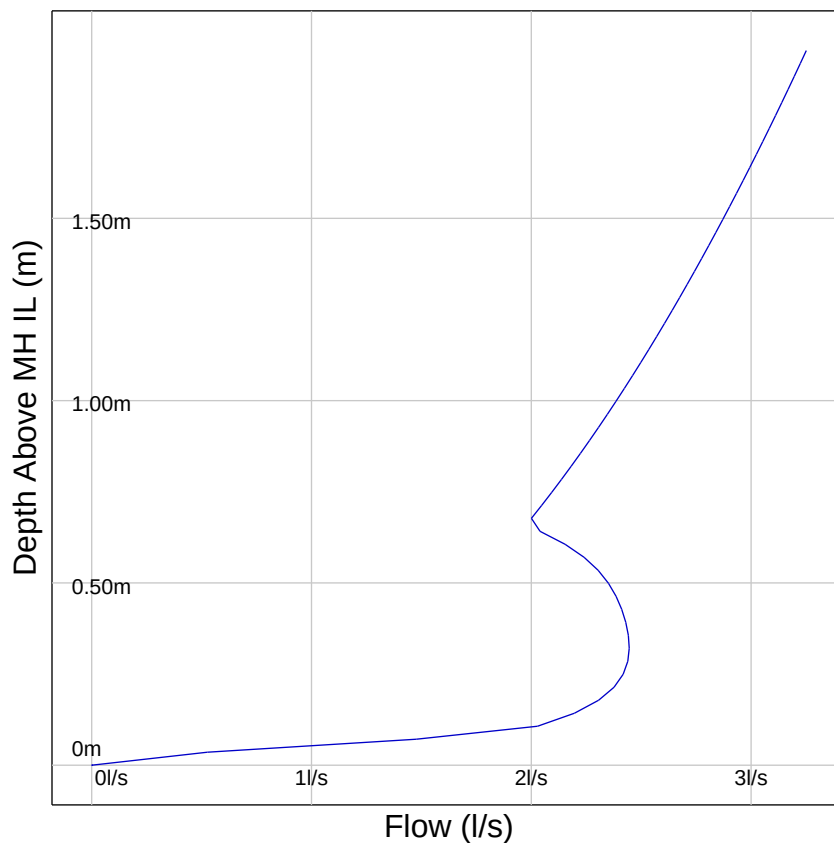


Controls within Manhole S93

Hydro-Brake® Optimum Control

Model Ref	Design Depth (m)	Design Flow (l/s)	Invert Offset (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0074-3000-1650-3000	1.650	3.000	0.000	0.323	2.446	0.657	1.974

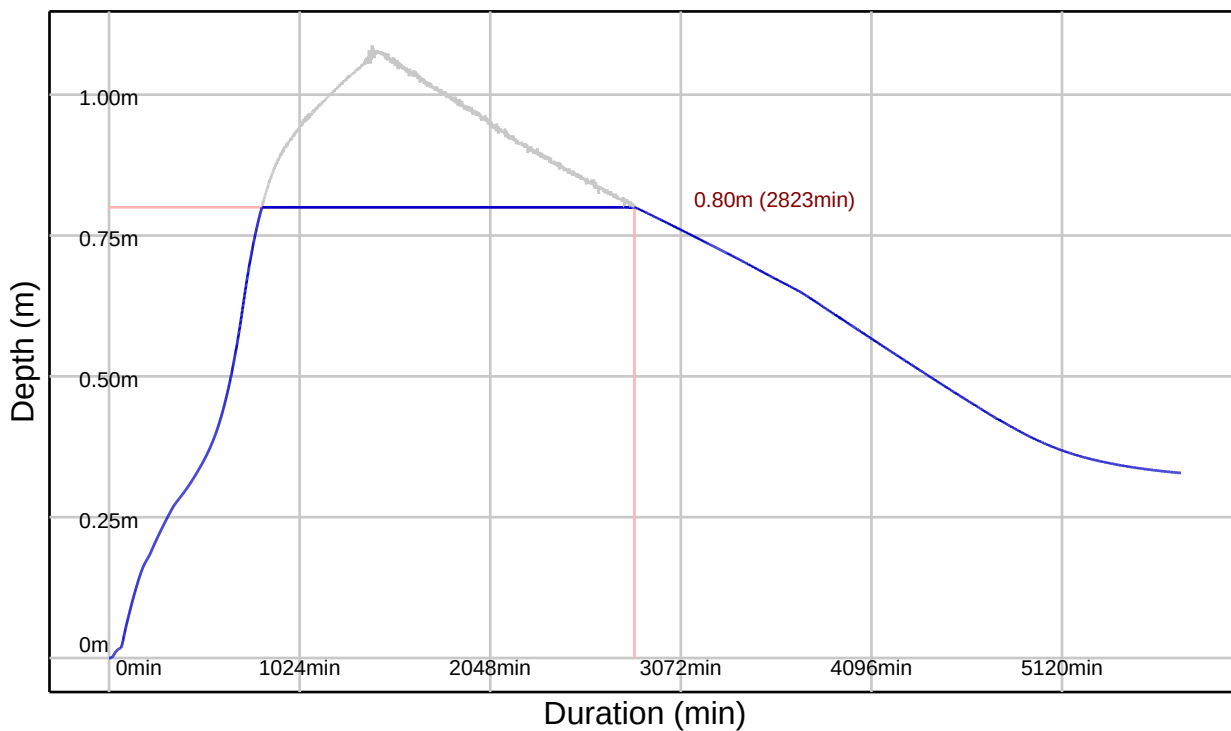
Hydro-Brake® Optimum Control from S93 to S86



Tank Structure at Manhole S86

Tank Invert (m)	Tank Height (m)	Porosity Ratio (%)	Area (m2)	Effective Area (m2) Area x Porosity Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.600	0.800	95.00	68.000	64.600	51.680	0.00000000	0.00000000	2.00

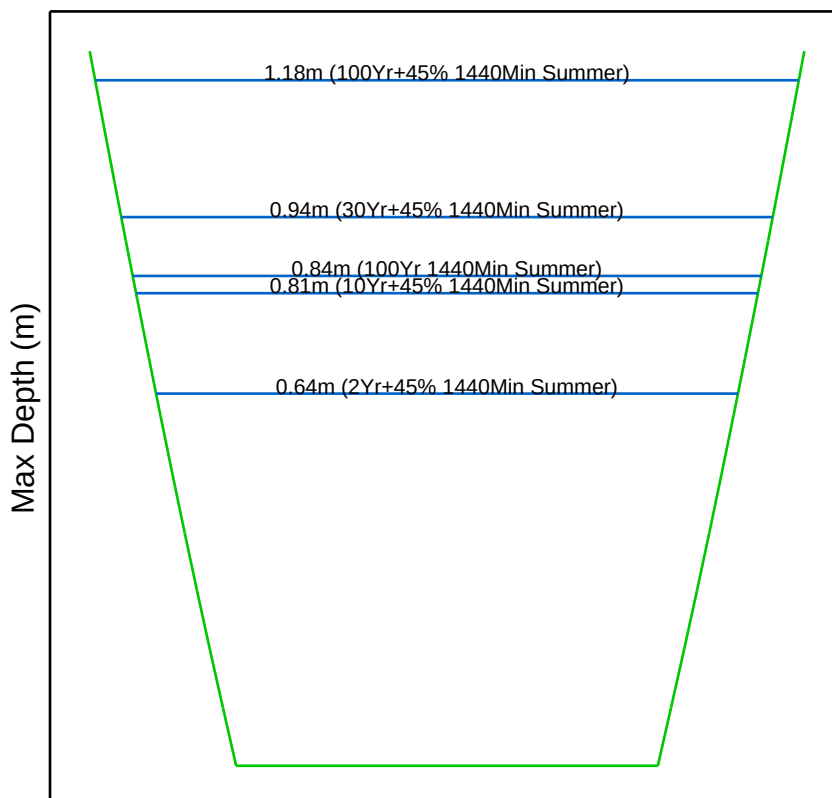
Tank 8 at S86 (100Yr+45% 1440Min Summer)



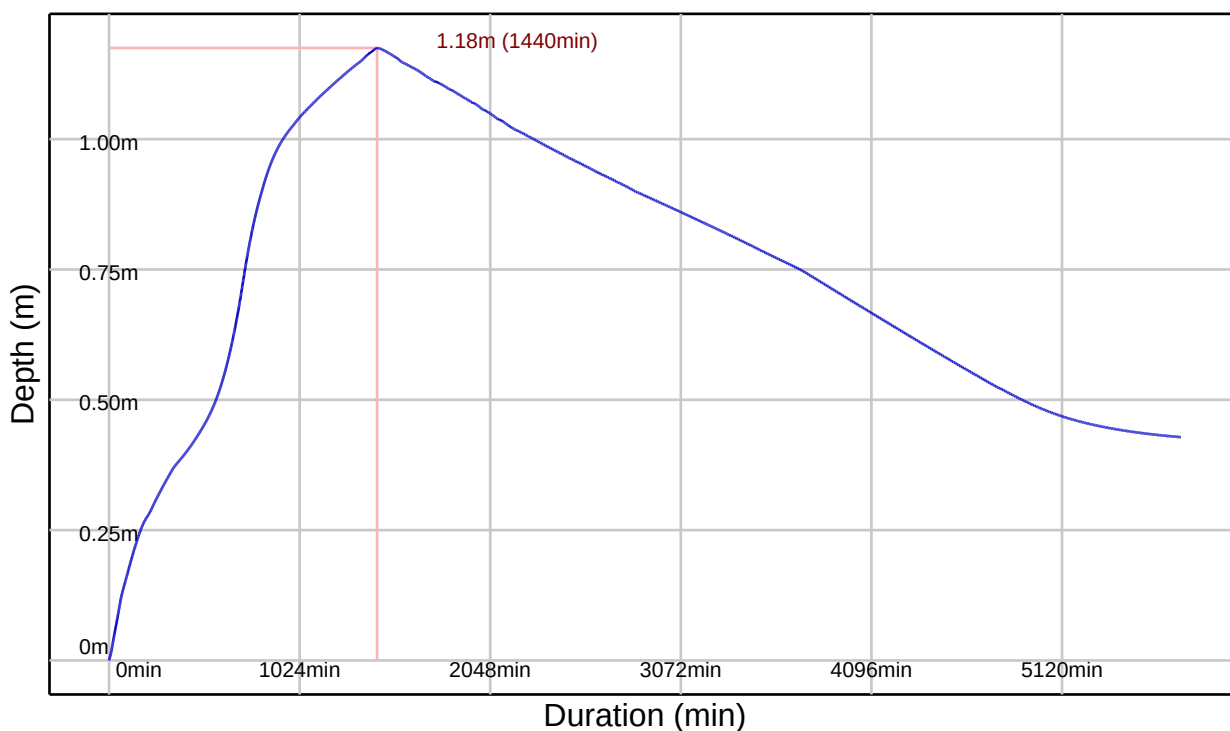
Pond Structure at Manhole S163

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.500	1.225	211.546	4.425	0.300	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S163



Pond 12 at S163 (100Yr+45% 1440Min Summer)

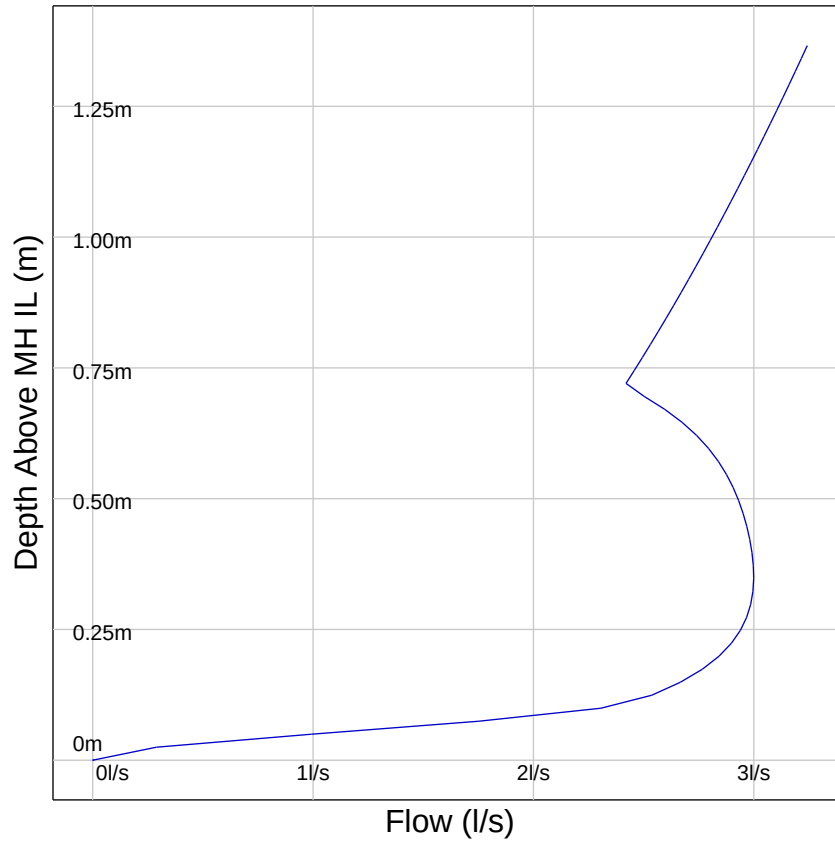


Controls within Manhole S161

Hydro-Brake® Optimum Control

Model Ref	Design Depth (m)	Design Flow (l/s)	Invert Offset (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0080-3000-1150-3000	1.150	3.000	0.000	0.351	2.999	0.715	2.412

Hydro-Brake® Optimum Control from S161 to S162



Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_488693_97897_v5_0_1.xml

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Periods (yrs) + Climate Change: (2, +45%), (10, +45%), (30, +45%), (100, +0%), (100, +45%)

Manhole Flood Risk Freeboard: 0.300m

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
2Yr+45% 15Min Winter	47.734	0.00	-0.18	30Yr+45% 360Min Summer	12.224	0.00	0.69
2Yr+45% 15Min Summer	47.734	0.00	-0.33	30Yr+45% 360Min Winter	12.224	0.00	0.64
2Yr+45% 30Min Winter	31.030	0.00	-0.23	30Yr+45% 480Min Summer	9.702	0.00	0.91
2Yr+45% 30Min Summer	31.030	0.00	-0.27	30Yr+45% 480Min Winter	9.702	0.00	0.95
2Yr+45% 60Min Summer	19.285	0.00	-0.28	30Yr+45% 600Min Summer	8.089	0.00	1.07
2Yr+45% 60Min Winter	19.285	0.00	-0.28	30Yr+45% 600Min Winter	8.089	0.00	0.96
2Yr+45% 120Min Winter	12.930	0.00	-0.45	30Yr+45% 720Min Summer	6.961	0.00	1.08
2Yr+45% 120Min Summer	12.930	0.00	-0.37	30Yr+45% 720Min Winter	6.961	0.00	1.11
2Yr+45% 180Min Summer	10.105	0.00	-0.28	30Yr+45% 960Min Summer	5.492	0.00	1.23
2Yr+45% 180Min Winter	10.105	0.00	-0.29	30Yr+45% 960Min Winter	5.492	0.00	1.23
2Yr+45% 240Min Winter	8.254	0.00	-0.14	30Yr+45% 1440Min Summer	3.953	0.00	0.87
2Yr+45% 240Min Summer	8.254	0.00	-0.31	30Yr+45% 1440Min Winter	3.953	0.00	0.96
2Yr+45% 360Min Summer	6.188	0.00	-0.08	100Yr 15Min Summer	100.880	0.00	-0.14
2Yr+45% 360Min Winter	6.188	0.00	0.03	100Yr 15Min Winter	100.880	0.00	-0.02
2Yr+45% 480Min Summer	5.020	0.00	0.05	100Yr 30Min Summer	66.884	0.00	-0.15
2Yr+45% 480Min Winter	5.020	0.00	0.07	100Yr 30Min Winter	66.884	0.00	-0.10
2Yr+45% 600Min Summer	4.237	0.00	0.07	100Yr 60Min Summer	42.434	0.00	-0.17
2Yr+45% 600Min Winter	4.237	0.00	0.07	100Yr 60Min Winter	42.434	0.00	-0.12
2Yr+45% 720Min Winter	3.677	0.00	0.07	100Yr 120Min Summer	24.790	0.00	-0.03
2Yr+45% 720Min Summer	3.677	0.00	0.06	100Yr 120Min Winter	24.790	0.00	-0.20
2Yr+45% 960Min Summer	2.945	0.00	0.05	100Yr 180Min Summer	17.968	0.00	-0.10
2Yr+45% 960Min Winter	2.945	0.00	0.05	100Yr 180Min Winter	17.968	0.00	-0.13
2Yr+45% 1440Min Summer	2.154	0.00	-0.02	100Yr 240Min Summer	14.430	0.00	-0.09
2Yr+45% 1440Min Winter	2.154	0.00	-0.01	100Yr 240Min Winter	14.430	0.00	-0.09
10Yr+45% 15Min Summer	90.144	0.00	-0.14	100Yr 360Min Summer	10.466	0.00	0.13
10Yr+45% 15Min Winter	90.144	0.00	-0.07	100Yr 360Min Winter	10.466	0.00	0.12
10Yr+45% 30Min Summer	58.702	0.00	-0.17	100Yr 480Min Summer	8.295	0.00	0.50
10Yr+45% 30Min Winter	58.702	0.00	-0.11	100Yr 480Min Winter	8.295	0.00	0.51
10Yr+45% 60Min Summer	36.665	0.00	-0.09	100Yr 600Min Summer	6.919	0.00	0.50
10Yr+45% 60Min Winter	36.665	0.00	-0.10	100Yr 600Min Winter	6.919	0.00	0.56
10Yr+45% 120Min Summer	22.521	0.00	0.01	100Yr 720Min Summer	5.959	0.00	0.40
10Yr+45% 120Min Winter	22.521	0.00	-0.20	100Yr 720Min Winter	5.959	0.00	0.37
10Yr+45% 180Min Summer	16.756	0.00	-0.14	100Yr 960Min Summer	4.708	0.00	0.25
10Yr+45% 180Min Winter	16.756	0.00	-0.25	100Yr 960Min Winter	4.708	0.00	0.23
10Yr+45% 240Min Summer	13.465	0.00	-0.14	100Yr 1440Min Summer	3.395	0.00	0.08
10Yr+45% 240Min Winter	13.465	0.00	-0.14	100Yr 1440Min Winter	3.395	0.00	0.14
10Yr+45% 360Min Summer	9.827	0.00	0.08	100Yr+45% 15Min Summer	146.276	0.00	-0.06
10Yr+45% 360Min Winter	9.827	0.00	0.08	100Yr+45% 15Min Winter	146.276	0.00	0.02
10Yr+45% 480Min Winter	7.833	0.00	0.11	100Yr+45% 30Min Summer	96.982	0.00	-0.05
10Yr+45% 480Min Summer	7.833	0.00	0.19	100Yr+45% 30Min Winter	96.982	0.00	-0.05
10Yr+45% 600Min Summer	6.549	0.00	0.35	100Yr+45% 60Min Summer	61.530	0.00	0.04
10Yr+45% 600Min Winter	6.549	0.00	0.06	100Yr+45% 60Min Winter	61.530	0.00	-0.01
10Yr+45% 720Min Summer	5.645	0.00	0.32	100Yr+45% 120Min Summer	35.946	0.00	0.45
10Yr+45% 720Min Winter	5.645	0.00	0.31	100Yr+45% 120Min Winter	35.946	0.00	0.33
10Yr+45% 960Min Summer	4.467	0.00	-0.09	100Yr+45% 180Min Summer	26.053	0.00	0.87
10Yr+45% 960Min Winter	4.467	0.00	0.19	100Yr+45% 180Min Winter	26.053	0.00	0.94
10Yr+45% 1440Min Summer	3.223	0.00	0.05	100Yr+45% 240Min Summer	20.923	0.00	1.62
10Yr+45% 1440Min Winter	3.223	0.00	0.06	100Yr+45% 240Min Winter	20.923	0.00	1.31
30Yr+45% 15Min Summer	116.894	0.00	-0.05	100Yr+45% 360Min Summer	15.176	0.00	3.08
30Yr+45% 15Min Winter	116.894	0.00	0.06	100Yr+45% 360Min Winter	15.176	0.00	2.73
30Yr+45% 30Min Summer	76.716	0.00	-0.08	100Yr+45% 480Min Summer	12.028	0.00	2.68
30Yr+45% 30Min Winter	76.716	0.00	-0.14	100Yr+45% 480Min Winter	12.028	0.00	2.53
30Yr+45% 60Min Summer	48.209	0.00	-0.10	100Yr+45% 600Min Summer	10.033	0.00	2.32
30Yr+45% 60Min Winter	48.209	0.00	-0.12	100Yr+45% 600Min Winter	10.033	0.00	2.17

