



RIDGE

Victoria Road, Warminster, Wiltshire

Surcharged Outfall Conditions Assessment

PREPARED BY:
Ridge and Partners LLP

FOR:
Keepmoat Homes

DATE:
February 2026

REFERENCE:
24233-ZZ-XX-TN-C-
0001_P01

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1.0 Project Information

1.1 Project Information

Client Keepmoat Devon Homes

1.2 Project Details

Project Name Victoria Road

Location Warminster, Wiltshire

Ridge Project Number 24233

1.3 Report Details

Version 01

Status Approval

Date February 2026

1.4 Project Authorisation

ISSUE HISTORY:

AUTHORISATION:

Version	Date	Detail	Prepared By	Approved By
01	February 2026	Approval	E. Parkin Hughes	W. Hudson

2.0 Introduction

In relation to Drainage Condition 15 of planning consent PL/2025/01523 the Lead Local Flood Authority (LLFA) for Wiltshire Council have requested that information is submitted and accepted for no flooding for the site considering surcharged outfall conditions.

The following technical note seeks to address this requirement and subsequently each individual system outfall that discharges into an attenuation storage feature (infiltration basin or pond) has been modelled under surcharged conditions.

3.0 Surface Water Drainage Network Calculations

MicroDrainage Hydraulic Calculations have been undertaken for four surface water drainage networks which consider all incoming flows and are labelled as follows:

SWD Network – Infiltration Basin A

SWD Network – Infiltration Basin B

SWD Network – Pond C

SWD Network – Infiltration Basin D

Each individual surface water drainage networks discharges into a SuDS element acting as an attenuation storage feature which then has a flow control device limiting discharge rates to the connecting downstream network. These discharge rates have also been considered and allowed for within each downstream network as a base flow (constant inflow). For example, Pond C includes base inflows from Infiltration Basin B (7.3 l/s) and infiltration Basin D (1.1 l/s) respectively.

4.0 Surcharged Outfall Conditions

MicroDrainage Hydraulic Calculations have also been undertaken for the four surface water drainage networks that consider surcharged outfall conditions. The surcharged depth for each has been assessed as a fixed surcharge level, this level is the maximum level that the outlet will act against and is measured as the difference in level between the piped outlet level and the maximum water level within the relevant storage element.

5.0 Conclusion

The results from these hydraulic calculations are provided within Appendix A.

These results indicate that there will be no flooding for the site when considering surcharged outflow conditions.

Appendix A – MicroDrainage Surcgarged Outfall Results

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD INFILTRATION BASIN A SURCHARGED OUTFALL	
Date 19/02/2026 File SWD NETWORK - INFILTRAT...	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

Surcharged Outfall Details for Storm

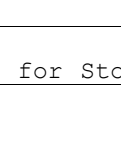
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.025		136.578	135.278	0.000	0	0

Datum (m) 135.278 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
30	1.001	330	1.001	630	1.001	930	1.001	1230	1.001	1530	1.001
60	1.001	360	1.001	660	1.001	960	1.001	1260	1.001	1560	1.001
90	1.001	390	1.001	690	1.001	990	1.001	1290	1.001	1590	1.001
120	1.001	420	1.001	720	1.001	1020	1.001	1320	1.001	1620	1.001
150	1.001	450	1.001	750	1.001	1050	1.001	1350	1.001	1650	1.001
180	1.001	480	1.001	780	1.001	1080	1.001	1380	1.001	1680	1.001
210	1.001	510	1.001	810	1.001	1110	1.001	1410	1.001	1710	1.001
240	1.001	540	1.001	840	1.001	1140	1.001	1440	1.001	1740	1.001
270	1.001	570	1.001	870	1.001	1170	1.001	1470	1.001	1770	1.001
300	1.001	600	1.001	900	1.001	1200	1.001	1500	1.001	1800	1.001

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Innovyze				Network 2019.1																																																																																							
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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 Coeffiecient	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	46
Number of Online Controls	46	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) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.00	DIST TANK 120	Winter	100	+45%	100/15 Summer			
1.01	SIC 206-1 120	Winter	100	+45%	100/15 Summer			
1.02	SMH 14 60	Winter	100	+45%				
2.00	DIST TANK 1 120	Winter	100	+45%	100/15 Summer			
2.01	SIC 207-1 120	Winter	100	+45%	100/15 Summer			
1.03	JUNCTION 60	Winter	100	+45%				
1.04	SMH 13 15	Winter	100	+45%	100/15 Summer			
1.05	JUNCTION 60	Winter	100	+45%				
3.00	DIST TANK 1 60	Winter	100	+45%	100/15 Summer			
3.01	SIC 209-1 60	Winter	100	+45%	100/15 Summer			

