

Jubb Consulting Engineers Limited		Page 1
Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC	
Date 09/09/2025 File SWD NETWORK - POND C - ...	Designed by EPH 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)
0-4	0.548	4-8	0.394

Total Area Contributing (ha) = 0.942

Total Pipe Volume (m³) = 71.705

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN (m)	Length (m)	Fall (1:X)	Slope (ha)	I.Area (mins)	T.E. (Flow)	Base (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
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Network Results Table

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Network Design Table for Storm

PN	Rain	T.C.	US/IL	Σ I	Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)		(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)

Jubb Consulting Engineers Limited

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

Date 09/09/2025
File SWD NETWORK - POND C - ...

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VICTORIA ROAD
SWD NETWORK- POND C
100 YEAR PLUS 45 CC

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Micro Drainage

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
1.006	12.250	0.342	35.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
6.000	1.000	0.020	50.0	0.016	4.00	0.0	0.600	o	100	Pipe/Conduit	
6.001	6.500	1.545	4.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.007	15.765	0.440	35.8	0.016	0.00	0.0	0.600	o	225	Pipe/Conduit	
7.000	1.000	0.020	50.0	0.003	4.00	0.0	0.600	o	100	Pipe/Conduit	
7.001	4.783	0.280	17.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
7.002	2.653	0.155	17.1	0.003	0.00	0.0	0.600	o	100	Pipe/Conduit	
7.003	4.338	0.043	100.9	0.017	0.00	0.0	0.600	o	225	Pipe/Conduit	
8.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
8.001	4.755	0.508	9.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
7.004	3.615	0.036	100.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
9.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
9.001	4.755	0.814	5.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
7.005	10.565	0.106	99.7	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.006	50.00	4.51	134.562	0.152	0.0	0.0	0.0	2.19	87.2	20.6
6.000	50.00	4.02	135.910	0.016	0.0	0.0	0.0	1.09	8.6	2.2
6.001	50.00	4.04	135.890	0.016	0.0	0.0	0.0	3.80	29.8	2.2
1.007	50.00	4.63	134.220	0.184	0.0	0.0	0.0	2.19	87.2	24.9
7.000	50.00	4.02	134.645	0.003	0.0	0.0	0.0	1.09	8.6	0.4
7.001	50.00	4.06	134.625	0.003	0.0	0.0	0.0	1.88	14.7	0.4
7.002	50.00	4.08	134.345	0.006	0.0	0.0	0.0	1.88	14.7	0.8
7.003	50.00	4.14	134.065	0.023	0.0	0.0	0.0	1.30	51.8	3.1
8.000	50.00	4.02	134.675	0.013	0.0	0.0	0.0	1.09	8.6	1.8
8.001	50.00	4.05	134.655	0.013	0.0	0.0	0.0	2.54	20.0	1.8
7.004	50.00	4.18	134.022	0.036	0.0	0.0	0.0	1.30	51.9	4.9
9.000	50.00	4.02	134.945	0.014	0.0	0.0	0.0	1.09	8.6	1.9
9.001	50.00	4.04	134.925	0.014	0.0	0.0	0.0	3.22	25.3	1.9
7.005	50.00	4.32	133.986	0.050	0.0	0.0	0.0	1.31	52.1	6.8

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<u>Network Design Table for Storm</u>												
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
10.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit		
10.001	6.064	1.090	5.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
7.006	10.172	0.100	101.7	0.011	0.00	0.0	0.600	o	225	Pipe/Conduit		
11.000	1.000	0.020	50.0	0.020	4.00	0.0	0.600	o	100	Pipe/Conduit		
11.001	6.628	1.705	3.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.008	7.018	0.035	200.5	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
12.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit		
12.001	6.057	1.630	3.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.009	8.052	0.040	200.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
13.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit		
13.001	6.057	1.160	5.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.010	8.249	0.041	200.0	0.023	0.00	0.0	0.600	o	375	Pipe/Conduit		
1.011	10.489	0.052	200.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
14.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
10.000	50.00	4.02	135.115	0.013	0.0	0.0	0.0	1.09	8.6	1.8		
10.001	50.00	4.05	135.095	0.013	0.0	0.0	0.0	3.30	25.9	1.8		
7.006	50.00	4.45	133.880	0.074	0.0	0.0	0.0	1.30	51.5	10.0		
11.000	50.00	4.02	135.630	0.020	0.0	0.0	0.0	1.09	8.6	2.7		
11.001	50.00	4.04	135.610	0.020	0.0	0.0	0.0	3.95	31.0	2.7		
1.008	50.00	4.73	133.630	0.278	0.0	0.0	0.0	1.28	140.9	37.6		
12.000	50.00	4.02	135.520	0.013	0.0	0.0	0.0	1.09	8.6	1.8		
12.001	50.00	4.04	135.500	0.013	0.0	0.0	0.0	4.04	31.7	1.8		
1.009	50.00	4.83	133.595	0.291	0.0	0.0	0.0	1.28	141.1	39.4		
13.000	50.00	4.02	135.010	0.013	0.0	0.0	0.0	1.09	8.6	1.8		
13.001	50.00	4.04	134.990	0.013	0.0	0.0	0.0	3.41	26.8	1.8		
1.010	50.00	4.94	133.555	0.327	0.0	0.0	0.0	1.28	141.1	44.3		
1.011	50.00	5.08	133.514	0.327	0.0	0.0	0.0	1.28	141.1	44.3		
14.000	50.00	4.02	135.030	0.018	0.0	0.0	0.0	1.09	8.6	2.4		
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<u>Network Design Table for Storm</u>												
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
14.001	4.612	1.273	3.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.012	6.372	0.038	165.8	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
15.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit		
15.001	5.000	1.101	4.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.013	14.162	0.085	165.8	0.006	0.00	0.0	0.600	o	375	Pipe/Conduit		
16.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit		
16.001	5.000	0.966	5.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.014	10.656	0.064	165.8	0.015	0.00	0.0	0.600	o	375	Pipe/Conduit		
17.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit		
17.001	6.520	0.860	7.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.015	7.357	0.044	165.8	0.020	0.00	0.0	0.600	o	375	Pipe/Conduit		
18.000	1.000	0.020	50.0	0.031	4.00	0.0	0.600	o	100	Pipe/Conduit		
18.001	6.520	0.824	7.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
14.001	50.00	4.03	135.010	0.018		0.0	0.0	0.0	4.09	32.1	2.4	
1.012	50.00	5.15	133.462	0.345		0.0	0.0	0.0	1.40	155.1	46.7	
15.000	50.00	4.02	134.820	0.018		0.0	0.0	0.0	1.09	8.6	2.4	
15.001	50.00	4.04	134.800	0.018		0.0	0.0	0.0	3.65	28.7	2.4	
1.013	50.00	5.32	133.424	0.369		0.0	0.0	0.0	1.40	155.1	50.0	
16.000	50.00	4.02	134.600	0.012		0.0	0.0	0.0	1.09	8.6	1.6	
16.001	50.00	4.04	134.580	0.012		0.0	0.0	0.0	3.42	26.9	1.6	
1.014	50.00	5.45	133.339	0.396		0.0	0.0	0.0	1.40	155.1	53.6	
17.000	50.00	4.02	134.430	0.014		0.0	0.0	0.0	1.09	8.6	1.9	
17.001	50.00	4.05	134.410	0.014		0.0	0.0	0.0	2.83	22.2	1.9	
1.015	50.00	5.53	133.275	0.430		0.0	0.0	0.0	1.40	155.1	58.2	
18.000	50.00	4.02	134.350	0.031		0.0	0.0	0.0	1.09	8.6	4.2	
18.001	50.00	4.05	134.330	0.031		0.0	0.0	0.0	2.77	21.7	4.2	
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<u>Network Design Table for Storm</u>												
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
1.016	8.814	0.053	165.8	0.010	0.00	0.0	0.600	o	375	Pipe/Conduit		
19.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit		
19.001	5.000	0.762	6.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.017	6.040	0.036	165.8	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
1.018	28.109	0.133	212.1	0.018	0.00	0.0	0.600	o	375	Pipe/Conduit		
20.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit		
20.001	5.770	0.606	9.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.019	6.193	0.029	212.1	0.019	0.00	0.0	0.600	o	375	Pipe/Conduit		
21.000	1.000	0.020	50.0	0.021	4.00	0.0	0.600	o	100	Pipe/Conduit		
21.001	6.000	0.435	13.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.020	6.892	0.032	215.4	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
22.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit		
22.001	5.500	0.512	10.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.021	5.398	0.025	215.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.016	50.00	5.64	133.231	0.471	0.0	0.0	0.0	1.40	155.1	63.8		
19.000	50.00	4.02	134.235	0.014	0.0	0.0	0.0	1.09	8.6	1.9		
19.001	50.00	4.04	134.215	0.014	0.0	0.0	0.0	3.04	23.9	1.9		
1.017	50.00	5.71	133.178	0.485	0.0	0.0	0.0	1.40	155.1	65.7		
1.018	50.00	6.09	133.142	0.503	0.0	0.0	0.0	1.24	137.0	68.1		
20.000	50.00	4.02	133.910	0.018	0.0	0.0	0.0	1.09	8.6	2.4		
20.001	50.00	4.05	133.890	0.018	0.0	0.0	0.0	2.52	19.8	2.4		
1.019	50.00	6.17	133.009	0.540	0.0	0.0	0.0	1.24	137.0	73.1		
21.000	50.00	4.02	133.710	0.021	0.0	0.0	0.0	1.09	8.6	2.8		
21.001	50.00	4.06	133.690	0.021	0.0	0.0	0.0	2.09	16.4	2.8		
1.020	50.00	6.26	132.980	0.561	0.0	0.0	0.0	1.23	135.9	76.0		
22.000	50.00	4.02	133.755	0.018	0.0	0.0	0.0	1.09	8.6	2.4		
22.001	50.00	4.05	133.735	0.018	0.0	0.0	0.0	2.37	18.6	2.4		
1.021	50.00	6.34	132.948	0.579	0.0	0.0	0.0	1.23	135.7	78.4		
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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
23.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
23.001	6.000	0.332	18.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.022	9.412	0.044	213.9	0.018	0.00	0.0	0.600	o	375	Pipe/Conduit	
24.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
24.001	5.500	0.421	13.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.023	9.708	0.046	211.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
25.000	1.000	0.020	50.0	0.021	4.00	0.0	0.600	o	100	Pipe/Conduit	
25.001	5.500	0.327	16.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.024	5.093	0.024	213.9	0.018	0.00	0.0	0.600	o	375	Pipe/Conduit	
26.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
26.001	4.444	0.321	13.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.025	8.633	0.021	411.1	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
27.000	1.000	0.020	50.0	0.027	4.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
23.000	50.00	4.02	133.550	0.014	0.0	0.0	0.0	1.09	8.6	1.9
23.001	50.00	4.07	133.530	0.014	0.0	0.0	0.0	1.83	14.3	1.9
1.022	50.00	6.46	132.923	0.611	0.0	0.0	0.0	1.23	136.4	82.7
24.000	50.00	4.02	133.595	0.013	0.0	0.0	0.0	1.09	8.6	1.8
24.001	50.00	4.06	133.575	0.013	0.0	0.0	0.0	2.15	16.9	1.8
1.023	50.00	6.59	132.879	0.624	0.0	0.0	0.0	1.24	137.3	84.5
25.000	50.00	4.02	133.455	0.021	0.0	0.0	0.0	1.09	8.6	2.8
25.001	50.00	4.06	133.435	0.021	0.0	0.0	0.0	1.89	14.9	2.8
1.024	50.00	6.66	132.833	0.663	0.0	0.0	0.0	1.23	136.4	89.8
26.000	50.00	4.02	133.425	0.013	0.0	0.0	0.0	1.09	8.6	1.8
26.001	50.00	4.05	133.405	0.013	0.0	0.0	0.0	2.09	16.4	1.8
1.025	50.00	6.78	132.584	0.676	0.0	0.0	0.0	1.19	337.8	91.5
27.000	50.00	4.02	133.265	0.027	0.0	0.0	0.0	1.09	8.6	3.7

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

VICTORIA ROAD
SWD NETWORK- POND C
100 YEAR PLUS 45 CC

Date 09/09/2025
File SWD NETWORK - POND C - ...

