

Jubb Consulting Engineers Limited		Page 1
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model	
Return Period (years)	100
FEH Rainfall Version	1999
Site Location	GB 386850 145550 ST 86850 45550
C (1km)	-0.027
D1 (1km)	0.363
D2 (1km)	0.417
D3 (1km)	0.273
E (1km)	0.289
F (1km)	2.484
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	0
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.341	4-8	1.261	8-12	0.072

Total Area Contributing (ha) = 1.673

Total Pipe Volume (m³) = 94.140

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	14.185	1.045	13.6	0.010	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.002	17.662	0.220	80.3	0.038	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	6.793	1.255	5.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	4.02	138.270	0.010	0.0	0.0	0.0	1.09	8.6	1.4
1.001	50.00	4.13	138.250	0.020	0.0	0.0	0.0	2.11	16.6	2.7
1.002	50.00	4.33	137.080	0.058	0.0	0.0	0.0	1.46	58.1	7.9
2.000	50.00	4.02	138.260	0.010	0.0	0.0	0.0	1.09	8.6	1.4
2.001	50.00	4.05	138.240	0.010	0.0	0.0	0.0	3.35	26.3	1.4

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.003	2.967	0.037	80.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.004	3.349	0.033	101.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
3.001	7.899	1.385	5.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.005	10.872	0.109	99.7	0.015	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
4.001	7.533	1.639	4.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.006	10.269	0.103	99.7	0.017	0.00	0.0	0.600	o	300	Pipe/Conduit	
5.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
5.001	7.162	1.827	3.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.007	11.677	0.117	99.8	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.008	7.447	0.074	100.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
6.000	1.000	0.020	50.0	0.026	4.00	0.0	0.600	o	100	Pipe/Conduit	
6.001	8.779	0.790	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.002	11.630	0.490	23.7	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	
7.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
7.001	5.711	0.515	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.003	10.709	0.450	23.8	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.003	50.00	4.36	136.860	0.068	0.0	0.0	0.0	1.46	58.1	9.2
1.004	50.00	4.40	136.748	0.068	0.0	0.0	0.0	1.56	110.3	9.2
3.000	50.00	4.02	138.320	0.014	0.0	0.0	0.0	1.09	8.6	1.9
3.001	50.00	4.06	138.300	0.014	0.0	0.0	0.0	3.26	25.6	1.9
1.005	50.00	4.51	136.715	0.097	0.0	0.0	0.0	1.57	111.3	13.1
4.000	50.00	4.02	138.465	0.014	0.0	0.0	0.0	1.09	8.6	1.9
4.001	50.00	4.05	138.445	0.014	0.0	0.0	0.0	3.63	28.5	1.9
1.006	50.00	4.62	136.606	0.128	0.0	0.0	0.0	1.57	111.3	17.3
5.000	50.00	4.02	138.550	0.009	0.0	0.0	0.0	1.09	8.6	1.2
5.001	50.00	4.05	138.530	0.009	0.0	0.0	0.0	3.93	30.9	1.2
1.007	50.00	4.75	136.503	0.137	0.0	0.0	0.0	1.57	111.2	18.6
1.008	50.00	4.83	136.386	0.137	0.0	0.0	0.0	1.57	110.8	18.6
6.000	50.00	4.02	141.160	0.026	0.0	0.0	0.0	1.09	8.6	3.5
6.001	50.00	4.08	141.140	0.026	0.0	0.0	0.0	2.33	18.3	3.5
6.002	50.00	4.17	140.300	0.040	0.0	0.0	0.0	2.08	36.7	5.4
7.000	50.00	4.02	140.395	0.013	0.0	0.0	0.0	1.09	8.6	1.8
7.001	50.00	4.06	140.375	0.013	0.0	0.0	0.0	2.33	18.3	1.8
6.003	50.00	4.26	139.810	0.067	0.0	0.0	0.0	2.07	36.6	9.1

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
8.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
8.001	5.359	0.445	12.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.004	14.513	0.610	23.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
9.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
9.001	6.287	0.530	11.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.005	16.038	0.450	35.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
10.000	1.775	0.040	44.4	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
10.001	5.975	0.500	12.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.006	5.575	0.160	34.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
11.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
11.001	9.935	0.780	12.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
6.007	7.954	0.229	34.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
6.008	9.917	1.449	6.8	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.009	48.885	0.235	208.0	0.056	0.00	0.0	0.600	o	375	Pipe/Conduit	
12.000	1.550	0.030	51.7	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
12.001	4.297	0.455	9.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.002	15.280	0.191	80.0	0.006	0.00	0.0	0.600	o	150	Pipe/Conduit	
13.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit	
13.001	6.156	0.711	8.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
8.000	50.00	4.02	139.875	0.013	0.0	0.0	0.0	1.09	8.6	1.8
8.001	50.00	4.06	139.855	0.013	0.0	0.0	0.0	2.24	17.6	1.8
6.004	50.00	4.37	139.360	0.080	0.0	0.0	0.0	2.07	36.6	10.8
9.000	50.00	4.02	139.350	0.013	0.0	0.0	0.0	1.09	8.6	1.8
9.001	50.00	4.06	139.330	0.013	0.0	0.0	0.0	2.26	17.7	1.8
6.005	50.00	4.53	138.750	0.093	0.0	0.0	0.0	1.69	29.9	12.6
10.000	50.00	4.03	138.890	0.013	0.0	0.0	0.0	1.16	9.1	1.8
10.001	50.00	4.07	138.850	0.013	0.0	0.0	0.0	2.25	17.7	1.8
6.006	50.00	4.59	138.300	0.106	0.0	0.0	0.0	1.71	30.2	14.4
11.000	50.00	4.02	138.990	0.013	0.0	0.0	0.0	1.09	8.6	1.8
11.001	50.00	4.09	138.970	0.013	0.0	0.0	0.0	2.18	17.1	1.8
6.007	50.00	4.66	138.140	0.119	0.0	0.0	0.0	1.71	30.3	16.1
6.008	50.00	4.71	137.911	0.134	0.0	0.0	0.0	3.88	68.5	18.1
1.009	50.00	5.48	136.237	0.327	0.0	0.0	0.0	1.25	138.3	44.3
12.000	50.00	4.02	138.425	0.010	0.0	0.0	0.0	1.07	8.4	1.4
12.001	50.00	4.05	138.395	0.010	0.0	0.0	0.0	2.53	19.9	1.4
12.002	50.00	4.28	137.890	0.016	0.0	0.0	0.0	1.12	19.9	2.2
13.000	50.00	4.02	138.480	0.019	0.0	0.0	0.0	1.09	8.6	2.6
13.001	50.00	4.05	138.460	0.019	0.0	0.0	0.0	2.64	20.8	2.6

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
12.003	15.299	0.191	80.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
14.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit	
14.001	5.138	1.122	4.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.004	15.953	0.199	80.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
12.005	11.218	0.178	62.9	0.019	0.00	0.0	0.600	o	225	Pipe/Conduit	
15.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
15.001	6.716	1.619	4.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.006	15.689	0.249	63.0	0.006	0.00	0.0	0.600	o	225	Pipe/Conduit	
16.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
16.001	5.829	1.658	3.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.007	17.988	0.286	62.9	0.060	0.00	0.0	0.600	o	225	Pipe/Conduit	
17.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
17.001	5.516	1.709	3.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.008	23.129	0.369	62.7	0.016	0.00	0.0	0.600	o	225	Pipe/Conduit	
18.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
18.001	6.574	1.963	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.010	10.672	0.024	450.0	0.050	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.011	27.837	0.062	450.0	0.069	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
12.003	50.00	4.51	137.699	0.035	0.0	0.0	0.0	1.12	19.9	4.7
14.000	50.00	4.02	138.700	0.019	0.0	0.0	0.0	1.09	8.6	2.6
14.001	50.00	4.04	138.680	0.019	0.0	0.0	0.0	3.64	28.6	2.6
12.004	50.00	4.74	137.508	0.054	0.0	0.0	0.0	1.12	19.9	7.3
12.005	50.00	4.85	137.234	0.073	0.0	0.0	0.0	1.65	65.7	9.9
15.000	50.00	4.02	138.820	0.012	0.0	0.0	0.0	1.09	8.6	1.6
15.001	50.00	4.04	138.800	0.012	0.0	0.0	0.0	3.82	30.0	1.6
12.006	50.00	5.01	137.056	0.091	0.0	0.0	0.0	1.65	65.6	12.3
16.000	50.00	4.02	138.610	0.018	0.0	0.0	0.0	1.09	8.6	2.4
16.001	50.00	4.04	138.590	0.018	0.0	0.0	0.0	4.16	32.6	2.4
12.007	50.00	5.19	136.807	0.169	0.0	0.0	0.0	1.65	65.7	22.9
17.000	50.00	4.02	138.375	0.018	0.0	0.0	0.0	1.09	8.6	2.4
17.001	50.00	4.04	138.355	0.018	0.0	0.0	0.0	4.34	34.1	2.4
12.008	50.00	5.43	136.521	0.203	0.0	0.0	0.0	1.65	65.8	27.5
18.000	50.00	4.02	138.260	0.011	0.0	0.0	0.0	1.09	8.6	1.5
18.001	50.00	4.04	138.240	0.011	0.0	0.0	0.0	4.26	33.4	1.5
1.010	50.00	5.63	135.777	0.591	0.0	0.0	0.0	1.14	322.7	80.0
1.011	50.00	6.04	135.753	0.660	0.0	0.0	0.0	1.14	322.7	89.4

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PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
19.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
19.001	5.505	0.505	10.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.002	8.366	0.085	98.4	0.017	0.00	0.0	0.600	o	150	Pipe/Conduit	
20.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
20.001	5.123	0.690	7.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.003	10.641	0.108	98.5	0.013	0.00	0.0	0.600	o	150	Pipe/Conduit	
21.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
21.001	4.539	1.063	4.3	0.003	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.004	8.742	0.090	97.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
22.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
22.001	5.941	1.503	4.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.005	11.645	0.120	97.0	0.003	0.00	0.0	0.600	o	150	Pipe/Conduit	
23.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
23.001	5.573	1.863	3.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.006	17.809	0.183	97.3	0.018	0.00	0.0	0.600	o	150	Pipe/Conduit	
19.007	10.569	0.109	97.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
24.000	2.000	0.040	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
24.001	3.210	0.060	53.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
24.002	7.966	0.080	99.6	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.000	50.00	4.02	139.920	0.011	0.0	0.0	0.0	1.09	8.6	1.5
19.001	50.00	4.05	139.900	0.011	0.0	0.0	0.0	2.35	18.5	1.5
19.002	50.00	4.19	139.345	0.028	0.0	0.0	0.0	1.01	17.9	3.8
20.000	50.00	4.02	140.020	0.010	0.0	0.0	0.0	1.09	8.6	1.4
20.001	50.00	4.05	140.000	0.010	0.0	0.0	0.0	2.86	22.4	1.4
19.003	50.00	4.37	139.260	0.051	0.0	0.0	0.0	1.01	17.9	6.9
21.000	50.00	4.02	140.285	0.011	0.0	0.0	0.0	1.09	8.6	1.5
21.001	50.00	4.04	140.265	0.014	0.0	0.0	0.0	3.77	29.6	1.9
19.004	50.00	4.51	139.152	0.065	0.0	0.0	0.0	1.02	18.0	8.8
22.000	50.00	4.02	140.635	0.012	0.0	0.0	0.0	1.09	8.6	1.6
22.001	50.00	4.04	140.615	0.012	0.0	0.0	0.0	3.92	30.8	1.6
19.005	50.00	4.70	139.062	0.080	0.0	0.0	0.0	1.02	18.0	10.8
23.000	50.00	4.02	140.875	0.010	0.0	0.0	0.0	1.09	8.6	1.4
23.001	50.00	4.04	140.855	0.010	0.0	0.0	0.0	4.51	35.4	1.4
19.006	50.00	4.99	138.942	0.108	0.0	0.0	0.0	1.02	18.0	14.6
19.007	50.00	5.16	138.759	0.108	0.0	0.0	0.0	1.02	18.0	14.6
24.000	50.00	4.03	141.275	0.012	0.0	0.0	0.0	1.09	8.6	1.6
24.001	50.00	4.08	141.235	0.012	0.0	0.0	0.0	1.06	8.3	1.6
24.002	50.00	4.21	141.125	0.022	0.0	0.0	0.0	1.01	17.8	3.0