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.006	JUNCTION	60 Winter	100	+45%				
4.00	DIST TANK 1	60 Winter	100	+45%	100/15 Summer			
4.01	SIC 210-1	30 Winter	100	+45%	100/15 Summer			
1.07	JUNCTION	120 Winter	100	+45%				
1.08	SMH 12	15 Winter	100	+45%	100/15 Summer			
5.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
5.01	SIC 188-1	120 Winter	100	+45%	100/15 Summer			
5.02	SMH 22	15 Winter	100	+45%				
6.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
6.01	SIC 187-1	60 Winter	100	+45%	100/15 Summer			
5.003	JUNCTION	15 Winter	100	+45%				
7.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
7.01	SIC 186-1	60 Winter	100	+45%	100/15 Summer			
5.004	JUNCTION	15 Winter	100	+45%				
8.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
8.01	SIC 185-1	60 Winter	100	+45%	100/15 Summer			
5.005	SMH 21	15 Winter	100	+45%	100/15 Summer			
9.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
9.01	SIC 205-1	60 Winter	100	+45%	100/15 Summer			
5.006	SMH 20	15 Winter	100	+45%	100/15 Summer			
10.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
10.01	SIC 204-1	60 Winter	100	+45%	100/15 Summer			
5.07	JUNCTION	30 Winter	100	+45%				
5.08	SMH 19	15 Winter	100	+45%	100/15 Summer			
1.009	SMH 11	15 Winter	100	+45%	100/15 Summer			
11.00	DIST TANK	15 Winter	100	+45%	100/15 Summer			
11.01	SIC 222-1	15 Winter	100	+45%	100/15 Summer			
11.02	SMH 18	15 Winter	100	+45%	100/15 Summer			
12.00	DIS TANK	15 Winter	100	+45%	100/15 Summer			
12.01	SIC 220-1	30 Winter	100	+45%	100/15 Summer			
11.003	JUNCTION	15 Winter	100	+45%				
13.00	DIST TANK	15 Winter	100	+45%	100/15 Summer			
13.01	SIC 219-1	15 Winter	100	+45%	100/15 Summer			
11.04	JUNCTION	30 Winter	100	+45%				
11.05	SMH 17	15 Winter	100	+45%	100/15 Summer			
14.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
14.01	SIC 136-1	60 Winter	100	+45%	100/15 Summer			
11.006	JUNCTION	60 Winter	100	+45%				
15.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
15.01	SIC 138-1	60 Winter	100	+45%	100/15 Summer			
11.007	JUNCTION	60 Winter	100	+45%				
16.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
16.01	SIC 140-1	60 Winter	100	+45%	100/15 Summer			
11.008	JUNCTION	120 Winter	100	+45%				
17.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
17.01	SIC 141-1	30 Winter	100	+45%	100/15 Summer			
1.10	SMH 10	15 Winter	100	+45%	100/15 Summer			
1.11	SMH 9	15 Winter	100	+45%	100/15 Summer			
18.000	DIST TANK	15 Winter	100	+45%	100/15 Summer			
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD INFILTRATION BASIN A SURCHARGED OUTFALL					
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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 (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.006	JUNCTION	136.906	0.000	0.000	0.28		22.8	SURCHARGED*	
4.000	DIST TANK 1	138.819	0.169	0.000	0.17		0.7	SURCHARGED	
4.001	SIC 210-1	138.833	0.203	0.000	0.02		0.7	SURCHARGED	