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
30Yr+45% 120Min Summer	28.721	0.00	0.08	100Yr+45% 720Min Summer	8.641	0.00	1.73
30Yr+45% 120Min Winter	28.721	0.00	-0.01	100Yr+45% 720Min Winter	8.641	0.00	1.58
30Yr+45% 180Min Summer	21.032	0.00	0.05	100Yr+45% 960Min Summer	6.827	0.00	1.82
30Yr+45% 180Min Winter	21.032	0.00	0.01	100Yr+45% 960Min Winter	6.827	0.00	1.65
30Yr+45% 240Min Summer	16.846	0.00	0.01	100Yr+45% 1440Min Winter	4.922	0.00	1.80
30Yr+45% 240Min Winter	16.846	0.00	-0.10	100Yr+45% 1440Min Summer	4.922	0.00	1.89

Simulation Results

Return Period (yrs) + Climate Change (%):

2yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Summer	9	5.601	0.001	0.000		OK
RE337A	15 min Summer	8	5.601	0.051	3.176		OK
RWP335D	15 min Winter	0	5.600	0.000	0.000		OK
PS227	15 min Summer	8	5.474	0.049	3.132		OK
RE334A	15 min Summer	8	5.648	0.048	3.176		OK
RWP334A	15 min Winter	0	5.600	0.000	0.000		OK
PS222	15 min Summer	8	5.499	0.049	3.153		OK
PS223	15 min Summer	9	5.379	0.079	6.194		OK
RWP337A	15 min Winter	0	5.600	0.000	0.000		OK
RE337B	15 min Winter	0	5.550	0.000	0.000		OK
PS224	15 min Summer	9	5.296	0.046	6.239		OK
S104	30 min Summer	22	5.434	0.009	0.604		OK
S80	480 min Winter	395	4.972	0.491	0.181		Surcharged
S81	480 min Winter	395	4.972	0.543	0.181		Surcharged
S107	30 min Summer	22	5.312	0.012	0.603		OK
S105	30 min Summer	22	5.230	0.009	0.542		OK
S106	480 min Winter	395	4.972	0.654	0.259		Surcharged
S108	30 min Summer	22	5.061	0.011	0.603		OK
S82	480 min Winter	398	4.972	0.869	0.290		Surcharged
S170	480 min Winter	410	4.972	0.093	0.270		OK
S83	480 min Winter	419	4.973	0.941	0.921		Surcharged
S152	1440 min Summer	1101	4.138	0.288	0.735		OK
S174	1440 min Summer	1102	4.138	0.304	0.736		OK
S150	1440 min Summer	1102	4.138	0.413	0.736		Surcharged
S175	1440 min Summer	1102	4.138	0.430	0.736		Surcharged
RWP338B	15 min Winter	0	5.450	0.000	0.000		OK
RE338A	15 min Summer	8	5.402	0.052	5.284		OK
DF341	30 min Summer	22	5.259	0.009	0.475		OK
PS336	15 min Summer	8	5.152	0.052	5.257		OK
DF338	120 min Summer	69	5.379	0.019	0.885		OK
PS31	120 min Summer	70	5.197	0.022	0.883		OK
PS32	15 min Summer	9	5.017	0.067	6.721		OK
RWP342B	15 min Winter	0	5.300	0.000	0.000		OK
PS33	15 min Summer	9	4.738	0.038	6.814		OK
S130	1440 min Summer	925	4.189	0.166	0.326		OK
RWP343A	15 min Summer	8	5.321	0.021	0.033		OK
RE343B	15 min Summer	8	5.321	0.046	2.776		OK
PS232	15 min Summer	9	5.195	0.045	2.702		OK
RE343A	15 min Winter	0	5.300	0.000	0.000		OK
RWP344D	15 min Winter	0	5.300	0.000	0.000		OK
PS233	15 min Summer	9	5.034	0.034	2.720		OK
DF344	60 min Summer	37	5.267	0.017	0.676		OK
RE345A	15 min Winter	0	5.250	0.000	0.000		OK
PS29	15 min Summer	9	4.871	0.021	2.731		OK
S129	1440 min Summer	925	4.189	0.250	0.436		OK
RE345B	15 min Summer	8	5.307	0.057	3.993		OK
PS243	15 min Summer	8	5.154	0.054	3.963		OK
DF347	30 min Summer	25	5.002	0.027	1.144		OK
PS240	15 min Winter	0	5.250	0.000	0.000		OK
PS27	15 min Summer	9	4.875	0.025	3.925		OK
DF348	15 min Winter	0	4.950	0.000	0.000		OK
RE348A	15 min Winter	0	5.075	0.000	0.000		OK
RWP348B	15 min Winter	0	5.075	0.000	0.000		OK
PS25	15 min Winter	0	4.850	0.000	0.000		OK
S128	1440 min Summer	925	4.189	0.377	0.817		OK
S172	1440 min Summer	925	4.189	0.425	0.890		OK
RE348B	15 min Summer	8	5.131	0.056	3.993		OK
PS238	15 min Summer	8	4.949	0.049	3.963		OK
PS239	15 min Summer	8	4.735	0.035	3.939		OK
RE349A	15 min Winter	0	5.075	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
DF350	30 min Summer	22	5.010	0.010	0.508		OK
PS200	15 min Summer	9	4.510	0.031	3.897		OK
S177	1440 min Summer	926	4.189	0.489	0.012		Surcharged
S92	1440 min Summer	926	4.189	0.464	1.238		OK
S109(D)	30 min Summer	22	4.736	0.011	0.508		OK
S93	1440 min Summer	926	4.189	0.539	1.251		Surcharged
S86	1440 min Summer	1103	4.138	0.538	1.471		Surcharged
S176	1440 min Summer	1103	4.138	0.557	1.465		Surcharged
S87	1440 min Summer	1101	4.138	0.588	1.588		Surcharged
RWP301A	15 min Winter	0	5.700	0.000	0.000		OK
RE301A	15 min Winter	0	5.675	0.000	0.000		OK
PS363	15 min Summer	8	5.621	0.051	3.177		OK
RWP301C	15 min Winter	0	5.650	0.000	0.000		OK
RE302A	15 min Winter	0	5.600	0.000	0.000		OK
RWP302B	15 min Winter	0	5.650	0.000	0.000		OK
PS365	15 min Winter	0	5.540	0.000	0.000		OK
DF302	120 min Summer	66	5.518	0.018	1.002		OK
PS362	15 min Summer	9	5.422	0.052	3.834		OK
S69	15 min Summer	9	4.825	0.125	18.588		OK
S98	15 min Summer	9	4.622	0.122	34.201		OK
RE333B	15 min Winter	0	5.150	0.000	0.000		OK
PS273	15 min Winter	0	4.700	0.000	0.000		OK
RWP333B	15 min Winter	0	5.150	0.000	0.000		OK
RE333A	15 min Winter	0	5.100	0.000	0.000		OK
DF330	120 min Summer	69	4.939	0.014	0.866		OK
DF331	30 min Summer	22	5.109	0.009	0.593		OK
PS274	120 min Summer	68	4.510	0.030	1.395		OK
S70	15 min Summer	9	4.334	0.154	52.847		OK
RE309B	15 min Winter	0	5.350	0.000	0.000		OK
RWP312B	15 min Winter	0	5.375	0.000	0.000		OK
PS260	15 min Winter	0	5.155	0.000	0.000		OK
RE309A	15 min Winter	0	5.350	0.000	0.000		OK
RWP312A	15 min Winter	0	5.375	0.000	0.000		OK
PS261	15 min Winter	0	4.985	0.000	0.000		OK
PS206	30 min Summer	22	4.961	0.011	0.507		OK
S117	15 min Summer	9	4.250	0.170	57.898		OK
RE330B	15 min Summer	8	4.918	0.048	2.827		OK
PS20	15 min Summer	9	4.722	0.047	2.733		OK
RWP330A	15 min Summer	8	4.941	0.016	0.034		OK
RE330A	15 min Summer	8	4.941	0.041	3.110		OK
S115	30 min Summer	22	4.910	0.010	0.508		OK
PS23	15 min Summer	9	4.555	0.055	5.797		OK
RWP325C	15 min Winter	0	4.925	0.000	0.000		OK
ACO325	15 min Winter	0	4.895	0.000	0.000		OK
RE325A	15 min Winter	0	4.870	0.000	0.000		OK
PS16	15 min Winter	0	4.800	0.000	0.000		OK
RWP325B	15 min Winter	0	4.925	0.000	0.000		OK
RE325B	15 min Summer	8	4.885	0.035	3.993		OK
DF326	60 min Summer	37	4.862	0.012	0.683		OK
PS10	15 min Summer	9	4.451	0.051	9.663		OK
S114	15 min Summer	9	4.186	0.201	72.815		OK
YG313	15 min Summer	8	5.198	0.048	5.255		OK
YG316	15 min Winter	0	5.080	0.000	0.000		OK
PS257	15 min Summer	8	4.851	0.071	6.574		OK
RE313A	15 min Winter	0	5.300	0.000	0.000		OK
RE318B	15 min Summer	8	5.062	0.037	2.589		OK
PS258	15 min Summer	9	4.781	0.086	8.944		OK
RWP324A	15 min Winter	0	4.925	0.000	0.000		OK
RE324A	15 min Winter	0	4.900	0.000	0.000		OK
PS5	15 min Winter	0	4.700	0.000	0.000		OK
DF324	60 min Summer	37	4.743	0.018	0.684		OK
PS6	60 min Summer	38	4.511	0.011	0.681		OK
S71	1440 min Summer	1094	4.138	0.248	1.240		OK
RE319A	15 min Winter	0	5.000	0.000	0.000		OK
GY319	15 min Summer	8	4.811	0.026	1.068		OK
PS285	15 min Summer	8	4.773	0.023	1.057		OK
RE319B	15 min Summer	8	4.930	0.030	1.756		OK
RWP319D	15 min Winter	0	5.000	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS286	15 min Summer	8	4.704	0.054	4.545		OK
RE320A	15 min Winter	0	4.775	0.000	0.000		OK
GY320	15 min Summer	8	4.676	0.026	1.062		OK
PS288	15 min Summer	9	4.646	0.026	1.029		OK
RWP320D	15 min Winter	0	4.800	0.000	0.000		OK
PS283	15 min Summer	9	4.604	0.054	5.491		OK
GY279	15 min Winter	0	4.615	0.000	0.000		OK
S72	1440 min Summer	1094	4.138	0.488	1.351		Surcharged
S164	1440 min Summer	1094	4.138	0.538	1.386		Surcharged
S163	1440 min Summer	1101	4.138	0.638	2.836		Surcharged
S161	1440 min Summer	1101	4.138	0.688	2.921		Surcharged
S162	15 min Winter	0	3.900	0.500	2.976		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	9	RWP337B	RE337A	0.026	0.008	0.003	0.000	OK
1.001	15 min Summer	8	RE337A	PS227	0.050	0.797	3.132	0.504	OK
2.000	15 min Summer	8	RWP335D	PS227	0.025	0.000	0.000	0.000	OK
1.002	15 min Summer	9	PS227	PS223	0.064	0.593	3.099	0.496	OK
3.000	15 min Summer	8	RE334A	PS222	0.048	0.846	3.153	0.451	OK
4.000	15 min Summer	8	RWP334A	PS222	0.024	0.000	0.000	0.000	OK
3.001	15 min Summer	9	PS222	PS223	0.063	0.601	3.123	0.487	OK
1.003	15 min Summer	9	PS223	PS224	0.062	1.212	6.239	1.018	OK
5.000	15 min Winter	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Summer	9	RE337B	PS224	0.023	0.000	0.000	0.000	OK
1.004	240 min Summer	134	PS224	S80	0.060	1.314	1.989	0.138	OK
6.000	180 min Summer	106	S104	S80	0.079	1.341	0.483	0.006	OK
1.005	180 min Winter	113	S80	S81	0.300	0.485	3.511	0.045	Surcharged
1.006	120 min Summer	81	S81	S106	0.300	0.529	3.430	0.044	Surcharged
7.000	120 min Summer	71	S107	S106	0.080	0.896	0.556	0.012	OK
8.000	120 min Summer	71	S105	S106	0.079	1.116	0.473	0.007	OK
1.007	30 min Summer	51	S106	S82	0.300	0.601	6.019	0.077	Surcharged
9.000	30 min Summer	22	S108	S82	0.081	0.511	0.604	0.012	OK
1.008	15 min Summer	21	S82	S83	0.300	0.511	5.815	0.074	Surcharged
10.000	480 min Winter	417	S170	S83	0.197	0.067	2.515	0.005	OK
1.009	1440 min Summer	1101	S83	S152	0.122	0.371	0.758	0.010	OK
1.010	1440 min Summer	1716	S152	S174	0.296	0.225	2.972	0.026	OK
1.011	1440 min Summer	1716	S174	S150	0.340	0.102	3.057	0.027	OK
1.012	1440 min Summer	1667	S150	S175	0.375	0.034	3.757	0.035	Surcharged