Jubb Consulting Engineers Limited		Page 6
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
25.000	2.000	0.040	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
25.001	3.340	0.305	11.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
24.003	19.055	0.191	99.8	0.012	0.00	0.0	0.600	o	150	Pipe/Conduit	
24.004	21.260	0.555	38.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
19.008	14.694	0.150	98.0	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit	
26.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
26.001	7.163	3.520	2.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.009	4.331	0.044	98.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
27.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
27.001	5.718	1.756	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.010	7.021	0.070	100.3	0.004	0.00	0.0	0.600	o	225	Pipe/Conduit	
28.000	1.000	0.020	50.0	0.022	4.00	0.0	0.600	o	100	Pipe/Conduit	
28.001	9.295	2.829	3.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
19.011	14.785	0.146	101.3	0.042	0.00	0.0	0.600	o	225	Pipe/Conduit	
29.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
29.001	4.575	0.960	4.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.000	1.000	0.020	50.0	0.022	4.00	0.0	0.600	o	100	Pipe/Conduit	
30.001	5.994	0.120	50.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
25.000	50.00	4.03	141.440	0.012	0.0	0.0	0.0	1.09	8.6	1.6
25.001	50.00	4.05	141.400	0.012	0.0	0.0	0.0	2.35	18.4	1.6
24.003	50.00	4.53	141.045	0.046	0.0	0.0	0.0	1.01	17.8	6.2
24.004	50.00	4.75	140.854	0.046	0.0	0.0	0.0	1.63	28.8	6.2
19.008	50.00	5.35	138.575	0.164	0.0	0.0	0.0	1.32	52.5	22.2
26.000	50.00	4.02	142.090	0.014	0.0	0.0	0.0	1.09	8.6	1.9
26.001	50.00	4.04	142.070	0.014	0.0	0.0	0.0	5.47	42.9	1.9
19.009	50.00	5.40	138.425	0.178	0.0	0.0	0.0	1.32	52.4	24.1
27.000	50.00	4.02	142.007	0.012	0.0	0.0	0.0	1.09	8.6	1.6
27.001	50.00	4.04	141.987	0.012	0.0	0.0	0.0	4.32	33.9	1.6
19.010	50.00	5.49	138.381	0.194	0.0	0.0	0.0	1.31	51.9	26.3
28.000	50.00	4.02	141.285	0.022	0.0	0.0	0.0	1.09	8.6	3.0
28.001	50.00	4.05	141.265	0.022	0.0	0.0	0.0	4.30	33.8	3.0
19.011	50.00	5.68	138.311	0.258	0.0	0.0	0.0	1.30	51.7	34.9
29.000	50.00	4.02	140.849	0.009	0.0	0.0	0.0	1.09	8.6	1.2
29.001	50.00	4.04	140.829	0.009	0.0	0.0	0.0	3.57	28.0	1.2
30.000	50.00	4.02	141.815	0.022	0.0	0.0	0.0	1.09	8.6	3.0
30.001	50.00	4.11	141.795	0.022	0.0	0.0	0.0	1.09	8.6	3.0

Jubb Consulting Engineers Limited		Page 7
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
30.002	14.939	0.185	80.8	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
31.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
31.001	5.504	0.510	10.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.003	8.415	0.105	80.0	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
30.004	2.616	0.083	31.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
32.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
32.001	6.676	0.333	20.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.005	17.093	0.542	31.5	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
33.000	10.000	0.100	100.0	0.027	4.00	0.0	0.600	o	150	Pipe/Conduit	
30.006	22.892	0.870	26.3	0.017	0.00	0.0	0.600	o	225	Pipe/Conduit	
34.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
34.001	6.997	1.175	6.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.007	1.020	0.039	26.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
35.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
35.001	5.500	1.299	4.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
30.008	11.314	0.430	26.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
36.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	
36.001	6.997	1.604	4.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
30.002	50.00	4.33	141.625	0.026	0.0	0.0	0.0	1.12	19.8	3.5
31.000	50.00	4.02	142.020	0.011	0.0	0.0	0.0	1.09	8.6	1.5
31.001	50.00	4.05	142.000	0.011	0.0	0.0	0.0	2.37	18.6	1.5
30.003	50.00	4.45	141.440	0.041	0.0	0.0	0.0	1.12	19.9	5.6
30.004	50.00	4.48	141.335	0.041	0.0	0.0	0.0	1.80	31.8	5.6
32.000	50.00	4.02	141.655	0.013	0.0	0.0	0.0	1.09	8.6	1.8
32.001	50.00	4.08	141.635	0.013	0.0	0.0	0.0	1.73	13.6	1.8
30.005	50.00	4.64	141.252	0.070	0.0	0.0	0.0	1.80	31.8	9.5
33.000	50.00	4.17	140.810	0.027	0.0	0.0	0.0	1.00	17.8	3.7
30.006	50.00	4.79	140.635	0.114	0.0	0.0	0.0	2.56	101.8	15.4
34.000	50.00	4.02	141.085	0.009	0.0	0.0	0.0	1.09	8.6	1.2
34.001	50.00	4.05	141.065	0.009	0.0	0.0	0.0	3.19	25.1	1.2
30.007	50.00	4.79	139.765	0.123	0.0	0.0	0.0	2.57	102.1	16.7
35.000	50.00	4.02	141.170	0.009	0.0	0.0	0.0	1.09	8.6	1.2
35.001	50.00	4.04	141.150	0.009	0.0	0.0	0.0	3.79	29.7	1.2
30.008	50.00	4.87	139.726	0.132	0.0	0.0	0.0	2.56	101.8	17.9
36.000	50.00	4.02	141.045	0.009	0.0	0.0	0.0	1.09	8.6	1.2
36.001	50.00	4.05	141.025	0.009	0.0	0.0	0.0	3.73	29.3	1.2

Jubb Consulting Engineers Limited		Page 8
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
30.009	2.476	0.094	26.3	0.017	0.00	0.0	0.600	o	225	Pipe/Conduit	🟢
37.000	1.000	0.020	50.0	0.009	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
37.001	6.100	1.773	3.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
30.010	27.427	1.037	26.4	0.023	0.00	0.0	0.600	o	225	Pipe/Conduit	🟡
19.012	15.382	0.154	99.9	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	🔴
38.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
38.001	5.000	1.684	3.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
19.013	25.832	0.258	100.1	0.069	0.00	0.0	0.600	o	300	Pipe/Conduit	🔴
1.012	23.589	0.052	453.6	0.031	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.013	31.370	0.069	454.6	0.058	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.014	6.875	0.015	458.3	0.011	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
39.000	1.000	0.020	50.0	0.026	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
39.001	6.100	1.635	3.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.015	9.789	0.022	445.0	0.023	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
40.000	1.000	0.020	50.0	0.016	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
40.001	5.568	0.825	6.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
41.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
41.001	4.084	0.635	6.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
30.009	50.00	4.88	139.296	0.158	0.0	0.0	0.0	2.56	101.8	21.4
37.000	50.00	4.02	141.120	0.009	0.0	0.0	0.0	1.09	8.6	1.2
37.001	50.00	4.04	141.100	0.009	0.0	0.0	0.0	4.20	33.0	1.2
30.010	50.00	5.06	139.202	0.190	0.0	0.0	0.0	2.55	101.6	25.7
19.012	50.00	5.85	138.090	0.462	0.0	0.0	0.0	1.57	111.2	62.6
38.000	50.00	4.02	139.840	0.014	0.0	0.0	0.0	1.09	8.6	1.9
38.001	50.00	4.03	139.820	0.014	0.0	0.0	0.0	4.52	35.5	1.9
19.013	50.00	6.12	137.936	0.545	0.0	0.0	0.0	1.57	111.1	73.8
1.012	50.00	6.47	135.691	1.236	0.0	0.0	0.0	1.14	321.4	167.4
1.013	50.00	6.93	135.639	1.294	0.0	0.0	0.0	1.14	321.1	175.2
1.014	50.00	7.03	135.570	1.305	0.0	0.0	0.0	1.13	319.7	176.7
39.000	50.00	4.02	137.710	0.026	0.0	0.0	0.0	1.09	8.6	3.5
39.001	50.00	4.04	137.690	0.026	0.0	0.0	0.0	4.03	31.7	3.5
1.015	50.00	7.17	135.555	1.354	0.0	0.0	0.0	1.15	324.6	183.3
40.000	50.00	4.02	139.370	0.016	0.0	0.0	0.0	1.09	8.6	2.2
40.001	50.00	4.05	139.350	0.016	0.0	0.0	0.0	3.00	23.5	2.2
41.000	50.00	4.02	139.180	0.012	0.0	0.0	0.0	1.09	8.6	1.6
41.001	50.00	4.04	139.160	0.012	0.0	0.0	0.0	3.07	24.1	1.6

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
40.002	10.715	0.348	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
42.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
42.001	4.084	0.628	6.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
40.003	14.419	0.468	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
43.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
43.001	4.084	0.606	6.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
40.004	7.268	0.236	30.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
40.005	20.658	1.440	14.3	0.033	0.00	0.0	0.600	o	150	Pipe/Conduit	🟢
1.016	6.192	0.014	455.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
44.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
44.001	7.685	1.351	5.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.017	12.689	0.028	453.2	0.031	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.018	3.967	0.009	455.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
45.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡
45.001	6.583	1.388	4.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🟢
1.019	12.038	0.026	463.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
1.020	4.751	0.010	455.0	0.010	0.00	0.0	0.600	o	600	Pipe/Conduit	🔴
46.000	1.000	0.020	50.0	0.017	4.00	0.0	0.600	o	100	Pipe/Conduit	🟡

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
40.002	50.00	4.14	138.475	0.028	0.0	0.0	0.0	1.82	32.2	3.8
42.000	50.00	4.02	138.825	0.012	0.0	0.0	0.0	1.09	8.6	1.6
42.001	50.00	4.04	138.805	0.012	0.0	0.0	0.0	3.05	24.0	1.6
40.003	50.00	4.28	138.127	0.040	0.0	0.0	0.0	1.82	32.2	5.4
43.000	50.00	4.02	138.335	0.012	0.0	0.0	0.0	1.09	8.6	1.6
43.001	50.00	4.04	138.315	0.012	0.0	0.0	0.0	3.00	23.5	1.6
40.004	50.00	4.34	137.659	0.052	0.0	0.0	0.0	1.82	32.2	7.0
40.005	50.00	4.47	137.423	0.085	0.0	0.0	0.0	2.67	47.2	11.5
1.016	50.00	7.26	135.533	1.439	0.0	0.0	0.0	1.14	320.9	194.9
44.000	50.00	4.02	137.390	0.017	0.0	0.0	0.0	1.09	8.6	2.3
44.001	50.00	4.05	137.370	0.017	0.0	0.0	0.0	3.26	25.6	2.3
1.017	50.00	7.45	135.519	1.487	0.0	0.0	0.0	1.14	321.6	201.4
1.018	50.00	7.51	135.491	1.487	0.0	0.0	0.0	1.14	320.9	201.4
45.000	50.00	4.02	137.390	0.017	0.0	0.0	0.0	1.09	8.6	2.3
45.001	50.00	4.05	137.370	0.017	0.0	0.0	0.0	3.58	28.1	2.3
1.019	50.00	7.68	135.482	1.504	0.0	0.0	0.0	1.13	318.1	203.7
1.020	50.00	7.75	135.456	1.514	0.0	0.0	0.0	1.14	320.9	205.0
46.000	50.00	4.02	137.210	0.017	0.0	0.0	0.0	1.09	8.6	2.3

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR		VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...		Designed by EPH Checked by	
Innovyze		Network 2019.1	

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
46.001	6.200	1.244	5.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.021	16.787	0.037	453.7	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
47.000	1.000	0.020	50.0	0.016	4.00	0.0	0.600	o	100	Pipe/Conduit	
47.001	6.955	0.931	7.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.022	18.318	0.040	458.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
48.000	38.846	0.960	40.5	0.031	4.00	0.0	0.600	o	150	Pipe/Conduit	
48.001	22.929	0.515	44.5	0.030	0.00	0.0	0.600	o	225	Pipe/Conduit	
49.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
49.001	4.470	0.430	10.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
48.002	5.083	0.181	28.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.023	8.042	0.018	455.0	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
50.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
50.001	8.248	0.511	16.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.024	19.192	0.042	457.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.025	13.188	0.031	425.4	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.026	7.176	0.078	92.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.027	8.622	1.081	8.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
46.001	50.00	4.04	137.190	0.017	0.0	0.0	0.0	3.49	27.4	2.3
1.021	50.00	8.00	135.446	1.531	0.0	0.0	0.0	1.14	321.4	207.3
47.000	50.00	4.02	136.860	0.016	0.0	0.0	0.0	1.09	8.6	2.2
47.001	50.00	4.06	136.840	0.016	0.0	0.0	0.0	2.85	22.4	2.2
1.022	50.00	8.27	135.409	1.547	0.0	0.0	0.0	1.13	319.9	209.5
48.000	50.00	4.41	137.475	0.031	0.0	0.0	0.0	1.59	28.0	4.2
48.001	50.00	4.60	136.440	0.061	0.0	0.0	0.0	1.97	78.2	8.3
49.000	50.00	4.02	136.500	0.012	0.0	0.0	0.0	1.09	8.6	1.6
49.001	50.00	4.05	136.480	0.012	0.0	0.0	0.0	2.41	18.9	1.6
48.002	50.00	4.64	135.925	0.073	0.0	0.0	0.0	2.48	98.5	9.9
1.023	50.00	8.39	135.369	1.640	0.0	0.0	0.0	1.14	320.9	222.1
50.000	50.00	4.02	136.370	0.013	0.0	0.0	0.0	1.09	8.6	1.8
50.001	50.00	4.09	136.350	0.013	0.0	0.0	0.0	1.93	15.2	1.8
1.024	50.00	8.67	135.351	1.653	0.0	0.0	0.0	1.13	320.2	223.8
1.025	50.00	8.86	135.309	1.673	0.0	0.0	0.0	1.17	332.0	226.5
1.026	50.00	8.93	135.278	1.673	0.0	0.0	0.0	1.64	115.9<	226.5
1.027	50.00	8.97	135.200	1.673	0.0	0.0	0.0	3.59	63.4<	226.5