1.07	JUNCTION	136.803	0.000	0.000	0.21		18.4	SURCHARGED*	
1.08	SMH 12	138.560	1.874	0.000	0.74		50.7	SURCHARGED	
5.000	DIST TANK	141.726	0.466	0.000	0.26		1.0	FLOOD RISK	
5.01	SIC 188-1	141.753	0.513	0.000	0.06		1.0	SURCHARGED	
5.02	SMH 22	140.366	-0.084	0.000	0.40		13.3	OK	
6.000	DIST TANK	140.900	0.405	0.000	0.24		0.9	SURCHARGED	
6.01	SIC 187-1	140.910	0.435	0.000	0.06		0.9	SURCHARGED	
5.003	JUNCTION	139.906	-0.054	0.000	0.73		26.7	OK*	
7.000	DIST TANK	140.380	0.405	0.000	0.24		0.9	SURCHARGED	
7.001	SIC 186-1	140.390	0.435	0.000	0.06		0.9	SURCHARGED	
5.004	JUNCTION	139.457	-0.053	0.000	0.75		27.3	OK*	
8.000	DIST TANK	139.855	0.405	0.000	0.24		0.9	SURCHARGED	
8.001	SIC 185-1	139.865	0.435	0.000	0.06		0.9	SURCHARGED	
5.005	SMH 21	138.984	0.084	0.000	0.97		26.9	SURCHARGED	
9.000	DIST TANK	139.365	0.375	0.000	0.17		0.9	SURCHARGED	
9.001	SIC 205-1	139.377	0.427	0.000	0.06		0.9	SURCHARGED	
5.006	SMH 20	138.856	0.406	0.000	1.05		26.1	SURCHARGED	
10.000	DIST TANK	139.429	0.339	0.000	0.22		0.9	FLOOD RISK	
10.001	SIC 204-1	139.441	0.371	0.000	0.05		0.9	FLOOD RISK	
5.07	JUNCTION	138.290	0.000	0.000	0.71		21.2	SURCHARGED*	
5.08	SMH 19	138.704	0.643	0.000	0.60		36.4	SURCHARGED	
1.009	SMH 11	138.545	1.933	0.000	0.72		92.0	SURCHARGED	
11.000	DIST TANK	138.727	0.202	0.000	0.56		2.7	SURCHARGED	
11.01	SIC 222-1	138.724	0.229	0.000	0.16		2.7	SURCHARGED	
11.02	SMH 18	138.744	0.704	0.000	0.41		7.5	SURCHARGED	
12.000	DIS TANK	138.815	0.235	0.000	0.73		2.9	SURCHARGED	
12.01	SIC 220-1	138.810	0.250	0.000	0.15		2.8	SURCHARGED	
11.003	JUNCTION	137.849	0.000	0.000	0.79		15.6	SURCHARGED*	
13.000	DIST TANK	139.279	0.479	0.000	0.99		3.9	FLOOD RISK	
13.001	SIC 219-1	139.266	0.486	0.000	0.16		3.9	FLOOD RISK	
11.04	JUNCTION	137.658	0.000	0.000	1.01		20.1	SURCHARGED*	
11.05	SMH 17	138.685	1.226	0.000	0.56		31.3	SURCHARGED	
14.000	DIST TANK	139.236	0.316	0.000	0.21		0.8	FLOOD RISK	
14.01	SIC 136-1	139.237	0.337	0.000	0.03		0.8	FLOOD RISK	
11.006	JUNCTION	137.281	0.000	0.000	0.33		21.8	SURCHARGED*	
15.000	DIST TANK	138.987	0.277	0.000	0.20		0.8	FLOOD RISK	
15.001	SIC 138-1	139.008	0.318	0.000	0.03		0.8	SURCHARGED	
11.007	JUNCTION	137.032	0.000	0.000	0.58		38.0	SURCHARGED*	
16.000	DIST TANK	138.758	0.283	0.000	0.21		0.8	FLOOD RISK	
16.001	SIC 140-1	138.775	0.320	0.000	0.03		0.8	SURCHARGED	
11.008	JUNCTION	136.746	0.000	0.000	0.49		32.1	SURCHARGED*	
17.000	DIST TANK	138.504	0.144	0.000	0.17		0.6	SURCHARGED	
17.001	SIC 141-1	138.503	0.163	0.000	0.02		0.6	SURCHARGED	
1.10	SMH 10	138.429	2.052	0.000	0.95		160.9	SURCHARGED	
1.11	SMH 9	138.412	2.059	0.000	0.77		199.2	SURCHARGED	
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18.000	DIST TANK	140.297	0.277	0.000	0.20		0.8	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.
18.01	SIC 173-1	15 Winter	100	+45%	100/15 Summer			
18.02	SMH 32	15 Winter	100	+45%	100/15 Summer			