1.013	1440 min Summer	1667	S175	S86	0.375	0.034	3.805	0.036	Surcharged
11.000	15 min Summer	8	RWP338B	RE338A	0.001	0.000	0.000	0.000	OK
11.001	15 min Summer	8	RE338A	PS336	0.052	0.967	5.257	0.256	OK
12.000	15 min Summer	14	DF341	PS336	0.026	0.461	0.396	0.008	OK
11.002	15 min Summer	8	PS336	PS32	0.059	0.802	5.209	0.259	OK
13.000	120 min Summer	69	DF338	PS31	0.021	0.602	0.885	0.036	OK
13.001	60 min Summer	39	PS31	PS32	0.036	0.329	0.835	0.047	OK
11.003	15 min Summer	9	PS32	PS33	0.053	1.232	6.814	0.370	OK
14.000	15 min Winter	0	RWP342B	PS33	0.000	0.000	0.000	0.000	OK
11.004	15 min Summer	9	PS33	S130	0.038	1.971	6.836	0.145	OK
11.005	1440 min Summer	925	S130	S129	0.208	0.276	1.049	0.001	OK
15.000	15 min Summer	10	RWP343A	RE343B	0.033	0.060	0.105	0.012	OK
15.001	15 min Summer	9	RE343B	PS232	0.045	0.783	2.709	0.420	OK
15.002	15 min Summer	9	PS232	PS233	0.039	0.945	2.720	0.397	OK
16.000	15 min Summer	9	RE343A	PS233	0.017	0.000	0.000	0.000	OK
17.000	15 min Summer	9	RWP344D	PS233	0.017	0.000	0.000	0.000	OK
15.003	15 min Summer	9	PS233	PS29	0.033	1.228	2.731	0.236	OK
18.000	60 min Summer	37	DF344	PS29	0.017	0.774	0.675	0.063	OK
19.000	15 min Winter	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	1440 min Summer	918	PS29	S129	0.034	1.044	0.381	0.006	OK
11.006	1440 min Summer	925	S129	S128	0.313	0.188	1.153	0.001	OK
20.000	15 min Summer	8	RE345B	PS243	0.056	0.883	3.963	0.611	OK
20.001	15 min Summer	9	PS243	PS27	0.053	0.923	3.907	0.555	OK
21.000	60 min Summer	39	DF347	PS27	0.023	0.676	1.169	0.066	OK
22.000	15 min Winter	0	PS240	PS27	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
20.002	960 min Summer	555	PS27	S128	0.080	1.266	0.869	0.014	OK
23.000	15 min Winter	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Winter	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Winter	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK
23.001	720 min Winter	509	PS25	S128	0.075	0.000	0.000	0.000	OK
11.007	1440 min Summer	925	S128	S172	0.401	0.217	2.274	0.003	OK
11.008	1440 min Summer	927	S172	S92	0.445	0.198	2.342	0.004	OK
26.000	15 min Summer	8	RE348B	PS238	0.053	0.943	3.963	0.586	OK
26.001	15 min Summer	8	PS238	PS239	0.042	1.253	3.939	0.445	OK
26.002	15 min Summer	8	PS239	PS200	0.034	1.675	3.923	0.257	OK
27.000	15 min Winter	0	RE349A	PS200	0.000	0.000	0.000	0.000	OK
28.000	60 min Summer	36	DF350	PS200	0.017	0.527	0.485	0.009	OK
26.003	600 min Summer	339	PS200	S92	0.081	0.921	0.815	0.020	OK
29.000	180 min Winter	188	S177	S92	0.300	0.014	0.985	0.013	Surcharged
11.009	1440 min Summer	926	S92	S93	0.502	0.233	1.661	0.001	OK
30.000	240 min Summer	141	S109(D)	S93	0.079	0.723	0.308	0.007	OK
11.010	1440 min Winter	1992	S93	S86	0.375	0.426	4.410	0.027	Surcharged
1.014	1440 min Winter	1759	S86	S176	0.375	0.124	4.940	0.042	Surcharged
1.015	1440 min Winter	1910	S176	S87	0.375	0.048	5.288	0.046	Surcharged
1.016	1440 min Winter	1713	S87	S163	0.375	0.041	4.544	0.046	Surcharged
31.000	15 min Winter	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	8	RE301A	PS363	0.026	0.000	0.000	0.000	OK
31.002	15 min Summer	8	PS363	PS362	0.051	0.782	3.130	0.514	OK
32.000	15 min Winter	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
32.001	15 min Winter	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
33.000	15 min Winter	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
32.002	15 min Summer	9	PS365	PS362	0.001	0.000	0.000	0.000	OK
34.000	15 min Summer	8	DF302	PS362	0.034	0.447	0.756	0.026	OK
31.003	15 min Summer	9	PS362	S69	0.051	0.730	3.869	0.257	OK
31.004	15 min Summer	9	S69	S98	0.120	0.881	18.904	0.604	OK
31.005	15 min Summer	9	S98	S70	0.121	1.295	34.477	0.349	OK
35.000	15 min Winter	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
35.001	15 min Winter	0	PS273	PS274	0.000	0.000	0.000	0.000	OK
36.000	15 min Winter	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
36.001	15 min Winter	0	RE333A	PS274	0.000	0.000	0.000	0.000	OK
37.000	120 min Summer	69	DF330	PS274	0.022	0.535	0.866	0.020	OK
38.000	60 min Summer	37	DF331	PS274	0.019	0.715	0.577	0.008	OK
35.002	120 min Summer	68	PS274	S70	0.030	0.565	1.394	0.089	OK
31.006	15 min Summer	9	S70	S117	0.162	1.161	53.008	0.312	OK
39.000	15 min Winter	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
40.000	15 min Winter	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
39.001	15 min Winter	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Winter	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
42.000	15 min Winter	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
39.002	15 min Winter	0	PS261	S117	0.000	0.000	0.000	0.000	OK
43.000	30 min Summer	22	PS206	S117	0.011	0.920	0.512	0.011	OK
31.007	15 min Summer	9	S117	S114	0.185	1.069	58.125	0.355	OK
44.000	15 min Summer	8	RE330B	PS20	0.048	0.762	2.806	0.459	OK
44.001	15 min Summer	9	PS20	PS23	0.047	0.768	2.773	0.451	OK
45.000	15 min Summer	11	RWP330A	RE330A	0.028	0.077	0.078	0.010	OK
45.001	15 min Summer	9	RE330A	PS23	0.040	1.016	3.023	0.344	OK
46.000	15 min Summer	14	S115	PS23	0.028	0.437	0.417	0.008	OK
44.002	15 min Summer	9	PS23	PS10	0.053	1.044	5.822	0.276	OK
47.000	15 min Winter	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
48.000	15 min Winter	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
47.001	15 min Winter	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
47.002	15 min Summer	9	PS16	PS10	0.000	0.000	0.000	0.000	OK
49.000	15 min Summer	8	RWP325B	RE325B	0.018	0.000	0.000	0.000	OK
49.001	15 min Summer	8	RE325B	PS10	0.035	1.646	3.977	0.256	OK
50.000	30 min Summer	22	DF326	PS10	0.026	0.586	0.672	0.014	OK
44.003	15 min Summer	9	PS10	S114	0.049	1.945	9.690	0.241	OK
31.008	15 min Summer	9	S114	S71	0.217	1.102	73.039	0.468	OK
51.000	15 min Summer	8	YG313	PS257	0.059	0.802	5.223	0.227	OK
52.000	15 min Summer	8	YG316	PS257	0.035	0.000	0.000	0.000	OK
51.001	15 min Summer	8	PS257	PS258	0.078	0.701	6.495	0.437	OK
53.000	15 min Summer	9	RE313A	PS258	0.018	0.000	0.000	0.000	OK
54.000	15 min Summer	8	RE318B	PS258	0.037	0.969	2.569	0.294	OK
51.002	15 min Summer	9	PS258	S71	0.084	0.888	9.049	0.618	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
55.000	15 min Winter	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
55.001	15 min Winter	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
55.002	15 min Winter	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
56.000	60 min Summer	37	DF324	PS6	0.014	0.779	0.683	0.027	OK
55.003	1440 min Summer	1094	PS6	S71	0.013	0.769	0.155	0.003	OK
31.009	1440 min Summer	1094	S71	S72	0.312	0.339	9.451	0.064	OK
57.000	15 min Winter	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	8	GY319	PS285	0.024	0.562	1.057	0.064	OK
57.001	15 min Summer	8	PS285	PS286	0.039	0.291	1.046	0.055	OK
59.000	15 min Summer	8	RE319B	PS286	0.029	0.902	1.743	0.189	OK
60.000	15 min Summer	8	RWP319D	PS286	0.002	0.000	0.000	0.000	OK
57.002	15 min Summer	8	PS286	PS283	0.054	0.793	4.509	0.273	OK
61.000	15 min Winter	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
62.000	15 min Summer	8	GY320	PS288	0.026	0.511	1.050	0.068	OK
61.001	15 min Summer	9	PS288	PS283	0.040	0.279	1.038	0.067	OK
63.000	15 min Summer	9	RWP320D	PS283	0.002	0.000	0.000	0.000	OK
57.003	15 min Summer	9	PS283	S72	0.053	0.994	5.546	0.274	OK
64.000	15 min Winter	0	GY279	S72	0.000	0.000	0.000	0.000	OK
31.010	360 min Winter	297	S72	S164	0.375	0.642	31.428	0.250	Surcharged
31.011	180 min Summer	96	S164	S163	0.375	1.371	140.042	0.422	Surcharged
1.017	1440 min Winter	1710	S163	S161	0.375	0.062	6.806	0.031	Surcharged
1.018	1440 min Summer	1101	S161	S162	0.225	0.073	2.922	0.044	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving1	30 min Summer	22	5.716	0.020	0.474			OK
Permeable Paving2	30 min Summer	22	5.583	0.019	0.472			OK
Permeable Paving3	30 min Summer	22	5.509	0.018	0.382			OK
Permeable Paving4	30 min Summer	22	5.339	0.019	0.472			OK
Permeable Paving 89	480 min Winter	397	4.972	0.083	0.518			OK
Permeable Paving23	30 min Summer	21	5.440	0.017	0.653			OK
Permeable Paving22	120 min Summer	69	5.557	0.025	0.884			OK
Permeable Paving21	60 min Summer	37	5.382	0.021	0.684			OK
Permeable Paving19	60 min Summer	39	5.192	0.030	1.244			OK
Permeable Paving20	30 min Summer	22	5.351	0.017	0.317			OK
Permeable Paving6	30 min Summer	22	5.190	0.017	0.340			OK
Permeable Paving5	30 min Summer	22	5.018	0.017	0.341			OK
Permeable Paving18	120 min Summer	68	5.693	0.023	0.744			OK
Permeable Paving8	120 min Summer	69	5.103	0.025	0.855			OK
Permeable Paving7	30 min Summer	22	5.285	0.019	0.455			OK
Permeable Paving11	30 min Summer	22	5.125	0.017	0.339			OK
Permeable Paving10	30 min Summer	22	5.133	0.017	0.341			OK
Permeable Paving9	60 min Summer	37	5.094	0.021	0.698			OK
Permeable Paving12	60 min Summer	37	4.880	0.021	0.700			OK