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
27.001	4.687	0.088	53.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
27.002	11.831	0.026	450.0	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
28.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
28.001	4.412	0.217	20.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
27.003	10.306	0.023	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
29.000	1.000	0.020	50.0	0.013	4.00	0.0	0.600	o	100	Pipe/Conduit	
29.001	4.412	0.370	11.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
27.004	10.146	0.023	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
30.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit	
30.001	4.412	0.518	8.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
27.005	10.189	0.023	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.026	18.085	0.090	200.6	0.018	0.00	0.0	0.600	o	600	Pipe/Conduit	
31.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit	
31.001	5.614	0.975	5.8	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)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
27.001	50.00	4.09	133.245	0.027	0.0	0.0	0.0	1.06	8.3	3.7
27.002	50.00	4.26	132.658	0.047	0.0	0.0	0.0	1.14	322.7	6.4
28.000	50.00	4.02	133.380	0.013	0.0	0.0	0.0	1.09	8.6	1.8
28.001	50.00	4.06	133.360	0.013	0.0	0.0	0.0	1.72	13.5	1.8
27.003	50.00	4.41	132.632	0.060	0.0	0.0	0.0	1.14	322.7	8.1
29.000	50.00	4.02	133.510	0.013	0.0	0.0	0.0	1.09	8.6	1.8
29.001	50.00	4.05	133.490	0.013	0.0	0.0	0.0	2.25	17.7	1.8
27.004	50.00	4.56	132.609	0.073	0.0	0.0	0.0	1.14	322.7	9.9
30.000	50.00	4.02	133.635	0.014	0.0	0.0	0.0	1.09	8.6	1.9
30.001	50.00	4.04	133.615	0.014	0.0	0.0	0.0	2.66	20.9	1.9
27.005	50.00	4.71	132.586	0.087	0.0	0.0	0.0	1.14	322.7	11.8
1.026	50.00	6.96	132.563	0.781	0.0	0.0	0.0	1.72	485.1	105.8
31.000	50.00	4.02	134.795	0.010	0.0	0.0	0.0	1.09	8.6	1.4
31.001	50.00	4.04	134.775	0.010	0.0	0.0	0.0	3.24	25.5	1.4

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR					VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC							
Date 09/09/2025					Designed by EPH							
File SWD NETWORK - POND C - ...					Checked by							
Innovyze					Network 2019.1							
<u>Network Design Table for Storm</u>												
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	
31.002	10.997	0.590	18.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
32.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit		
32.001	3.292	1.035	3.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
31.003	17.753	0.039	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit		
33.000	1.000	0.020	50.0	0.023	4.00	0.0	0.600	o	100	Pipe/Conduit		
33.001	4.162	0.704	5.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
31.004	22.450	0.050	449.0	0.025	0.00	0.0	0.600	o	600	Pipe/Conduit		
34.000	1.000	0.020	50.0	0.014	4.00	0.0	0.600	o	100	Pipe/Conduit		
34.001	4.264	0.369	11.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
31.005	9.515	0.021	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit		
35.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit		
35.001	4.309	0.300	14.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
31.006	9.803	0.022	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit		
<u>Network Results Table</u>												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
31.002	50.00	4.12	133.750	0.010	0.0	0.0	0.0	2.34	41.4	1.4		
32.000	50.00	4.02	134.265	0.019	0.0	0.0	0.0	1.09	8.6	2.6		
32.001	50.00	4.03	134.245	0.019	0.0	0.0	0.0	4.37	34.3	2.6		
31.003	50.00	4.38	132.710	0.029	0.0	0.0	0.0	1.14	322.7	3.9		
33.000	50.00	4.02	133.895	0.023	0.0	0.0	0.0	1.09	8.6	3.1		
33.001	50.00	4.04	133.875	0.023	0.0	0.0	0.0	3.20	25.1	3.1		
31.004	50.00	4.71	132.671	0.077	0.0	0.0	0.0	1.14	323.1	10.4		
34.000	50.00	4.02	133.510	0.014	0.0	0.0	0.0	1.09	8.6	1.9		
34.001	50.00	4.05	133.490	0.014	0.0	0.0	0.0	2.29	18.0	1.9		
31.005	50.00	4.85	132.621	0.091	0.0	0.0	0.0	1.14	322.7	12.3		
35.000	50.00	4.02	133.420	0.010	0.0	0.0	0.0	1.09	8.6	1.4		
35.001	50.00	4.05	133.400	0.010	0.0	0.0	0.0	2.05	16.1	1.4		
31.006	50.00	4.99	132.600	0.101	0.0	0.0	0.0	1.14	322.7	13.7		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC	
Date 09/09/2025 File SWD NETWORK - POND C - ...	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
36.000	1.000	0.020	50.0	0.019	4.00	0.0	0.600	o	100	Pipe/Conduit	
36.001	4.167	0.322	12.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
31.007	10.886	0.024	450.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
37.000	7.938	0.476	16.7	0.000	4.00	7.3	0.600	o	150	Pipe/Conduit	
31.008	7.704	0.044	175.1	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
31.009	6.637	0.037	179.4	0.020	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.027	9.401	0.048	195.9	0.009	0.00	0.0	0.600	o	600	Pipe/Conduit	
38.000	9.524	0.855	11.1	0.000	4.00	1.1	0.600	o	150	Pipe/Conduit	
38.001	19.185	0.195	98.4	0.012	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.028	3.755	0.010	375.5	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.029	8.630	1.065	8.1	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)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
36.000	50.00	4.02	133.420	0.019	0.0	0.0	0.0	1.09	8.6	2.6
36.001	50.00	4.05	133.400	0.019	0.0	0.0	0.0	2.16	17.0	2.6
31.007	50.00	5.15	132.578	0.120	0.0	0.0	0.0	1.14	322.7	16.2
37.000	50.00	4.05	133.480	0.000	7.3	0.0	0.0	2.48	43.8	7.3
31.008	50.00	5.22	132.554	0.120	7.3	0.0	0.0	1.84	519.5	23.5
31.009	50.00	5.28	132.510	0.140	7.3	0.0	0.0	1.82	513.2	26.3
1.027	50.00	7.05	132.473	0.930	7.3	0.0	0.0	1.74	491.0	133.2
38.000	50.00	4.05	133.475	0.000	1.1	0.0	0.0	3.04	53.7	1.1
38.001	50.00	4.37	132.620	0.012	1.1	0.0	0.0	1.01	17.9	2.7
1.028	50.00	7.10	132.425	0.942	8.4	0.0	0.0	1.25	353.6	136.0
1.029	50.00	7.14	132.415	0.942	8.4	0.0	0.0	3.56	62.9	136.0