19.00	DIST TANK	15 Winter	100	+45%	100/15 Summer			
19.01	SIC 172-1	60 Winter	100	+45%	100/15 Summer			
18.003	JUNCTION	30 Winter	100	+45%				
20.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
20.01	SIC 171-1	60 Winter	100	+45%	100/15 Summer			
18.004	SMH 31	15 Winter	100	+45%	100/15 Summer			
21.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
21.01	SIC 170-1	60 Winter	100	+45%	100/15 Summer			
18.005	JUNCTION	30 Winter	100	+45%				
22.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
22.01	SIC 167-1	60 Summer	100	+45%	100/15 Summer			
18.06	JUNCTION	60 Winter	100	+45%				
18.07	SMH 30	15 Winter	100	+45%	100/15 Summer			
23.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
23.01	SIC 174-1	30 Winter	100	+45%	100/15 Summer			
23.02	SMH 34	15 Winter	100	+45%	100/15 Winter			
24.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
24.01	SIC 175-1	30 Winter	100	+45%	100/15 Summer			
23.03	JUNCTION	15 Winter	100	+45%				
23.04	SMH 33	15 Winter	100	+45%				
18.008	SMH 29	15 Winter	100	+45%	100/15 Summer			
25.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
25.01	SIC 176-1	60 Winter	100	+45%	100/15 Summer			
18.009	JUNCTION	60 Winter	100	+45%				
26.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
26.01	SIC 169-1	30 Winter	100	+45%	100/15 Summer			
18.010	SMH 28	15 Winter	100	+45%	100/15 Summer			
27.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
27.01	SIC 178-1	120 Winter	100	+45%	100/15 Summer			
18.011	JUNCTION	60 Winter	100	+45%				
28.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
28.01	SIC 166-1	60 Winter	100	+45%	100/15 Summer			
29.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
29.01	SIC 184-1	60 Winter	100	+45%	100/15 Summer			
29.02	SMH 27	15 Winter	100	+45%				
30.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
30.01	SIC 182-1	60 Winter	100	+45%	100/15 Summer			
29.03	SMH 26	15 Winter	100	+45%				
29.04	SMH 25	15 Winter	100	+45%				
31.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
31.01	SIC 181-1	60 Winter	100	+45%	100/15 Summer			
29.005	JUNCTION	15 Winter	100	+45%				
32.000	HD CP1	15 Summer	100	+45%	100/15 Summer			
29.006	SMH 24	15 Winter	100	+45%				
33.00	DIST TANK	30 Winter	100	+45%	100/15 Summer			
33.01	SIC 190-1	30 Winter	100	+45%	100/15 Summer			
29.007	JUNCTION	30 Winter	100	+45%				
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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 (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
18.01	SIC 173-1	140.304	0.304	0.000	0.05		0.8	FLOOD RISK	
18.02	SMH 32	140.587	1.092	0.000	0.66		10.3	FLOOD RISK	
19.000	DIST TANK	140.355	0.235	0.000	0.20		0.8	SURCHARGED	
19.01	SIC 172-1	140.370	0.270	0.000	0.04		0.8	FLOOD RISK	
18.003	JUNCTION	139.410	0.000	0.000	0.82		14.6	SURCHARGED*	
20.000	DIST TANK	140.772	0.387	0.000	0.24		0.9	FLOOD RISK	
20.001	SIC 171-1	140.792	0.427	0.000	0.04		0.9	FLOOD RISK	