Return Period (yrs) + Climate Change (%):
10yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Summer	10	5.645	0.045	0.000		OK
RE337A	15 min Summer	10	5.645	0.095	4.920		OK
RWP335D	15 min Summer	0	5.600	0.000	0.000		OK
PS227	15 min Summer	10	5.568	0.143	5.067		Surcharged
RE334A	15 min Summer	9	5.677	0.077	5.745		OK
RWP334A	15 min Summer	0	5.600	0.000	0.000		OK
PS222	15 min Summer	10	5.588	0.138	5.086		Surcharged
PS223	15 min Summer	10	5.485	0.185	10.343		Surcharged
RWP337A	15 min Summer	0	5.600	0.000	0.000		OK
RE337B	15 min Summer	0	5.550	0.000	0.000		OK
PS224	15 min Summer	10	5.313	0.063	10.345		OK
S104	30 min Summer	23	5.438	0.013	1.300		OK
S80	360 min Winter	367	5.105	0.624	0.039		Surcharged
S81	480 min Winter	493	5.105	0.676	0.027		Surcharged
S107	30 min Summer	23	5.317	0.017	1.298		OK
S105	30 min Summer	23	5.234	0.013	1.113		OK
S106	480 min Winter	493	5.105	0.787	0.078		Surcharged
S108	480 min Winter	494	5.106	0.056	0.163		OK
S82	480 min Winter	494	5.102	0.999	0.685		Surcharged
S170	480 min Winter	494	5.105	0.226	0.000		OK
S83	360 min Winter	368	5.105	1.073	0.673		Surcharged
S152	1440 min Summer	1304	4.310	0.460	0.710		Surcharged
S174	1440 min Summer	1304	4.310	0.476	0.710		Surcharged
S150	1440 min Summer	1306	4.310	0.585	0.710		Surcharged
S175	1440 min Summer	1306	4.310	0.602	0.710		Surcharged
RWP338B	15 min Summer	0	5.450	0.000	0.000		OK
RE338A	15 min Summer	8	5.424	0.074	9.980		OK
DF341	30 min Summer	22	5.263	0.013	0.943		OK
PS336	15 min Summer	8	5.176	0.076	9.936		OK
DF338	60 min Summer	41	5.389	0.029	2.046		OK
PS31	60 min Summer	41	5.209	0.034	2.046		OK
PS32	15 min Summer	9	5.047	0.097	12.699		OK
RWP342B	15 min Summer	0	5.300	0.000	0.000		OK
PS33	15 min Summer	9	4.754	0.054	12.863		OK
S130	960 min Summer	637	4.378	0.355	0.566		OK
RWP343A	15 min Summer	8	5.344	0.044	0.046		OK
RE343B	15 min Summer	8	5.344	0.069	5.243		OK
PS232	15 min Summer	9	5.216	0.066	5.101		OK
RE343A	15 min Summer	0	5.300	0.000	0.000		OK
RWP344D	15 min Summer	0	5.300	0.000	0.000		OK
PS233	15 min Summer	9	5.049	0.049	5.135		OK
DF344	30 min Summer	24	5.275	0.025	1.525		OK
RE345A	15 min Summer	0	5.250	0.000	0.000		OK
PS29	15 min Summer	9	4.879	0.029	5.179		OK
S129	960 min Summer	637	4.378	0.438	0.755		OK
RE345B	15 min Summer	9	5.375	0.125	7.221		Surcharged
PS243	15 min Summer	9	5.186	0.086	7.269		OK
DF347	30 min Summer	24	5.013	0.038	2.342		OK
PS240	15 min Summer	0	5.250	0.000	0.000		OK
PS27	15 min Summer	10	4.885	0.035	7.684		OK
DF348	15 min Summer	0	4.950	0.000	0.000		OK
RE348A	15 min Summer	0	5.075	0.000	0.000		OK
RWP348B	15 min Summer	0	5.075	0.000	0.000		OK
PS25	15 min Summer	0	4.850	0.000	0.000		OK
S128	960 min Summer	637	4.378	0.565	1.428		OK
S172	960 min Summer	637	4.378	0.614	1.557		OK
RE348B	15 min Summer	9	5.192	0.117	7.221		Surcharged
PS238	15 min Summer	8	4.972	0.072	6.997		OK
PS239	15 min Summer	8	4.750	0.050	7.181		OK
RE349A	15 min Summer	0	5.075	0.000	0.000		OK
DF350	30 min Summer	22	5.014	0.014	1.023		OK
PS200	15 min Summer	8	4.522	0.042	7.207		OK
S177	960 min Summer	637	4.378	0.678	0.000		Surcharged
S92	960 min Summer	637	4.378	0.653	2.145		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S109(D)	30 min Summer	22	4.740	0.015	1.025		OK
S93	960 min Summer	637	4.378	0.728	2.190		Surcharged
S86	1440 min Summer	1305	4.310	0.710	1.420		Surcharged
S176	1440 min Summer	1305	4.310	0.729	1.420		Surcharged
S87	1440 min Summer	1305	4.310	0.760	1.551		Surcharged
RWP301A	15 min Summer	0	5.700	0.000	0.000		OK
RE301A	15 min Summer	0	5.675	0.000	0.000		OK
PS363	15 min Summer	8	5.651	0.081	6.000		OK
RWP301C	15 min Summer	0	5.650	0.000	0.000		OK
RE302A	15 min Summer	0	5.600	0.000	0.000		OK
RWP302B	15 min Summer	0	5.650	0.000	0.000		OK
PS365	15 min Summer	0	5.540	0.000	0.000		OK
DF302	60 min Summer	37	5.526	0.026	2.031		OK
PS362	15 min Summer	9	5.444	0.074	7.335		OK
S69	15 min Summer	9	4.905	0.205	35.167		OK
S98	15 min Summer	9	4.681	0.181	64.380		OK
RE333B	15 min Summer	0	5.150	0.000	0.000		OK
PS273	15 min Summer	0	4.700	0.000	0.000		OK
RWP333B	15 min Summer	0	5.150	0.000	0.000		OK
RE333A	15 min Summer	0	5.100	0.000	0.000		OK
DF330	60 min Summer	41	4.947	0.022	1.997		OK
DF331	30 min Summer	23	5.113	0.013	1.264		OK
PS274	30 min Summer	25	4.526	0.046	3.176		OK
S70	15 min Summer	10	4.475	0.295	87.881		OK
RE309B	15 min Summer	0	5.350	0.000	0.000		OK
RWP312B	15 min Summer	0	5.375	0.000	0.000		OK
PS260	15 min Summer	0	5.155	0.000	0.000		OK
RE309A	15 min Summer	0	5.350	0.000	0.000		OK
RWP312A	15 min Summer	0	5.375	0.000	0.000		OK
PS261	15 min Summer	0	4.985	0.000	0.000		OK
PS206	30 min Summer	22	4.965	0.015	1.022		OK
S117	15 min Summer	10	4.456	0.376	98.836		Surcharged
RE330B	15 min Summer	8	4.943	0.073	5.341		OK
PS20	15 min Summer	9	4.747	0.072	5.165		OK
RWP330A	15 min Summer	8	4.960	0.035	0.031		OK
RE330A	15 min Summer	8	4.960	0.060	5.874		OK
S115	30 min Summer	22	4.914	0.014	1.024		OK
PS23	15 min Summer	9	4.581	0.081	10.981		OK
RWP325C	15 min Summer	0	4.925	0.000	0.000		OK
ACO325	15 min Summer	0	4.895	0.000	0.000		OK
RE325A	15 min Summer	0	4.870	0.000	0.000		OK
PS16	15 min Summer	0	4.800	0.000	0.000		OK
RWP325B	15 min Summer	0	4.925	0.000	0.000		OK
RE325B	15 min Summer	8	4.901	0.051	7.541		OK
DF326	30 min Summer	24	4.868	0.018	1.545		OK
PS10	15 min Summer	9	4.492	0.092	18.256		OK
S114	15 min Summer	10	4.416	0.431	124.002		Surcharged
YG313	15 min Summer	8	5.218	0.068	9.925		OK
YG316	15 min Summer	0	5.080	0.000	0.000		OK
PS257	15 min Summer	9	4.892	0.112	11.996		OK
RE313A	15 min Summer	0	5.300	0.000	0.000		OK
RE318B	15 min Summer	8	5.078	0.053	4.889		OK
PS258	15 min Summer	9	4.843	0.148	16.779		OK
RWP324A	15 min Summer	0	4.925	0.000	0.000		OK
RE324A	15 min Summer	0	4.900	0.000	0.000		OK
PS5	15 min Summer	0	4.700	0.000	0.000		OK
DF324	30 min Summer	24	4.752	0.027	1.548		OK
PS6	30 min Summer	24	4.516	0.016	1.548		OK
S71	15 min Summer	10	4.349	0.459	170.566		Surcharged
RE319A	15 min Summer	0	5.000	0.000	0.000		OK
GY319	15 min Summer	8	4.820	0.035	2.017		OK
PS285	15 min Summer	8	4.782	0.032	2.002		OK
RE319B	15 min Summer	8	4.942	0.042	3.316		OK
RWP319D	15 min Summer	0	5.000	0.000	0.000		OK
PS286	15 min Summer	8	4.728	0.078	8.600		OK
RE320A	15 min Summer	0	4.775	0.000	0.000		OK
GY320	15 min Summer	8	4.687	0.037	2.006		OK
PS288	15 min Summer	8	4.655	0.035	1.989		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP320D	15 min Summer	0	4.800	0.000	0.000		OK
PS283	15 min Summer	9	4.627	0.077	10.341		OK
GY279	15 min Summer	0	4.615	0.000	0.000		OK
S72	1440 min Summer	1302	4.310	0.660	1.435		Surcharged
S164	1440 min Summer	1303	4.310	0.710	1.437		Surcharged
S163	1440 min Summer	1304	4.310	0.810	2.986		Surcharged
S161	1440 min Summer	1304	4.310	0.860	2.986		Surcharged
S162	15 min Summer	0	3.900	0.500	2.977		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	11	RWP337B	RE337A	0.070	0.303	0.966	0.074	OK
1.001	15 min Summer	10	RE337A	PS227	0.098	0.868	5.543	0.893	OK
2.000	15 min Summer	8	RWP335D	PS227	0.050	0.000	0.000	0.000	OK
1.002	15 min Winter	9	PS227	PS223	0.100	0.637	4.952	0.793	Surcharged
3.000	15 min Summer	9	RE334A	PS222	0.089	0.932	5.894	0.843	OK
4.000	15 min Summer	8	RWP334A	PS222	0.050	0.000	0.000	0.000	OK
3.001	15 min Winter	9	PS222	PS223	0.100	0.687	5.074	0.792	Surcharged
1.003	15 min Summer	10	PS223	PS224	0.082	1.505	10.345	1.688	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Summer	10	RE337B	PS224	0.032	0.000	0.000	0.000	OK
1.004	120 min Summer	65	PS224	S80	0.069	1.711	5.221	0.362	OK
6.000	60 min Summer	39	S104	S80	0.081	1.713	1.237	0.016	OK
1.005	60 min Summer	40	S80	S81	0.300	0.748	10.803	0.138	Surcharged
1.006	30 min Summer	27	S81	S106	0.300	0.748	10.285	0.131	Surcharged
7.000	30 min Summer	23	S107	S106	0.083	0.984	1.297	0.027	OK
8.000	30 min Summer	23	S105	S106	0.081	1.259	1.114	0.017	OK
1.007	30 min Summer	24	S106	S82	0.300	0.536	11.586	0.148	Surcharged
9.000	480 min Winter	555	S108	S82	0.103	0.550	1.056	0.021	OK
1.008	180 min Summer	99	S82	S83	0.300	0.308	6.594	0.084	Surcharged
10.000	480 min Winter	497	S170	S83	0.263	0.087	4.839	0.009	OK
1.009	1440 min Summer	1305	S83	S152	0.289	0.370	0.749	0.010	OK
1.010	600 min Summer	728	S152	S174	0.375	0.272	4.095	0.036	Surcharged
1.011	600 min Summer	728	S174	S150	0.375	0.219	4.152	0.037	Surcharged
1.012	960 min Summer	1106	S150	S175	0.375	0.039	4.277	0.040	Surcharged
1.013	960 min Summer	1106	S175	S86	0.375	0.039	4.348	0.041	Surcharged
11.000	15 min Summer	8	RWP338B	RE338A	0.012	0.000	0.000	0.000	OK
11.001	15 min Summer	8	RE338A	PS336	0.075	1.119	9.935	0.483	OK
12.000	30 min Summer	22	DF341	PS336	0.039	0.502	0.942	0.018	OK
11.002	15 min Summer	8	PS336	PS32	0.087	0.930	9.842	0.490	OK
13.000	60 min Summer	41	DF338	PS31	0.031	0.770	2.046	0.082	OK
13.001	30 min Summer	26	PS31	PS32	0.053	0.480	1.998	0.111	OK
11.003	15 min Summer	9	PS32	PS33	0.076	1.439	12.863	0.698	OK
14.000	15 min Summer	9	RWP342B	PS33	0.002	0.000	0.000	0.000	OK
11.004	600 min Summer	376	PS33	S130	0.082	1.502	2.613	0.055	OK
11.005	960 min Summer	637	S130	S129	0.397	0.324	2.040	0.002	OK
15.000	15 min Summer	11	RWP343A	RE343B	0.056	0.156	0.296	0.033	OK
15.001	15 min Summer	8	RE343B	PS232	0.068	0.910	5.143	0.797	OK
15.002	15 min Summer	9	PS232	PS233	0.058	1.096	5.135	0.750	OK
16.000	15 min Summer	9	RE343A	PS233	0.024	0.000	0.000	0.000	OK
17.000	15 min Summer	9	RWP344D	PS233	0.024	0.000	0.000	0.000	OK
15.003	15 min Summer	9	PS233	PS29	0.047	1.437	5.157	0.446	OK
18.000	30 min Summer	24	DF344	PS29	0.025	0.979	1.525	0.142	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	360 min Summer	214	PS29	S129	0.081	1.630	1.663	0.026	OK
11.006	960 min Summer	637	S129	S128	0.502	0.235	1.978	0.002	OK
20.000	15 min Summer	9	RE345B	PS243	0.093	0.967	7.269	1.121	OK
20.001	15 min Summer	9	PS243	PS27	0.086	1.026	7.211	1.025	OK
21.000	30 min Summer	24	DF347	PS27	0.032	0.853	2.343	0.131	OK
22.000	15 min Summer	0	PS240	PS27	0.000	0.000	0.000	0.000	OK
20.002	120 min Summer	71	PS27	S128	0.087	2.236	5.242	0.084	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
23.001	60 min Summer	43	PS25	S128	0.075	0.000	0.000	0.000	OK
11.007	960 min Summer	637	S128	S172	0.590	0.284	4.140	0.005	OK
11.008	960 min Summer	637	S172	S92	0.634	0.249	4.170	0.007	OK
26.000	15 min Summer	10	RE348B	PS238	0.086	1.043	7.157	1.059	OK
26.001	15 min Summer	8	PS238	PS239	0.061	1.426	7.181	0.811	OK
26.002	15 min Summer	8	PS239	PS200	0.048	1.940	7.206	0.472	OK
27.000	15 min Summer	0	RE349A	PS200	0.000	0.000	0.000	0.000	OK
28.000	30 min Summer	22	DF350	PS200	0.025	0.812	1.022	0.019	OK
26.003	120 min Summer	67	PS200	S92	0.088	1.487	3.909	0.095	OK
29.000	960 min Winter	1049	S177	S92	0.300	0.049	3.454	0.044	Surcharged
11.009	960 min Summer	1007	S92	S93	0.690	0.280	9.753	0.008	OK
30.000	30 min Summer	22	S109(D)	S93	0.082	0.103	1.022	0.022	OK
11.010	600 min Winter	1996	S93	S86	0.375	0.638	14.283	0.087	Surcharged
1.014	720 min Winter	1838	S86	S176	0.375	0.266	7.750	0.066	Surcharged
1.015	960 min Summer	1342	S176	S87	0.375	0.155	6.811	0.059	Surcharged
1.016	15 min Winter	510	S87	S163	0.375	0.812	15.252	0.155	Surcharged
31.000	15 min Summer	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	8	RE301A	PS363	0.040	0.000	0.000	0.000	OK
31.002	15 min Summer	8	PS363	PS362	0.079	0.885	5.893	0.968	OK
32.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
32.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
33.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
32.002	15 min Summer	9	PS365	PS362	0.012	0.000	0.000	0.000	OK
34.000	15 min Summer	16	DF302	PS362	0.048	0.662	1.580	0.055	OK
31.003	15 min Summer	9	PS362	S69	0.073	0.863	7.373	0.489	OK
31.004	15 min Summer	9	S69	S98	0.181	1.034	35.495	1.134	OK
31.005	15 min Summer	9	S98	S70	0.196	1.495	64.225	0.650	OK
35.000	15 min Summer	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	0	PS273	PS274	0.000	0.000	0.000	0.000	OK
36.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
36.001	15 min Summer	0	RE333A	PS274	0.000	0.000	0.000	0.000	OK
37.000	60 min Summer	41	DF330	PS274	0.034	0.678	1.998	0.047	OK
38.000	30 min Summer	24	DF331	PS274	0.029	0.536	1.264	0.017	OK
35.002	30 min Summer	25	PS274	S70	0.045	0.713	3.180	0.203	OK
31.006	15 min Summer	10	S70	S117	0.335	1.241	97.763	0.575	OK
39.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
39.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
42.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
39.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
43.000	15 min Summer	15	PS206	S117	0.079	1.111	0.941	0.020	OK
31.007	15 min Summer	10	S117	S114	0.375	1.111	100.929	0.616	Surcharged
44.000	15 min Summer	8	RE330B	PS20	0.072	0.871	5.292	0.865	OK
44.001	15 min Summer	9	PS20	PS23	0.071	0.883	5.239	0.853	OK
45.000	15 min Summer	11	RWP330A	RE330A	0.048	0.128	0.257	0.034	OK
45.001	15 min Summer	8	RE330A	PS23	0.059	1.189	5.784	0.659	OK
46.000	15 min Summer	15	S115	PS23	0.042	0.685	0.942	0.018	OK
44.002	15 min Summer	9	PS23	PS10	0.086	1.150	10.973	0.520	OK
47.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
48.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
47.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
47.002	15 min Summer	9	PS16	PS10	0.021	0.000	0.000	0.000	OK
49.000	15 min Summer	8	RWP325B	RE325B	0.025	0.000	0.000	0.000	OK
49.001	15 min Summer	8	RE325B	PS10	0.050	1.933	7.514	0.484	OK
50.000	15 min Summer	17	DF326	PS10	0.049	0.893	1.379	0.028	OK
44.003	15 min Summer	9	PS10	S114	0.121	2.205	18.017	0.448	OK
31.008	15 min Summer	9	S114	S71	0.375	1.152	127.278	0.815	Surcharged
51.000	15 min Summer	9	YG313	PS257	0.089	0.915	9.875	0.430	OK
52.000	15 min Summer	9	YG316	PS257	0.056	0.000	0.000	0.000	OK
51.001	15 min Summer	9	PS257	PS258	0.130	0.785	12.163	0.819	OK
53.000	15 min Summer	9	RE313A	PS258	0.049	0.000	0.000	0.000	OK
54.000	15 min Summer	9	RE318B	PS258	0.075	1.050	4.862	0.556	OK
51.002	15 min Summer	9	PS258	S71	0.134	1.016	16.713	1.142	OK
55.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
55.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
55.002	15 min Summer	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
56.000	30 min Summer	24	DF324	PS6	0.022	0.991	1.548	0.062	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
55.003	30 min Summer	24	PS6	S71	0.080	1.524	1.547	0.027	OK
31.009	720 min Summer	677	S71	S72	0.375	0.460	24.645	0.167	Surcharged
57.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	8	GY319	PS285	0.034	0.673	2.002	0.120	OK
57.001	15 min Summer	8	PS285	PS286	0.055	0.338	1.988	0.105	OK
59.000	15 min Summer	8	RE319B	PS286	0.041	1.071	3.296	0.358	OK
60.000	15 min Summer	8	RWP319D	PS286	0.014	0.000	0.000	0.000	OK
57.002	15 min Summer	8	PS286	PS283	0.078	0.925	8.540	0.517	OK
61.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
62.000	15 min Summer	8	GY320	PS288	0.036	0.611	1.989	0.128	OK
61.001	15 min Summer	8	PS288	PS283	0.056	0.326	1.973	0.127	OK
63.000	15 min Summer	9	RWP320D	PS283	0.014	0.000	0.000	0.000	OK
57.003	15 min Summer	9	PS283	S72	0.076	1.169	10.455	0.516	OK
64.000	15 min Summer	0	GY279	S72	0.000	0.000	0.000	0.000	OK
31.010	120 min Winter	77	S72	S164	0.375	1.231	93.052	0.741	Surcharged
31.011	120 min Winter	69	S164	S163	0.375	1.505	149.798	0.452	Surcharged
1.017	960 min Winter	1292	S163	S161	0.375	0.093	10.220	0.047	Surcharged
1.018	1440 min Winter	1778	S161	S162	0.225	0.075	3.000	0.045	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving1	30 min Summer	23	5.729	0.033	1.311			OK
Permeable Paving2	30 min Summer	23	5.596	0.033	1.308			OK
Permeable Paving3	30 min Summer	23	5.520	0.029	1.059			OK
Permeable Paving4	30 min Summer	23	5.352	0.032	1.306			OK
Permeable Paving 89	480 min Winter	461	5.105	0.216	0.460			OK
Permeable Paving23	30 min Summer	22	5.450	0.026	0.936			OK
Permeable Paving22	60 min Summer	41	5.576	0.044	2.016			OK
Permeable Paving21	30 min Summer	24	5.397	0.036	1.508			OK
Permeable Paving19	30 min Summer	24	5.209	0.048	2.226			OK
Permeable Paving20	30 min Summer	22	5.361	0.027	0.972			OK
Permeable Paving6	30 min Summer	22	5.200	0.028	1.044			OK
Permeable Paving5	30 min Summer	22	5.028	0.028	1.046			OK
Permeable Paving18	30 min Summer	25	5.710	0.039	1.645			OK
Permeable Paving8	60 min Summer	41	5.122	0.043	1.949			OK
Permeable Paving7	30 min Summer	23	5.298	0.032	1.260			OK
Permeable Paving11	30 min Summer	22	5.135	0.028	1.042			OK
Permeable Paving10	30 min Summer	22	5.143	0.028	1.045			OK
Permeable Paving9	30 min Summer	24	5.109	0.037	1.538			OK
Permeable Paving12	30 min Summer	24	4.895	0.037	1.543			OK