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC							
Date 09/09/2025 File SWD NETWORK - POND C - ...				Designed by EPH Checked by							
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)	Backsight (mm)
DIST TANK	137.720	0.660	Open Manhole	450	1.000	137.060	100				
SIC 16-1	137.760	0.720	Open Manhole	450	1.001	137.040	100	1.000	137.040	100	
SMH 108	137.655	1.725	Open Manhole	1200	1.002	135.930	225	1.001	136.055	100	
DIST TANK	137.330	0.640	Open Manhole	450	2.000	136.690	100				
SIC 17-1	137.370	0.700	Open Manhole	450	2.001	136.670	100	2.000	136.670	100	
JUNCTION	137.335	1.892	Junction		1.003	135.443	225	1.002	135.443	225	
								2.001	135.568	100	
DIST TANK	137.230	0.640	Open Manhole	450	3.000	136.590	100				
SIC 96-1	137.250	0.680	Open Manhole	450	3.001	136.570	100	3.000	136.570	100	
JUNCTION	137.225	1.958	Junction		1.004	135.267	225	1.003	135.267	225	
								3.001	135.392	100	
DIST TANK	137.020	0.640	Open Manhole	450	4.000	136.380	100				
SIC 92-1	137.050	0.690	Open Manhole	450	4.001	136.360	100	4.000	136.360	100	
JUNCTION	137.025	2.077	Junction		1.005	134.948	225	1.004	134.948	225	
								4.001	135.073	100	
DIST TANK	136.770	0.640	Open Manhole	450	5.000	136.130	100				
SIC 90-1	136.800	0.690	Open Manhole	450	5.001	136.110	100	5.000	136.110	100	
JUNCTION	136.775	2.213	Junction		1.006	134.562	225	1.005	134.562	225	
								5.001	134.687	100	
DIST TANK	136.550	0.640	Open Manhole	450	6.000	135.910	100				
SIC 88-1	136.600	0.710	Open Manhole	450	6.001	135.890	100	6.000	135.890	100	
JUNCTION	136.550	2.330	Junction		1.007	134.220	225	1.006	134.220	225	
								6.001	134.345	100	
DIST TANK	135.285	0.640	Open Manhole	450	7.000	134.645	100				
SIC 85-2	135.335	0.710	Open Manhole	450	7.001	134.625	100	7.000	134.625	100	
SIC 85-1	135.615	1.270	Open Manhole	1200	7.002	134.345	100	7.001	134.345	100	
SMH 115	135.490	1.425	Open Manhole	1200	7.003	134.065	225	7.002	134.190	100	
DIST TANK	135.315	0.640	Open Manhole	450	8.000	134.675	100				
SIC 83-1	135.585	0.930	Open Manhole	450	8.001	134.655	100	8.000	134.655	100	
JUNCTION	135.600	1.578	Junction		7.004	134.022	225	7.003	134.022	225	
								8.001	134.147	100	
DIST TANK	135.585	0.640	Open Manhole	450	9.000	134.945	100				
SIC 79-1	135.650	0.725	Open Manhole	450	9.001	134.925	100	9.000	134.925	100	
JUNCTION	135.690	1.704	Junction		7.005	133.986	225	7.004	133.986	225	
								9.001	134.111	100	
DIST TANK	135.755	0.640	Open Manhole	450	10.000	135.115	100				
SIC 78-1	135.800	0.705	Open Manhole	450	10.001	135.095	100	10.000	135.095	100	
SMH 114	135.950	2.070	Open Manhole	1200	7.006	133.880	225	7.005	133.880	225	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC							
Date 09/09/2025 File SWD NETWORK - POND C - ...				Designed by EPH 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)	Backsight (mm)
DIST TANK	136.270	0.640	Open Manhole	450	11.000	135.630	100	10.001	134.005	100	
SIC 86-1	136.300	0.690	Open Manhole	450	11.001	135.610	100	11.000	135.610	100	
SMH 107	136.230	2.600	Open Manhole	1350	1.008	133.630	375	1.007	133.780	225	
								7.006	133.780	225	
								11.001	133.905	100	
DIST TANK	136.160	0.640	Open Manhole	450	12.000	135.520	100				
SIC 75-1	136.165	0.665	Open Manhole	450	12.001	135.500	100	12.000	135.500	100	
JUNCTION	136.180	2.585	Junction		1.009	133.595	375	1.008	133.595	375	
								12.001	133.870	100	
DIST TANK	135.650	0.640	Open Manhole	450	13.000	135.010	100				
SIC 74-1	135.910	0.920	Open Manhole	450	13.001	134.990	100	13.000	134.990	100	
JUNCTION	136.025	2.470	Junction		1.010	133.555	375	1.009	133.555	375	
								13.001	133.830	100	
SMH 106	135.825	2.311	Open Manhole	1350	1.011	133.514	375	1.010	133.514	375	
DIST TANK	135.670	0.640	Open Manhole	450	14.000	135.030	100				
SIC 18-1	135.775	0.765	Open Manhole	450	14.001	135.010	100	14.000	135.010	100	
SMH 105	135.640	2.178	Open Manhole	1350	1.012	133.462	375	1.011	133.462	375	
								14.001	133.737	100	
DIST TANK	135.460	0.640	Open Manhole	450	15.000	134.820	100				
SIC 20-1	135.550	0.750	Open Manhole	450	15.001	134.800	100	15.000	134.800	100	
JUNCTION	135.525	2.101	Junction		1.013	133.424	375	1.012	133.424	375	
								15.001	133.699	100	
DIST TANK	135.240	0.640	Open Manhole	450	16.000	134.600	100				
SIC 73-1	135.300	0.720	Open Manhole	450	16.001	134.580	100	16.000	134.580	100	
JUNCTION	135.275	1.936	Junction		1.014	133.339	375	1.013	133.339	375	
								16.001	133.614	100	
DIST TANK	135.070	0.640	Open Manhole	450	17.000	134.430	100				
SIC 71-1	135.100	0.690	Open Manhole	450	17.001	134.410	100	17.000	134.410	100	
JUNCTION	135.050	1.775	Junction		1.015	133.275	375	1.014	133.275	375	
								17.001	133.550	100	
DIST TANK	134.990	0.640	Open Manhole	450	18.000	134.350	100				
SIC 70-1	135.000	0.670	Open Manhole	450	18.001	134.330	100	18.000	134.330	100	
JUNCTION	134.900	1.669	Junction		1.016	133.231	375	1.015	133.231	375	
								18.001	133.506	100	
DIST TANK	134.875	0.640	Open Manhole	450	19.000	134.235	100				
SIC 28-1	134.900	0.685	Open Manhole	450	19.001	134.215	100	19.000	134.215	100	
JUNCTION	134.875	1.697	Junction		1.017	133.178	375	1.016	133.178	375	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC							
Date 09/09/2025 File SWD NETWORK - POND C - ...				Designed by EPH Checked by							
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)	Backsight (mm)
SMH 104	134.840	1.698	Open Manhole	1350	1.018	133.142	375	19.001	133.453	100	
DIST TANK	134.550	0.640	Open Manhole	450	20.000	133.910	100	1.017	133.142	375	
SIC 68-1	134.610	0.720	Open Manhole	450	20.001	133.890	100	20.000	133.890	100	
JUNCTION	134.470	1.461	Junction		1.019	133.009	375	1.018	133.009	375	
								20.001	133.284	100	
DIST TANK	134.350	0.640	Open Manhole	450	21.000	133.710	100				
SIC 48-1	134.450	0.760	Open Manhole	450	21.001	133.690	100	21.000	133.690	100	
JUNCTION	134.400	1.420	Junction		1.020	132.980	375	1.019	132.980	375	
								21.001	133.255	100	
DIST TANK	134.395	0.640	Open Manhole	450	22.000	133.755	100				
SIC 66-1	134.450	0.715	Open Manhole	450	22.001	133.735	100	22.000	133.735	100	
JUNCTION	134.310	1.362	Junction		1.021	132.948	375	1.020	132.948	375	
								22.001	133.223	100	
DIST TANK	134.190	0.640	Open Manhole	450	23.000	133.550	100				
SIC 50-1	134.250	0.720	Open Manhole	450	23.001	133.530	100	23.000	133.530	100	
JUNCTION	134.240	1.317	Junction		1.022	132.923	375	1.021	132.923	375	
								23.001	133.198	100	
DIST TANK	134.235	0.640	Open Manhole	450	24.000	133.595	100				
SIC 64-1	134.300	0.725	Open Manhole	450	24.001	133.575	100	24.000	133.575	100	
JUNCTION	134.120	1.241	Junction		1.023	132.879	375	1.022	132.879	375	
								24.001	133.154	100	
DIST TANK	134.095	0.640	Open Manhole	450	25.000	133.455	100				
SIC 62-1	134.150	0.715	Open Manhole	450	25.001	133.435	100	25.000	133.435	100	
JUNCTION	134.000	1.167	Junction		1.024	132.833	375	1.023	132.833	375	
								25.001	133.108	100	
DIST TANK	134.065	0.640	Open Manhole	450	26.000	133.425	100				
SIC 61-1	134.750	1.345	Open Manhole	450	26.001	133.405	100	26.000	133.405	100	
SMH 103	133.940	1.356	Open Manhole	1500	1.025	132.584	600	1.024	132.809	375	
								26.001	133.084	100	
DIST TANK	133.855	0.590	Open Manhole	450	27.000	133.265	100				
SIC 55-1	133.960	0.715	Open Manhole	450	27.001	133.245	100	27.000	133.245	100	
SMH 113	133.800	1.142	Open Manhole	1500	27.002	132.658	600	27.001	133.157	100	
DIST TANK	134.020	0.640	Open Manhole	450	28.000	133.380	100				
SIC 53-1	134.020	0.660	Open Manhole	450	28.001	133.360	100	28.000	133.360	100	
JUNCTION	133.950	1.318	Junction		27.003	132.632	600	27.002	132.632	600	
								28.001	133.143	100	
DIST TANK	134.150	0.640	Open Manhole	450	29.000	133.510	100				
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<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)	Backsight (mm)
SIC 52-1 JUNCTION	134.150 134.085	0.660 1.476	Open Manhole Junction	450	29.001 27.004	133.490 132.609	100 600	29.000 27.003 29.001	133.490 132.609 133.120	100 600 100	
DIST TANK SIC 51-1 JUNCTION	134.275 134.275 134.200	0.640 0.660 1.614	Open Manhole Open Manhole Junction	450 450	30.000 30.001 27.005	133.635 133.615 132.586	100 100 600	30.000 30.000 27.004 30.001	133.615 133.615 132.586 133.097	100 100 600 100	
SMH 102	133.800	1.237	Open Manhole	1500	1.026	132.563	600	1.025 27.005	132.563 132.563	600 600	
DIST TANK SIC 107-1 SMH 112	135.435 135.435 135.500	0.640 0.660 1.750	Open Manhole Open Manhole Open Manhole	450 450 1200	31.000 31.001 31.002	134.795 134.775 133.750	100 100 150	31.000 31.001	134.775 133.800	100 100	
DIST TANK SIC 109-1 SMH 111	134.905 135.100 135.150	0.640 0.855 2.440	Open Manhole Open Manhole Open Manhole	450 450 1500	32.000 32.001 31.003	134.265 134.245 132.710	100 100 600	32.000 32.000 31.002 32.001	134.245 134.245 133.160 133.210	100 100 150 100	
DIST TANK SIC 56-1 JUNCTION	134.535 134.575 134.625	0.640 0.700 1.954	Open Manhole Open Manhole Junction	450 450	33.000 33.001 31.004	133.895 133.875 132.671	100 100 600	33.000 33.000 31.003 33.001	133.875 133.875 132.671 133.171	100 100 600 100	
DIST TANK SIC 57-1 JUNCTION	134.150 134.150 134.180	0.640 0.660 1.559	Open Manhole Open Manhole Junction	450 450	34.000 34.001 31.005	133.510 133.490 132.621	100 100 600	34.000 34.000 31.004 34.001	133.490 133.490 132.621 133.121	100 100 600 100	
DIST TANK SIC 58-1 JUNCTION	134.030 134.030 134.060	0.610 0.630 1.460	Open Manhole Open Manhole Junction	450 450	35.000 35.001 31.006	133.420 133.400 132.600	100 100 600	35.000 35.000 31.005 35.001	133.400 133.400 132.600 133.100	100 100 600 100	
DIST TANK SIC 59-1 SMH 110	133.970 134.000 133.900	0.550 0.600 1.322	Open Manhole Open Manhole Open Manhole	450 450 1500	36.000 36.001 31.007	133.420 133.400 132.578	100 100 600	36.000 36.000 31.006 36.001	133.400 133.400 132.578 133.078	100 100 600 100	
FC 2 SMH 109A	134.500 133.775	1.020 1.221	Open Manhole Open Manhole	1200 1500	37.000 31.008	133.480 132.554	150 600	31.007 37.000	132.554 133.004	600 150	
SMH 109 SMH 100	133.685 133.685	1.175 1.212	Open Manhole Open Manhole	1500 1500	31.009 1.027	132.510 132.473	600 600	31.008 1.026 31.009	132.510 132.473 132.473	600 600 600	
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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)	Backdr (mm)
FC 3	134.500	1.025	Open Manhole	1200	38.000	133.475	150				
SMH 149	133.670	1.050	Open Manhole	1200	38.001	132.620	150	38.000	132.620	150	
POND	133.500	1.075	Open Manhole	1500	1.028	132.425	600	1.027	132.425	600	
								38.001	132.425	150	
FC 4	133.750	1.335	Open Manhole	1500	1.029	132.415	150	1.028	132.415	600	
	131.600	0.250	Open Manhole	0		OUTFALL		1.029	131.350	150	

No coordinates have been specified, layout information cannot be produced.