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR					VICTORIA ROAD SWD NETWORK- POND A 1 YEAR						
Date 15/07/2025					Designed by EPH						
File SWD NETWORK - POND A - 100 YR...					Checked by						
Innovyze					Network 2019.1						
<u>Manhole Schedules for Storm</u>											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
DIST TANK	139.155	0.730	Open Manhole	450	12.000	138.425	100				
SIC 222-1	139.180	0.785	Open Manhole	450	12.001	138.395	100	12.000	138.395	100	
SMH 18	139.240	1.350	Open Manhole	1200	12.002	137.890	150	12.001	137.940	100	
DIS TANK	139.210	0.730	Open Manhole	450	13.000	138.480	100				
SIC 220-1	139.320	0.860	Open Manhole	450	13.001	138.460	100	13.000	138.460	100	
JUNCTION	139.435	1.736	Junction		12.003	137.699	150	12.002	137.699	150	
								13.001	137.749	100	
DIST TANK	139.430	0.730	Open Manhole	450	14.000	138.700	100				
SIC 219-1	139.505	0.825	Open Manhole	450	14.001	138.680	100	14.000	138.680	100	
JUNCTION	139.635	2.127	Junction		12.004	137.508	150	12.003	137.508	150	
								14.001	137.558	100	
SMH 17	139.600	2.366	Open Manhole	1200	12.005	137.234	225	12.004	137.309	150	
DIST TANK	139.460	0.640	Open Manhole	450	15.000	138.820	100				
SIC 136-1	139.515	0.715	Open Manhole	450	15.001	138.800	100	15.000	138.800	100	
JUNCTION	139.510	2.454	Junction		12.006	137.056	225	12.005	137.056	225	
								15.001	137.181	100	
DIST TANK	139.250	0.640	Open Manhole	450	16.000	138.610	100				
SIC 138-1	139.355	0.765	Open Manhole	450	16.001	138.590	100	16.000	138.590	100	
JUNCTION	139.370	2.563	Junction		12.007	136.807	225	12.006	136.807	225	
								16.001	136.932	100	
DIST TANK	139.015	0.640	Open Manhole	450	17.000	138.375	100				
SIC 140-1	139.130	0.775	Open Manhole	450	17.001	138.355	100	17.000	138.355	100	
JUNCTION	139.085	2.564	Junction		12.008	136.521	225	12.007	136.521	225	
								17.001	136.646	100	
DIST TANK	138.900	0.640	Open Manhole	450	18.000	138.260	100				
SIC 141-1	138.900	0.660	Open Manhole	450	18.001	138.240	100	18.000	138.240	100	
SMH 10	138.885	3.108	Open Manhole	1500	1.010	135.777	600	1.009	136.002	375	
								12.008	136.152	225	
								18.001	136.277	100	
SMH 9	139.135	3.382	Open Manhole	1500	1.011	135.753	600	1.010	135.753	600	
DIST TANK	140.580	0.660	Open Manhole	450	19.000	139.920	100				
SIC 173-1	140.580	0.680	Open Manhole	450	19.001	139.900	100	19.000	139.900	100	
SMH 32	140.715	1.370	Open Manhole	1200	19.002	139.345	150	19.001	139.395	100	
DIST TANK	140.660	0.640	Open Manhole	450	20.000	140.020	100				
SIC 172-1	140.660	0.660	Open Manhole	450	20.001	140.000	100	20.000	140.000	100	
JUNCTION	140.925	1.665	Junction		19.003	139.260	150	19.002	139.260	150	
								20.001	139.310	100	
DIST TANK	140.925	0.640	Open Manhole	450	21.000	140.285	100				
SIC 171-1	140.925	0.660	Open Manhole	450	21.001	140.265	100	21.000	140.265	100	
SMH 31	141.190	2.038	Open Manhole	1200	19.004	139.152	150	19.003	139.152	150	
								21.001	139.202	100	
DIST TANK	141.275	0.640	Open Manhole	450	22.000	140.635	100				
SIC 170-1	141.275	0.660	Open Manhole	450	22.001	140.615	100	22.000	140.615	100	
JUNCTION	141.410	2.348	Junction		19.005	139.062	150	19.004	139.062	150	
								22.001	139.112	100	
DIST TANK	141.515	0.640	Open Manhole	450	23.000	140.875	100				
SIC 167-1	141.515	0.660	Open Manhole	450	23.001	140.855	100	23.000	140.855	100	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR					VICTORIA ROAD SWD NETWORK- POND A 1 YEAR						
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Innovyze					Network 2019.1						
Manhole Schedules for Storm											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
SIC 180-1 JUNCTION	141.900 141.795	0.750 2.069	Open Manhole Junction	450	35.001 30.008	141.150 139.726	100 225	35.000 30.007 35.001	141.150 139.726 139.851	100 225 100	
DIST TANK	141.685	0.640	Open Manhole	450	36.000	141.045	100				
SIC 191-1 JUNCTION	141.700 141.630	0.675 2.334	Open Manhole Junction	450	36.001 30.009	141.025 139.296	100 225	36.000 30.008 36.001	141.025 139.296 139.421	100 225 100	
DIST TANK	141.760	0.640	Open Manhole	450	37.000	141.120	100				
SIC 179-1 JUNCTION	141.785 141.600	0.685 2.398	Open Manhole Junction	450	37.001 30.010	141.100 139.202	100 225	37.000 30.009 37.001	141.100 139.202 139.327	100 225 100	
SMH 23	141.400	3.310	Open Manhole	1200	19.012	138.090	300	19.011 29.001 30.010	138.165 139.869 138.165	225 100 225	
DIST TANK	140.480	0.640	Open Manhole	450	38.000	139.840	100				
SIC 165-1 JUNCTION	140.810 140.925	0.990 2.989	Open Manhole Junction	450	38.001 19.013	139.820 137.936	100 300	38.000 19.012 38.001	139.820 137.936 138.136	100 300 100	
SMH 8	139.965	4.274	Open Manhole	1500	1.012	135.691	600	1.011 19.013	135.691 137.678	600 300	
SMH 7	139.400	3.761	Open Manhole	1500	1.013	135.639	600	1.012	135.639	600	1687
SMH 6	138.640	3.070	Open Manhole	1500	1.014	135.570	600	1.013	135.570	600	
DIST TANK	138.350	0.640	Open Manhole	450	39.000	137.710	100				
SIC 146-1 JUNCTION	138.400 138.450	0.710 2.895	Open Manhole Junction	450	39.001 1.015	137.690 135.555	100 600	39.000 1.014 39.001	137.690 135.555 136.055	100 600 100	
DIST TANK	140.010	0.640	Open Manhole	450	40.000	139.370	100				
SIC 152_1	140.080	0.730	Open Manhole	450	40.001	139.350	100	40.000	139.350	100	
DIST TANK	139.820	0.640	Open Manhole	450	41.000	139.180	100				
SIC 153-1	139.900	0.740	Open Manhole	450	41.001	139.160	100	41.000	139.160	100	
SMH 36	139.825	1.350	Open Manhole	1200	40.002	138.475	150	40.001 41.001	138.525 138.525	100 100	
DIST TANK	139.465	0.640	Open Manhole	450	42.000	138.825	100				
SIC 154-1 JUNCTION	139.560 139.475	0.755 1.348	Open Manhole Junction	450	42.001 40.003	138.805 138.127	100 150	42.000 40.002 42.001	138.805 138.127 138.177	100 150 100	
DIST TANK	138.975	0.640	Open Manhole	450	43.000	138.335	100				
SIC 155-1 JUNCTION	139.090 138.980	0.775 1.321	Open Manhole Junction	450	43.001 40.004	138.315 137.659	100 150	43.000 40.003 43.001	138.315 137.659 137.709	100 150 100	
SMH 35	138.775	1.352	Open Manhole	1200	40.005	137.423	150	40.004	137.423	150	
SMH 5	138.225	2.692	Open Manhole	1500	1.016	135.533	600	1.015 40.005	135.533 135.983	600 150	
DIST TANK	138.030	0.640	Open Manhole	450	44.000	137.390	100				
SIC 148-1 JUNCTION	138.190 138.075	0.820 2.556	Open Manhole Junction	450	44.001 1.017	137.370 135.519	100 600	44.000 1.016 44.001	137.370 135.519 136.019	100 600 100	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	100	DIST TANK	138.865	138.270	0.495	Open Manhole	450
1.001	o	100	SIC 206-1	138.865	138.250	0.515	Open Manhole	1200
1.002	o	225	SMH 14	138.805	137.080	1.500	Junction	
2.000	o	100	DIST TANK 1	138.865	138.260	0.505	Open Manhole	450
2.001	o	100	SIC 207-1	138.940	138.240	0.600	Open Manhole	450
1.003	o	225	JUNCTION	138.705	136.860	1.620	Junction	
1.004	o	300	SMH 13	138.735	136.748	1.687	Open Manhole	1200
3.000	o	100	DIST TK 1	139.020	138.320	0.600	Open Manhole	450
3.001	o	100	SIC 208-1	139.020	138.300	0.620	Open Manhole	450
1.005	o	300	JUNCTION	138.770	136.715	1.755	Junction	
4.000	o	100	DIST TANK 1	139.065	138.465	0.500	Open Manhole	450
4.001	o	100	SIC 209-1	139.080	138.445	0.535	Open Manhole	450
1.006	o	300	JUNCTION	138.913	136.606	2.007	Junction	
5.000	o	100	DIST TANK 1	139.150	138.550	0.500	Open Manhole	450
5.001	o	100	SIC 210-1	139.175	138.530	0.545	Open Manhole	450
1.007	o	300	JUNCTION	139.040	136.503	2.237	Junction	
1.008	o	300	SMH 12	139.230	136.386	2.544	Open Manhole	1200
6.000	o	100	DIST TANK	141.980	141.160	0.720	Open Manhole	450
6.001	o	100	SIC 188-1	142.115	141.140	0.875	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	1.000	50.0	SIC 206-1	138.865	138.250	0.515	Open Manhole	1200
1.001	14.185	13.6	SMH 14	138.805	137.205	1.500	Junction	
1.002	17.662	80.3	JUNCTION	138.705	136.860	1.620	Junction	
2.000	1.000	50.0	SIC 207-1	138.940	138.240	0.600	Open Manhole	450
2.001	6.793	5.4	JUNCTION	138.705	136.985	1.620	Junction	
1.003	2.967	80.3	SMH 13	138.735	136.823	1.687	Open Manhole	1200
1.004	3.349	101.5	JUNCTION	138.770	136.715	1.755	Junction	
3.000	1.000	50.0	SIC 208-1	139.020	138.300	0.620	Open Manhole	450
3.001	7.899	5.7	JUNCTION	138.770	136.915	1.755	Junction	
1.005	10.872	99.7	JUNCTION	138.913	136.606	2.007	Junction	
4.000	1.000	50.0	SIC 209-1	139.080	138.445	0.535	Open Manhole	450
4.001	7.533	4.6	JUNCTION	138.913	136.806	2.007	Junction	
1.006	10.269	99.7	JUNCTION	139.040	136.503	2.237	Junction	
5.000	1.000	50.0	SIC 210-1	139.175	138.530	0.545	Open Manhole	450
5.001	7.162	3.9	JUNCTION	139.040	136.703	2.237	Junction	
1.007	11.677	99.8	SMH 12	139.230	136.386	2.544	Open Manhole	1200
1.008	7.447	100.6	SMH 11	139.230	136.312	2.618	Open Manhole	1350
6.000	1.000	50.0	SIC 188-1	142.115	141.140	0.875	Open Manhole	450
6.001	8.779	11.1	SMH 22	141.650	140.350	1.200	Open Manhole	1200

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
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Innovyze	Network 2019.1	