18.004	SMH 31	140.518	1.216	0.000	1.08		17.0	SURCHARGED	
21.000	DIST TANK	141.046	0.311	0.000	0.21		0.8	FLOOD RISK	
21.001	SIC 170-1	141.064	0.349	0.000	0.03		0.8	FLOOD RISK	
18.005	JUNCTION	139.212	0.000	0.000	1.08		19.4	SURCHARGED*	
22.000	DIST TANK	141.092	0.117	0.000	0.16		0.6	SURCHARGED	
22.001	SIC 167-1	141.088	0.133	0.000	0.02		0.6	SURCHARGED	
18.06	JUNCTION	139.092	0.000	0.000	1.12		20.2	SURCHARGED*	
18.07	SMH 30	140.169	1.260	0.000	2.00		32.2	SURCHARGED	
23.000	DIST TANK	141.696	0.321	0.000	0.16		0.9	SURCHARGED	
23.01	SIC 174-1	141.692	0.357	0.000	0.13		0.9	SURCHARGED	
23.02	SMH 34	141.275	0.000	0.000	0.59		9.1	SURCHARGED	
24.000	DIST TANK	141.861	0.321	0.000	0.16		0.9	SURCHARGED	
24.01	SIC 175-1	141.847	0.347	0.000	0.06		0.9	SURCHARGED	
23.03	JUNCTION	141.195	0.000	0.000	1.12		20.0	SURCHARGED*	
23.04	SMH 33	140.950	-0.054	0.000	0.74		20.0	OK	
18.008	SMH 29	140.006	1.206	0.000	0.97		44.7	SURCHARGED	
25.000	DIST TANK	142.549	0.359	0.000	0.23		0.9	FLOOD RISK	
25.001	SIC 176-1	142.550	0.380	0.000	0.02		0.9	FLOOD RISK	
18.009	JUNCTION	138.650	0.000	0.000	1.16		34.6	SURCHARGED*	
26.000	DIST TANK	142.357	0.250	0.000	0.20		0.8	FLOOD RISK	
26.001	SIC 169-1	142.359	0.272	0.000	0.03		0.8	FLOOD RISK	
18.010	SMH 28	139.801	1.195	0.000	1.43		53.5	SURCHARGED	
27.000	DIST TANK	141.742	0.357	0.000	0.24		0.9	FLOOD RISK	
27.001	SIC 178-1	141.769	0.404	0.000	0.03		0.9	FLOOD RISK	
18.011	JUNCTION	138.536	0.000	0.000	0.98		50.8	SURCHARGED*	
28.000	DIST TANK	141.156	0.207	0.000	0.18		0.7	SURCHARGED	
28.01	SIC 166-1	141.158	0.229	0.000	0.03		0.7	SURCHARGED	
29.000	DIST TANK	142.281	0.366	0.000	0.23		0.9	SURCHARGED	
29.01	SIC 184-1	142.296	0.401	0.000	0.12		0.9	SURCHARGED	
29.02	SMH 27	141.674	-0.101	0.000	0.23		4.2	OK	
30.000	DIST TANK	142.382	0.262	0.000	0.20		0.8	SURCHARGED	
30.01	SIC 182-1	142.400	0.300	0.000	0.05		0.8	SURCHARGED	
29.03	SMH 26	141.514	-0.076	0.000	0.48		8.4	OK	
29.04	SMH 25	141.407	-0.078	0.000	0.46		8.3	OK	
31.000	DIST TANK	142.096	0.341	0.000	0.22		0.9	SURCHARGED	
31.01	SIC 181-1	142.113	0.378	0.000	0.07		0.9	SURCHARGED	
29.05	JUNCTION	141.348	-0.054	0.000	0.73		23.3	OK*	
32.000	HD CP1	141.100	0.140	0.000	1.56		24.6	SURCHARGED	
29.06	SMH 24	140.820	-0.040	0.000	0.68		63.0	OK	
33.000	DIST TANK	141.437	0.252	0.000	0.20		0.8	FLOOD RISK	
33.01	SIC 190-1	141.455	0.290	0.000	0.03		0.8	FLOOD RISK	
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<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
29.007	JUNCTION	139.990	0.000	0.000	1.47		44.0	SURCHARGED*	
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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.
34.00	DIST TANK	30 Winter	100	+45%	100/15 Summer			
34.01	SIC 180-1	30 Winter	100	+45%	100/15 Summer			
29.008	JUNCTION	15 Winter	100	+45%				
35.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
35.01	SIC 191-1	30 Winter	100	+45%	100/15 Summer			