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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)
1.000	o	100	DIST TANK	137.720	137.060	0.560	Open Manhole	450
1.001	o	100	SIC 16-1	137.760	137.040	0.620	Open Manhole	450
1.002	o	225	SMH 108	137.655	135.930	1.500	Open Manhole	1200
2.000	o	100	DIST TANK	137.330	136.690	0.540	Open Manhole	450
2.001	o	100	SIC 17-1	137.370	136.670	0.600	Open Manhole	450
1.003	o	225	JUNCTION	137.335	135.443	1.667	Junction	
3.000	o	100	DIST TANK	137.230	136.590	0.540	Open Manhole	450
3.001	o	100	SIC 96-1	137.250	136.570	0.580	Open Manhole	450
1.004	o	225	JUNCTION	137.225	135.267	1.733	Junction	
4.000	o	100	DIST TANK	137.020	136.380	0.540	Open Manhole	450
4.001	o	100	SIC 92-1	137.050	136.360	0.590	Open Manhole	450
1.005	o	225	JUNCTION	137.025	134.948	1.852	Junction	
5.000	o	100	DIST TANK	136.770	136.130	0.540	Open Manhole	450
5.001	o	100	SIC 90-1	136.800	136.110	0.590	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 16-1	137.760	137.040	0.620	Open Manhole	450
1.001	6.270	6.4	SMH 108	137.655	136.055	1.500	Open Manhole	1200
1.002	17.440	35.8	JUNCTION	137.335	135.443	1.667	Junction	
2.000	1.000	50.0	SIC 17-1	137.370	136.670	0.600	Open Manhole	450
2.001	5.614	5.1	JUNCTION	137.335	135.568	1.667	Junction	
1.003	6.284	35.7	JUNCTION	137.225	135.267	1.733	Junction	
3.000	1.000	50.0	SIC 96-1	137.250	136.570	0.580	Open Manhole	450
3.001	6.500	5.5	JUNCTION	137.225	135.392	1.733	Junction	
1.004	11.416	35.8	JUNCTION	137.025	134.948	1.852	Junction	
4.000	1.000	50.0	SIC 92-1	137.050	136.360	0.590	Open Manhole	450
4.001	6.500	5.1	JUNCTION	137.025	135.073	1.852	Junction	
1.005	13.823	35.8	JUNCTION	136.775	134.562	1.988	Junction	
5.000	1.000	50.0	SIC 90-1	136.800	136.110	0.590	Open Manhole	450
5.001	6.500	4.6	JUNCTION	136.775	134.687	1.988	Junction	

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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)
1.006	o	225	JUNCTION	136.775	134.562	1.988	Junction	
6.000	o	100	DIST TANK	136.550	135.910	0.540	Open Manhole	450
6.001	o	100	SIC 88-1	136.600	135.890	0.610	Open Manhole	450
1.007	o	225	JUNCTION	136.550	134.220	2.105	Junction	
7.000	o	100	DIST TANK	135.285	134.645	0.540	Open Manhole	450
7.001	o	100	SIC 85-2	135.335	134.625	0.610	Open Manhole	450
7.002	o	100	SIC 85-1	135.615	134.345	1.170	Open Manhole	1200
7.003	o	225	SMH 115	135.490	134.065	1.200	Open Manhole	1200
8.000	o	100	DIST TANK	135.315	134.675	0.540	Open Manhole	450
8.001	o	100	SIC 83-1	135.585	134.655	0.830	Open Manhole	450
7.004	o	225	JUNCTION	135.600	134.022	1.353	Junction	
9.000	o	100	DIST TANK	135.585	134.945	0.540	Open Manhole	450
9.001	o	100	SIC 79-1	135.650	134.925	0.625	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)
1.006	12.250	35.8	JUNCTION	136.550	134.220	2.105	Junction	
6.000	1.000	50.0	SIC 88-1	136.600	135.890	0.610	Open Manhole	450
6.001	6.500	4.2	JUNCTION	136.550	134.345	2.105	Junction	
1.007	15.765	35.8	SMH 107	136.230	133.780	2.225	Open Manhole	1350
7.000	1.000	50.0	SIC 85-2	135.335	134.625	0.610	Open Manhole	450
7.001	4.783	17.1	SIC 85-1	135.615	134.345	1.170	Open Manhole	1200
7.002	2.653	17.1	SMH 115	135.490	134.190	1.200	Open Manhole	1200
7.003	4.338	100.9	JUNCTION	135.600	134.022	1.353	Junction	
8.000	1.000	50.0	SIC 83-1	135.585	134.655	0.830	Open Manhole	450
8.001	4.755	9.4	JUNCTION	135.600	134.147	1.353	Junction	
7.004	3.615	100.4	JUNCTION	135.690	133.986	1.479	Junction	
9.000	1.000	50.0	SIC 79-1	135.650	134.925	0.625	Open Manhole	450
9.001	4.755	5.8	JUNCTION	135.690	134.111	1.479	Junction	

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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)
7.005	o	225	JUNCTION	135.690	133.986	1.479	Junction	
10.000	o	100	DIST TANK	135.755	135.115	0.540	Open Manhole	450
10.001	o	100	SIC 78-1	135.800	135.095	0.605	Open Manhole	450
7.006	o	225	SMH 114	135.950	133.880	1.845	Open Manhole	1200
11.000	o	100	DIST TANK	136.270	135.630	0.540	Open Manhole	450
11.001	o	100	SIC 86-1	136.300	135.610	0.590	Open Manhole	450
1.008	o	375	SMH 107	136.230	133.630	2.225	Open Manhole	1350
12.000	o	100	DIST TANK	136.160	135.520	0.540	Open Manhole	450
12.001	o	100	SIC 75-1	136.165	135.500	0.565	Open Manhole	450
1.009	o	375	JUNCTION	136.180	133.595	2.210	Junction	
13.000	o	100	DIST TANK	135.650	135.010	0.540	Open Manhole	450
13.001	o	100	SIC 74-1	135.910	134.990	0.820	Open Manhole	450
1.010	o	375	JUNCTION	136.025	133.555	2.095	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)
7.005	10.565	99.7	SMH 114	135.950	133.880	1.845	Open Manhole	1200
10.000	1.000	50.0	SIC 78-1	135.800	135.095	0.605	Open Manhole	450
10.001	6.064	5.6	SMH 114	135.950	134.005	1.845	Open Manhole	1200
7.006	10.172	101.7	SMH 107	136.230	133.780	2.225	Open Manhole	1350
11.000	1.000	50.0	SIC 86-1	136.300	135.610	0.590	Open Manhole	450
11.001	6.628	3.9	SMH 107	136.230	133.905	2.225	Open Manhole	1350
1.008	7.018	200.5	JUNCTION	136.180	133.595	2.210	Junction	
12.000	1.000	50.0	SIC 75-1	136.165	135.500	0.565	Open Manhole	450
12.001	6.057	3.7	JUNCTION	136.180	133.870	2.210	Junction	
1.009	8.052	200.0	JUNCTION	136.025	133.555	2.095	Junction	
13.000	1.000	50.0	SIC 74-1	135.910	134.990	0.820	Open Manhole	450
13.001	6.057	5.2	JUNCTION	136.025	133.830	2.095	Junction	
1.010	8.249	200.0	SMH 106	135.825	133.514	1.936	Open Manhole	1350

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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)
1.011	o	375	SMH 106	135.825	133.514	1.936	Open Manhole	1350
14.000	o	100	DIST TANK	135.670	135.030	0.540	Open Manhole	450
14.001	o	100	SIC 18-1	135.775	135.010	0.665	Open Manhole	450
1.012	o	375	SMH 105	135.640	133.462	1.803	Open Manhole	1350
15.000	o	100	DIST TANK	135.460	134.820	0.540	Open Manhole	450
15.001	o	100	SIC 20-1	135.550	134.800	0.650	Open Manhole	450
1.013	o	375	JUNCTION	135.525	133.424	1.726	Junction	
16.000	o	100	DIST TANK	135.240	134.600	0.540	Open Manhole	450
16.001	o	100	SIC 73-1	135.300	134.580	0.620	Open Manhole	450
1.014	o	375	JUNCTION	135.275	133.339	1.561	Junction	
17.000	o	100	DIST TANK	135.070	134.430	0.540	Open Manhole	450
17.001	o	100	SIC 71-1	135.100	134.410	0.590	Open Manhole	450
1.015	o	375	JUNCTION	135.050	133.275	1.400	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)
1.011	10.489	200.0	SMH 105	135.640	133.462	1.803	Open Manhole	1350
14.000	1.000	50.0	SIC 18-1	135.775	135.010	0.665	Open Manhole	450
14.001	4.612	3.6	SMH 105	135.640	133.737	1.803	Open Manhole	1350
1.012	6.372	165.8	JUNCTION	135.525	133.424	1.726	Junction	
15.000	1.000	50.0	SIC 20-1	135.550	134.800	0.650	Open Manhole	450
15.001	5.000	4.5	JUNCTION	135.525	133.699	1.726	Junction	
1.013	14.162	165.8	JUNCTION	135.275	133.339	1.561	Junction	
16.000	1.000	50.0	SIC 73-1	135.300	134.580	0.620	Open Manhole	450
16.001	5.000	5.2	JUNCTION	135.275	133.614	1.561	Junction	
1.014	10.656	165.8	JUNCTION	135.050	133.275	1.400	Junction	
17.000	1.000	50.0	SIC 71-1	135.100	134.410	0.590	Open Manhole	450
17.001	6.520	7.6	JUNCTION	135.050	133.550	1.400	Junction	
1.015	7.357	165.8	JUNCTION	134.900	133.231	1.294	Junction	