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.009	o	375	SMH 11	139.230	136.237	2.618	Open Manhole	1350
12.000	o	100	DIST TANK	139.155	138.425	0.630	Open Manhole	450
12.001	o	100	SIC 222-1	139.180	138.395	0.685	Open Manhole	450
12.002	o	150	SMH 18	139.240	137.890	1.200	Open Manhole	1200
13.000	o	100	DIS TANK	139.210	138.480	0.630	Open Manhole	450
13.001	o	100	SIC 220-1	139.320	138.460	0.760	Open Manhole	450
12.003	o	150	JUNCTION	139.435	137.699	1.586	Junction	
14.000	o	100	DIST TANK	139.430	138.700	0.630	Open Manhole	450
14.001	o	100	SIC 219-1	139.505	138.680	0.725	Open Manhole	450
12.004	o	150	JUNCTION	139.635	137.508	1.977	Junction	
12.005	o	225	SMH 17	139.600	137.234	2.141	Open Manhole	1200
15.000	o	100	DIST TANK	139.460	138.820	0.540	Open Manhole	450
15.001	o	100	SIC 136-1	139.515	138.800	0.615	Open Manhole	450
12.006	o	225	JUNCTION	139.510	137.056	2.229	Junction	
16.000	o	100	DIST TANK	139.250	138.610	0.540	Open Manhole	450
16.001	o	100	SIC 138-1	139.355	138.590	0.665	Open Manhole	450
12.007	o	225	JUNCTION	139.370	136.807	2.338	Junction	
17.000	o	100	DIST TANK	139.015	138.375	0.540	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.009	48.885	208.0	SMH 10	138.885	136.002	2.508	Open Manhole	1500
12.000	1.550	51.7	SIC 222-1	139.180	138.395	0.685	Open Manhole	450
12.001	4.297	9.4	SMH 18	139.240	137.940	1.200	Open Manhole	1200
12.002	15.280	80.0	JUNCTION	139.435	137.699	1.586	Junction	
13.000	1.000	50.0	SIC 220-1	139.320	138.460	0.760	Open Manhole	450
13.001	6.156	8.7	JUNCTION	139.435	137.749	1.586	Junction	
12.003	15.299	80.0	JUNCTION	139.635	137.508	1.977	Junction	
14.000	1.000	50.0	SIC 219-1	139.505	138.680	0.725	Open Manhole	450
14.001	5.138	4.6	JUNCTION	139.635	137.558	1.977	Junction	
12.004	15.953	80.0	SMH 17	139.600	137.309	2.141	Open Manhole	1200
12.005	11.218	62.9	JUNCTION	139.510	137.056	2.229	Junction	
15.000	1.000	50.0	SIC 136-1	139.515	138.800	0.615	Open Manhole	450
15.001	6.716	4.1	JUNCTION	139.510	137.181	2.229	Junction	
12.006	15.689	63.0	JUNCTION	139.370	136.807	2.338	Junction	
16.000	1.000	50.0	SIC 138-1	139.355	138.590	0.665	Open Manhole	450
16.001	5.829	3.5	JUNCTION	139.370	136.932	2.338	Junction	
12.007	17.988	62.9	JUNCTION	139.085	136.521	2.339	Junction	
17.000	1.000	50.0	SIC 140-1	139.130	138.355	0.675	Open Manhole	450

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR		VICTORIA ROAD SWD NETWORK- POND A 1 YEAR						
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...		Designed by EPH Checked by						
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PIPELINE SCHEDULES for Storm								
Upstream Manhole								
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	o	100	SIC 140-1	139.130	138.355	0.675	Open Manhole	450
12.008	o	225	JUNCTION	139.085	136.521	2.414	Junction	
18.000	o	100	DIST TANK	138.900	138.260	0.540	Open Manhole	450
18.001	o	100	SIC 141-1	138.900	138.240	0.560	Open Manhole	450
1.010	o	600	SMH 10	138.885	135.777	2.508	Open Manhole	1500
1.011	o	600	SMH 9	139.135	135.753	2.782	Open Manhole	1500
19.000	o	100	DIST TANK	140.580	139.920	0.560	Open Manhole	450
19.001	o	100	SIC 173-1	140.580	139.900	0.580	Open Manhole	450
19.002	o	150	SMH 32	140.715	139.345	1.220	Open Manhole	1200
20.000	o	100	DIST TANK	140.660	140.020	0.540	Open Manhole	450
20.001	o	100	SIC 172-1	140.660	140.000	0.560	Open Manhole	450
19.003	o	150	JUNCTION	140.925	139.260	1.515	Junction	
21.000	o	100	DIST TANK	140.925	140.285	0.540	Open Manhole	450
21.001	o	100	SIC 171-1	140.925	140.265	0.560	Open Manhole	450
19.004	o	150	SMH 31	141.190	139.152	1.888	Open Manhole	1200
22.000	o	100	DIST TANK	141.275	140.635	0.540	Open Manhole	450
22.001	o	100	SIC 170-1	141.275	140.615	0.560	Open Manhole	450
19.005	o	150	JUNCTION	141.410	139.062	2.198	Junction	
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	5.516	3.2	JUNCTION	139.085	136.646	2.339	Junction	
12.008	23.129	62.7	SMH 10	138.885	136.152	2.583	Open Manhole	1500
18.000	1.000	50.0	SIC 141-1	138.900	138.240	0.560	Open Manhole	450
18.001	6.574	3.3	SMH 10	138.885	136.277	2.508	Open Manhole	1500
1.010	10.672	450.0	SMH 9	139.135	135.753	2.782	Open Manhole	1500
1.011	27.837	450.0	SMH 8	139.965	135.691	3.674	Open Manhole	1500
19.000	1.000	50.0	SIC 173-1	140.580	139.900	0.580	Open Manhole	450
19.001	5.505	10.9	SMH 32	140.715	139.395	1.220	Open Manhole	1200
19.002	8.366	98.4	JUNCTION	140.925	139.260	1.515	Junction	
20.000	1.000	50.0	SIC 172-1	140.660	140.000	0.560	Open Manhole	450
20.001	5.123	7.4	JUNCTION	140.925	139.310	1.515	Junction	
19.003	10.641	98.5	SMH 31	141.190	139.152	1.888	Open Manhole	1200
21.000	1.000	50.0	SIC 171-1	140.925	140.265	0.560	Open Manhole	450
21.001	4.539	4.3	SMH 31	141.190	139.202	1.888	Open Manhole	1200
19.004	8.742	97.1	JUNCTION	141.410	139.062	2.198	Junction	
22.000	1.000	50.0	SIC 170-1	141.275	140.615	0.560	Open Manhole	450
22.001	5.941	4.0	JUNCTION	141.410	139.112	2.198	Junction	
19.005	11.645	97.0	JUNCTION	141.830	138.942	2.738	Junction	
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VICTORIA ROAD
SWD NETWORK- POND A
1 YEAR

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
23.000	o	100	DIST TANK	141.515	140.875	0.540	Open Manhole	450
23.001	o	100	SIC 167-1	141.515	140.855	0.560	Open Manhole	450
19.006	o	150	JUNCTION	141.830	138.942	2.738	Junction	
19.007	o	150	SMH 30	142.825	138.759	3.916	Open Manhole	1200
24.000	o	100	DIST TANK	142.425	141.275	1.050	Open Manhole	450
24.001	o	100	SIC 174-1	142.500	141.235	1.165	Open Manhole	450
24.002	o	150	SMH 34	142.610	141.125	1.335	Open Manhole	1200
25.000	o	100	DIST TANK	142.590	141.440	1.050	Open Manhole	450
25.001	o	100	SIC 175-1	142.630	141.400	1.130	Open Manhole	450
24.003	o	150	JUNCTION	142.710	141.045	1.515	Junction	
24.004	o	150	SMH 33	142.960	140.854	1.956	Open Manhole	1200
19.008	o	225	SMH 29	143.175	138.575	4.375	Open Manhole	1200
26.000	o	100	DIST TANK	142.730	142.090	0.540	Open Manhole	450
26.001	o	100	SIC 176-1	142.730	142.070	0.560	Open Manhole	450
19.009	o	225	JUNCTION	142.750	138.425	4.100	Junction	
27.000	o	100	DIST TANK	142.647	142.007	0.540	Open Manhole	450
27.001	o	100	SIC 169-1	142.647	141.987	0.560	Open Manhole	450
19.010	o	225	SMH 28	142.600	138.381	3.994	Open Manhole	450

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
23.000	1.000	50.0	SIC 167-1	141.515	140.855	0.560	Open Manhole	450
23.001	5.573	3.0	JUNCTION	141.830	138.992	2.738	Junction	
19.006	17.809	97.3	SMH 30	142.825	138.759	3.916	Open Manhole	1200
19.007	10.569	97.1	SMH 29	143.175	138.650	4.375	Open Manhole	1200
24.000	2.000	50.0	SIC 174-1	142.500	141.235	1.165	Open Manhole	450
24.001	3.210	53.5	SMH 34	142.610	141.175	1.335	Open Manhole	1200
24.002	7.966	99.6	JUNCTION	142.710	141.045	1.515	Junction	
25.000	2.000	50.0	SIC 175-1	142.630	141.400	1.130	Open Manhole	450
25.001	3.340	11.0	JUNCTION	142.710	141.095	1.515	Junction	
24.003	19.055	99.8	SMH 33	142.960	140.854	1.956	Open Manhole	1200
24.004	21.260	38.3	SMH 29	143.175	140.299	2.726	Open Manhole	1200
19.008	14.694	98.0	JUNCTION	142.750	138.425	4.100	Junction	
26.000	1.000	50.0	SIC 176-1	142.730	142.070	0.560	Open Manhole	450
26.001	7.163	2.0	JUNCTION	142.750	138.550	4.100	Junction	
19.009	4.331	98.4	SMH 28	142.600	138.381	3.994	Open Manhole	450
27.000	1.000	50.0	SIC 169-1	142.647	141.987	0.560	Open Manhole	450
27.001	5.718	3.3	SMH 28	142.600	140.231	2.269	Open Manhole	450
19.010	7.021	100.3	JUNCTION	142.250	138.311	3.714	Junction	

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VICTORIA ROAD

SWD NETWORK- POND A

1 YEAR

Date 15/07/2025

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
28.000	o	100	DIST TANK	141.925	141.285	0.540	Open Manhole	450
28.001	o	100	SIC 178-1	141.925	141.265	0.560	Open Manhole	450
19.011	o	225	JUNCTION	142.250	138.311	3.714	Junction	
29.000	o	100	DIST TANK	141.489	140.849	0.540	Open Manhole	450
29.001	o	100	SIC 166-1	141.489	140.829	0.560	Open Manhole	450
30.000	o	100	DIST TANK	142.815	141.815	0.900	Open Manhole	450
30.001	o	100	SIC 184-1	142.910	141.795	1.015	Open Manhole	450
30.002	o	150	SMH 27	142.975	141.625	1.200	Open Manhole	1200
31.000	o	100	DIST TANK	142.700	142.020	0.580	Open Manhole	450
31.001	o	100	SIC 182-1	142.850	142.000	0.750	Open Manhole	450
30.003	o	150	SMH 26	142.790	141.440	1.200	Open Manhole	1200
30.004	o	150	SMH 25	142.700	141.335	1.215	Open Manhole	1200
32.000	o	100	DIST TANK	142.635	141.655	0.880	Open Manhole	450
32.001	o	100	SIC 181-1	142.750	141.635	1.015	Open Manhole	450
30.005	o	150	JUNCTION	142.660	141.252	1.258	Junction	
33.000	o	150	HD CP1	142.160	140.810	1.200	Open Manhole	1200
30.006	o	225	SMH 24	142.350	140.635	1.490	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
28.000	1.000	50.0	SIC 178-1	141.925	141.265	0.560	Open Manhole	450
28.001	9.295	3.3	JUNCTION	142.250	138.436	3.714	Junction	
19.011	14.785	101.3	SMH 23	141.400	138.165	3.010	Open Manhole	1200
29.000	1.000	50.0	SIC 166-1	141.489	140.829	0.560	Open Manhole	450
29.001	4.575	4.8	SMH 23	141.400	139.869	1.431	Open Manhole	1200
30.000	1.000	50.0	SIC 184-1	142.910	141.795	1.015	Open Manhole	450
30.001	5.994	50.0	SMH 27	142.975	141.675	1.200	Open Manhole	1200
30.002	14.939	80.8	SMH 26	142.790	141.440	1.200	Open Manhole	1200
31.000	1.000	50.0	SIC 182-1	142.850	142.000	0.750	Open Manhole	450
31.001	5.504	10.8	SMH 26	142.790	141.490	1.200	Open Manhole	1200
30.003	8.415	80.0	SMH 25	142.700	141.335	1.215	Open Manhole	1200
30.004	2.616	31.5	JUNCTION	142.660	141.252	1.258	Junction	
32.000	1.000	50.0	SIC 181-1	142.750	141.635	1.015	Open Manhole	450
32.001	6.676	20.0	JUNCTION	142.660	141.302	1.258	Junction	
30.005	17.093	31.5	SMH 24	142.350	140.710	1.490	Open Manhole	1200
33.000	10.000	100.0	SMH 24	142.350	140.710	1.490	Open Manhole	1200
30.006	22.892	26.3	JUNCTION	141.810	139.765	1.820	Junction	