Return Period (yrs) + Climate Change (%):
30yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Summer	10	5.751	0.151	0.000		Surcharged
RE337A	15 min Summer	10	5.751	0.201	6.191		Surcharged
RWP335D	15 min Summer	11	5.631	0.031	0.000		OK
PS227	15 min Summer	11	5.630	0.205	5.519		Surcharged
RE334A	15 min Summer	10	5.792	0.192	6.188		Surcharged
RWP334A	15 min Summer	10	5.658	0.058	0.247		OK
PS222	15 min Summer	10	5.658	0.208	6.538		Surcharged
PS223	15 min Summer	11	5.527	0.227	11.517		Surcharged
RWP337A	15 min Summer	0	5.600	0.000	0.000		OK
RE337B	15 min Summer	0	5.550	0.000	0.000		OK
PS224	15 min Summer	11	5.319	0.069	11.554		OK
S104	30 min Summer	22	5.439	0.014	1.765		OK
S80	600 min Winter	576	5.201	0.719	0.176		Surcharged
S81	600 min Winter	576	5.201	0.772	0.239		Surcharged
S107	30 min Summer	22	5.319	0.019	1.762		OK
S105	30 min Summer	22	5.236	0.015	1.514		OK
S106	600 min Winter	576	5.201	0.884	0.376		Surcharged
S108	600 min Winter	577	5.201	0.151	0.036		Surcharged
S82	600 min Winter	576	5.199	1.096	0.228		Surcharged
S170	480 min Winter	509	5.208	0.329	0.000		Surcharged
S83	600 min Winter	577	5.200	1.168	0.734		Surcharged
S152	1440 min Summer	1445	4.441	0.591	0.688		Surcharged
S174	1440 min Summer	1445	4.441	0.607	0.274		Surcharged
S150	1440 min Summer	1443	4.441	0.716	0.236		Surcharged
S175	1440 min Summer	1443	4.441	0.733	0.143		Surcharged
RWP338B	15 min Summer	0	5.450	0.000	0.000		OK
RE338A	15 min Summer	8	5.438	0.088	12.943		OK
DF341	30 min Summer	21	5.265	0.015	1.275		OK
PS336	15 min Summer	8	5.191	0.091	12.897		OK
DF338	60 min Summer	40	5.393	0.033	2.721		OK
PS31	60 min Summer	40	5.214	0.039	2.721		OK
PS32	15 min Summer	9	5.068	0.118	16.539		OK
RWP342B	15 min Summer	0	5.300	0.000	0.000		OK
PS33	15 min Summer	9	4.763	0.063	16.721		OK
S130	600 min Summer	450	4.637	0.614	0.630		OK
RWP343A	15 min Summer	9	5.362	0.062	0.000		OK
RE343B	15 min Summer	9	5.362	0.087	6.553		OK
PS232	15 min Summer	9	5.231	0.081	6.621		OK
RE343A	15 min Summer	0	5.300	0.000	0.000		OK
RWP344D	15 min Summer	0	5.300	0.000	0.000		OK
PS233	15 min Summer	9	5.057	0.057	6.641		OK
DF344	30 min Summer	23	5.280	0.030	2.070		OK
RE345A	15 min Summer	0	5.250	0.000	0.000		OK
PS29	15 min Summer	9	4.883	0.033	6.748		OK
S129	600 min Summer	450	4.637	0.697	0.817		OK
RE345B	15 min Summer	9	5.535	0.285	9.364		Flood Risk
PS243	15 min Summer	10	5.272	0.172	8.444		Surcharged
DF347	30 min Summer	23	5.020	0.045	3.282		OK
PS240	15 min Summer	0	5.250	0.000	0.000		OK
PS27	30 min Summer	19	4.890	0.040	10.787		OK
DF348	15 min Summer	0	4.950	0.000	0.000		OK
RE348A	15 min Summer	0	5.075	0.000	0.000		OK
RWP348B	15 min Summer	0	5.075	0.000	0.000		OK
PS25	15 min Summer	0	4.850	0.000	0.000		OK
S128	600 min Summer	450	4.637	0.824	1.545		Surcharged
S172	600 min Summer	450	4.637	0.873	1.693		Surcharged
RE348B	15 min Summer	9	5.325	0.250	9.364		Flood Risk
PS238	15 min Summer	9	4.993	0.093	9.288		OK
PS239	15 min Summer	10	4.759	0.059	9.167		OK
RE349A	15 min Summer	0	5.075	0.000	0.000		OK
DF350	30 min Summer	22	5.016	0.016	1.383		OK
PS200	600 min Summer	450	4.637	0.157	0.219		Surcharged
S177	600 min Summer	451	4.637	0.937	0.012		Surcharged
S92	600 min Summer	450	4.637	0.912	2.371		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S109(D)	30 min Summer	22	4.742	0.017	1.385		OK
S93	600 min Summer	450	4.637	0.987	2.434		Surcharged
S86	1440 min Summer	1485	4.444	0.844	3.409		Surcharged
S176	1440 min Summer	1464	4.442	0.861	2.164		Surcharged
S87	1440 min Summer	1439	4.441	0.891	1.859		Flood Risk
RWP301A	15 min Summer	10	5.706	0.006	0.000		OK
RE301A	15 min Summer	9	5.709	0.034	0.214		OK
PS363	15 min Summer	9	5.710	0.140	7.450		Surcharged
RWP301C	15 min Summer	0	5.650	0.000	0.000		OK
RE302A	15 min Summer	0	5.600	0.000	0.000		OK
RWP302B	15 min Summer	0	5.650	0.000	0.000		OK
PS365	15 min Summer	0	5.540	0.000	0.000		OK
DF302	60 min Summer	37	5.530	0.030	2.733		OK
PS362	15 min Summer	9	5.454	0.084	9.138		OK
S69	15 min Summer	10	5.101	0.401	38.995		Surcharged
S98	15 min Summer	10	4.904	0.404	70.870		Surcharged
RE333B	15 min Summer	0	5.150	0.000	0.000		OK
PS273	15 min Summer	11	4.769	0.069	0.000		OK
RWP333B	15 min Summer	0	5.150	0.000	0.000		OK
RE333A	15 min Summer	0	5.100	0.000	0.000		OK
DF330	60 min Summer	40	4.950	0.025	2.654		OK
DF331	30 min Summer	22	5.115	0.015	1.717		OK
PS274	15 min Summer	10	4.779	0.299	2.635		Surcharged
S70	15 min Summer	10	4.777	0.597	107.891		Surcharged
RE309B	15 min Summer	0	5.350	0.000	0.000		OK
RWP312B	15 min Summer	0	5.375	0.000	0.000		OK
PS260	15 min Summer	0	5.155	0.000	0.000		OK
RE309A	15 min Summer	0	5.350	0.000	0.000		OK
RWP312A	15 min Summer	0	5.375	0.000	0.000		OK
PS261	15 min Summer	0	4.985	0.000	0.000		OK
PS206	30 min Summer	22	4.967	0.017	1.381		OK
S117	15 min Summer	10	4.732	0.652	115.783		Surcharged
RE330B	15 min Summer	10	4.999	0.129	5.508		Surcharged
PS20	15 min Summer	11	4.843	0.168	4.950		Surcharged
RWP330A	15 min Summer	8	4.973	0.048	0.059		OK
RE330A	15 min Summer	8	4.973	0.073	7.618		OK
S115	30 min Summer	22	4.916	0.016	1.383		OK
PS23	15 min Summer	10	4.758	0.258	11.692		Surcharged
RWP325C	15 min Summer	0	4.925	0.000	0.000		OK
ACO325	15 min Summer	0	4.895	0.000	0.000		OK
RE325A	15 min Summer	0	4.870	0.000	0.000		OK
PS16	15 min Summer	0	4.800	0.000	0.000		OK
RWP325B	15 min Summer	0	4.925	0.000	0.000		OK
RE325B	15 min Summer	9	4.914	0.064	9.363		OK
DF326	30 min Summer	23	4.871	0.021	2.098		OK
PS10	15 min Summer	10	4.726	0.326	19.537		Surcharged
S114	15 min Summer	10	4.676	0.691	144.150		Surcharged
YG313	15 min Summer	8	5.229	0.079	12.871		OK
YG316	15 min Summer	0	5.080	0.000	0.000		OK
PS257	15 min Summer	9	5.012	0.232	15.550		Surcharged
RE313A	15 min Summer	0	5.300	0.000	0.000		OK
RE318B	15 min Summer	9	5.091	0.066	6.071		OK
PS258	15 min Summer	9	4.916	0.221	21.448		Surcharged
RWP324A	15 min Summer	0	4.925	0.000	0.000		OK
RE324A	15 min Summer	0	4.900	0.000	0.000		OK
PS5	15 min Summer	0	4.700	0.000	0.000		OK
DF324	30 min Summer	23	4.756	0.031	2.102		OK
PS6	15 min Summer	10	4.582	0.082	0.425		OK
S71	15 min Summer	10	4.582	0.692	203.575		Surcharged
RE319A	15 min Summer	0	5.000	0.000	0.000		OK
GY319	15 min Summer	8	4.825	0.040	2.616		OK
PS285	15 min Summer	8	4.787	0.037	2.598		OK
RE319B	15 min Summer	8	4.949	0.049	4.301		OK
RWP319D	15 min Summer	0	5.000	0.000	0.000		OK
PS286	15 min Summer	8	4.743	0.093	11.160		OK
RE320A	15 min Summer	0	4.775	0.000	0.000		OK
GY320	15 min Summer	8	4.692	0.042	2.602		OK
PS288	15 min Summer	8	4.660	0.040	2.583		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP320D	15 min Summer	0	4.800	0.000	0.000		OK
PS283	15 min Summer	8	4.641	0.091	13.646		OK
GY279	15 min Summer	0	4.615	0.000	0.000		OK
S72	1440 min Summer	1433	4.440	0.790	1.493		Surcharged
S164	1440 min Summer	1487	4.442	0.842	0.004		Flood Risk
S163	1440 min Summer	1434	4.440	0.940	2.866		Flood Risk
S161	1440 min Summer	1434	4.440	0.990	2.883		Flood Risk
S162	15 min Summer	0	3.900	0.500	2.994		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	30 min Summer	20	RWP337B	RE337A	0.100	0.238	1.252	0.096	Surcharged
1.001	15 min Winter	8	RE337A	PS227	0.100	0.886	5.934	0.956	Surcharged
2.000	15 min Summer	12	RWP335D	PS227	0.066	0.105	0.493	0.050	OK
1.002	15 min Winter	10	PS227	PS223	0.100	0.692	5.435	0.870	Surcharged
3.000	15 min Winter	9	RE334A	PS222	0.100	0.957	6.504	0.930	Surcharged
4.000	15 min Summer	12	RWP334A	PS222	0.079	0.214	1.093	0.059	OK
3.001	15 min Winter	10	PS222	PS223	0.100	0.734	5.767	0.900	Surcharged
1.003	15 min Summer	11	PS223	PS224	0.084	1.634	11.554	1.885	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Summer	11	RE337B	PS224	0.034	0.000	0.000	0.000	OK
1.004	60 min Summer	35	PS224	S80	0.077	1.986	9.689	0.672	OK
6.000	30 min Summer	23	S104	S80	0.082	1.918	1.763	0.023	OK
1.005	30 min Summer	24	S80	S81	0.300	0.822	12.176	0.156	Surcharged
1.006	15 min Winter	18	S81	S106	0.300	0.775	12.237	0.156	Surcharged
7.000	30 min Summer	22	S107	S106	0.085	1.000	1.759	0.037	OK
8.000	30 min Summer	22	S105	S106	0.082	1.250	1.515	0.023	OK
1.007	15 min Winter	16	S106	S82	0.300	0.790	12.952	0.166	Surcharged
9.000	720 min Winter	1040	S108	S82	0.150	0.502	1.386	0.027	Surcharged
1.008	15 min Winter	11	S82	S83	0.300	0.546	10.455	0.133	Surcharged
10.000	480 min Winter	782	S170	S83	0.300	0.164	11.239	0.021	Surcharged
1.009	960 min Winter	1381	S83	S152	0.300	0.381	2.749	0.035	Surcharged
1.010	720 min Winter	1240	S152	S174	0.375	0.267	4.399	0.039	Surcharged
1.011	720 min Winter	1240	S174	S150	0.375	0.202	4.462	0.040	Surcharged
1.012	960 min Summer	1036	S150	S175	0.375	0.048	5.354	0.050	Surcharged
1.013	1440 min Summer	1654	S175	S86	0.375	0.049	5.375	0.051	Surcharged
11.000	15 min Summer	8	RWP338B	RE338A	0.019	0.000	0.000	0.000	OK
11.001	15 min Summer	8	RE338A	PS336	0.089	1.173	12.885	0.627	OK
12.000	15 min Summer	14	DF341	PS336	0.048	0.780	1.195	0.023	OK
11.002	15 min Summer	9	PS336	PS32	0.104	0.974	12.760	0.635	OK
13.000	60 min Summer	40	DF338	PS31	0.036	0.837	2.721	0.109	OK
13.001	30 min Summer	25	PS31	PS32	0.065	0.531	2.702	0.151	OK
11.003	15 min Summer	9	PS32	PS33	0.090	1.506	16.721	0.908	OK
14.000	15 min Summer	9	RWP342B	PS33	0.006	0.000	0.000	0.000	OK
11.004	120 min Winter	82	PS33	S130	0.090	1.984	7.013	0.149	OK
11.005	600 min Summer	450	S130	S129	0.656	0.388	3.516	0.004	OK
15.000	15 min Summer	11	RWP343A	RE343B	0.074	0.146	0.486	0.054	OK
15.001	15 min Summer	9	RE343B	PS232	0.084	0.942	6.621	1.026	OK
15.002	15 min Summer	9	PS232	PS233	0.069	1.143	6.641	0.970	OK
16.000	15 min Summer	9	RE343A	PS233	0.029	0.000	0.000	0.000	OK
17.000	15 min Summer	9	RWP344D	PS233	0.029	0.000	0.000	0.000	OK
15.003	15 min Summer	9	PS233	PS29	0.054	1.521	6.647	0.575	OK
18.000	30 min Summer	23	DF344	PS29	0.030	1.066	2.071	0.193	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	60 min Winter	43	PS29	S129	0.086	2.163	4.414	0.070	OK
11.006	600 min Summer	450	S129	S128	0.724	0.286	3.141	0.004	OK
20.000	15 min Winter	9	RE345B	PS243	0.100	1.039	8.158	1.258	Surcharged
20.001	15 min Summer	10	PS243	PS27	0.095	1.091	8.421	1.197	OK
21.000	30 min Summer	23	DF347	PS27	0.038	0.939	3.285	0.184	OK
22.000	15 min Summer	0	PS240	PS27	0.000	0.000	0.000	0.000	OK
20.002	60 min Summer	35	PS27	S128	0.092	2.536	8.782	0.140	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
23.001	30 min Summer	22	PS25	S128	0.075	0.000	0.000	0.000	OK
11.007	360 min Summer	268	S128	S172	0.750	0.380	10.094	0.012	Surcharged
11.008	240 min Summer	198	S172	S92	0.750	0.337	13.665	0.022	Surcharged
26.000	15 min Summer	9	RE348B	PS238	0.096	1.197	9.288	1.374	OK
26.001	15 min Summer	10	PS238	PS239	0.076	1.450	9.167	1.036	OK
26.002	15 min Summer	10	PS239	PS200	0.056	2.045	9.196	0.603	OK
27.000	600 min Summer	426	RE349A	PS200	0.050	0.000	0.000	0.000	OK
28.000	600 min Summer	426	DF350	PS200	0.077	0.413	0.323	0.006	OK
26.003	720 min Summer	494	PS200	S92	0.150	0.837	1.347	0.033	Surcharged
29.000	1440 min Winter	1541	S177	S92	0.300	0.136	9.611	0.123	Surcharged
11.009	1440 min Summer	1550	S92	S93	0.750	0.262	37.315	0.032	Surcharged
30.000	30 min Summer	22	S109(D)	S93	0.084	0.137	1.387	0.030	OK
11.010	1440 min Summer	3700	S93	S86	0.375	0.600	10.689	0.065	Surcharged
1.014	60 min Winter	67	S86	S176	0.375	0.280	9.042	0.076	Surcharged
1.015	60 min Winter	67	S176	S87	0.375	0.081	8.999	0.078	Surcharged
1.016	15 min Winter	14	S87	S163	0.375	0.857	16.255	0.165	Surcharged
31.000	15 min Summer	10	RWP301A	RE301A	0.019	0.111	0.098	0.009	OK
31.001	15 min Summer	10	RE301A	PS363	0.067	0.092	0.485	0.080	OK
31.002	15 min Summer	9	PS363	PS362	0.093	0.939	7.134	1.172	OK
32.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
32.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
33.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
32.002	15 min Summer	9	PS365	PS362	0.017	0.000	0.000	0.000	OK
34.000	30 min Summer	22	DF302	PS362	0.055	0.678	2.647	0.093	OK
31.003	15 min Summer	9	PS362	S69	0.083	0.906	9.060	0.601	OK
31.004	15 min Winter	10	S69	S98	0.225	1.120	41.852	1.337	OK
31.005	15 min Winter	10	S98	S70	0.300	1.492	75.642	0.765	Surcharged
35.000	15 min Summer	11	RE333B	PS273	0.035	0.000	0.000	0.000	OK
35.001	15 min Summer	11	PS273	PS274	0.085	0.285	1.962	0.285	OK
36.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
36.001	15 min Summer	9	RE333A	PS274	0.050	0.000	0.000	0.000	OK
37.000	30 min Summer	24	DF330	PS274	0.085	0.725	2.651	0.062	OK
38.000	30 min Summer	22	DF331	PS274	0.082	0.795	1.716	0.024	OK
35.002	30 min Summer	20	PS274	S70	0.150	0.774	9.282	0.594	Surcharged
31.006	15 min Winter	8	S70	S117	0.375	1.235	103.233	0.607	Surcharged
39.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
39.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
42.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
39.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
43.000	30 min Summer	22	PS206	S117	0.083	1.241	1.383	0.029	OK
31.007	15 min Winter	10	S117	S114	0.375	1.113	109.501	0.668	Surcharged
44.000	15 min Summer	9	RE330B	PS20	0.100	0.892	6.521	1.066	Surcharged
44.001	15 min Summer	9	PS20	PS23	0.100	0.901	6.461	1.052	Surcharged
45.000	15 min Summer	11	RWP330A	RE330A	0.060	0.222	0.581	0.077	OK
45.001	15 min Summer	9	RE330A	PS23	0.086	1.248	7.494	0.853	OK
46.000	30 min Summer	22	S115	PS23	0.082	0.532	1.386	0.027	OK
44.002	15 min Winter	10	PS23	PS10	0.150	1.144	12.973	0.615	Surcharged
47.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
48.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
47.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
47.002	15 min Summer	8	PS16	PS10	0.050	0.000	0.000	0.000	OK
49.000	15 min Summer	9	RWP325B	RE325B	0.032	0.000	0.000	0.000	OK
49.001	15 min Summer	9	RE325B	PS10	0.082	2.021	9.579	0.617	OK
50.000	30 min Summer	23	DF326	PS10	0.084	0.838	2.098	0.043	OK
44.003	15 min Winter	9	PS10	S114	0.150	2.172	20.311	0.506	Surcharged
31.008	15 min Winter	11	S114	S71	0.375	1.250	138.017	0.884	Surcharged
51.000	15 min Summer	8	YG313	PS257	0.115	0.947	12.813	0.558	OK
52.000	15 min Summer	8	YG316	PS257	0.075	0.000	0.000	0.000	OK
51.001	15 min Winter	9	PS257	PS258	0.150	0.802	14.166	0.954	Surcharged
53.000	15 min Summer	7	RE313A	PS258	0.050	0.000	0.000	0.000	OK
54.000	15 min Summer	9	RE318B	PS258	0.083	1.020	6.214	0.710	OK
51.002	15 min Summer	9	PS258	S71	0.141	1.226	21.129	1.444	OK
55.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
55.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
55.002	15 min Summer	10	PS5	PS6	0.016	0.000	0.000	0.000	OK
56.000	15 min Summer	16	DF324	PS6	0.048	1.046	1.866	0.075	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
55.003	15 min Summer	11	PS6	S71	0.116	1.609	2.418	0.042	OK
31.009	15 min Winter	10	S71	S72	0.375	1.748	193.012	1.309	Surcharged
57.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	8	GY319	PS285	0.039	0.724	2.598	0.156	OK
57.001	15 min Summer	8	PS285	PS286	0.065	0.355	2.582	0.136	OK
59.000	15 min Summer	8	RE319B	PS286	0.048	1.144	4.277	0.465	OK
60.000	15 min Summer	8	RWP319D	PS286	0.021	0.000	0.000	0.000	OK
57.002	15 min Summer	8	PS286	PS283	0.092	0.978	11.081	0.671	OK
61.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
62.000	15 min Summer	8	GY320	PS288	0.041	0.656	2.583	0.166	OK
61.001	15 min Summer	8	PS288	PS283	0.066	0.345	2.564	0.165	OK
63.000	15 min Summer	8	RWP320D	PS283	0.020	0.000	0.000	0.000	OK
57.003	15 min Summer	9	PS283	S72	0.089	1.240	13.550	0.668	OK
64.000	1440 min Summer	1433	GY279	S72	0.033	0.000	0.000	0.000	OK
31.010	15 min Winter	12	S72	S164	0.375	1.969	203.192	1.619	Surcharged
31.011	15 min Winter	12	S164	S163	0.375	2.942	202.589	0.611	Surcharged
1.017	480 min Winter	591	S163	S161	0.375	0.087	9.630	0.044	Surcharged
1.018	720 min Winter	1560	S161	S162	0.225	0.075	3.000	0.045	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving1	30 min Summer	22	5.737	0.040	1.809			OK
Permeable Paving2	30 min Summer	22	5.604	0.040	1.805			OK
Permeable Paving3	30 min Summer	22	5.527	0.036	1.461			OK
Permeable Paving4	30 min Summer	22	5.359	0.040	1.802			OK
Permeable Paving 89	480 min Winter	467	5.197	0.309	0.445			OK
Permeable Paving23	30 min Summer	21	5.456	0.032	1.326			OK
Permeable Paving22	60 min Summer	40	5.585	0.053	2.677			OK
Permeable Paving21	30 min Summer	23	5.406	0.044	2.024			OK
Permeable Paving19	30 min Summer	23	5.221	0.060	3.087			OK
Permeable Paving20	30 min Summer	21	5.367	0.033	1.377			OK
Permeable Paving6	30 min Summer	22	5.206	0.034	1.300			OK
Permeable Paving5	30 min Summer	22	5.034	0.034	1.302			OK
Permeable Paving18	30 min Summer	23	5.718	0.048	2.411			OK
Permeable Paving8	60 min Summer	40	5.131	0.052	2.588			OK
Permeable Paving7	30 min Summer	22	5.305	0.039	1.738			OK
Permeable Paving11	30 min Summer	22	5.142	0.034	1.297			OK
Permeable Paving10	30 min Summer	22	5.150	0.034	1.301			OK
Permeable Paving9	30 min Summer	23	5.117	0.045	2.064			OK
Permeable Paving12	30 min Summer	23	4.903	0.045	2.070			OK