29.009	JUNCTION	15 Winter	100	+45%				
36.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
36.01	SIC 179-1	30 Winter	100	+45%	100/15 Summer			
29.010	JUNCTION	15 Winter	100	+45%				
18.012	SMH 23	15 Winter	100	+45%	100/15 Summer			
37.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
37.01	SIC 165-1	180 Winter	100	+45%	100/15 Summer			
18.013	JUNCTION	60 Winter	100	+45%				
1.12	SMH 8	15 Winter	100	+45%	100/15 Summer			
1.13	SMH 7	15 Winter	100	+45%	100/15 Summer			
1.14	SMH 6	15 Winter	100	+45%	100/15 Summer			
38.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
38.01	SIC 146-1	120 Winter	100	+45%	100/15 Summer			
1.015	JUNCTION	360 Winter	100	+45%				
39.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
39.01	SIC 152_1	180 Winter	100	+45%	100/15 Summer			
40.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
40.01	SIC 153-1	60 Winter	100	+45%	100/15 Summer			
39.002	SMH 36	60 Winter	100	+45%				
41.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
41.01	SIC 154-1	60 Winter	100	+45%	100/15 Summer			
39.003	JUNCTION	60 Winter	100	+45%				
42.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
42.01	SIC 155-1	60 Winter	100	+45%	100/15 Summer			
39.04	JUNCTION	15 Winter	100	+45%				
39.05	SMH 35	15 Winter	100	+45%	100/15 Summer			
1.016	SMH 5	15 Winter	100	+45%	100/15 Summer			
43.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
43.01	SIC 148-1	180 Winter	100	+45%	100/15 Summer			
1.17	JUNCTION	360 Winter	100	+45%				
1.18	SMH 4	15 Winter	100	+45%	100/15 Summer			
44.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
44.01	SIC 150-1	180 Winter	100	+45%	100/15 Summer			
1.19	JUNCTION	360 Winter	100	+45%				
1.20	SMH 3	15 Winter	100	+45%	100/15 Summer			
45.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
45.01	SIC 111-1	180 Winter	100	+45%	100/15 Summer			
1.021	JUNCTION	360 Winter	100	+45%				
46.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
46.01	SIC 113-1	180 Winter	100	+45%	100/15 Summer			
1.022	JUNCTION	360 Winter	100	+45%				
47.000	SWMH 114-3	15 Winter	100	+45%	100/15 Summer			
47.001	SWMH 114-2	60 Summer	100	+45%	100/15 Winter			
48.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
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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
34.000	DIST TANK	141.522	0.252	0.000	0.20		0.8	FLOOD RISK	
34.001	SIC 180-1	141.540	0.290	0.000	0.03		0.8	SURCHARGED	
29.008	JUNCTION	139.951	0.000	0.000	0.58		53.7	SURCHARGED*	
35.000	DIST TANK	141.372	0.227	0.000	0.19		0.8	SURCHARGED	
35.001	SIC 191-1	141.382	0.257	0.000	0.03		0.7	SURCHARGED	
29.009	JUNCTION	139.521	0.000	0.000	1.49		64.3	SURCHARGED*	
36.000	DIST TANK	141.451	0.231	0.000	0.19		0.8	SURCHARGED	
36.001	SIC 179-1	141.469	0.269	0.000	0.03		0.8	SURCHARGED	
29.010	JUNCTION	139.427	0.000	0.000	0.79		80.4	SURCHARGED*	
18.012	SMH 23	139.456	1.066	0.000	1.62		151.5	SURCHARGED	