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.000	o	100	DIST TANK	141.725	141.085	0.540	Open Manhole	450
34.001	o	100	SIC 190-1	141.750	141.065	0.585	Open Manhole	450
30.007	o	225	JUNCTION	141.810	139.765	1.820	Junction	
35.000	o	100	DIST TANK	141.810	141.170	0.540	Open Manhole	450
35.001	o	100	SIC 180-1	141.900	141.150	0.650	Open Manhole	450
30.008	o	225	JUNCTION	141.795	139.726	1.844	Junction	
36.000	o	100	DIST TANK	141.685	141.045	0.540	Open Manhole	450
36.001	o	100	SIC 191-1	141.700	141.025	0.575	Open Manhole	450
30.009	o	225	JUNCTION	141.630	139.296	2.109	Junction	
37.000	o	100	DIST TANK	141.760	141.120	0.540	Open Manhole	450
37.001	o	100	SIC 179-1	141.785	141.100	0.585	Open Manhole	450
30.010	o	225	JUNCTION	141.600	139.202	2.173	Junction	
19.012	o	300	SMH 23	141.400	138.090	3.010	Open Manhole	1200
38.000	o	100	DIST TANK	140.480	139.840	0.540	Open Manhole	450
38.001	o	100	SIC 165-1	140.810	139.820	0.890	Open Manhole	450
19.013	o	300	JUNCTION	140.925	137.936	2.689	Junction	
1.012	o	600	SMH 8	139.965	135.691	3.674	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
34.000	1.000	50.0	SIC 190-1	141.750	141.065	0.585	Open Manhole	450
34.001	6.997	6.0	JUNCTION	141.810	139.890	1.820	Junction	
30.007	1.020	26.2	JUNCTION	141.795	139.726	1.844	Junction	
35.000	1.000	50.0	SIC 180-1	141.900	141.150	0.650	Open Manhole	450
35.001	5.500	4.2	JUNCTION	141.795	139.851	1.844	Junction	
30.008	11.314	26.3	JUNCTION	141.630	139.296	2.109	Junction	
36.000	1.000	50.0	SIC 191-1	141.700	141.025	0.575	Open Manhole	450
36.001	6.997	4.4	JUNCTION	141.630	139.421	2.109	Junction	
30.009	2.476	26.3	JUNCTION	141.600	139.202	2.173	Junction	
37.000	1.000	50.0	SIC 179-1	141.785	141.100	0.585	Open Manhole	450
37.001	6.100	3.4	JUNCTION	141.600	139.327	2.173	Junction	
30.010	27.427	26.4	SMH 23	141.400	138.165	3.010	Open Manhole	1200
19.012	15.382	99.9	JUNCTION	140.925	137.936	2.689	Junction	
38.000	1.000	50.0	SIC 165-1	140.810	139.820	0.890	Open Manhole	450
38.001	5.000	3.0	JUNCTION	140.925	138.136	2.689	Junction	
19.013	25.832	100.1	SMH 8	139.965	137.678	1.987	Open Manhole	1500
1.012	23.589	453.6	SMH 7	139.400	135.639	3.161	Open Manhole	1500

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VICTORIA ROAD
SWD NETWORK- POND A
1 YEAR

Date 15/07/2025
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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.013	o	600	SMH 7	139.400	135.639	3.161	Open Manhole	1500
1.014	o	600	SMH 6	138.640	135.570	2.470	Open Manhole	1500
39.000	o	100	DIST TANK	138.350	137.710	0.540	Open Manhole	450
39.001	o	100	SIC 146-1	138.400	137.690	0.610	Open Manhole	450
1.015	o	600	JUNCTION	138.450	135.555	2.295	Junction	
40.000	o	100	DIST TANK	140.010	139.370	0.540	Open Manhole	450
40.001	o	100	SIC 152_1	140.080	139.350	0.630	Open Manhole	450
41.000	o	100	DIST TANK	139.820	139.180	0.540	Open Manhole	450
41.001	o	100	SIC 153-1	139.900	139.160	0.640	Open Manhole	450
40.002	o	150	SMH 36	139.825	138.475	1.200	Open Manhole	1200
42.000	o	100	DIST TANK	139.465	138.825	0.540	Open Manhole	450
42.001	o	100	SIC 154-1	139.560	138.805	0.655	Open Manhole	450
40.003	o	150	JUNCTION	139.475	138.127	1.198	Junction	
43.000	o	100	DIST TANK	138.975	138.335	0.540	Open Manhole	450
43.001	o	100	SIC 155-1	139.090	138.315	0.675	Open Manhole	450
40.004	o	150	JUNCTION	138.980	137.659	1.171	Junction	
40.005	o	150	SMH 35	138.775	137.423	1.202	Open Manhole	1200
1.016	o	600	SMH 5	138.225	135.533	2.092	Open Manhole	1500
Downstream Manhole								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.013	31.370	454.6	SMH 6	138.640	135.570	2.470	Open Manhole	1500
1.014	6.875	458.3	JUNCTION	138.450	135.555	2.295	Junction	
39.000	1.000	50.0	SIC 146-1	138.400	137.690	0.610	Open Manhole	450
39.001	6.100	3.7	JUNCTION	138.450	136.055	2.295	Junction	
1.015	9.789	445.0	SMH 5	138.225	135.533	2.092	Open Manhole	1500
40.000	1.000	50.0	SIC 152_1	140.080	139.350	0.630	Open Manhole	450
40.001	5.568	6.7	SMH 36	139.825	138.525	1.200	Open Manhole	1200
41.000	1.000	50.0	SIC 153-1	139.900	139.160	0.640	Open Manhole	450
41.001	4.084	6.4	SMH 36	139.825	138.525	1.200	Open Manhole	1200
40.002	10.715	30.8	JUNCTION	139.475	138.127	1.198	Junction	
42.000	1.000	50.0	SIC 154-1	139.560	138.805	0.655	Open Manhole	450
42.001	4.084	6.5	JUNCTION	139.475	138.177	1.198	Junction	
40.003	14.419	30.8	JUNCTION	138.980	137.659	1.171	Junction	
43.000	1.000	50.0	SIC 155-1	139.090	138.315	0.675	Open Manhole	450
43.001	4.084	6.7	JUNCTION	138.980	137.709	1.171	Junction	
40.004	7.268	30.8	SMH 35	138.775	137.423	1.202	Open Manhole	1200
40.005	20.658	14.3	SMH 5	138.225	135.983	2.092	Open Manhole	1500
1.016	6.192	455.0	JUNCTION	138.075	135.519	1.956	Junction	

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<u>PIPELINE SCHEDULES for Storm</u> <u>Upstream Manhole</u> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>44.000</td><td>o</td><td>100</td><td>DIST TANK</td><td>138.030</td><td>137.390</td><td>0.540</td><td>Open Manhole</td><td>450</td></tr><tr><td>44.001</td><td>o</td><td>100</td><td>SIC 148-1</td><td>138.190</td><td>137.370</td><td>0.720</td><td>Open Manhole</td><td>450</td></tr><tr><td>1.017</td><td>o</td><td>600</td><td>JUNCTION</td><td>138.075</td><td>135.519</td><td>1.956</td><td>Junction</td><td></td></tr><tr><td>1.018</td><td>o</td><td>600</td><td>SMH 4</td><td>138.060</td><td>135.491</td><td>1.969</td><td>Open Manhole</td><td>1500</td></tr><tr><td>45.000</td><td>o</td><td>100</td><td>DIST TANK</td><td>138.030</td><td>137.390</td><td>0.540</td><td>Open Manhole</td><td>450</td></tr><tr><td>45.001</td><td>o</td><td>100</td><td>SIC 150-1</td><td>138.030</td><td>137.370</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>1.019</td><td>o</td><td>600</td><td>JUNCTION</td><td>138.080</td><td>135.482</td><td>1.998</td><td>Junction</td><td></td></tr><tr><td>1.020</td><td>o</td><td>600</td><td>SMH 3</td><td>138.010</td><td>135.456</td><td>1.954</td><td>Open Manhole</td><td>1500</td></tr><tr><td>46.000</td><td>o</td><td>100</td><td>DIST TANK</td><td>137.850</td><td>137.210</td><td>0.540</td><td>Open Manhole</td><td>450</td></tr><tr><td>46.001</td><td>o</td><td>100</td><td>SIC 111-1</td><td>137.850</td><td>137.190</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>1.021</td><td>o</td><td>600</td><td>JUNCTION</td><td>137.950</td><td>135.446</td><td>1.904</td><td>Junction</td><td></td></tr><tr><td>47.000</td><td>o</td><td>100</td><td>DIST TANK</td><td>137.500</td><td>136.860</td><td>0.540</td><td>Open Manhole</td><td>450</td></tr><tr><td>47.001</td><td>o</td><td>100</td><td>SIC 113-1</td><td>137.500</td><td>136.840</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>1.022</td><td>o</td><td>600</td><td>JUNCTION</td><td>137.700</td><td>135.409</td><td>1.691</td><td>Junction</td><td></td></tr><tr><td>48.000</td><td>o</td><td>150</td><td>SWMH 114-3</td><td>138.825</td><td>137.475</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.001</td><td>o</td><td>225</td><td>SWMH 114-2</td><td>137.865</td><td>136.440</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>49.000</td><td>o</td><td>100</td><td>DIST TANK</td><td>137.140</td><td>136.500</td><td>0.540</td><td>Open Manhole</td><td>450</td></tr><tr><td>49.001</td><td>o</td><td>100</td><td>SIC 115-1</td><td>137.140</td><td>136.480</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr></table> <u>Downstream Manhole</u> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH 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3</td><td>138.010</td><td>135.456</td><td>1.954</td><td>Open Manhole</td><td>1500</td></tr><tr><td>1.020</td><td>4.751</td><td>455.0</td><td>JUNCTION</td><td>137.950</td><td>135.446</td><td>1.904</td><td>Junction</td><td></td></tr><tr><td>46.000</td><td>1.000</td><td>50.0</td><td>SIC 111-1</td><td>137.850</td><td>137.190</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>46.001</td><td>6.200</td><td>5.0</td><td>JUNCTION</td><td>137.950</td><td>135.946</td><td>1.904</td><td>Junction</td><td></td></tr><tr><td>1.021</td><td>16.787</td><td>453.7</td><td>JUNCTION</td><td>137.700</td><td>135.409</td><td>1.691</td><td>Junction</td><td></td></tr><tr><td>47.000</td><td>1.000</td><td>50.0</td><td>SIC 113-1</td><td>137.500</td><td>136.840</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>47.001</td><td>6.955</td><td>7.5</td><td>JUNCTION</td><td>137.700</td><td>135.909</td><td>1.691</td><td>Junction</td><td></td></tr><tr><td>1.022</td><td>18.318</td><td>458.0</td><td>SMH 2</td><td>137.190</td><td>135.369</td><td>1.221</td><td>Open Manhole</td><td>1500</td></tr><tr><td>48.000</td><td>38.846</td><td>40.5</td><td>SWMH 114-2</td><td>137.865</td><td>136.515</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>48.001</td><td>22.929</td><td>44.5</td><td>SWMH 114-1</td><td>137.350</td><td>135.925</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr><tr><td>49.000</td><td>1.000</td><td>50.0</td><td>SIC 115-1</td><td>137.140</td><td>136.480</td><td>0.560</td><td>Open Manhole</td><td>450</td></tr><tr><td>49.001</td><td>4.470</td><td>10.4</td><td>SWMH 114-1</td><td>137.350</td><td>136.050</td><td>1.200</td><td>Open Manhole</td><td>1200</td></tr></table>										PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	44.000	o	100	DIST TANK	138.030	137.390	0.540	Open Manhole	450	44.001	o	100	SIC 148-1	138.190	137.370	0.720	Open Manhole	450	1.017	o	600	JUNCTION	138.075	135.519	1.956	Junction		1.018	o	600	SMH 4	138.060	135.491	1.969	Open Manhole	1500	45.000	o	100	DIST TANK	138.030	137.390	0.540	Open Manhole	450	45.001	o	100	SIC 150-1	138.030	137.370	0.560	Open Manhole	450	1.019	o	600	JUNCTION	138.080	135.482	1.998	Junction		1.020	o	600	SMH 3	138.010	135.456	1.954	Open Manhole	1500	46.000	o	100	DIST TANK	137.850	137.210	0.540	Open Manhole	450	46.001	o	100	SIC 111-1	137.850	137.190	0.560	Open Manhole	450	1.021	o	600	JUNCTION	137.950	135.446	1.904	Junction		47.000	o	100	DIST TANK	137.500	136.860	0.540	Open Manhole	450	47.001	o	100	SIC 113-1	137.500	136.840	0.560	Open Manhole	450	1.022	o	600	JUNCTION	137.700	135.409	1.691	Junction		48.000	o	150	SWMH 114-3	138.825	137.475	1.200	Open Manhole	1200	48.001	o	225	SWMH 114-2	137.865	136.440	1.200	Open Manhole	1200	49.000	o	100	DIST TANK	137.140	136.500	0.540	Open Manhole	450	49.001	o	100	SIC 115-1	137.140	136.480	0.560	Open Manhole	450	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	44.000	1.000	50.0	SIC 148-1	138.190	137.370	0.720	Open Manhole	450	44.001	7.685	5.7	JUNCTION	138.075	136.019	1.956	Junction		1.017	12.689	453.2	SMH 4	138.060	135.491	1.969	Open Manhole	1500	1.018	3.967	455.0	JUNCTION	138.080	135.482	1.998	Junction		45.000	1.000	50.0	SIC 150-1	138.030	137.370	0.560	Open Manhole	450	45.001	6.583	4.7	JUNCTION	138.080	135.982	1.998	Junction		1.019	12.038	463.0	SMH 3	138.010	135.456	1.954	Open Manhole	1500	1.020	4.751	455.0	JUNCTION	137.950	135.446	1.904	Junction		46.000	1.000	50.0	SIC 111-1	137.850	137.190	0.560	Open Manhole	450	46.001	6.200	5.0	JUNCTION	137.950	135.946	1.904	Junction		1.021	16.787	453.7	JUNCTION	137.700	135.409	1.691	Junction		47.000	1.000	50.0	SIC 113-1	137.500	136.840	0.560	Open Manhole	450	47.001	6.955	7.5	JUNCTION	137.700	135.909	1.691	Junction		1.022	18.318	458.0	SMH 2	137.190	135.369	1.221	Open Manhole	1500	48.000	38.846	40.5	SWMH 114-2	137.865	136.515	1.200	Open Manhole	1200	48.001	22.929	44.5	SWMH 114-1	137.350	135.925	1.200	Open Manhole	1200	49.000	1.000	50.0	SIC 115-1	137.140	136.480	0.560	Open Manhole	450	49.001	4.470	10.4	SWMH 114-1	137.350	136.050	1.200	Open Manhole	1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																																																																																																																																																																																																																																																							
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Jubb Consulting Engineers Limited

Unit 1, Ensign House
Parkway Court, Longbridge Road
Plymouth, PL6 8LR

Date 15/07/2025
File SWD NETWORK - POND A - 100 YR...