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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)
18.000	o	100	DIST TANK	134.990	134.350	0.540	Open Manhole	450
18.001	o	100	SIC 70-1	135.000	134.330	0.570	Open Manhole	450
1.016	o	375	JUNCTION	134.900	133.231	1.294	Junction	
19.000	o	100	DIST TANK	134.875	134.235	0.540	Open Manhole	450
19.001	o	100	SIC 28-1	134.900	134.215	0.585	Open Manhole	450
1.017	o	375	JUNCTION	134.875	133.178	1.322	Junction	
1.018	o	375	SMH 104	134.840	133.142	1.323	Open Manhole	1350
20.000	o	100	DIST TANK	134.550	133.910	0.540	Open Manhole	450
20.001	o	100	SIC 68-1	134.610	133.890	0.620	Open Manhole	450
1.019	o	375	JUNCTION	134.470	133.009	1.086	Junction	
21.000	o	100	DIST TANK	134.350	133.710	0.540	Open Manhole	450
21.001	o	100	SIC 48-1	134.450	133.690	0.660	Open Manhole	450
1.020	o	375	JUNCTION	134.400	132.980	1.045	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)
18.000	1.000	50.0	SIC 70-1	135.000	134.330	0.570	Open Manhole	450
18.001	6.520	7.9	JUNCTION	134.900	133.506	1.294	Junction	
1.016	8.814	165.8	JUNCTION	134.875	133.178	1.322	Junction	
19.000	1.000	50.0	SIC 28-1	134.900	134.215	0.585	Open Manhole	450
19.001	5.000	6.6	JUNCTION	134.875	133.453	1.322	Junction	
1.017	6.040	165.8	SMH 104	134.840	133.142	1.323	Open Manhole	1350
1.018	28.109	212.1	JUNCTION	134.470	133.009	1.086	Junction	
20.000	1.000	50.0	SIC 68-1	134.610	133.890	0.620	Open Manhole	450
20.001	5.770	9.5	JUNCTION	134.470	133.284	1.086	Junction	
1.019	6.193	212.1	JUNCTION	134.400	132.980	1.045	Junction	
21.000	1.000	50.0	SIC 48-1	134.450	133.690	0.660	Open Manhole	450
21.001	6.000	13.8	JUNCTION	134.400	133.255	1.045	Junction	
1.020	6.892	215.4	JUNCTION	134.310	132.948	0.987	Junction	

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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)
22.000	o	100	DIST TANK	134.395	133.755	0.540	Open Manhole	450
22.001	o	100	SIC 66-1	134.450	133.735	0.615	Open Manhole	450
1.021	o	375	JUNCTION	134.310	132.948	0.987	Junction	
23.000	o	100	DIST TANK	134.190	133.550	0.540	Open Manhole	450
23.001	o	100	SIC 50-1	134.250	133.530	0.620	Open Manhole	450
1.022	o	375	JUNCTION	134.240	132.923	0.942	Junction	
24.000	o	100	DIST TANK	134.235	133.595	0.540	Open Manhole	450
24.001	o	100	SIC 64-1	134.300	133.575	0.625	Open Manhole	450
1.023	o	375	JUNCTION	134.120	132.879	0.866	Junction	
25.000	o	100	DIST TANK	134.095	133.455	0.540	Open Manhole	450
25.001	o	100	SIC 62-1	134.150	133.435	0.615	Open Manhole	450
1.024	o	375	JUNCTION	134.000	132.833	0.792	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)
22.000	1.000	50.0	SIC 66-1	134.450	133.735	0.615	Open Manhole	450
22.001	5.500	10.7	JUNCTION	134.310	133.223	0.987	Junction	
1.021	5.398	215.9	JUNCTION	134.240	132.923	0.942	Junction	
23.000	1.000	50.0	SIC 50-1	134.250	133.530	0.620	Open Manhole	450
23.001	6.000	18.1	JUNCTION	134.240	133.198	0.942	Junction	
1.022	9.412	213.9	JUNCTION	134.120	132.879	0.866	Junction	
24.000	1.000	50.0	SIC 64-1	134.300	133.575	0.625	Open Manhole	450
24.001	5.500	13.1	JUNCTION	134.120	133.154	0.866	Junction	
1.023	9.708	211.0	JUNCTION	134.000	132.833	0.792	Junction	
25.000	1.000	50.0	SIC 62-1	134.150	133.435	0.615	Open Manhole	450
25.001	5.500	16.8	JUNCTION	134.000	133.108	0.792	Junction	
1.024	5.093	213.9	SMH 103	133.940	132.809	0.756	Open Manhole	1500

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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)
26.000	o	100	DIST TANK	134.065	133.425	0.540	Open Manhole	450
26.001	o	100	SIC 61-1	134.750	133.405	1.245	Open Manhole	450
1.025	o	600	SMH 103	133.940	132.584	0.756	Open Manhole	1500
27.000	o	100	DIST TANK	133.855	133.265	0.490	Open Manhole	450
27.001	o	100	SIC 55-1	133.960	133.245	0.615	Open Manhole	450
27.002	o	600	SMH 113	133.800	132.658	0.542	Open Manhole	1500
28.000	o	100	DIST TANK	134.020	133.380	0.540	Open Manhole	450
28.001	o	100	SIC 53-1	134.020	133.360	0.560	Open Manhole	450
27.003	o	600	JUNCTION	133.950	132.632	0.718	Junction	
29.000	o	100	DIST TANK	134.150	133.510	0.540	Open Manhole	450
29.001	o	100	SIC 52-1	134.150	133.490	0.560	Open Manhole	450
27.004	o	600	JUNCTION	134.085	132.609	0.876	Junction	
30.000	o	100	DIST TANK	134.275	133.635	0.540	Open Manhole	450
30.001	o	100	SIC 51-1	134.275	133.615	0.560	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)
26.000	1.000	50.0	SIC 61-1	134.750	133.405	1.245	Open Manhole	450
26.001	4.444	13.8	SMH 103	133.940	133.084	0.756	Open Manhole	1500
1.025	8.633	411.1	SMH 102	133.800	132.563	0.637	Open Manhole	1500
27.000	1.000	50.0	SIC 55-1	133.960	133.245	0.615	Open Manhole	450
27.001	4.687	53.3	SMH 113	133.800	133.157	0.543	Open Manhole	1500
27.002	11.831	450.0	JUNCTION	133.950	132.632	0.718	Junction	
28.000	1.000	50.0	SIC 53-1	134.020	133.360	0.560	Open Manhole	450
28.001	4.412	20.3	JUNCTION	133.950	133.143	0.707	Junction	
27.003	10.306	450.0	JUNCTION	134.085	132.609	0.876	Junction	
29.000	1.000	50.0	SIC 52-1	134.150	133.490	0.560	Open Manhole	450
29.001	4.412	11.9	JUNCTION	134.085	133.120	0.865	Junction	
27.004	10.146	450.0	JUNCTION	134.200	132.586	1.014	Junction	
30.000	1.000	50.0	SIC 51-1	134.275	133.615	0.560	Open Manhole	450
30.001	4.412	8.5	JUNCTION	134.200	133.097	1.003	Junction	

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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)
27.005	o	600	JUNCTION	134.200	132.586	1.014	Junction	
1.026	o	600	SMH 102	133.800	132.563	0.637	Open Manhole	1500
31.000	o	100	DIST TANK	135.435	134.795	0.540	Open Manhole	450
31.001	o	100	SIC 107-1	135.435	134.775	0.560	Open Manhole	450
31.002	o	150	SMH 112	135.500	133.750	1.600	Open Manhole	1200
32.000	o	100	DIST TANK	134.905	134.265	0.540	Open Manhole	450
32.001	o	100	SIC 109-1	135.100	134.245	0.755	Open Manhole	450
31.003	o	600	SMH 111	135.150	132.710	1.840	Open Manhole	1500
33.000	o	100	DIST TANK	134.535	133.895	0.540	Open Manhole	450
33.001	o	100	SIC 56-1	134.575	133.875	0.600	Open Manhole	450
31.004	o	600	JUNCTION	134.625	132.671	1.354	Junction	
34.000	o	100	DIST TANK	134.150	133.510	0.540	Open Manhole	450
34.001	o	100	SIC 57-1	134.150	133.490	0.560	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)
27.005	10.189	450.0	SMH 102	133.800	132.563	0.637	Open Manhole	1500
1.026	18.085	200.6	SMH 100	133.685	132.473	0.612	Open Manhole	1500
31.000	1.000	50.0	SIC 107-1	135.435	134.775	0.560	Open Manhole	450
31.001	5.614	5.8	SMH 112	135.500	133.800	1.600	Open Manhole	1200
31.002	10.997	18.6	SMH 111	135.150	133.160	1.840	Open Manhole	1500
32.000	1.000	50.0	SIC 109-1	135.100	134.245	0.755	Open Manhole	450
32.001	3.292	3.2	SMH 111	135.150	133.210	1.840	Open Manhole	1500
31.003	17.753	450.0	JUNCTION	134.625	132.671	1.354	Junction	
33.000	1.000	50.0	SIC 56-1	134.575	133.875	0.600	Open Manhole	450
33.001	4.162	5.9	JUNCTION	134.625	133.171	1.354	Junction	
31.004	22.450	449.0	JUNCTION	134.180	132.621	0.959	Junction	
34.000	1.000	50.0	SIC 57-1	134.150	133.490	0.560	Open Manhole	450
34.001	4.264	11.6	JUNCTION	134.180	133.121	0.959	Junction	

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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)
31.005	o	600	JUNCTION	134.180	132.621	0.959	Junction	
35.000	o	100	DIST TANK	134.030	133.420	0.510	Open Manhole	450
35.001	o	100	SIC 58-1	134.030	133.400	0.530	Open Manhole	450
31.006	o	600	JUNCTION	134.060	132.600	0.860	Junction	
36.000	o	100	DIST TANK	133.970	133.420	0.450	Open Manhole	450
36.001	o	100	SIC 59-1	134.000	133.400	0.500	Open Manhole	450
31.007	o	600	SMH 110	133.900	132.578	0.722	Open Manhole	1500
37.000	o	150	FC 2	134.500	133.480	0.870	Open Manhole	1200
31.008	o	600	SMH 109A	133.775	132.554	0.621	Open Manhole	1500
31.009	o	600	SMH 109	133.685	132.510	0.575	Open Manhole	1500
1.027	o	600	SMH 100	133.685	132.473	0.612	Open Manhole	1500
38.000	o	150	FC 3	134.500	133.475	0.875	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)
31.005	9.515	450.0	JUNCTION	134.060	132.600	0.860	Junction	
35.000	1.000	50.0	SIC 58-1	134.030	133.400	0.530	Open Manhole	450
35.001	4.309	14.4	JUNCTION	134.060	133.100	0.860	Junction	
31.006	9.803	450.0	SMH 110	133.900	132.578	0.722	Open Manhole	1500
36.000	1.000	50.0	SIC 59-1	134.000	133.400	0.500	Open Manhole	450
36.001	4.167	12.9	SMH 110	133.900	133.078	0.722	Open Manhole	1500
31.007	10.886	450.0	SMH 109A	133.775	132.554	0.621	Open Manhole	1500
37.000	7.938	16.7	SMH 109A	133.775	133.004	0.621	Open Manhole	1500
31.008	7.704	175.1	SMH 109	133.685	132.510	0.575	Open Manhole	1500
31.009	6.637	179.4	SMH 100	133.685	132.473	0.612	Open Manhole	1500
1.027	9.401	195.9	POND	133.500	132.425	0.475	Open Manhole	1500
38.000	9.524	11.1	SMH 149	133.670	132.620	0.900	Open Manhole	1200