Return Period (yrs) + Climate Change (%):

100yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Summer	10	5.691	0.091	0.000		OK
RE337A	15 min Summer	10	5.690	0.140	5.391		Surcharged
RWP335D	15 min Summer	0	5.600	0.000	0.000		OK
PS227	15 min Summer	10	5.592	0.167	5.430		Surcharged
RE334A	15 min Summer	9	5.723	0.123	6.429		Surcharged
RWP334A	15 min Summer	10	5.615	0.015	0.095		OK
PS222	15 min Summer	10	5.615	0.165	5.754		Surcharged
PS223	15 min Summer	11	5.500	0.200	10.636		Surcharged
RWP337A	15 min Summer	0	5.600	0.000	0.000		OK
RE337B	15 min Summer	0	5.550	0.000	0.000		OK
PS224	15 min Summer	11	5.315	0.065	10.783		OK
S104	30 min Summer	23	5.438	0.013	1.501		OK
S80	360 min Winter	368	5.127	0.646	0.611		Surcharged
S81	360 min Summer	378	5.127	0.698	0.092		Surcharged
S107	30 min Summer	23	5.318	0.018	1.499		OK
S105	30 min Summer	22	5.235	0.014	1.290		OK
S106	360 min Summer	378	5.126	0.808	1.015		Surcharged
S108	360 min Winter	369	5.128	0.078	0.018		OK
S82	360 min Summer	379	5.125	1.022	1.151		Surcharged
S170	480 min Winter	516	5.128	0.250	0.000		OK
S83	360 min Winter	369	5.129	1.097	2.171		Surcharged
S152	1440 min Summer	1352	4.340	0.490	0.704		Surcharged
S174	1440 min Summer	1352	4.340	0.506	0.707		Surcharged
S150	1440 min Summer	1350	4.340	0.615	0.704		Surcharged
S175	1440 min Summer	1350	4.340	0.631	0.706		Surcharged
RWP338B	15 min Summer	0	5.450	0.000	0.000		OK
RE338A	15 min Summer	8	5.430	0.080	11.169		OK
DF341	30 min Summer	22	5.264	0.014	1.086		OK
PS336	15 min Summer	8	5.182	0.082	11.120		OK
DF338	60 min Summer	40	5.391	0.031	2.372		OK
PS31	60 min Summer	41	5.211	0.036	2.368		OK
PS32	15 min Summer	9	5.055	0.105	14.213		OK
RWP342B	15 min Summer	0	5.300	0.000	0.000		OK
PS33	15 min Summer	9	4.758	0.058	14.396		OK
S130	960 min Summer	640	4.415	0.392	0.581		OK
RWP343A	15 min Summer	8	5.350	0.050	0.058		OK
RE343B	15 min Summer	8	5.350	0.075	5.866		OK
PS232	15 min Summer	9	5.222	0.072	5.712		OK
RE343A	15 min Summer	0	5.300	0.000	0.000		OK
RWP344D	15 min Summer	0	5.300	0.000	0.000		OK
PS233	15 min Summer	9	5.052	0.052	5.748		OK
DF344	30 min Summer	24	5.277	0.027	1.756		OK
RE345A	15 min Summer	0	5.250	0.000	0.000		OK
PS29	15 min Summer	9	4.880	0.030	5.798		OK
S129	960 min Summer	641	4.415	0.476	0.768		OK
RE345B	15 min Summer	9	5.431	0.181	8.081		Surcharged
PS243	15 min Summer	10	5.216	0.116	7.456		Surcharged
DF347	30 min Summer	23	5.016	0.041	2.759		OK
PS240	15 min Summer	0	5.250	0.000	0.000		OK
PS27	15 min Summer	11	4.888	0.038	9.084		OK
DF348	15 min Summer	0	4.950	0.000	0.000		OK
RE348A	15 min Summer	0	5.075	0.000	0.000		OK
RWP348B	15 min Summer	0	5.075	0.000	0.000		OK
PS25	15 min Summer	0	4.850	0.000	0.000		OK
S128	960 min Summer	641	4.415	0.603	1.456		OK
S172	960 min Summer	641	4.415	0.652	1.588		OK
RE348B	15 min Summer	9	5.247	0.172	8.081		Surcharged
PS238	15 min Summer	9	4.979	0.079	8.006		OK
PS239	15 min Summer	9	4.754	0.054	7.983		OK
RE349A	15 min Summer	0	5.075	0.000	0.000		OK
DF350	30 min Summer	22	5.015	0.015	1.183		OK
PS200	15 min Summer	10	4.523	0.044	8.108		OK
S177	960 min Summer	641	4.415	0.715	0.000		Surcharged
S92	960 min Summer	641	4.415	0.690	2.189		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S109(D)	30 min Summer	22	4.741	0.016	1.185		OK
S93	960 min Summer	641	4.415	0.765	2.234		Surcharged
S86	1440 min Summer	1350	4.340	0.740	1.409		Surcharged
S176	1440 min Summer	1351	4.340	0.759	1.409		Surcharged
S87	1440 min Summer	1352	4.340	0.790	1.539		Surcharged
RWP301A	15 min Summer	0	5.700	0.000	0.000		OK
RE301A	15 min Summer	0	5.675	0.000	0.000		OK
PS363	15 min Summer	9	5.666	0.096	6.430		OK
RWP301C	15 min Summer	0	5.650	0.000	0.000		OK
RE302A	15 min Summer	0	5.600	0.000	0.000		OK
RWP302B	15 min Summer	0	5.650	0.000	0.000		OK
PS365	15 min Summer	0	5.540	0.000	0.000		OK
DF302	60 min Summer	37	5.528	0.028	2.370		OK
PS362	15 min Summer	9	5.449	0.079	8.211		OK
S69	15 min Summer	9	4.946	0.246	39.296		Surcharged
S98	15 min Summer	10	4.707	0.207	64.249		OK
RE333B	15 min Summer	0	5.150	0.000	0.000		OK
PS273	15 min Summer	0	4.700	0.000	0.000		OK
RWP333B	15 min Summer	0	5.150	0.000	0.000		OK
RE333A	15 min Summer	0	5.100	0.000	0.000		OK
DF330	60 min Summer	40	4.948	0.023	2.316		OK
DF331	30 min Summer	23	5.114	0.014	1.458		OK
PS274	15 min Summer	10	4.621	0.141	0.629		OK
S70	15 min Summer	10	4.620	0.440	98.203		Surcharged
RE309B	15 min Summer	0	5.350	0.000	0.000		OK
RWP312B	15 min Summer	0	5.375	0.000	0.000		OK
PS260	15 min Summer	0	5.155	0.000	0.000		OK
RE309A	15 min Summer	0	5.350	0.000	0.000		OK
RWP312A	15 min Summer	0	5.375	0.000	0.000		OK
PS261	15 min Summer	0	4.985	0.000	0.000		OK
PS206	30 min Summer	22	4.966	0.016	1.181		OK
S117	15 min Summer	10	4.581	0.501	107.040		Surcharged
RE330B	15 min Summer	8	4.950	0.080	5.976		OK
PS20	15 min Summer	9	4.754	0.079	5.792		OK
RWP330A	15 min Summer	8	4.965	0.040	0.039		OK
RE330A	15 min Summer	8	4.965	0.065	6.574		OK
S115	30 min Summer	22	4.915	0.015	1.183		OK
PS23	15 min Summer	10	4.600	0.100	11.199		OK
RWP325C	15 min Summer	0	4.925	0.000	0.000		OK
ACO325	15 min Summer	0	4.895	0.000	0.000		OK
RE325A	15 min Summer	0	4.870	0.000	0.000		OK
PS16	15 min Summer	0	4.800	0.000	0.000		OK
RWP325B	15 min Summer	0	4.925	0.000	0.000		OK
RE325B	15 min Summer	8	4.905	0.055	8.438		OK
DF326	30 min Summer	24	4.869	0.019	1.780		OK
PS10	15 min Summer	10	4.578	0.178	18.305		Surcharged
S114	15 min Summer	10	4.533	0.548	133.743		Surcharged
YG313	15 min Summer	8	5.222	0.072	11.107		OK
YG316	15 min Summer	0	5.080	0.000	0.000		OK
PS257	15 min Summer	9	4.942	0.162	13.421		Surcharged
RE313A	15 min Summer	0	5.300	0.000	0.000		OK
RE318B	15 min Summer	8	5.081	0.056	5.472		OK
PS258	15 min Summer	9	4.869	0.174	18.570		Surcharged
RWP324A	15 min Summer	0	4.925	0.000	0.000		OK
RE324A	15 min Summer	0	4.900	0.000	0.000		OK
PS5	15 min Summer	0	4.700	0.000	0.000		OK
DF324	30 min Summer	24	4.754	0.029	1.784		OK
PS6	30 min Summer	24	4.517	0.017	1.786		OK
S71	15 min Summer	10	4.451	0.561	185.436		Surcharged
RE319A	15 min Summer	0	5.000	0.000	0.000		OK
GY319	15 min Summer	8	4.822	0.037	2.258		OK
PS285	15 min Summer	8	4.784	0.034	2.241		OK
RE319B	15 min Summer	8	4.945	0.045	3.711		OK
RWP319D	15 min Summer	0	5.000	0.000	0.000		OK
PS286	15 min Summer	8	4.734	0.084	9.627		OK
RE320A	15 min Summer	0	4.775	0.000	0.000		OK
GY320	15 min Summer	8	4.689	0.039	2.246		OK
PS288	15 min Summer	8	4.657	0.037	2.228		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP320D	15 min Summer	0	4.800	0.000	0.000		OK
PS283	15 min Summer	8	4.633	0.083	11.772		OK
GY279	15 min Summer	0	4.615	0.000	0.000		OK
S72	1440 min Summer	1354	4.340	0.690	1.436		Surcharged
S164	1440 min Summer	1352	4.340	0.740	1.429		Surcharged
S163	1440 min Summer	1352	4.340	0.840	2.968		Surcharged
S161	1440 min Summer	1352	4.340	0.890	2.972		Surcharged
S162	15 min Summer	0	3.900	0.500	2.991		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	11	RWP337B	RE337A	0.095	0.183	0.870	0.066	OK
1.001	15 min Winter	9	RE337A	PS227	0.100	0.868	5.536	0.892	Surcharged
2.000	15 min Summer	8	RWP335D	PS227	0.050	0.000	0.000	0.000	OK
1.002	30 min Summer	19	PS227	PS223	0.100	0.648	5.089	0.814	Surcharged
3.000	15 min Summer	9	RE334A	PS222	0.100	0.954	6.206	0.888	Surcharged
4.000	15 min Summer	11	RWP334A	PS222	0.057	0.089	0.392	0.021	OK
3.001	15 min Winter	9	PS222	PS223	0.100	0.698	5.480	0.855	Surcharged
1.003	15 min Summer	11	PS223	PS224	0.083	1.552	10.783	1.760	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	15 min Summer	11	RE337B	PS224	0.033	0.000	0.000	0.000	OK
1.004	120 min Summer	63	PS224	S80	0.071	1.754	5.743	0.398	OK
6.000	30 min Summer	24	S104	S80	0.082	1.806	1.502	0.019	OK
1.005	30 min Summer	25	S80	S81	0.300	0.805	11.181	0.143	Surcharged
1.006	30 min Summer	25	S81	S106	0.300	0.757	11.406	0.146	Surcharged
7.000	30 min Summer	23	S107	S106	0.084	0.939	1.500	0.032	OK
8.000	30 min Summer	22	S105	S106	0.082	1.211	1.289	0.020	OK
1.007	15 min Winter	18	S106	S82	0.300	0.773	12.293	0.157	Surcharged
9.000	480 min Winter	559	S108	S82	0.114	0.549	1.160	0.023	OK
1.008	60 min Winter	43	S82	S83	0.300	0.389	7.505	0.096	Surcharged
10.000	480 min Winter	516	S170	S83	0.275	0.089	5.748	0.011	OK
1.009	1440 min Winter	1427	S83	S152	0.300	0.375	1.093	0.014	Surcharged
1.010	600 min Summer	759	S152	S174	0.375	0.273	4.276	0.038	Surcharged
1.011	600 min Summer	759	S174	S150	0.375	0.225	4.336	0.039	Surcharged
1.012	720 min Summer	847	S150	S175	0.375	0.040	4.372	0.041	Surcharged
1.013	720 min Summer	847	S175	S86	0.375	0.040	4.458	0.042	Surcharged
11.000	15 min Summer	8	RWP338B	RE338A	0.015	0.000	0.000	0.000	OK
11.001	15 min Summer	8	RE338A	PS336	0.081	1.144	11.119	0.541	OK
12.000	30 min Summer	22	DF341	PS336	0.043	0.515	1.087	0.021	OK
11.002	15 min Summer	8	PS336	PS32	0.093	0.951	11.012	0.548	OK
13.000	60 min Summer	41	DF338	PS31	0.034	0.805	2.370	0.095	OK
13.001	30 min Summer	25	PS31	PS32	0.059	0.505	2.303	0.128	OK
11.003	15 min Summer	9	PS32	PS33	0.081	1.472	14.396	0.781	OK
14.000	15 min Summer	9	RWP342B	PS33	0.004	0.000	0.000	0.000	OK
11.004	480 min Summer	290	PS33	S130	0.084	1.604	3.279	0.070	OK
11.005	960 min Summer	641	S130	S129	0.434	0.322	2.126	0.002	OK
15.000	15 min Summer	11	RWP343A	RE343B	0.063	0.108	0.302	0.034	OK
15.001	15 min Summer	8	RE343B	PS232	0.074	0.928	5.743	0.890	OK
15.002	15 min Summer	9	PS232	PS233	0.062	1.120	5.748	0.840	OK
16.000	15 min Summer	9	RE343A	PS233	0.026	0.000	0.000	0.000	OK
17.000	15 min Summer	9	RWP344D	PS233	0.026	0.000	0.000	0.000	OK
15.003	15 min Summer	9	PS233	PS29	0.050	1.474	5.769	0.499	OK
18.000	30 min Summer	24	DF344	PS29	0.027	1.019	1.758	0.164	OK
19.000	15 min Summer	0	RE345A	PS29	0.000	0.000	0.000	0.000	OK
15.004	120 min Winter	84	PS29	S129	0.082	1.866	2.651	0.042	OK
11.006	960 min Summer	641	S129	S128	0.539	0.236	2.038	0.002	OK
20.000	15 min Summer	9	RE345B	PS243	0.100	1.009	7.835	1.209	Surcharged
20.001	15 min Summer	10	PS243	PS27	0.094	1.020	7.579	1.078	OK
21.000	30 min Summer	23	DF347	PS27	0.035	0.893	2.755	0.154	OK
22.000	15 min Summer	0	PS240	PS27	0.000	0.000	0.000	0.000	OK
20.002	60 min Summer	37	PS27	S128	0.090	2.489	7.774	0.124	OK
23.000	15 min Summer	0	DF348	PS25	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	0	RE348A	PS25	0.000	0.000	0.000	0.000	OK
25.000	15 min Summer	0	RWP348B	PS25	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
23.001	30 min Summer	26	PS25	S128	0.075	0.000	0.000	0.000	OK
11.007	960 min Summer	641	S128	S172	0.627	0.287	4.309	0.005	OK
11.008	960 min Summer	641	S172	S92	0.671	0.252	4.346	0.007	OK
26.000	15 min Summer	9	RE348B	PS238	0.089	1.081	8.006	1.184	OK
26.001	15 min Summer	9	PS238	PS239	0.066	1.445	7.983	0.902	OK
26.002	15 min Summer	9	PS239	PS200	0.051	1.983	7.968	0.522	OK
27.000	15 min Summer	0	RE349A	PS200	0.000	0.000	0.000	0.000	OK
28.000	30 min Summer	22	DF350	PS200	0.027	0.837	1.183	0.022	OK
26.003	60 min Summer	35	PS200	S92	0.092	1.688	6.322	0.154	OK
29.000	120 min Summer	191	S177	S92	0.300	0.060	4.258	0.055	Surcharged
11.009	960 min Summer	1204	S92	S93	0.720	0.283	10.890	0.009	OK
30.000	30 min Summer	22	S109(D)	S93	0.083	0.118	1.184	0.025	OK
11.010	600 min Summer	2159	S93	S86	0.375	0.714	6.940	0.042	Surcharged
1.014	60 min Winter	69	S86	S176	0.375	0.294	8.126	0.069	Surcharged
1.015	60 min Winter	69	S176	S87	0.375	0.082	8.100	0.070	Surcharged
1.016	15 min Winter	16	S87	S163	0.375	0.825	16.270	0.166	Surcharged
31.000	15 min Summer	0	RWP301A	RE301A	0.000	0.000	0.000	0.000	OK
31.001	15 min Summer	9	RE301A	PS363	0.048	0.000	0.000	0.000	OK
31.002	15 min Summer	9	PS363	PS362	0.089	0.891	6.534	1.074	OK
32.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
32.001	15 min Summer	0	RE302A	PS365	0.000	0.000	0.000	0.000	OK
33.000	15 min Summer	0	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
32.002	15 min Summer	9	PS365	PS362	0.015	0.000	0.000	0.000	OK
34.000	15 min Summer	16	DF302	PS362	0.051	0.695	1.815	0.064	OK
31.003	15 min Summer	9	PS362	S69	0.078	0.884	8.194	0.543	OK
31.004	15 min Summer	9	S69	S98	0.195	1.069	39.210	1.253	OK
31.005	15 min Summer	10	S98	S70	0.254	1.471	70.159	0.710	OK
35.000	15 min Summer	0	RE333B	PS273	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	10	PS273	PS274	0.046	0.000	0.000	0.000	OK
36.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
36.001	15 min Summer	10	RE333A	PS274	0.046	0.000	0.000	0.000	OK
37.000	15 min Summer	17	DF330	PS274	0.075	0.658	1.935	0.045	OK
38.000	15 min Summer	16	DF331	PS274	0.074	0.552	1.302	0.018	OK
35.002	15 min Summer	11	PS274	S70	0.146	0.714	6.195	0.396	OK
31.006	15 min Summer	9	S70	S117	0.375	1.245	98.278	0.578	Surcharged
39.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
39.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
42.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
39.002	15 min Summer	0	PS261	S117	0.000	0.000	0.000	0.000	OK
43.000	30 min Summer	22	PS206	S117	0.081	1.186	1.181	0.025	OK
31.007	15 min Winter	9	S117	S114	0.375	1.104	101.965	0.622	Surcharged
44.000	15 min Summer	8	RE330B	PS20	0.079	0.886	5.909	0.966	OK
44.001	15 min Summer	9	PS20	PS23	0.078	0.896	5.869	0.955	OK
45.000	15 min Summer	11	RWP330A	RE330A	0.053	0.144	0.322	0.043	OK
45.001	15 min Summer	8	RE330A	PS23	0.064	1.217	6.475	0.737	OK
46.000	15 min Summer	15	S115	PS23	0.054	0.721	1.076	0.021	OK
44.002	15 min Summer	10	PS23	PS10	0.125	1.176	12.489	0.592	OK
47.000	15 min Summer	0	RWP325C	RE325A	0.000	0.000	0.000	0.000	OK
48.000	15 min Summer	0	ACO325	RE325A	0.000	0.000	0.000	0.000	OK
47.001	15 min Summer	0	RE325A	PS16	0.000	0.000	0.000	0.000	OK
47.002	15 min Summer	10	PS16	PS10	0.050	0.000	0.000	0.000	OK
49.000	15 min Summer	8	RWP325B	RE325B	0.027	0.000	0.000	0.000	OK
49.001	15 min Summer	10	RE325B	PS10	0.073	1.979	8.410	0.542	OK
50.000	15 min Summer	17	DF326	PS10	0.079	0.942	1.564	0.032	OK
44.003	15 min Summer	10	PS10	S114	0.150	2.100	19.868	0.494	Surcharged
31.008	15 min Winter	9	S114	S71	0.375	1.155	127.531	0.816	Surcharged
51.000	15 min Summer	9	YG313	PS257	0.111	0.929	11.053	0.481	OK
52.000	15 min Summer	9	YG316	PS257	0.075	0.000	0.000	0.000	OK
51.001	15 min Summer	9	PS257	PS258	0.150	0.794	13.301	0.895	Surcharged
53.000	15 min Summer	8	RE313A	PS258	0.050	0.000	0.000	0.000	OK
54.000	15 min Summer	8	RE318B	PS258	0.078	1.046	5.442	0.622	OK
51.002	15 min Summer	9	PS258	S71	0.137	1.079	18.278	1.249	OK
55.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
55.001	15 min Summer	0	RE324A	PS5	0.000	0.000	0.000	0.000	OK
55.002	15 min Summer	0	PS5	PS6	0.000	0.000	0.000	0.000	OK
56.000	30 min Summer	24	DF324	PS6	0.023	1.032	1.786	0.072	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
55.003	30 min Summer	24	PS6	S71	0.082	1.587	1.787	0.031	OK
31.009	15 min Winter	10	S71	S72	0.375	1.624	178.848	1.213	Surcharged
57.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	8	GY319	PS285	0.036	0.695	2.241	0.135	OK
57.001	15 min Summer	8	PS285	PS286	0.059	0.345	2.227	0.118	OK
59.000	15 min Summer	8	RE319B	PS286	0.044	1.103	3.689	0.401	OK
60.000	15 min Summer	8	RWP319D	PS286	0.017	0.000	0.000	0.000	OK
57.002	15 min Summer	8	PS286	PS283	0.083	0.949	9.561	0.579	OK
61.000	15 min Summer	0	RE320A	PS288	0.000	0.000	0.000	0.000	OK
62.000	15 min Summer	8	GY320	PS288	0.038	0.630	2.228	0.144	OK
61.001	15 min Summer	8	PS288	PS283	0.060	0.335	2.211	0.142	OK
63.000	15 min Summer	8	RWP320D	PS283	0.016	0.000	0.000	0.000	OK
57.003	15 min Summer	9	PS283	S72	0.081	1.201	11.698	0.577	OK
64.000	15 min Summer	0	GY279	S72	0.000	0.000	0.000	0.000	OK
31.010	30 min Winter	21	S72	S164	0.375	1.709	161.831	1.290	Surcharged
31.011	30 min Winter	21	S164	S163	0.375	2.259	161.314	0.486	Surcharged
1.017	480 min Winter	635	S163	S161	0.375	0.087	9.621	0.044	Surcharged
1.018	960 min Summer	1426	S161	S162	0.225	0.075	3.000	0.045	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving1	30 min Summer	23	5.733	0.036	1.444			OK
Permeable Paving2	30 min Summer	23	5.600	0.036	1.441			OK
Permeable Paving3	30 min Summer	22	5.523	0.032	1.305			OK
Permeable Paving4	30 min Summer	23	5.355	0.036	1.439			OK
Permeable Paving 89	480 min Winter	463	5.128	0.239	0.442			OK
Permeable Paving23	30 min Summer	22	5.453	0.029	1.041			OK
Permeable Paving22	60 min Summer	40	5.581	0.049	2.421			OK
Permeable Paving21	30 min Summer	23	5.401	0.040	1.826			OK
Permeable Paving19	30 min Summer	23	5.215	0.054	2.770			OK
Permeable Paving20	30 min Summer	22	5.364	0.029	1.080			OK
Permeable Paving6	30 min Summer	22	5.203	0.031	1.161			OK
Permeable Paving5	30 min Summer	22	5.031	0.031	1.163			OK
Permeable Paving18	30 min Summer	24	5.714	0.043	1.963			OK
Permeable Paving8	60 min Summer	40	5.126	0.048	2.340			OK
Permeable Paving7	30 min Summer	23	5.301	0.035	1.388			OK
Permeable Paving11	30 min Summer	22	5.138	0.031	1.159			OK
Permeable Paving10	30 min Summer	22	5.146	0.031	1.162			OK
Permeable Paving9	30 min Summer	23	5.113	0.040	1.862			OK
Permeable Paving12	30 min Summer	23	4.899	0.040	1.867			OK