Innovyze

VICTORIA ROAD
SWD NETWORK- POND A
1 YEAR

Designed by EPH
Checked by

Network 2019.1

Page 25



PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.002	o	225	SWMH 114-1	137.350	135.925	1.200	Open Manhole	1200
1.023	o	600	SMH 2	137.190	135.369	1.221	Open Manhole	1500
50.000	o	100	DIST TANK	137.010	136.370	0.540	Open Manhole	450
50.001	o	100	SIC 116-1	137.010	136.350	0.560	Open Manhole	450
1.024	o	600	JUNCTION	137.000	135.351	1.049	Junction	
1.025	o	600	SMH 1	136.780	135.309	0.871	Open Manhole	1500
1.026	o	300	POND	136.578	135.278	1.000	Open Manhole	1500
1.027	o	150	FC	136.350	135.200	1.000	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.002	5.083	28.1	SMH 2	137.190	135.744	1.221	Open Manhole	1500
1.023	8.042	455.0	JUNCTION	137.000	135.351	1.049	Junction	
50.000	1.000	50.0	SIC 116-1	137.010	136.350	0.560	Open Manhole	450
50.001	8.248	16.1	JUNCTION	137.000	135.839	1.061	Junction	
1.024	19.192	457.0	SMH 1	136.780	135.309	0.871	Open Manhole	1500
1.025	13.188	425.4	POND	136.578	135.278	0.700	Open Manhole	1500
1.026	7.176	92.0	FC	136.350	135.200	0.850	Open Manhole	1200
1.027	8.622	8.0		135.770	134.119	1.501	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.027		135.770	134.119	0.000	0	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.840	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 48 Number of Storage Structures 48 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	D2 (1km)	0.417
Return Period (years)	1	D3 (1km)	0.273
FEH Rainfall Version	1999	E (1km)	0.289
Site Location	GB 386850 145550 ST 86850 45550	F (1km)	2.484
C (1km)	-0.027	Summer Storms	No
D1 (1km)	0.363	Winter Storms	Yes

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Online Controls for Storm</u> <u>Orifice Manhole: SIC 206-1, DS/PN: 1.001, Volume (m³): 0.7</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.250 <u>Orifice Manhole: SIC 207-1, DS/PN: 2.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.240 <u>Orifice Manhole: SIC 208-1, DS/PN: 3.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.300 <u>Orifice Manhole: SIC 209-1, DS/PN: 4.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.445 <u>Orifice Manhole: SIC 210-1, DS/PN: 5.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.530 <u>Orifice Manhole: SIC 188-1, DS/PN: 6.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.140 <u>Orifice Manhole: SIC 187-1, DS/PN: 7.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.375 <u>Orifice Manhole: SIC 186-1, DS/PN: 8.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.855 <u>Orifice Manhole: SIC 185-1, DS/PN: 9.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.330 <u>Orifice Manhole: SIC 205-1, DS/PN: 10.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.850 <u>Orifice Manhole: SIC 204-1, DS/PN: 11.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.970 <u>Orifice Manhole: SIC 222-1, DS/PN: 12.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.395 <u>Orifice Manhole: SIC 220-1, DS/PN: 13.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.460 <u>Orifice Manhole: SIC 219-1, DS/PN: 14.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 138.680		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Orifice Manhole: SIC 136-1, DS/PN: 15.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.800 <u>Orifice Manhole: SIC 138-1, DS/PN: 16.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.590 <u>Orifice Manhole: SIC 140-1, DS/PN: 17.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.355 <u>Orifice Manhole: SIC 141-1, DS/PN: 18.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.240 <u>Orifice Manhole: SIC 173-1, DS/PN: 19.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.900 <u>Orifice Manhole: SIC 172-1, DS/PN: 20.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.000 <u>Orifice Manhole: SIC 171-1, DS/PN: 21.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.265 <u>Orifice Manhole: SIC 170-1, DS/PN: 22.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.615 <u>Orifice Manhole: SIC 167-1, DS/PN: 23.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.855 <u>Orifice Manhole: SIC 174-1, DS/PN: 24.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.235 <u>Orifice Manhole: SIC 175-1, DS/PN: 25.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.400 <u>Orifice Manhole: SIC 176-1, DS/PN: 26.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 142.070 <u>Orifice Manhole: SIC 169-1, DS/PN: 27.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.987 <u>Orifice Manhole: SIC 178-1, DS/PN: 28.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.265		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	
<u>Orifice Manhole: SIC 166-1, DS/PN: 29.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 140.829 <u>Orifice Manhole: SIC 184-1, DS/PN: 30.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.795 <u>Orifice Manhole: SIC 182-1, DS/PN: 31.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 142.000 <u>Orifice Manhole: SIC 181-1, DS/PN: 32.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.635 <u>Orifice Manhole: SIC 190-1, DS/PN: 34.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.065 <u>Orifice Manhole: SIC 180-1, DS/PN: 35.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.150 <u>Orifice Manhole: SIC 191-1, DS/PN: 36.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.025 <u>Orifice Manhole: SIC 179-1, DS/PN: 37.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 141.100 <u>Orifice Manhole: SIC 165-1, DS/PN: 38.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.820 <u>Orifice Manhole: SIC 146-1, DS/PN: 39.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.690 <u>Orifice Manhole: SIC 152-1, DS/PN: 40.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.350 <u>Orifice Manhole: SIC 153-1, DS/PN: 41.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 139.160 <u>Orifice Manhole: SIC 154-1, DS/PN: 42.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.805 <u>Orifice Manhole: SIC 155-1, DS/PN: 43.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 138.315		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR																																																																																																																										
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Innovyze	Network 2019.1																																																																																																																										
<u>Orifice Manhole: SIC 148-1, DS/PN: 44.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.370 <u>Orifice Manhole: SIC 150-1, DS/PN: 45.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.370 <u>Orifice Manhole: SIC 111-1, DS/PN: 46.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 137.190 <u>Orifice Manhole: SIC 113-1, DS/PN: 47.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 136.840 <u>Orifice Manhole: SIC 115-1, DS/PN: 49.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 136.480 <u>Hydro-Brake® Optimum Manhole: POND, DS/PN: 1.026, Volume (m³): 5.6</u> <table><tr><td>Unit Reference</td><td colspan="2">MD-SHE-0089-3500-1000-3500</td></tr><tr><td>Design Head (m)</td><td colspan="2">1.000</td></tr><tr><td>Design Flow (l/s)</td><td colspan="2">3.5</td></tr><tr><td>Flush-Flo™</td><td colspan="2">Calculated</td></tr><tr><td>Objective</td><td colspan="2">Minimise upstream storage</td></tr><tr><td>Application</td><td colspan="2">Surface</td></tr><tr><td>Sump Available</td><td colspan="2">Yes</td></tr><tr><td>Diameter (mm)</td><td colspan="2">89</td></tr><tr><td>Invert Level (m)</td><td colspan="2">135.278</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td colspan="2">150</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td colspan="2">1200</td></tr></table> <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>1.000</td><td>3.5</td><td>Kick-Flo®</td><td>0.632</td><td>2.8</td></tr><tr><td>Flush-Flo™</td><td>0.300</td><td>3.5</td><td>Mean Flow over Head Range</td><td>-</td><td>3.1</td></tr></table> The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>2.7</td><td>0.800</td><td>3.1</td><td>2.000</td><td>4.8</td><td>4.000</td><td>6.7</td><td>7.000</td><td>8.7</td></tr><tr><td>0.200</td><td>3.4</td><td>1.000</td><td>3.5</td><td>2.200</td><td>5.0</td><td>4.500</td><td>7.0</td><td>7.500</td><td>9.0</td></tr><tr><td>0.300</td><td>3.5</td><td>1.200</td><td>3.8</td><td>2.400</td><td>5.2</td><td>5.000</td><td>7.4</td><td>8.000</td><td>9.2</td></tr><tr><td>0.400</td><td>3.4</td><td>1.400</td><td>4.1</td><td>2.600</td><td>5.4</td><td>5.500</td><td>7.7</td><td>8.500</td><td>9.5</td></tr><tr><td>0.500</td><td>3.3</td><td>1.600</td><td>4.3</td><td>3.000</td><td>5.8</td><td>6.000</td><td>8.1</td><td>9.000</td><td>9.8</td></tr><tr><td>0.600</td><td>3.0</td><td>1.800</td><td>4.6</td><td>3.500</td><td>6.2</td><td>6.500</td><td>8.4</td><td>9.500</td><td>10.0</td></tr></table>			Unit Reference	MD-SHE-0089-3500-1000-3500		Design Head (m)	1.000		Design Flow (l/s)	3.5		Flush-Flo™	Calculated		Objective	Minimise upstream storage		Application	Surface		Sump Available	Yes		Diameter (mm)	89		Invert Level (m)	135.278		Minimum Outlet Pipe Diameter (mm)	150		Suggested Manhole Diameter (mm)	1200		Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	1.000	3.5	Kick-Flo®	0.632	2.8	Flush-Flo™	0.300	3.5	Mean Flow over Head Range	-	3.1	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.7	0.800	3.1	2.000	4.8	4.000	6.7	7.000	8.7	0.200	3.4	1.000	3.5	2.200	5.0	4.500	7.0	7.500	9.0	0.300	3.5	1.200	3.8	2.400	5.2	5.000	7.4	8.000	9.2	0.400	3.4	1.400	4.1	2.600	5.4	5.500	7.7	8.500	9.5	0.500	3.3	1.600	4.3	3.000	5.8	6.000	8.1	9.000	9.8	0.600	3.0	1.800	4.6	3.500	6.2	6.500	8.4	9.500	10.0
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR																																																																																																																																																																									
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<u>Storage Structures for Storm</u> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 1.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.270</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 2.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>8.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.260</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TK 1, DS/PN: 3.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.9</td></tr><tr><td>Max Percolation (l/s)</td><td>11.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.320</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 4.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.9</td></tr><tr><td>Max Percolation (l/s)</td><td>11.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.465</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK 1, DS/PN: 5.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.6</td></tr><tr><td>Max Percolation (l/s)</td><td>11.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>138.550</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 6.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.8</td></tr><tr><td>Max Percolation (l/s)</td><td>19.2</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>141.160</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 7.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>5.5</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>5.7</td></tr><tr><td>Max Percolation (l/s)</td><td>8.7</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>140.395</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.270	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	8.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.260	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.9	Max Percolation (l/s)	11.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.320	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.9	Max Percolation (l/s)	11.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.465	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.6	Max Percolation (l/s)	11.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.550	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.4	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	19.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	141.160	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	5.5	Membrane Percolation (mm/hr)	1000	Length (m)	5.7	Max Percolation (l/s)	8.7	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	140.395	Membrane Depth (mm)	0
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR																																																																																																																																																																									
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(mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.890	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	10.8	Max Percolation (l/s)	10.2	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.990	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.2	Max Percolation (l/s)	8.5	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.425	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.480	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	8.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	138.700	Membrane Depth (mm)	0
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Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.425	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																																																																							
Max Percolation (l/s)	16.0	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.480	Membrane Depth (mm)	0																																																																																																																																																																							
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0																																																																																																																																																																							
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																																																																							
Max Percolation (l/s)	8.0	Slope (1:X)	0.0																																																																																																																																																																							
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																																																																							
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																																																																							
Invert Level (m)	138.700	Membrane Depth (mm)	0																																																																																																																																																																							
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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 15.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.7 Max Percolation (l/s) 9.8 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.820 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 16.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.2 Max Percolation (l/s) 18.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.610 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 17.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.0 Max Percolation (l/s) 18.3 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.375 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 18.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 16.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.260 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 19.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 9.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.920 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 20.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 9.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.020 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 21.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 9.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.285 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 22.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 9.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.635 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 23.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 16.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.875 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 24.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 6.2 Max Percolation (l/s) 9.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.275 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 25.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 6.2 Max Percolation (l/s) 9.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.440 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 26.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 11.7 Max Percolation (l/s) 10.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.090 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 27.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 13.0 Max Percolation (l/s) 11.9 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.007 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 28.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.3 Membrane Percolation (mm/hr) 1000 Length (m) 11.2 Max Percolation (l/s) 19.6 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.285 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
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File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 29.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 11.3 Max Percolation (l/s) 9.4 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 140.849 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 30.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 6.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 19.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.815 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 31.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 10.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 142.020 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 32.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.4 Membrane Percolation (mm/hr) 1000 Length (m) 10.8 Max Percolation (l/s) 10.2 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.655 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 34.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 8.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.085 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 35.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 9.6 Max Percolation (l/s) 8.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.170 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 36.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.5 Max Percolation (l/s) 8.8 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.045 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 37.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.3 Max Percolation (l/s) 8.6 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 141.120 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 38.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 9.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.0 Max Percolation (l/s) 25.0 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.840 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 39.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 9.0 Membrane Percolation (mm/hr) 1000 Length (m) 10.6 Max Percolation (l/s) 26.5 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 137.710 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 40.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 3.3 Membrane Percolation (mm/hr) 1000 Length (m) 17.6 Max Percolation (l/s) 16.1 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.370 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 41.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 139.180 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 42.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.825 Membrane Depth (mm) 0		
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 43.000</u> Infiltration Coefficient Base (m/hr) 0.01080 Width (m) 5.5 Membrane Percolation (mm/hr) 1000 Length (m) 5.7 Max Percolation (l/s) 8.7 Slope (1:X) 0.0 Safety Factor 5.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 138.335 Membrane Depth (mm) 0		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR																																																																																																																																	
Date 15/07/2025	Designed by EPH																																																																																																																																	
File SWD NETWORK - POND A - 100 YR...	Checked by																																																																																																																																	
Innovyze	Network 2019.1																																																																																																																																	
<u>Porous Car Park Manhole: DIST TANK, DS/PN: 44.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>16.7</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.390</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 45.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.390</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 46.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>137.210</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 47.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.6</td></tr><tr><td>Max Percolation (l/s)</td><td>16.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>136.860</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 49.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>3.3</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.7</td></tr><tr><td>Max Percolation (l/s)</td><td>9.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>136.500</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Tank or Pond Manhole: POND, DS/PN: 1.026</u> Invert Level (m) 135.278 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1637.2</td><td>1.300</td><td>2298.1</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	16.7	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.390	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.390	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.210	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	9.6	Max Percolation (l/s)	16.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.860	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3	Membrane Percolation (mm/hr)	1000	Length (m)	10.7	Max Percolation (l/s)	9.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.500	Membrane Depth (mm)	0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1637.2	1.300	2298.1
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	10.0																																																																																																																															
Max Percolation (l/s)	16.7	Slope (1:X)	0.0																																																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	137.390	Membrane Depth (mm)	0																																																																																																																															
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																															
Max Percolation (l/s)	16.0	Slope (1:X)	0.0																																																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	137.390	Membrane Depth (mm)	0																																																																																																																															
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																															
Max Percolation (l/s)	16.0	Slope (1:X)	0.0																																																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	137.210	Membrane Depth (mm)	0																																																																																																																															
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0																																																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	9.6																																																																																																																															
Max Percolation (l/s)	16.0	Slope (1:X)	0.0																																																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	136.860	Membrane Depth (mm)	0																																																																																																																															
Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.3																																																																																																																															
Membrane Percolation (mm/hr)	1000	Length (m)	10.7																																																																																																																															
Max Percolation (l/s)	9.8	Slope (1:X)	0.0																																																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																																																															
Invert Level (m)	136.500	Membrane Depth (mm)	0																																																																																																																															
Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																																																																																															
0.000	1637.2	1.300	2298.1																																																																																																																															
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Jubb Consulting Engineers Limited		Page 39
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	DIST TANK	0.000	0.06		0.2	OK	
1.001	SIC 206-1	0.000	0.02		0.4	SURCHARGED	
1.002	SMH 14	0.000	0.08		4.6	OK*	
2.000	DIST TANK 1	0.000	0.08		0.3	OK	
2.001	SIC 207-1	0.000	0.01		0.3	OK	
1.003	JUNCTION	0.000	0.16		4.8	OK*	
1.004	SMH 13	0.000	0.08		4.8	OK	
3.000	DIST TK 1	0.000	0.09		0.3	OK	
3.001	SIC 208-1	0.000	0.01		0.3	OK	
1.005	JUNCTION	0.000	0.08		6.6	OK*	
4.000	DIST TANK 1	0.000	0.09		0.3	OK	
4.001	SIC 209-1	0.000	0.01		0.3	OK	
1.006	JUNCTION	0.000	0.11		8.6	OK*	
5.000	DIST TANK 1	0.000	0.06		0.3	OK	
5.001	SIC 210-1	0.000	0.01		0.2	OK	
1.007	JUNCTION	0.000	0.10		8.8	OK*	
1.008	SMH 12	0.000	0.13		8.9	OK	
6.000	DIST TANK	0.000	0.10		0.4	OK	
6.001	SIC 188-1	0.000	0.02		0.4	SURCHARGED	
6.002	SMH 22	0.000	0.05		1.8	OK	
7.000	DIST TANK	0.000	0.09		0.4	OK	
7.001	SIC 187-1	0.000	0.02		0.3	OK	
6.003	JUNCTION	0.000	0.10		3.6	OK*	
8.000	DIST TANK	0.000	0.09		0.4	OK	
8.001	SIC 186-1	0.000	0.02		0.3	OK	
6.004	JUNCTION	0.000	0.10		3.8	OK*	
9.000	DIST TANK	0.000	0.09		0.4	OK	
9.001	SIC 185-1	0.000	0.02		0.3	OK	
6.005	SMH 21	0.000	0.15		4.1	OK	
10.000	DIST TANK	0.000	0.07		0.4	OK	
10.001	SIC 205-1	0.000	0.02		0.4	OK	
6.006	SMH 20	0.000	0.18		4.4	OK	