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
38.001	o	150	SMH 149	133.670	132.620	0.900	Open Manhole	1200
1.028	o	600	POND	133.500	132.425	0.475	Open Manhole	1500
1.029	o	150	FC 4	133.750	132.415	1.185	Open Manhole	1500

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
38.001	19.185	98.4	POND	133.500	132.425	0.925	Open Manhole	1500
1.028	3.755	375.5	FC 4	133.750	132.415	0.735	Open Manhole	1500
1.029	8.630	8.1		131.600	131.350	0.100	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall	Outfall	C. Level	I. Level	Min	D,L	W
Pipe Number	Name	(m)	(m)	I. Level	(mm)	(mm)
				(m)		

1.029		131.600	131.350	0.000	0	0
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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 Storage Structures	37
Number of Online Controls	37	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	1
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

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<u>Synthetic Rainfall Details</u> E (1km) 0.289 F (1km) 2.484 Summer Storms No Winter Storms Yes Cv (Summer) 0.750 Cv (Winter) 0.840 Storm Duration (mins) 15		
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<u>Online Controls for Storm</u> <u>Orifice Manhole: SIC 16-1, DS/PN: 1.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 137.040 <u>Orifice Manhole: SIC 17-1, DS/PN: 2.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 136.670 <u>Orifice Manhole: SIC 96-1, DS/PN: 3.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 136.570 <u>Orifice Manhole: SIC 92-1, DS/PN: 4.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 136.360 <u>Orifice Manhole: SIC 90-1, DS/PN: 5.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 136.110 <u>Orifice Manhole: SIC 88-1, DS/PN: 6.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 135.890 <u>Orifice Manhole: SIC 85-2, DS/PN: 7.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.625 <u>Orifice Manhole: SIC 83-1, DS/PN: 8.001, Volume (m³): 0.2</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.655 <u>Orifice Manhole: SIC 79-1, DS/PN: 9.001, Volume (m³): 0.1</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 134.925 <u>Orifice Manhole: SIC 78-1, DS/PN: 10.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 135.095 <u>Orifice Manhole: SIC 86-1, DS/PN: 11.001, Volume (m³): 0.1</u> Diameter (m) 0.030 Discharge Coefficient 0.600 Invert Level (m) 135.610		
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<u>Orifice Manhole: SIC 75-1, DS/PN: 12.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 135.500 <u>Orifice Manhole: SIC 74-1, DS/PN: 13.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 134.990 <u>Orifice Manhole: SIC 18-1, DS/PN: 14.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 135.010 <u>Orifice Manhole: SIC 20-1, DS/PN: 15.001, Volume (m³): 0.1</u> Diameter (m) 0.030 Discharge Coefficient 0.600 Invert Level (m) 134.800 <u>Orifice Manhole: SIC 73-1, DS/PN: 16.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.580 <u>Orifice Manhole: SIC 71-1, DS/PN: 17.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 134.410 <u>Orifice Manhole: SIC 70-1, DS/PN: 18.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 134.330 <u>Orifice Manhole: SIC 28-1, DS/PN: 19.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.215 <u>Orifice Manhole: SIC 68-1, DS/PN: 20.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 133.890 <u>Orifice Manhole: SIC 48-1, DS/PN: 21.001, Volume (m³): 0.1</u> Diameter (m) 0.030 Discharge Coefficient 0.600 Invert Level (m) 133.690 <u>Orifice Manhole: SIC 66-1, DS/PN: 22.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.735 <u>Orifice Manhole: SIC 50-1, DS/PN: 23.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.530		
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<u>Orifice Manhole: SIC 64-1, DS/PN: 24.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 133.575 <u>Orifice Manhole: SIC 62-1, DS/PN: 25.001, Volume (m³): 0.1</u> Diameter (m) 0.030 Discharge Coefficient 0.600 Invert Level (m) 133.435 <u>Orifice Manhole: SIC 61-1, DS/PN: 26.001, Volume (m³): 0.2</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.405 <u>Orifice Manhole: SIC 55-1, DS/PN: 27.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.245 <u>Orifice Manhole: SIC 53-1, DS/PN: 28.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 133.360 <u>Orifice Manhole: SIC 52-1, DS/PN: 29.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 133.490 <u>Orifice Manhole: SIC 51-1, DS/PN: 30.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 133.615 <u>Orifice Manhole: SIC 107-1, DS/PN: 31.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.775 <u>Orifice Manhole: SIC 109-1, DS/PN: 32.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.245 <u>Orifice Manhole: SIC 56-1, DS/PN: 33.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.875 <u>Orifice Manhole: SIC 57-1, DS/PN: 34.001, Volume (m³): 0.1</u> Diameter (m) 0.021 Discharge Coefficient 0.600 Invert Level (m) 133.490 <u>Orifice Manhole: SIC 58-1, DS/PN: 35.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 133.400		
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<u>Orifice Manhole: SIC 59-1, DS/PN: 36.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 133.400 <u>Hydro-Brake® Optimum Manhole: FC 4, DS/PN: 1.029, Volume (m³): 3.0</u> <table><tr><td>Unit Reference</td><td>MD-SHE-0144-9300-0800-9300</td></tr><tr><td>Design Head (m)</td><td>0.800</td></tr><tr><td>Design Flow (l/s)</td><td>9.3</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Application</td><td>Surface</td></tr><tr><td>Sump Available</td><td>Yes</td></tr><tr><td>Diameter (mm)</td><td>144</td></tr><tr><td>Invert Level (m)</td><td>132.415</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td>225</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td>1200</td></tr></table> <table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>0.800</td><td>9.3</td></tr><tr><td>Flush-Flo™</td><td>0.258</td><td>9.3</td></tr><tr><td>Kick-Flo®</td><td>0.566</td><td>7.9</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>7.9</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><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>5.2</td><td>1.200</td><td>11.2</td><td>3.000</td><td>17.4</td><td>7.000</td><td>26.1</td></tr><tr><td>0.200</td><td>9.2</td><td>1.400</td><td>12.1</td><td>3.500</td><td>18.7</td><td>7.500</td><td>27.0</td></tr><tr><td>0.300</td><td>9.2</td><td>1.600</td><td>12.9</td><td>4.000</td><td>19.9</td><td>8.000</td><td>27.8</td></tr><tr><td>0.400</td><td>9.0</td><td>1.800</td><td>13.6</td><td>4.500</td><td>21.1</td><td>8.500</td><td>28.6</td></tr><tr><td>0.500</td><td>8.6</td><td>2.000</td><td>14.3</td><td>5.000</td><td>22.2</td><td>9.000</td><td>29.4</td></tr><tr><td>0.600</td><td>8.1</td><td>2.200</td><td>15.0</td><td>5.500</td><td>23.2</td><td>9.500</td><td>30.2</td></tr><tr><td>0.800</td><td>9.3</td><td>2.400</td><td>15.6</td><td>6.000</td><td>24.2</td><td></td><td></td></tr><tr><td>1.000</td><td>10.3</td><td>2.600</td><td>16.2</td><td>6.500</td><td>25.2</td><td></td><td></td></tr></table>			Unit Reference	MD-SHE-0144-9300-0800-9300	Design Head (m)	0.800	Design Flow (l/s)	9.3	Flush-Flo™	Calculated	Objective	Minimise upstream storage	Application	Surface	Sump Available	Yes	Diameter (mm)	144	Invert Level (m)	132.415	Minimum Outlet Pipe Diameter (mm)	225	Suggested Manhole Diameter (mm)	1200	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.800	9.3	Flush-Flo™	0.258	9.3	Kick-Flo®	0.566	7.9	Mean Flow over Head Range	-	7.9	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	5.2	1.200	11.2	3.000	17.4	7.000	26.1	0.200	9.2	1.400	12.1	3.500	18.7	7.500	27.0	0.300	9.2	1.600	12.9	4.000	19.9	8.000	27.8	0.400	9.0	1.800	13.6	4.500	21.1	8.500	28.6	0.500	8.6	2.000	14.3	5.000	22.2	9.000	29.4	0.600	8.1	2.200	15.0	5.500	23.2	9.500	30.2	0.800	9.3	2.400	15.6	6.000	24.2			1.000	10.3	2.600	16.2	6.500	25.2		
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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>3.4</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.5</td></tr><tr><td>Max Percolation (l/s)</td><td>10.9</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>137.060</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 2.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>4.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>32.0</td></tr><tr><td>Max Percolation (l/s)</td><td>36.4</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>136.690</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 3.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>10.5</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>14.0</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>136.590</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 4.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>136.380</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 5.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>136.130</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>Max Percolation (l/s)</td><td>12.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Safety Factor</td><td>5.0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.5	Max Percolation (l/s)	10.9	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	137.060	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	4.1	Membrane Percolation (mm/hr)	1000	Length (m)	32.0	Max Percolation (l/s)	36.4	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.690	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	10.5	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	14.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.590	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.380	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	136.130	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Max Percolation (l/s)	12.8	Membrane Percolation (mm/hr)	1000	Safety Factor	5.0
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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 6.000</u> <table><tr><td>Porosity</td><td>0.30</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Invert Level (m)</td><td>135.910</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Width (m)</td><td>9.6</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Length (m)</td><td>4.8</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>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.6</td></tr><tr><td>Max Percolation (l/s)</td><td>8.8</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>134.645</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 8.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>134.675</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 9.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>4.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>6.4</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>134.945</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 10.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>135.115</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 11.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>135.630</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Porosity	0.30	Slope (1:X)	0.0	Invert Level (m)	135.910	Depression Storage (mm)	5	Width (m)	9.6	Evaporation (mm/day)	3	Length (m)	4.8	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.6	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)	134.645	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.675	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	4.8	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	6.4	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.945	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	135.115	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	135.630	Membrane Depth (mm)	0
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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 17.000</u> Evaporation (mm/day) 3 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 18.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>4.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>25.1</td></tr><tr><td>Max Percolation (l/s)</td><td>33.5</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>134.350</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 19.000</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>134.235</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 20.000</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>15.5</td></tr><tr><td>Max Percolation (l/s)</td><td>25.8</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>133.910</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 21.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>133.710</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 22.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>133.755</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	4.8	Membrane Percolation (mm/hr)	1000	Length (m)	25.1	Max Percolation (l/s)	33.5	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.350	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)	134.235	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	15.5	Max Percolation (l/s)	25.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.910	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.710	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.755	Membrane Depth (mm)	0
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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 23.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</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>133.550</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 24.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage 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(mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.2</td></tr><tr><td>Max Percolation (l/s)</td><td>8.5</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>133.425</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 27.000</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>13.0</td></tr><tr><td>Max Percolation (l/s)</td><td>23.1</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>133.265</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 28.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Invert Level (m)</td><td>133.380</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>3.4</td></tr><tr><td>Max Percolation (l/s)</td><td>12.5</td><td>Length (m)</td><td>13.2</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.550	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.595	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.455	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)	133.425	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.4	Membrane Percolation (mm/hr)	1000	Length (m)	13.0	Max Percolation (l/s)	23.1	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.265	Membrane Depth (mm)	0	Infiltration Coefficient Base 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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 28.000</u> Evaporation (mm/day) 3 Membrane Depth (mm) 0 <u>Porous Car Park Manhole: DIST TANK, DS/PN: 29.000</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>13.2</td></tr><tr><td>Max Percolation (l/s)</td><td>12.5</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>133.510</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 30.000</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>13.2</td></tr><tr><td>Max Percolation (l/s)</td><td>12.5</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>133.635</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 31.000</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>12.0</td></tr><tr><td>Max Percolation (l/s)</td><td>10.0</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>134.795</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 32.000</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>12.0</td></tr><tr><td>Max Percolation (l/s)</td><td>20.0</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>134.265</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 33.000</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>11.2</td></tr><tr><td>Max Percolation (l/s)</td><td>19.9</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>133.895</td><td>Membrane Depth (mm)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	13.2	Max Percolation (l/s)	12.5	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.510	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	13.2	Max Percolation (l/s)	12.5	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.635	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.0	Max Percolation (l/s)	10.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.795	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.0	Max Percolation (l/s)	20.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.265	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.4	Membrane Percolation (mm/hr)	1000	Length (m)	11.2	Max Percolation (l/s)	19.9	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.895	Membrane Depth (mm)	0
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC																																																																																	
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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 34.000</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>12.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.1</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>133.510</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 35.000</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>12.4</td></tr><tr><td>Max Percolation (l/s)</td><td>10.3</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>133.420</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 36.000</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>12.0</td></tr><tr><td>Max Percolation (l/s)</td><td>20.0</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>133.420</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Tank or Pond Manhole: POND, DS/PN: 1.028</u> Invert Level (m) 132.425 <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>1604.2</td><td>1.075</td><td>2292.8</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.4	Membrane Percolation (mm/hr)	1000	Length (m)	12.8	Max Percolation (l/s)	12.1	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.510	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.4	Max Percolation (l/s)	10.3	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.420	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.0	Max Percolation (l/s)	20.0	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	133.420	Membrane Depth (mm)	0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	1604.2	1.075	2292.8
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