Return Period (yrs) + Climate Change (%):

100yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP337B	15 min Summer	10	5.866	0.266	0.220		Flood Risk
RE337A	15 min Summer	10	5.865	0.315	7.740		Flood Risk
RWP335D	15 min Summer	11	5.708	0.108	0.136		Surcharged
PS227	15 min Summer	11	5.707	0.282	6.469		Surcharged
RE334A	15 min Summer	10	5.941	0.341	7.740		Flood Risk
RWP334A	15 min Summer	11	5.752	0.152	0.000		Surcharged
PS222	15 min Summer	11	5.752	0.302	6.648		Surcharged
PS223	15 min Summer	11	5.580	0.280	13.044		Surcharged
RWP337A	15 min Summer	0	5.600	0.000	0.000		OK
RE337B	15 min Summer	0	5.550	0.000	0.000		OK
PS224	60 min Summer	36	5.335	0.085	10.393		OK
S104	30 min Summer	22	5.442	0.017	2.361		OK
S80	720 min Winter	704	5.317	0.835	0.252		Surcharged
S81	720 min Winter	690	5.317	0.888	0.067		Surcharged
S107	30 min Summer	22	5.322	0.022	2.357		OK
S105	720 min Winter	690	5.317	0.096	0.031		OK
S106	720 min Winter	694	5.317	0.999	0.232		Surcharged
S108	720 min Winter	714	5.319	0.269	0.022		Surcharged
S82	720 min Winter	709	5.317	1.214	0.614		Flood Risk
S170	720 min Winter	707	5.329	0.451	0.000		Flood Risk
S83	600 min Winter	591	5.318	1.286	4.946		Surcharged
S152	1440 min Summer	1413	4.696	0.846	0.628		Surcharged
S174	1440 min Summer	1413	4.696	0.862	2.284		Surcharged
S150	1440 min Summer	1413	4.695	0.970	1.748		Surcharged
S175	1440 min Summer	1413	4.695	0.987	0.016		Surcharged
RWP338B	15 min Summer	9	5.452	0.002	0.000		OK
RE338A	15 min Summer	8	5.452	0.102	16.197		OK
DF341	30 min Summer	21	5.267	0.017	1.716		OK
PS336	480 min Summer	476	5.239	0.139	0.241		OK
DF338	30 min Summer	23	5.398	0.038	3.625		OK
PS31	480 min Summer	477	5.239	0.064	0.116		OK
PS32	480 min Summer	476	5.239	0.289	0.420		Surcharged
RWP342B	15 min Summer	0	5.300	0.000	0.000		OK
PS33	480 min Summer	476	5.239	0.539	0.421		Surcharged
S130	480 min Summer	476	5.239	1.216	0.551		Surcharged
RWP343A	15 min Summer	10	5.427	0.127	0.000		Surcharged
RE343B	15 min Summer	10	5.426	0.151	7.031		Surcharged
PS232	15 min Summer	10	5.261	0.111	7.307		Surcharged
RE343A	15 min Summer	0	5.300	0.000	0.000		OK
RWP344D	15 min Summer	0	5.300	0.000	0.000		OK
PS233	480 min Summer	476	5.239	0.239	0.108		Surcharged
DF344	30 min Summer	22	5.285	0.035	2.783		OK
RE345A	15 min Summer	0	5.250	0.000	0.000		OK
PS29	480 min Summer	476	5.239	0.389	0.182		Surcharged
S129	480 min Summer	476	5.239	1.300	0.717		Surcharged
RE345B	15 min Summer	10	5.760	0.510	9.731		Flood Risk
PS243	15 min Summer	10	5.381	0.281	10.187		Surcharged
DF347	480 min Summer	477	5.239	0.264	0.070		Surcharged
PS240	15 min Summer	0	5.250	0.000	0.000		OK
PS27	480 min Summer	476	5.239	0.389	0.298		Surcharged
DF348	480 min Summer	469	5.239	0.289	0.000		Surcharged
RE348A	480 min Summer	476	5.239	0.164	0.000		Surcharged
RWP348B	480 min Summer	472	5.239	0.164	0.015		Surcharged
PS25	480 min Summer	472	5.239	0.389	0.036		Surcharged
S128	480 min Summer	476	5.239	1.427	1.363		Surcharged
S172	480 min Summer	476	5.239	1.475	1.488		Flood Risk
RE348B	15 min Summer	10	5.525	0.450	9.731		Flood Risk
PS238	480 min Summer	476	5.239	0.339	0.153		Surcharged
PS239	480 min Summer	477	5.239	0.539	0.143		Surcharged
RE349A	480 min Summer	473	5.239	0.164	0.000		Surcharged
DF350	480 min Summer	477	5.239	0.239	0.001		Surcharged
PS200	480 min Summer	477	5.239	0.759	0.194		Surcharged
S177	480 min Summer	476	5.239	1.539	0.001		Surcharged
S92	480 min Summer	475	5.239	1.514	2.156		Flood Risk