37.000	DIST TANK	140.056	0.116	0.000	0.16		0.6	SURCHARGED	
37.001	SIC 165-1	140.068	0.148	0.000	0.02		0.6	SURCHARGED	
18.013	JUNCTION	138.236	0.000	0.000	1.09		121.2	SURCHARGED*	
1.12	SMH 8	138.380	2.089	0.000	1.53		384.1	SURCHARGED	
1.13	SMH 7	138.260	2.021	0.000	1.56		411.7	SURCHARGED	
1.14	SMH 6	138.113	1.943	0.000	2.11		405.1	SURCHARGED	
38.000	DIST TANK	138.135	0.325	0.000	0.23		0.9	FLOOD RISK	
38.001	SIC 146-1	138.159	0.369	0.000	0.03		0.9	FLOOD RISK	
1.015	JUNCTION	136.155	0.000	0.000	0.40		105.8	SURCHARGED*	
39.000	DIST TANK	139.744	0.274	0.000	0.20		0.8	FLOOD RISK	
39.001	SIC 152_1	139.741	0.291	0.000	0.04		0.8	SURCHARGED	
40.000	DIST TANK	139.639	0.359	0.000	0.23		0.9	FLOOD RISK	
40.001	SIC 153-1	139.656	0.396	0.000	0.04		0.9	FLOOD RISK	
39.002	SMH 36	138.498	-0.127	0.000	0.06		1.7	OK	
41.000	DIST TANK	139.284	0.359	0.000	0.23		0.9	FLOOD RISK	
41.001	SIC 154-1	139.301	0.396	0.000	0.04		0.9	FLOOD RISK	
39.003	JUNCTION	138.155	-0.122	0.000	0.08		2.6	OK*	
42.000	DIST TANK	138.794	0.359	0.000	0.23		0.9	FLOOD RISK	
42.001	SIC 155-1	138.811	0.396	0.000	0.04		0.9	FLOOD RISK	
39.04	JUNCTION	137.809	0.000	0.000	0.22		6.6	SURCHARGED*	
39.05	SMH 35	137.948	0.375	0.000	0.70		31.0	SURCHARGED	
1.016	SMH 5	137.794	1.661	0.000	2.06		423.3	SURCHARGED	
43.000	DIST TANK	137.780	0.290	0.000	0.21		0.8	FLOOD RISK	
43.001	SIC 148-1	137.785	0.315	0.000	0.03		0.8	SURCHARGED	
1.17	JUNCTION	136.119	0.000	0.000	0.44		115.2	SURCHARGED*	
1.18	SMH 4	137.445	1.354	0.000	1.95		431.7	SURCHARGED	
44.000	DIST TANK	137.794	0.304	0.000	0.21		0.8	FLOOD RISK	
44.001	SIC 150-1	137.798	0.328	0.000	0.03		0.8	FLOOD RISK	
1.19	JUNCTION	136.082	0.000	0.000	0.45		115.8	SURCHARGED*	
1.20	SMH 3	137.085	1.029	0.000	2.01		434.9	SURCHARGED	
45.000	DIST TANK	137.614	0.304	0.000	0.21		0.8	FLOOD RISK	
45.001	SIC 111-1	137.618	0.328	0.000	0.03		0.8	FLOOD RISK	
1.021	JUNCTION	136.046	0.000	0.000	0.42		117.4	SURCHARGED*	
46.000	DIST TANK	137.237	0.277	0.000	0.20		0.8	FLOOD RISK	
46.001	SIC 113-1	137.239	0.299	0.000	0.04		0.8	FLOOD RISK	
1.022	JUNCTION	136.009	0.000	0.000	0.41		118.1	SURCHARGED*	
47.000	SWMH 114-3	137.664	0.039	0.000	1.01		27.4	SURCHARGED	
47.001	SWMH 114-2	136.801	0.136	0.000	0.39		28.0	SURCHARGED	
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<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
48.000	DIST TANK	136.920	0.320	0.000	0.22		0.9	FLOOD RISK	
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<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.
48.001	SIC 115-1	30 Winter	100	+45%	100/15 Summer			
47.002	SWMH 114-1	60 Summer	100	+45%	100/15 Summer			
1.023	SMH 2	60 Summer	100	+45%	100/15 Summer			
49.00	DIST TANK	60 Summer	100	+45%	100/15 Summer			
49.01	SIC 116-1	60 Summer	100	+45%	100/60 Summer			
1.24	JUNCTION	360 Winter	100	+45%				
1.25	SMH 1	60 Summer	100	+45%	100/15 Summer			
						</		