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

Number of Input Hydrographs	0	Number of Storage Structures	37
Number of Online Controls	37	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
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
Cv (Summer)	0.750
Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	100
Climate Change (%)	45

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
1.001	SIC 16-1	120 Winter	100	+45%	100/15 Summer			
1.002	SMH 108	15 Winter	100	+45%				
2.000	DIST TANK	360 Winter	100	+45%	100/15 Summer			
2.001	SIC 17-1	360 Winter	100	+45%	100/15 Summer			
1.003	JUNCTION	15 Winter	100	+45%				
3.000	DIST TANK	180 Winter	100	+45%	100/15 Summer			
3.001	SIC 96-1	120 Winter	100	+45%	100/15 Summer			
1.004	JUNCTION	15 Summer	100	+45%				
4.000	DIST TANK	180 Winter	100	+45%	100/15 Summer			

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

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	DIST TANK	137.569	0.409	0.000	0.15		0.6	FLOOD RISK	
1.001	SIC 16-1	137.586	0.446	0.000	0.03		0.6	FLOOD RISK	
1.002	SMH 108	136.022	-0.133	0.000	0.35		27.6	OK	
2.000	DIST TANK	137.092	0.302	0.000	0.09		0.3	FLOOD RISK	
2.001	SIC 17-1	137.117	0.347	0.000	0.01		0.3	FLOOD RISK	
1.003	JUNCTION	135.551	-0.117	0.000	0.47		27.8	OK*	
3.000	DIST TANK	136.984	0.294	0.000	0.08		0.3	FLOOD RISK	
3.001	SIC 96-1	137.004	0.334	0.000	0.01		0.3	FLOOD RISK	
1.004	JUNCTION	135.389	-0.103	0.000	0.57		45.2	OK*	
4.000	DIST TANK	136.892	0.412	0.000	0.09		0.4	FLOOD RISK	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	
4.001	SIC 92-1	180 Winter	100	+45%	100/15 Summer				
1.005	JUNCTION	15 Summer	100	+45%					
5.000	DIST TANK	60 Winter	100	+45%	100/15 Summer				
5.001	SIC 90-1	120 Winter	100	+45%	100/15 Summer				
1.006	JUNCTION	15 Winter	100	+45%					
6.000	DIST TANK	120 Winter	100	+45%	100/15 Summer				
6.001	SIC 88-1	180 Winter	100	+45%	100/15 Summer				
1.007	JUNCTION	15 Winter	100	+45%					
7.000	DIST TANK	60 Winter	100	+45%	100/30 Winter				
7.001	SIC 85-2	60 Winter	100	+45%	100/15 Summer				
7.002	SIC 85-1	15 Winter	100	+45%	100/15 Summer				
7.003	SMH 115	15 Winter	100	+45%	100/15 Summer				
8.000	DIST TANK	180 Winter	100	+45%	100/15 Summer				
8.001	SIC 83-1	180 Winter	100	+45%	100/15 Summer				
7.004	JUNCTION	30 Winter	100	+45%					
9.000	DIST TANK	15 Winter	100	+45%	100/15 Summer				
9.001	SIC 79-1	15 Winter	100	+45%	100/15 Summer				
7.005	JUNCTION	30 Winter	100	+45%					
10.000	DIST TANK	180 Winter	100	+45%	100/15 Summer				
10.001	SIC 78-1	180 Winter	100	+45%	100/15 Summer				
7.006	SMH 114	15 Winter	100	+45%	100/15 Summer				
11.000	DIST TANK	60 Winter	100	+45%	100/15 Summer				
11.001	SIC 86-1	60 Winter	100	+45%	100/15 Summer				
1.008	SMH 107	15 Winter	100	+45%	100/15 Summer				
12.000	DIST TANK	180 Winter	100	+45%	100/15 Summer				
12.001	SIC 75-1	180 Winter	100	+45%	100/15 Summer				
1.009	JUNCTION	30 Winter	100	+45%					
13.000	DIST TANK	60 Winter	100	+45%	100/15 Summer				
13.001	SIC 74-1	60 Winter	100	+45%	100/15 Summer				
1.010	JUNCTION	30 Winter	100	+45%					
1.011	SMH 106	15 Winter	100	+45%	100/15 Summer				
14.000	DIST TANK	240 Winter	100	+45%	100/15 Summer				
14.001	SIC 18-1	360 Winter	100	+45%	100/15 Summer				
1.012	SMH 105	15 Winter	100	+45%	100/15 Summer				
15.000	DIST TANK	60 Winter	100	+45%	100/15 Summer				
15.001	SIC 20-1	30 Winter	100	+45%	100/15 Summer				
1.013	JUNCTION	30 Winter	100	+45%					
16.000	DIST TANK	180 Winter	100	+45%	100/15 Summer				
16.001	SIC 73-1	180 Winter	100	+45%	100/15 Summer				
1.014	JUNCTION	30 Winter	100	+45%					
17.000	DIST TANK	120 Winter	100	+45%	100/15 Summer				
17.001	SIC 71-1	60 Winter	100	+45%	100/15 Summer				
1.015	JUNCTION	30 Winter	100	+45%					
18.000	DIST TANK	240 Winter	100	+45%	100/15 Summer				
18.001	SIC 70-1	240 Winter	100	+45%	100/15 Summer				
1.016	JUNCTION	30 Winter	100	+45%					
19.000	DIST TANK	180 Winter	100	+45%	100/15 Summer				
19.001	SIC 28-1	180 Winter	100	+45%	100/15 Summer				
1.017	JUNCTION	30 Winter	100	+45%					
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD SWD NETWORK- POND C 100 YEAR PLUS 45 CC						
Date 09/09/2025 File SWD NETWORK - POND C - ...			Designed by EPH Checked by						
Innovyze			Network 2019.1						
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
4.001	SIC 92-1	136.915	0.455	0.000	0.01		0.3	FLOOD RISK	
1.005	JUNCTION	135.092	-0.081	0.000	0.73		63.5	OK*	
5.000	DIST TANK	136.623	0.393	0.000	0.23		0.9	FLOOD RISK	
5.001	SIC 90-1	136.635	0.425	0.000	0.04		0.9	FLOOD RISK	
1.006	JUNCTION	134.787	0.000	0.000	0.78		63.9	SURCHARGED*	
6.000	DIST TANK	136.425	0.415	0.000	0.15		0.6	FLOOD RISK	
6.001	SIC 88-1	136.437	0.447	0.000	0.02		0.6	FLOOD RISK	
1.007	JUNCTION	134.445	0.000	0.000	0.87		75.8	SURCHARGED*	
7.000	DIST TANK	134.757	0.012	0.000	0.04		0.2	SURCHARGED	
7.001	SIC 85-2	134.771	0.046	0.000	0.01		0.2	SURCHARGED	
7.002	SIC 85-1	134.798	0.353	0.000	0.26		2.8	SURCHARGED	
7.003	SMH 115	134.801	0.511	0.000	0.60		17.9	SURCHARGED	
8.000	DIST TANK	135.144	0.369	0.000	0.09		0.3	FLOOD RISK	
8.001	SIC 83-1	135.166	0.411	0.000	0.02		0.3	SURCHARGED	
7.004	JUNCTION	134.247	0.000	0.000	0.42		12.5	SURCHARGED*	
9.000	DIST TANK	135.428	0.383	0.000	0.91		3.6	FLOOD RISK	
9.001	SIC 79-1	135.419	0.394	0.000	0.16		3.6	FLOOD RISK	
7.005	JUNCTION	134.211	0.000	0.000	0.34		15.5	SURCHARGED*	
10.000	DIST TANK	135.584	0.369	0.000	0.09		0.3	FLOOD RISK	
10.001	SIC 78-1	135.606	0.411	0.000	0.01		0.3	FLOOD RISK	
7.006	SMH 114	134.788	0.683	0.000	0.63		27.1	SURCHARGED	
11.000	DIST TANK	136.170	0.440	0.000	0.35		1.4	FLOOD RISK	
11.001	SIC 86-1	136.176	0.466	0.000	0.05		1.4	FLOOD RISK	
1.008	SMH 107	134.774	0.769	0.000	0.95		89.7	SURCHARGED	
12.000	DIST TANK	135.989	0.369	0.000	0.09		0.3	FLOOD RISK	
12.001	SIC 75-1	136.011	0.411	0.000	0.01		0.3	FLOOD RISK	
1.009	JUNCTION	133.970	0.000	0.000	0.68		73.0	SURCHARGED*	
13.000	DIST TANK	135.551	0.441	0.000	0.25		1.0	FLOOD RISK	
13.001	SIC 74-1	135.561	0.471	0.000	0.04		1.0	SURCHARGED	
1.010	JUNCTION	133.930	0.000	0.000	0.80		86.0	SURCHARGED*	
1.011	SMH 106	134.549	0.660	0.000	0.87		91.0	SURCHARGED	
14.000	DIST TANK	135.477	0.347	0.000	0.08		0.3	FLOOD RISK	
14.001	SIC 18-1	135.500	0.390	0.000	0.01		0.3	FLOOD RISK	
1.012	SMH 105	134.461	0.624	0.000	0.82		83.4	SURCHARGED	
15.000	DIST TANK	135.298	0.378	0.000	0.33		1.3	FLOOD RISK	
15.001	SIC 20-1	135.297	0.397	0.000	0.05		1.3	FLOOD RISK	
1.013	JUNCTION	133.799	0.000	0.000	0.73		83.3	SURCHARGED*	
16.000	DIST TANK	134.876	0.176	0.000	0.07		0.3	SURCHARGED	
16.001	SIC 73-1	134.898	0.218	0.000	0.01		0.3	SURCHARGED	
1.014	JUNCTION	133.714	0.000	0.000	0.83		89.0	SURCHARGED*	
17.000	DIST TANK	134.870	0.340	0.000	0.14		0.6	FLOOD RISK	
17.001	SIC 71-1	134.881	0.371	0.000	0.03		0.6	FLOOD RISK	
1.015	JUNCTION	133.650	0.000	0.000	0.92		98.2	SURCHARGED*	