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S109(D)	480 min Summer	477	5.239	0.514	0.003		Flood Risk
S93	480 min Summer	475	5.239	1.589	2.162		Flood Risk
S86	1440 min Summer	1413	4.687	1.087	2.008		Surcharged
S176	1440 min Summer	1413	4.687	1.106	2.153		Flood Risk
S87	1440 min Summer	1413	4.682	1.132	3.523		Flood Risk
RWP301A	15 min Summer	10	5.778	0.078	0.000		OK
RE301A	15 min Summer	10	5.778	0.103	0.033		Surcharged
PS363	15 min Summer	10	5.780	0.210	7.794		Surcharged
RWP301C	15 min Summer	0	5.650	0.000	0.000		OK
RE302A	15 min Summer	0	5.600	0.000	0.000		OK
RWP302B	15 min Summer	0	5.650	0.000	0.000		OK
PS365	15 min Summer	11	5.541	0.001	0.000		OK
DF302	15 min Summer	10	5.536	0.036	2.649		OK
PS362	15 min Summer	10	5.537	0.167	9.308		Surcharged
S69	15 min Summer	10	5.499	0.799	46.911		Surcharged
S98	15 min Summer	10	5.230	0.730	85.096		Surcharged
RE333B	15 min Summer	0	5.150	0.000	0.000		OK
PS273	15 min Summer	11	5.056	0.356	0.000		Surcharged
RWP333B	15 min Summer	0	5.150	0.000	0.000		OK
RE333A	15 min Summer	0	5.100	0.000	0.000		OK
DF330	15 min Summer	10	5.062	0.137	0.839		OK
DF331	30 min Summer	21	5.118	0.018	2.302		OK
PS274	15 min Summer	10	5.058	0.578	3.215		Surcharged
S70	15 min Summer	10	5.051	0.871	130.685		Surcharged
RE309B	15 min Summer	0	5.350	0.000	0.000		OK
RWP312B	15 min Summer	0	5.375	0.000	0.000		OK
PS260	15 min Summer	0	5.155	0.000	0.000		OK
RE309A	15 min Summer	0	5.350	0.000	0.000		OK
RWP312A	15 min Summer	0	5.375	0.000	0.000		OK
PS261	15 min Summer	11	4.994	0.009	0.000		OK
PS206	15 min Summer	10	4.989	0.039	1.456		OK
S117	15 min Summer	10	4.986	0.906	137.942		Surcharged
RE330B	15 min Summer	10	5.242	0.372	6.891		Flood Risk
PS20	15 min Summer	11	5.084	0.409	5.276		Surcharged
RWP330A	15 min Summer	11	5.136	0.211	0.000		Surcharged
RE330A	15 min Summer	11	5.135	0.235	5.004		Surcharged
S115	15 min Summer	11	4.996	0.096	1.161		OK
PS23	15 min Summer	11	4.996	0.496	11.751		Surcharged
RWP325C	15 min Summer	12	4.950	0.025	0.000		OK
ACO325	15 min Summer	12	4.950	0.055	0.000		OK
RE325A	15 min Summer	12	4.950	0.080	0.852		OK
PS16	15 min Summer	11	4.949	0.149	1.944		Surcharged
RWP325B	15 min Summer	10	5.061	0.136	0.732		Surcharged
RE325B	15 min Summer	10	5.061	0.211	9.729		Surcharged
DF326	15 min Summer	11	4.961	0.111	1.363		OK
PS10	15 min Summer	11	4.959	0.559	20.667		Surcharged
S114	15 min Summer	10	4.909	0.924	160.797		Surcharged
YG313	15 min Summer	9	5.271	0.121	15.420		OK
YG316	15 min Summer	10	5.127	0.047	0.000		OK
PS257	15 min Summer	10	5.127	0.347	17.013		Surcharged
RE313A	15 min Summer	0	5.300	0.000	0.000		OK
RE318B	15 min Summer	9	5.176	0.151	7.596		Surcharged
PS258	15 min Summer	10	5.007	0.312	24.013		Surcharged
RWP324A	15 min Summer	0	4.925	0.000	0.000		OK
RE324A	15 min Summer	0	4.900	0.000	0.000		OK
PS5	15 min Summer	11	4.796	0.096	0.000		OK
DF324	15 min Summer	11	4.799	0.074	1.364		OK
PS6	15 min Summer	10	4.796	0.296	2.614		Surcharged
S71	15 min Summer	10	4.795	0.905	231.492		Surcharged
RE319A	15 min Summer	0	5.000	0.000	0.000		OK
GY319	15 min Summer	8	4.830	0.045	3.274		OK
PS285	15 min Summer	8	4.791	0.041	3.253		OK
RE319B	15 min Summer	8	4.956	0.056	5.382		OK
RWP319D	15 min Summer	0	5.000	0.000	0.000		OK
PS286	15 min Summer	8	4.759	0.109	13.973		OK
RE320A	15 min Summer	0	4.775	0.000	0.000		OK
GY320	15 min Summer	8	4.697	0.047	3.256		OK
PS288	1440 min Summer	1443	4.677	0.057	0.007		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP320D	15 min Summer	0	4.800	0.000	0.000		OK
PS283	1440 min Summer	1443	4.677	0.127	0.027		OK
GY279	1440 min Summer	1440	4.675	0.060	0.001		OK
S72	1440 min Summer	1443	4.675	1.025	0.664		Surcharged
S164	1440 min Summer	1440	4.675	1.075	0.195		Flood Risk
S163	1440 min Summer	1440	4.675	1.175	1.995		Flood Risk
S161	1440 min Summer	1440	4.675	1.225	2.500		Flood Risk
S162	15 min Summer	0	3.900	0.500	3.011		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	14	RWP337B	RE337A	0.100	0.180	1.224	0.093	Surcharged
1.001	15 min Winter	9	RE337A	PS227	0.100	0.893	7.016	1.130	Surcharged
2.000	15 min Summer	14	RWP335D	PS227	0.100	0.174	0.890	0.091	Surcharged
1.002	15 min Winter	11	PS227	PS223	0.100	0.768	6.030	0.965	Surcharged
3.000	15 min Winter	9	RE334A	PS222	0.100	1.001	7.860	1.124	Surcharged
4.000	15 min Winter	13	RWP334A	PS222	0.100	0.143	0.963	0.052	Surcharged
3.001	15 min Winter	10	PS222	PS223	0.100	0.838	6.578	1.026	Surcharged
1.003	60 min Summer	36	PS223	PS224	0.092	1.599	11.044	1.802	OK
5.000	15 min Summer	0	RWP337A	RE337B	0.000	0.000	0.000	0.000	OK
5.001	60 min Summer	36	RE337B	PS224	0.042	0.000	0.000	0.000	OK
1.004	60 min Summer	36	PS224	S80	0.092	2.019	10.913	0.757	OK
6.000	30 min Summer	22	S104	S80	0.083	1.622	2.364	0.030	OK
1.005	30 min Summer	22	S80	S81	0.300	0.837	14.207	0.182	Surcharged
1.006	15 min Winter	16	S81	S106	0.300	0.787	13.759	0.176	Surcharged
7.000	30 min Summer	22	S107	S106	0.086	0.961	2.362	0.050	OK
8.000	720 min Winter	1061	S105	S106	0.123	0.676	0.300	0.005	OK
1.007	60 min Summer	37	S106	S82	0.300	0.492	14.759	0.189	Surcharged
9.000	120 min Winter	495	S108	S82	0.150	0.648	1.664	0.033	Surcharged
1.008	60 min Summer	37	S82	S83	0.300	0.436	15.030	0.192	Surcharged
10.000	360 min Winter	869	S170	S83	0.300	0.163	11.273	0.021	Surcharged
1.009	240 min Winter	455	S83	S152	0.300	0.387	1.817	0.023	Surcharged
1.010	480 min Winter	850	S152	S174	0.375	0.250	5.904	0.053	Surcharged
1.011	1440 min Winter	1347	S174	S150	0.375	0.135	6.967	0.062	Surcharged
1.012	60 min Winter	66	S150	S175	0.375	0.073	8.014	0.075	Surcharged
1.013	1440 min Winter	1347	S175	S86	0.375	0.085	9.432	0.089	Surcharged
11.000	15 min Summer	9	RWP338B	RE338A	0.027	0.011	0.006	0.000	OK
11.001	15 min Summer	9	RE338A	PS336	0.109	1.227	16.091	0.783	OK
12.000	480 min Summer	476	DF341	PS336	0.071	0.256	0.431	0.008	OK
11.002	480 min Summer	476	PS336	PS32	0.145	0.613	2.863	0.142	OK
13.000	30 min Summer	23	DF338	PS31	0.042	0.908	3.625	0.146	OK
13.001	480 min Summer	477	PS31	PS32	0.107	0.333	1.228	0.068	OK
11.003	240 min Summer	188	PS32	PS33	0.150	1.296	7.813	0.424	Surcharged
14.000	120 min Summer	95	RWP342B	PS33	0.050	0.000	0.000	0.000	OK
11.004	180 min Summer	124	PS33	S130	0.150	2.137	9.227	0.196	Surcharged
11.005	180 min Summer	119	S130	S129	0.750	0.564	10.308	0.012	Surcharged
15.000	15 min Summer	11	RWP343A	RE343B	0.100	0.236	1.325	0.147	Surcharged
15.001	15 min Summer	9	RE343B	PS232	0.100	0.966	7.452	1.155	Surcharged
15.002	480 min Summer	476	PS232	PS233	0.095	0.775	1.287	0.188	OK
16.000	180 min Summer	168	RE343A	PS233	0.050	0.000	0.000	0.000	OK
17.000	180 min Summer	168	RWP344D	PS233	0.050	0.000	0.000	0.000	OK
15.003	240 min Summer	189	PS233	PS29	0.100	1.160	2.206	0.191	Surcharged
18.000	240 min Winter	171	DF344	PS29	0.057	0.850	0.931	0.087	OK
19.000	120 min Summer	112	RE345A	PS29	0.050	0.000	0.000	0.000	OK
15.004	180 min Summer	141	PS29	S129	0.150	2.015	3.993	0.064	Surcharged
11.006	60 min Winter	58	S129	S128	0.750	0.459	18.692	0.021	Surcharged
20.000	15 min Winter	9	RE345B	PS243	0.100	1.239	9.730	1.501	Surcharged
20.001	480 min Summer	355	PS243	PS27	0.100	0.761	1.851	0.263	Surcharged
21.000	240 min Summer	197	DF347	PS27	0.150	0.756	1.940	0.109	Surcharged
22.000	120 min Summer	112	PS240	PS27	0.050	0.000	0.000	0.000	OK
20.002	180 min Summer	141	PS27	S128	0.150	2.046	6.434	0.103	Surcharged
23.000	600 min Summer	643	DF348	PS25	0.150	0.033	0.575	0.036	Surcharged
24.000	600 min Summer	643	RE348A	PS25	0.100	0.058	0.454	0.044	Surcharged
25.000	600 min Summer	644	RWP348B	PS25	0.100	0.083	0.655	0.036	Surcharged

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
23.001	960 min Summer	1026	PS25	S128	0.150	0.072	1.275	0.019	Surcharged
11.007	60 min Winter	51	S128	S172	0.750	0.499	32.085	0.037	Surcharged
11.008	60 min Winter	49	S172	S92	0.750	0.389	32.157	0.051	Surcharged
26.000	15 min Winter	9	RE348B	PS238	0.100	1.277	10.026	1.483	Surcharged
26.001	180 min Summer	141	PS238	PS239	0.100	1.250	3.903	0.441	Surcharged
26.002	180 min Summer	121	PS239	PS200	0.100	1.673	3.903	0.256	Surcharged
27.000	600 min Winter	619	RE349A	PS200	0.100	0.037	0.292	0.017	Surcharged
28.000	360 min Summer	261	DF350	PS200	0.150	0.499	0.597	0.011	Surcharged
26.003	60 min Winter	54	PS200	S92	0.150	1.630	6.825	0.166	Surcharged
29.000	960 min Summer	1884	S177	S92	0.300	0.135	9.553	0.123	Surcharged
11.009	960 min Winter	1825	S92	S93	0.750	0.189	43.533	0.037	Surcharged
30.000	360 min Winter	394	S109(D)	S93	0.150	0.636	1.874	0.040	Surcharged
11.010	1440 min Winter	4745	S93	S86	0.375	0.505	6.486	0.039	Surcharged
1.014	1440 min Winter	1347	S86	S176	0.375	0.192	10.875	0.092	Surcharged
1.015	1440 min Summer	1414	S176	S87	0.375	0.159	11.891	0.102	Surcharged
1.016	15 min Winter	12	S87	S163	0.375	0.905	19.507	0.198	Surcharged
31.000	15 min Summer	11	RWP301A	RE301A	0.089	0.301	0.964	0.089	OK
31.001	15 min Summer	11	RE301A	PS363	0.100	0.252	1.899	0.315	Surcharged
31.002	15 min Summer	10	PS363	PS362	0.100	1.048	8.060	1.324	Surcharged
32.000	15 min Summer	0	RWP301C	RE302A	0.000	0.000	0.000	0.000	OK
32.001	15 min Summer	11	RE302A	PS365	0.000	0.000	0.000	0.000	OK
33.000	15 min Summer	11	RWP302B	PS365	0.000	0.000	0.000	0.000	OK
32.002	15 min Summer	11	PS365	PS362	0.050	0.003	0.001	0.000	OK
34.000	15 min Summer	14	DF302	PS362	0.093	0.782	3.021	0.106	OK
31.003	15 min Summer	11	PS362	S69	0.150	0.925	13.547	0.899	Surcharged
31.004	15 min Winter	9	S69	S98	0.225	1.134	44.889	1.434	OK
31.005	15 min Winter	10	S98	S70	0.300	1.474	78.991	0.799	Surcharged
35.000	15 min Summer	9	RE333B	PS273	0.050	0.000	0.000	0.000	OK
35.001	15 min Winter	13	PS273	PS274	0.100	0.302	2.370	0.344	Surcharged
36.000	15 min Summer	0	RWP333B	RE333A	0.000	0.000	0.000	0.000	OK
36.001	15 min Summer	8	RE333A	PS274	0.050	0.000	0.000	0.000	OK
37.000	15 min Summer	12	DF330	PS274	0.143	0.745	4.214	0.098	OK
38.000	30 min Summer	21	DF331	PS274	0.084	0.638	2.298	0.032	OK
35.002	30 min Summer	22	PS274	S70	0.150	0.859	11.740	0.751	Surcharged
31.006	15 min Winter	10	S70	S117	0.375	1.250	117.203	0.689	Surcharged
39.000	15 min Summer	0	RE309B	PS260	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP312B	PS260	0.000	0.000	0.000	0.000	OK
39.001	15 min Summer	0	PS260	PS261	0.000	0.000	0.000	0.000	OK
41.000	15 min Summer	0	RE309A	PS261	0.000	0.000	0.000	0.000	OK
42.000	15 min Summer	0	RWP312A	PS261	0.000	0.000	0.000	0.000	OK
39.002	15 min Summer	11	PS261	S117	0.041	0.200	0.114	0.008	OK
43.000	15 min Summer	11	PS206	S117	0.094	1.288	2.051	0.043	OK
31.007	15 min Winter	10	S117	S114	0.375	1.157	127.733	0.780	Surcharged
44.000	30 min Summer	16	RE330B	PS20	0.100	0.887	6.815	1.114	Surcharged
44.001	15 min Winter	14	PS20	PS23	0.100	0.898	6.912	1.125	Surcharged
45.000	15 min Winter	13	RWP330A	RE330A	0.100	0.330	1.850	0.246	Surcharged
45.001	15 min Winter	9	RE330A	PS23	0.100	1.251	8.009	0.912	Surcharged
46.000	15 min Summer	12	S115	PS23	0.123	0.825	2.446	0.048	OK
44.002	15 min Winter	13	PS23	PS10	0.150	1.168	15.810	0.749	Surcharged
47.000	15 min Summer	12	RWP325C	RE325A	0.053	0.137	0.578	0.042	OK
48.000	15 min Summer	13	ACO325	RE325A	0.068	0.374	0.537	0.050	OK
47.001	15 min Summer	13	RE325A	PS16	0.090	0.401	1.520	0.233	OK
47.002	30 min Summer	21	PS16	PS10	0.100	0.457	2.718	0.253	Surcharged
49.000	15 min Summer	12	RWP325B	RE325B	0.100	0.210	1.518	0.097	Surcharged
49.001	15 min Winter	9	RE325B	PS10	0.100	1.993	10.848	0.699	Surcharged
50.000	15 min Summer	12	DF326	PS10	0.131	1.076	2.946	0.061	OK
44.003	30 min Summer	21	PS10	S114	0.150	2.093	27.204	0.677	Surcharged
31.008	15 min Winter	11	S114	S71	0.375	1.399	154.544	0.989	Surcharged
51.000	15 min Summer	9	YG313	PS257	0.135	0.980	15.539	0.676	OK
52.000	15 min Summer	11	YG316	PS257	0.099	0.038	0.348	0.003	OK
51.001	15 min Winter	9	PS257	PS258	0.150	0.980	17.322	1.166	Surcharged
53.000	15 min Summer	7	RE313A	PS258	0.050	0.000	0.000	0.000	OK
54.000	15 min Summer	8	RE318B	PS258	0.100	1.039	7.131	0.815	Surcharged
51.002	30 min Summer	18	PS258	S71	0.150	1.356	23.574	1.611	Surcharged
55.000	15 min Summer	0	RWP324A	RE324A	0.000	0.000	0.000	0.000	OK
55.001	15 min Summer	11	RE324A	PS5	0.048	0.000	0.000	0.000	OK
55.002	15 min Summer	12	PS5	PS6	0.098	0.308	1.771	0.252	OK
56.000	15 min Summer	15	DF324	PS6	0.112	1.156	2.510	0.100	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
55.003	15 min Winter	13	PS6	S71	0.150	1.720	5.880	0.102	Surcharged
31.009	15 min Winter	10	S71	S72	0.375	1.977	218.406	1.481	Surcharged
57.000	15 min Summer	0	RE319A	PS285	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	8	GY319	PS285	0.043	0.770	3.253	0.195	OK
57.001	15 min Summer	8	PS285	PS286	0.075	0.365	3.235	0.171	OK
59.000	15 min Summer	8	RE319B	PS286	0.057	1.178	5.356	0.582	OK
60.000	15 min Summer	8	RWP319D	PS286	0.030	0.000	0.000	0.000	OK
57.002	15 min Summer	8	PS286	PS283	0.108	1.018	13.845	0.838	OK
61.000	1440 min Summer	1443	RE320A	PS288	0.004	0.000	0.000	0.000	OK
62.000	15 min Summer	8	GY320	PS288	0.046	0.697	3.234	0.208	OK
61.001	1440 min Summer	1443	PS288	PS283	0.092	0.176	0.335	0.022	OK
63.000	1440 min Summer	1443	RWP320D	PS283	0.038	0.000	0.000	0.000	OK
57.003	1440 min Summer	1755	PS283	S72	0.138	0.624	1.344	0.066	OK
64.000	1440 min Summer	1613	GY279	S72	0.105	0.032	0.346	0.013	OK
31.010	15 min Winter	10	S72	S164	0.375	2.091	227.609	1.814	Surcharged
31.011	15 min Winter	10	S164	S163	0.375	2.998	226.608	0.683	Surcharged
1.017	120 min Summer	406	S163	S161	0.375	0.085	9.381	0.043	Surcharged
1.018	600 min Winter	2295	S161	S162	0.225	0.075	3.000	0.045	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
Permeable Paving1	30 min Summer	21	5.745	0.048	2.540			OK
Permeable Paving2	30 min Summer	21	5.612	0.048	2.535			OK
Permeable Paving3	30 min Summer	21	5.535	0.044	2.052			OK
Permeable Paving4	30 min Summer	21	5.367	0.048	2.531			OK
Permeable Paving 89	600 min Winter	582	5.316	0.427	0.459			OK
Permeable Paving23	30 min Summer	21	5.463	0.039	1.637			OK
Permeable Paving22	30 min Summer	23	5.597	0.064	3.642			OK
Permeable Paving21	30 min Summer	22	5.415	0.054	2.749			OK
Permeable Paving19	480 min Summer	477	5.239	0.078	0.106			OK
Permeable Paving20	30 min Summer	21	5.374	0.040	1.699			OK
Permeable Paving6	480 min Summer	476	5.239	0.067	0.068			OK
Permeable Paving5	480 min Summer	476	5.239	0.239	0.068			OK
Permeable Paving18	30 min Summer	22	5.729	0.058	3.275			OK
Permeable Paving8	30 min Summer	23	5.142	0.064	3.522			OK
Permeable Paving7	30 min Summer	21	5.313	0.048	2.441			OK
Permeable Paving11	30 min Summer	21	5.149	0.041	1.822			OK
Permeable Paving10	30 min Summer	21	5.157	0.041	1.827			OK
Permeable Paving9	30 min Summer	22	5.127	0.055	2.804			OK
Permeable Paving12	30 min Summer	22	4.913	0.055	2.812			OK