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Plymouth, PL6 8LR

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File SWD NETWORK - POND A - 100 YR...

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VICTORIA ROAD
SWD NETWORK- POND A
1 YEAR

Designed by EPH
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
11.000	DIST TANK	60 Winter	1	+0%					139.043	-0.047
11.001	SIC 204-1	60 Winter	1	+0%					139.048	-0.022
6.007	JUNCTION	15 Winter	1	+0%					138.179	-0.111
6.008	SMH 19	15 Winter	1	+0%					137.943	-0.118
1.009	SMH 11	15 Winter	1	+0%					136.338	-0.274
12.000	DIST TANK	30 Winter	1	+0%					138.452	-0.073
12.001	SIC 222-1	30 Winter	1	+0%					138.447	-0.048
12.002	SMH 18	15 Winter	1	+0%					137.916	-0.124
13.000	DIS TANK	30 Winter	1	+0%					138.518	-0.062
13.001	SIC 220-1	30 Winter	1	+0%					138.517	-0.043
12.003	JUNCTION	30 Winter	1	+0%					137.730	-0.119
14.000	DIST TANK	15 Winter	1	+0%					138.761	-0.039
14.001	SIC 219-1	15 Winter	1	+0%					138.760	-0.020
12.004	JUNCTION	30 Winter	1	+0%					137.548	-0.110
12.005	SMH 17	15 Winter	1	+0%					137.279	-0.180
15.000	DIST TANK	60 Winter	1	+0%					138.869	-0.051
15.001	SIC 136-1	60 Winter	1	+0%					138.875	-0.025
12.006	JUNCTION	15 Winter	1	+0%					137.100	-0.181
16.000	DIST TANK	120 Winter	1	+0%					138.658	-0.052
16.001	SIC 138-1	120 Winter	1	+0%					138.663	-0.027
12.007	JUNCTION	15 Winter	1	+0%					136.871	-0.161
17.000	DIST TANK	120 Winter	1	+0%					138.424	-0.051
17.001	SIC 140-1	120 Winter	1	+0%					138.429	-0.026
12.008	JUNCTION	15 Winter	1	+0%					136.590	-0.156
18.000	DIST TANK	120 Winter	1	+0%					138.288	-0.072
18.001	SIC 141-1	120 Winter	1	+0%					138.288	-0.052
1.010	SMH 10	15 Winter	1	+0%					136.000	-0.377
1.011	SMH 9	15 Winter	1	+0%					135.981	-0.372
19.000	DIST TANK	60 Winter	1	+0%					139.963	-0.057
19.001	SIC 173-1	60 Winter	1	+0%					139.967	-0.033
19.002	SMH 32	15 Winter	1	+0%					139.381	-0.114
20.000	DIST TANK	60 Winter	1	+0%					140.058	-0.062
20.001	SIC 172-1	120 Winter	1	+0%					140.058	-0.042
19.003	JUNCTION	15 Winter	1	+0%					139.306	-0.104
21.000	DIST TANK	60 Winter	1	+0%					140.342	-0.043
21.001	SIC 171-1	60 Winter	1	+0%					140.345	-0.020
19.004	SMH 31	15 Winter	1	+0%					139.203	-0.099
22.000	DIST TANK	60 Winter	1	+0%					140.684	-0.051
22.001	SIC 170-1	60 Winter	1	+0%					140.688	-0.027
19.005	JUNCTION	15 Winter	1	+0%					139.113	-0.099
23.000	DIST TANK	120 Winter	1	+0%					140.899	-0.076
23.001	SIC 167-1	120 Winter	1	+0%					140.898	-0.057
19.006	JUNCTION	15 Winter	1	+0%					139.004	-0.088
19.007	SMH 30	15 Winter	1	+0%					138.824	-0.085
24.000	DIST TANK	60 Winter	1	+0%					141.320	-0.055
24.001	SIC 174-1	60 Winter	1	+0%					141.320	-0.015
24.002	SMH 34	15 Winter	1	+0%					141.155	-0.120
25.000	DIST TANK	60 Winter	1	+0%					141.485	-0.055
25.001	SIC 175-1	60 Winter	1	+0%					141.485	-0.015
24.003	JUNCTION	15 Winter	1	+0%					141.086	-0.109
24.004	SMH 33	15 Winter	1	+0%					140.887	-0.117
19.008	SMH 29	15 Winter	1	+0%					138.647	-0.153
26.000	DIST TANK	60 Winter	1	+0%					142.146	-0.044
26.001	SIC 176-1	60 Winter	1	+0%					142.151	-0.019
19.009	JUNCTION	15 Winter	1	+0%					138.517	-0.133
27.000	DIST TANK	60 Winter	1	+0%					142.048	-0.059
27.001	SIC 169-1	60 Winter	1	+0%					142.052	-0.035
19.010	SMH 28	15 Winter	1	+0%					138.465	-0.141
28.000	DIST TANK	120 Winter	1	+0%					141.346	-0.039
28.001	SIC 178-1	120 Winter	1	+0%					141.351	-0.014
19.011	JUNCTION	15 Winter	1	+0%					138.395	-0.141
29.000	DIST TANK	60 Winter	1	+0%					140.883	-0.066
29.001	SIC 166-1	120 Summer	1	+0%					140.884	-0.045
30.000	DIST TANK	120 Winter	1	+0%					141.877	-0.038

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
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File SWD NETWORK - POND A - 100 YR...	Checked by	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
11.000	DIST TANK	0.000	0.09		0.3	OK	
11.001	SIC 204-1	0.000	0.02		0.3	OK	
6.007	JUNCTION	0.000	0.16		4.7	OK*	
6.008	SMH 19	0.000	0.10		6.2	OK	
1.009	SMH 11	0.000	0.16		20.6	OK	
12.000	DIST TANK	0.000	0.15		0.7	OK	
12.001	SIC 222-1	0.000	0.04		0.7	OK	
12.002	SMH 18	0.000	0.07		1.2	OK	
13.000	DIS TANK	0.000	0.21		0.8	OK	
13.001	SIC 220-1	0.000	0.04		0.8	OK	
12.003	JUNCTION	0.000	0.10		2.0	OK*	
14.000	DIST TANK	0.000	0.31		1.2	OK	
14.001	SIC 219-1	0.000	0.05		1.2	OK	
12.004	JUNCTION	0.000	0.16		3.2	OK*	
12.005	SMH 17	0.000	0.09		4.8	OK	
15.000	DIST TANK	0.000	0.08		0.3	OK	
15.001	SIC 136-1	0.000	0.01		0.3	OK	
12.006	JUNCTION	0.000	0.08		5.5	OK*	
16.000	DIST TANK	0.000	0.08		0.3	OK	
16.001	SIC 138-1	0.000	0.01		0.3	OK	
12.007	JUNCTION	0.000	0.17		11.5	OK*	
17.000	DIST TANK	0.000	0.08		0.3	OK	
17.001	SIC 140-1	0.000	0.01		0.3	OK	
12.008	JUNCTION	0.000	0.20		13.3	OK*	
18.000	DIST TANK	0.000	0.06		0.2	OK	
18.001	SIC 141-1	0.000	0.01		0.2	OK	
1.010	SMH 10	0.000	0.23		38.6	OK	
1.011	SMH 9	0.000	0.17		44.0	OK	
19.000	DIST TANK	0.000	0.08		0.3	OK	
19.001	SIC 173-1	0.000	0.02		0.3	OK	
19.002	SMH 32	0.000	0.13		2.1	OK	
20.000	DIST TANK	0.000	0.07		0.3	OK	
20.001	SIC 172-1	0.000	0.01		0.3	OK	
19.003	JUNCTION	0.000	0.20		3.6	OK*	
21.000	DIST TANK	0.000	0.07		0.3	OK	
21.001	SIC 171-1	0.000	0.01		0.3	OK	
19.004	SMH 31	0.000	0.25		3.9	OK	
22.000	DIST TANK	0.000	0.08		0.3	OK	
22.001	SIC 170-1	0.000	0.01		0.3	OK	
19.005	JUNCTION	0.000	0.25		4.5	OK*	
23.000	DIST TANK	0.000	0.06		0.2	OK	
23.001	SIC 167-1	0.000	0.01		0.2	OK	
19.006	JUNCTION	0.000	0.35		6.3	OK*	
19.007	SMH 30	0.000	0.39		6.3	OK	
24.000	DIST TANK	0.000	0.06		0.4	OK	
24.001	SIC 174-1	0.000	0.05		0.3	OK	
24.002	SMH 34	0.000	0.09		1.4	OK	
25.000	DIST TANK	0.000	0.06		0.4	OK	
25.001	SIC 175-1	0.000	0.02		0.3	OK	
24.003	JUNCTION	0.000	0.16		2.9	OK*	
24.004	SMH 33	0.000	0.11		2.9	OK	
19.008	SMH 29	0.000	0.22		10.3	OK	
26.000	DIST TANK	0.000	0.09		0.3	OK	
26.001	SIC 176-1	0.000	0.01		0.3	OK	
19.009	JUNCTION	0.000	0.35		10.5	OK*	
27.000	DIST TANK	0.000	0.08		0.3	OK	
27.001	SIC 169-1	0.000	0.01		0.3	OK	
19.010	SMH 28	0.000	0.30		11.1	OK	
28.000	DIST TANK	0.000	0.09		0.4	OK	
28.001	SIC 178-1	0.000	0.01		0.3	OK	
19.011	JUNCTION	0.000	0.30		15.4	OK*	
29.000	DIST TANK	0.000	0.07		0.3	OK	
29.001	SIC 166-1	0.000	0.01		0.3	OK	

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File SWD NETWORK - POND A - 100 YR...