18.000	DIST TANK	134.821	0.371	0.000	0.16		0.6	FLOOD RISK	
18.001	SIC 70-1	134.847	0.417	0.000	0.03		0.6	FLOOD RISK	
1.016	JUNCTION	133.606	0.000	0.000	0.94		101.2	SURCHARGED*	
19.000	DIST TANK	134.653	0.318	0.000	0.08		0.3	FLOOD RISK	
19.001	SIC 28-1	134.675	0.360	0.000	0.01		0.3	FLOOD RISK	
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Innovyze				Network 2019.1				
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.018	SMH 104	15 Winter	100	+45%	100/15 Summer			
20.000	DIST TANK	240 Winter	100	+45%	100/15 Summer			
20.001	SIC 68-1	240 Winter	100	+45%	100/15 Summer			
1.019	JUNCTION	30 Winter	100	+45%				
21.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
21.001	SIC 48-1	60 Winter	100	+45%	100/15 Summer			
1.020	JUNCTION	30 Winter	100	+45%				
22.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
22.001	SIC 66-1	60 Winter	100	+45%	100/15 Summer			
1.021	JUNCTION	15 Winter	100	+45%				
23.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
23.001	SIC 50-1	60 Winter	100	+45%	100/15 Summer			
1.022	JUNCTION	15 Winter	100	+45%				
24.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
24.001	SIC 64-1	120 Winter	100	+45%	100/15 Summer			
1.023	JUNCTION	30 Winter	100	+45%				
25.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
25.001	SIC 62-1	60 Winter	100	+45%	100/15 Summer			
1.024	JUNCTION	15 Winter	100	+45%				
26.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
26.001	SIC 61-1	30 Winter	100	+45%	100/15 Summer			
1.025	SMH 103	8640 Winter	100	+45%	100/4320 Winter			
27.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
27.001	SIC 55-1	120 Winter	100	+45%	100/15 Summer			
27.002	SMH 113	8640 Winter	100	+45%				
28.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
28.001	SIC 53-1	240 Winter	100	+45%	100/15 Summer			
27.003	JUNCTION	8640 Winter	100	+45%				
29.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
29.001	SIC 52-1	240 Winter	100	+45%	100/15 Summer			
27.004	JUNCTION	8640 Winter	100	+45%				
30.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
30.001	SIC 51-1	180 Winter	100	+45%	100/15 Summer			
27.005	JUNCTION	7200 Winter	100	+45%	100/5760 Winter			
1.026	SMH 102	8640 Winter	100	+45%	100/4320 Winter			
31.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
31.001	SIC 107-1	120 Winter	100	+45%	100/15 Summer			
31.002	SMH 112	120 Winter	100	+45%				
32.000	DIST TANK	240 Winter	100	+45%	100/15 Summer			
32.001	SIC 109-1	240 Winter	100	+45%	100/15 Summer			
31.003	SMH 111	8640 Winter	100	+45%				
33.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
33.001	SIC 56-1	120 Winter	100	+45%	100/15 Summer			
31.004	JUNCTION	8640 Winter	100	+45%				
34.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
34.001	SIC 57-1	120 Winter	100	+45%	100/15 Summer			
31.005	JUNCTION	8640 Winter	100	+45%				
35.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
35.001	SIC 58-1	180 Winter	100	+45%	100/15 Summer			
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Innovyze				Network 2019.1					
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.018	SMH 104	133.905	0.388	0.000	0.88		105.9	SURCHARGED	
20.000	DIST TANK	134.271	0.261	0.000	0.08		0.3	FLOOD RISK	
20.001	SIC 68-1	134.295	0.305	0.000	0.02		0.3	SURCHARGED	
1.019	JUNCTION	133.384	0.000	0.000	0.89		95.6	SURCHARGED*	
21.000	DIST TANK	134.281	0.471	0.000	0.36		1.4	FLOOD RISK	
21.001	SIC 48-1	134.299	0.509	0.000	0.10		1.4	FLOOD RISK	
1.020	JUNCTION	133.355	0.000	0.000	0.88		94.5	SURCHARGED*	
22.000	DIST TANK	134.282	0.427	0.000	0.24		0.9	FLOOD RISK	
22.001	SIC 66-1	134.270	0.435	0.000	0.06		0.9	FLOOD RISK	
1.021	JUNCTION	133.323	0.000	0.000	1.11		119.0	SURCHARGED*	
23.000	DIST TANK	133.944	0.294	0.000	0.21		0.8	FLOOD RISK	
23.001	SIC 50-1	133.956	0.326	0.000	0.06		0.8	FLOOD RISK	
1.022	JUNCTION	133.298	0.000	0.000	1.19		127.7	SURCHARGED*	
24.000	DIST TANK	133.999	0.304	0.000	0.14		0.5	FLOOD RISK	
24.001	SIC 64-1	134.017	0.342	0.000	0.04		0.5	FLOOD RISK	
1.023	JUNCTION	133.254	0.000	0.000	0.92		99.1	SURCHARGED*	
25.000	DIST TANK	134.026	0.471	0.000	0.36		1.4	FLOOD RISK	
25.001	SIC 62-1	134.044	0.509	0.000	0.11		1.4	FLOOD RISK	
1.024	JUNCTION	133.208	0.000	0.000	1.28		137.6	SURCHARGED*	
26.000	DIST TANK	133.938	0.413	0.000	0.24		0.9	FLOOD RISK	
26.001	SIC 61-1	133.944	0.439	0.000	0.07		0.9	SURCHARGED	
1.025	SMH 103	133.208	0.024	0.000	0.03		5.3	SURCHARGED	
27.000	DIST TANK	133.767	0.402	0.000	0.25		1.0	FLOOD RISK	
27.001	SIC 55-1	133.794	0.449	0.000	0.13		0.9	FLOOD RISK	
27.002	SMH 113	133.208	-0.050	0.000	0.00		0.4	OK	
28.000	DIST TANK	133.793	0.313	0.000	0.14		0.5	FLOOD RISK	
28.001	SIC 53-1	133.789	0.329	0.000	0.05		0.5	FLOOD RISK	
27.003	JUNCTION	133.208	-0.024	0.000	0.00		0.5	OK*	
29.000	DIST TANK	133.923	0.313	0.000	0.14		0.5	FLOOD RISK	
29.001	SIC 52-1	133.919	0.329	0.000	0.03		0.5	FLOOD RISK	
27.004	JUNCTION	133.208	-0.001	0.000	0.00		0.6	OK*	
30.000	DIST TANK	134.086	0.351	0.000	0.14		0.6	FLOOD RISK	
30.001	SIC 51-1	134.080	0.365	0.000	0.03		0.6	FLOOD RISK	
27.005	JUNCTION	133.197	0.011	0.000	0.00		0.8	SURCHARGED*	
1.026	SMH 102	133.208	0.045	0.000	0.02		6.1	SURCHARGED	
31.000	DIST TANK	135.225	0.330	0.000	0.08		0.3	FLOOD RISK	

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Innovyze	Network 2019.1	

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

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
35.001	SIC 58-1	133.850	0.350	0.000	0.02		0.3	FLOOD RISK	

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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.
31.006	JUNCTION	7200 Winter	100	+45%				
36.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
36.001	SIC 59-1	60 Winter	100	+45%	100/15 Summer			
31.007	SMH 110	8640 Winter	100	+45%	100/4320 Winter			
37.000	FC 2	360 Winter	100	+45%				
31.008	SMH 109A	8640 Winter	100	+45%	100/2880 Winter			
31.009	SMH 109	8640 Winter	100	+45%	100/2160 Winter			
1.027	SMH 100	8640 Winter	100	+45%	100/2160 Summer			
38.000	FC 3	360 Winter	100	+45%				
38.001	SMH 149	8640 Winter	100	+45%	100/240 Winter			
1.028	POND	8640 Winter	100	+45%	100/1440 Winter			
1.029	FC 4	8640 Winter	100	+45%	100/30 Winter			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
31.006	JUNCTION	133.200	0.000	0.000	0.00		0.8	SURCHARGED*	
36.000	DIST TANK	133.797	0.277	0.000	0.20		0.8	FLOOD RISK	
36.001	SIC 59-1	133.814	0.314	0.000	0.06		0.8	FLOOD RISK	
31.007	SMH 110	133.209	0.031	0.000	0.00		0.8	SURCHARGED	
37.000	FC 2	133.524	-0.106	0.000	0.19		7.3	OK	
31.008	SMH 109A	133.209	0.055	0.000	0.03		8.1	SURCHARGED	
31.009	SMH 109	133.209	0.099	0.000	0.03		8.3	SURCHARGED	
1.027	SMH 100	133.208	0.135	0.000	0.05		14.3	SURCHARGED	
38.000	FC 3	133.490	-0.135	0.000	0.02		1.1	OK	
38.001	SMH 149	133.212	0.442	0.000	0.07		1.2	SURCHARGED	
1.028	POND	133.207	0.182	0.000	0.05		10.3	FLOOD RISK	
1.029	FC 4	133.225	0.660	0.000	0.17		9.3	SURCHARGED	