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VICTORIA ROAD
SWD NETWORK- POND A
1 YEAR

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
30.001	SIC 184-1	120 Winter	1	+0%					141.882	-0.013
30.002	SMH 27	15 Winter	1	+0%					141.643	-0.132
31.000	DIST TANK	60 Winter	1	+0%					142.062	-0.058
31.001	SIC 182-1	60 Winter	1	+0%					142.066	-0.034
30.003	SMH 26	15 Winter	1	+0%					141.467	-0.123
30.004	SMH 25	15 Winter	1	+0%					141.361	-0.124
32.000	DIST TANK	60 Winter	1	+0%					141.708	-0.047
32.001	SIC 181-1	60 Winter	1	+0%					141.712	-0.023
30.005	JUNCTION	15 Winter	1	+0%					141.284	-0.118
33.000	HD CP1	15 Summer	1	+0%					140.859	-0.101
30.006	SMH 24	15 Winter	1	+0%					140.681	-0.179
34.000	DIST TANK	60 Winter	1	+0%					141.124	-0.061
34.001	SIC 190-1	30 Winter	1	+0%					141.126	-0.039
30.007	JUNCTION	15 Winter	1	+0%					139.847	-0.142
35.000	DIST TANK	60 Winter	1	+0%					141.209	-0.061
35.001	SIC 180-1	30 Winter	1	+0%					141.211	-0.039
30.008	JUNCTION	15 Winter	1	+0%					139.772	-0.179
36.000	DIST TANK	60 Winter	1	+0%					141.081	-0.064
36.001	SIC 191-1	60 Winter	1	+0%					141.084	-0.041
30.009	JUNCTION	15 Winter	1	+0%					139.372	-0.149
37.000	DIST TANK	60 Winter	1	+0%					141.157	-0.063
37.001	SIC 179-1	30 Winter	1	+0%					141.158	-0.042
30.010	JUNCTION	15 Winter	1	+0%					139.257	-0.170
19.012	SMH 23	15 Winter	1	+0%					138.206	-0.184
38.000	DIST TANK	120 Winter	1	+0%					139.865	-0.075
38.001	SIC 165-1	120 Winter	1	+0%					139.865	-0.055
19.013	JUNCTION	15 Winter	1	+0%					138.054	-0.182
1.012	SMH 8	15 Winter	1	+0%					135.954	-0.337
1.013	SMH 7	15 Winter	1	+0%					135.906	-0.333
1.014	SMH 6	15 Winter	1	+0%					135.847	-0.323
39.000	DIST TANK	180 Winter	1	+0%					137.768	-0.042
39.001	SIC 146-1	180 Winter	1	+0%					137.773	-0.017
1.015	JUNCTION	15 Winter	1	+0%					135.827	-0.328
40.000	DIST TANK	120 Winter	1	+0%					139.417	-0.053
40.001	SIC 152_1	120 Winter	1	+0%					139.421	-0.029
41.000	DIST TANK	60 Winter	1	+0%					139.234	-0.046
41.001	SIC 153-1	30 Winter	1	+0%					139.236	-0.024
40.002	SMH 36	60 Winter	1	+0%					138.490	-0.135
42.000	DIST TANK	60 Winter	1	+0%					138.879	-0.046
42.001	SIC 154-1	30 Winter	1	+0%					138.881	-0.024
40.003	JUNCTION	60 Winter	1	+0%					138.144	-0.133
43.000	DIST TANK	60 Winter	1	+0%					138.389	-0.046
43.001	SIC 155-1	30 Winter	1	+0%					138.391	-0.024
40.004	JUNCTION	60 Winter	1	+0%					137.679	-0.130
40.005	SMH 35	15 Winter	1	+0%					137.454	-0.119
1.016	SMH 5	15 Winter	1	+0%					135.810	-0.323
44.000	DIST TANK	120 Winter	1	+0%					137.439	-0.051
44.001	SIC 148-1	120 Winter	1	+0%					137.444	-0.026
1.017	JUNCTION	15 Winter	1	+0%					135.792	-0.327
1.018	SMH 4	15 Winter	1	+0%					135.769	-0.322
45.000	DIST TANK	120 Winter	1	+0%					137.441	-0.049
45.001	SIC 150-1	120 Winter	1	+0%					137.446	-0.024
1.019	JUNCTION	15 Winter	1	+0%					135.759	-0.323
1.020	SMH 3	15 Winter	1	+0%					135.736	-0.320
46.000	DIST TANK	120 Winter	1	+0%					137.261	-0.049
46.001	SIC 111-1	120 Winter	1	+0%					137.266	-0.024
1.021	JUNCTION	15 Winter	1	+0%					135.724	-0.322
47.000	DIST TANK	120 Winter	1	+0%					136.907	-0.053
47.001	SIC 113-1	120 Winter	1	+0%					136.912	-0.028
1.022	JUNCTION	15 Winter	1	+0%					135.696	-0.313
48.000	SWMH 114-3	15 Winter	1	+0%					137.515	-0.110
48.001	SWMH 114-2	15 Winter	1	+0%					136.489	-0.176
49.000	DIST TANK	60 Winter	1	+0%					136.549	-0.051
49.001	SIC 115-1	60 Winter	1	+0%					136.555	-0.025

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD SWD NETWORK- POND A 1 YEAR				
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File SWD NETWORK - POND A - 100 YR...			Checked by				
Innovyze			Network 2019.1				
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>							
PN	US/MH Name	Flooded Volume (m³)	Flow / Overflow Cap.	Pipe Flow (l/s)	Status	Level Exceeded	
30.001	SIC 184-1	0.000	0.04	0.3	OK		
30.002	SMH 27	0.000	0.04	0.7	OK		
31.000	DIST TANK	0.000	0.08	0.3	OK		
31.001	SIC 182-1	0.000	0.02	0.3	OK		
30.003	SMH 26	0.000	0.07	1.3	OK		
30.004	SMH 25	0.000	0.07	1.3	OK		
32.000	DIST TANK	0.000	0.08	0.3	OK		
32.001	SIC 181-1	0.000	0.03	0.3	OK		
30.005	JUNCTION	0.000	0.10	3.1	OK*		
33.000	HD CP1	0.000	0.24	3.8	OK		
30.006	SMH 24	0.000	0.09	8.3	OK		
34.000	DIST TANK	0.000	0.07	0.3	OK		
34.001	SIC 190-1	0.000	0.01	0.3	OK		
30.007	JUNCTION	0.000	0.29	8.6	OK*		
35.000	DIST TANK	0.000	0.07	0.3	OK		
35.001	SIC 180-1	0.000	0.01	0.3	OK		
30.008	JUNCTION	0.000	0.10	8.8	OK*		
36.000	DIST TANK	0.000	0.07	0.3	OK		
36.001	SIC 191-1	0.000	0.01	0.3	OK		
30.009	JUNCTION	0.000	0.25	10.8	OK*		
37.000	DIST TANK	0.000	0.07	0.3	OK		
37.001	SIC 179-1	0.000	0.01	0.3	OK		
30.010	JUNCTION	0.000	0.13	13.4	OK*		
19.012	SMH 23	0.000	0.31	29.4	OK		
38.000	DIST TANK	0.000	0.06	0.2	OK		
38.001	SIC 165-1	0.000	0.01	0.2	OK		
19.013	JUNCTION	0.000	0.33	36.3	OK*		
1.012	SMH 8	0.000	0.32	80.0	OK		
1.013	SMH 7	0.000	0.31	82.9	OK		
1.014	SMH 6	0.000	0.42	81.6	OK		
39.000	DIST TANK	0.000	0.09	0.4	OK		
39.001	SIC 146-1	0.000	0.01	0.3	OK		
1.015	JUNCTION	0.000	0.31	83.3	OK*		
40.000	DIST TANK	0.000	0.08	0.3	OK		
40.001	SIC 152_1	0.000	0.01	0.3	OK		
41.000	DIST TANK	0.000	0.08	0.3	OK		
41.001	SIC 153-1	0.000	0.02	0.3	OK		
40.002	SMH 36	0.000	0.02	0.6	OK		
42.000	DIST TANK	0.000	0.08	0.3	OK		
42.001	SIC 154-1	0.000	0.02	0.3	OK		
40.003	JUNCTION	0.000	0.03	0.9	OK*		
43.000	DIST TANK	0.000	0.08	0.3	OK		
43.001	SIC 155-1	0.000	0.02	0.3	OK		
40.004	JUNCTION	0.000	0.04	1.3	OK*		
40.005	SMH 35	0.000	0.09	4.2	OK		
1.016	SMH 5	0.000	0.42	86.2	OK		
44.000	DIST TANK	0.000	0.08	0.3	OK		
44.001	SIC 148-1	0.000	0.01	0.3	OK		
1.017	JUNCTION	0.000	0.34	88.0	OK*		
1.018	SMH 4	0.000	0.39	86.4	OK		
45.000	DIST TANK	0.000	0.08	0.3	OK		
45.001	SIC 150-1	0.000	0.01	0.3	OK		
1.019	JUNCTION	0.000	0.34	86.2	OK*		
1.020	SMH 3	0.000	0.40	85.9	OK		
46.000	DIST TANK	0.000	0.08	0.3	OK		
46.001	SIC 111-1	0.000	0.01	0.3	OK		
1.021	JUNCTION	0.000	0.31	85.8	OK*		
47.000	DIST TANK	0.000	0.08	0.3	OK		
47.001	SIC 113-1	0.000	0.02	0.3	OK		
1.022	JUNCTION	0.000	0.30	85.3	OK*		
48.000	SWMH 114-3	0.000	0.16	4.3	OK		
48.001	SWMH 114-2	0.000	0.11	7.7	OK		
49.000	DIST TANK	0.000	0.08	0.3	OK		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025 File SWD NETWORK - POND A - 100 YR...	Designed by EPH Checked by	
Innovyze	Network 2019.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded	Flow / Overflow		Pipe	Level	
		Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status	Exceeded
49.001	SIC 115-1	0.000	0.02		0.3	OK	

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND A 1 YEAR	
Date 15/07/2025	Designed by EPH	
File SWD NETWORK - POND A - 100 YR...	Checked by	
Innovyze	Network 2019.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
48.002	SWMH 114-1	15 Winter	1	+0%					135.979	-0.171
1.023	SMH 2	15 Winter	1	+0%					135.671	-0.298
50.000	DIST TANK	15 Winter	1	+0%					136.418	-0.052
50.001	SIC 116-1	15 Winter	1	+0%					136.374	-0.076
1.024	JUNCTION	15 Winter	1	+0%					135.625	-0.326
1.025	SMH 1	15 Winter	1	+0%					135.594	-0.315
1.026	POND	2880 Winter	1	+0%					135.513	-0.065
1.027	FC	2880 Winter	1	+0%					135.224	-0.126

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
48.002	SWMH 114-1	0.000	0.13		7.8	OK	
1.023	SMH 2	0.000	0.51		87.6	OK	
50.000	DIST TANK	0.000	0.46		1.8	OK	
50.001	SIC 116-1	0.000	0.13		1.8	OK	
1.024	JUNCTION	0.000	0.30		87.4	OK*	
1.025	SMH 1	0.000	0.46		87.4	OK	
1.026	POND	0.000	0.05		3.5	OK	
1.027	FC	0.000	0.06		3.5	OK	