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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

Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall C. Level Name (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.026	134.500	133.500	0.000	0	0

Datum (m) 133.500 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
30	0.701	330	0.701	630	0.701	930	0.701	1230	0.701	1530	0.701
60	0.701	360	0.701	660	0.701	960	0.701	1260	0.701	1560	0.701
90	0.701	390	0.701	690	0.701	990	0.701	1290	0.701	1590	0.701
120	0.701	420	0.701	720	0.701	1020	0.701	1320	0.701	1620	0.701
150	0.701	450	0.701	750	0.701	1050	0.701	1350	0.701	1650	0.701
180	0.701	480	0.701	780	0.701	1080	0.701	1380	0.701	1680	0.701
210	0.701	510	0.701	810	0.701	1110	0.701	1410	0.701	1710	0.701
240	0.701	540	0.701	840	0.701	1140	0.701	1440	0.701	1740	0.701
270	0.701	570	0.701	870	0.701	1170	0.701	1470	0.701	1770	0.701
300	0.701	600	0.701	900	0.701	1200	0.701	1500	0.701	1800	0.701

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD INFILTRATION BASIN B SURCHARGED OUTFALL																																																																																											
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<u>Surcharged Outfall Details for Storm</u> <table><tr><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th></tr><tr><td>1830</td><td>0.701</td><td>2010</td><td>0.701</td><td>2190</td><td>0.701</td><td>2370</td><td>0.701</td><td>2550</td><td>0.701</td><td>2730</td><td>0.701</td></tr><tr><td>1860</td><td>0.701</td><td>2040</td><td>0.701</td><td>2220</td><td>0.701</td><td>2400</td><td>0.701</td><td>2580</td><td>0.701</td><td>2760</td><td>0.701</td></tr><tr><td>1890</td><td>0.701</td><td>2070</td><td>0.701</td><td>2250</td><td>0.701</td><td>2430</td><td>0.701</td><td>2610</td><td>0.701</td><td>2790</td><td>0.701</td></tr><tr><td>1920</td><td>0.701</td><td>2100</td><td>0.701</td><td>2280</td><td>0.701</td><td>2460</td><td>0.701</td><td>2640</td><td>0.701</td><td>2820</td><td>0.701</td></tr><tr><td>1950</td><td>0.701</td><td>2130</td><td>0.701</td><td>2310</td><td>0.701</td><td>2490</td><td>0.701</td><td>2670</td><td>0.701</td><td>2850</td><td>0.701</td></tr><tr><td>1980</td><td>0.701</td><td>2160</td><td>0.701</td><td>2340</td><td>0.701</td><td>2520</td><td>0.701</td><td>2700</td><td>0.701</td><td>2880</td><td>0.701</td></tr></table>												Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	1830	0.701	2010	0.701	2190	0.701	2370	0.701	2550	0.701	2730	0.701	1860	0.701	2040	0.701	2220	0.701	2400	0.701	2580	0.701	2760	0.701	1890	0.701	2070	0.701	2250	0.701	2430	0.701	2610	0.701	2790	0.701	1920	0.701	2100	0.701	2280	0.701	2460	0.701	2640	0.701	2820	0.701	1950	0.701	2130	0.701	2310	0.701	2490	0.701	2670	0.701	2850	0.701	1980	0.701	2160	0.701	2340	0.701	2520	0.701	2700	0.701	2880	0.701
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)																																																																																				
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1980	0.701	2160	0.701	2340	0.701	2520	0.701	2700	0.701	2880	0.701																																																																																				
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<u>Simulation Criteria</u>																																																																																																												
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 Coeffiecient 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 16																																																																																																							
Number of Online Controls 15					Number of Time/Area Diagrams 0																																																																																																							
Number of Offline Controls 0					Number of Real Time Controls 0																																																																																																							
<u>Synthetic Rainfall Details</u>																																																																																																												
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																																																																																																							
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm</th><th>Return Period</th><th>Climate Change</th><th>First (X) Surge</th><th>First (Y) Flood</th><th>First (Z) Overflow</th><th>Overflow Act.</th></tr><tr><td>1.00</td><td>DIST TANK</td><td>120 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>1.01</td><td>SIC 225-1</td><td>180 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>1.02</td><td>SMH 61</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>SWRE 227-4</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>2.01</td><td>SIC 227-3</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>2.02</td><td>SIC 227-2</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>2.03</td><td>SIC 227-1</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>3.00</td><td>DIST TANK</td><td>120 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>3.01</td><td>SIC 226-1</td><td>120 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>SMH 60</td><td>15 Winter</td><td>100</td><td>+45%</td><td>100/15 Summer</td><td></td><td></td><td></td></tr></table>										PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	1.00	DIST TANK	120 Winter	100	+45%	100/15 Summer				1.01	SIC 225-1	180 Winter	100	+45%	100/15 Summer				1.02	SMH 61	15 Winter	100	+45%	100/15 Summer				2.000	SWRE 227-4	15 Winter	100	+45%	100/15 Summer				2.01	SIC 227-3	15 Winter	100	+45%	100/15 Summer				2.02	SIC 227-2	15 Winter	100	+45%	100/15 Summer				2.03	SIC 227-1	15 Winter	100	+45%	100/15 Summer				3.00	DIST TANK	120 Winter	100	+45%	100/15 Summer				3.01	SIC 226-1	120 Winter	100	+45%	100/15 Summer				1.003	SMH 60	15 Winter	100	+45%	100/15 Summer			
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.																																																																																																				
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD INFILTRATION BASIN B SURCHARGED OUTFALL					
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<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>								

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD INFILTRATION BASIN B SURCHARGED OUTFALL				
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<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.
1.004	SMH 59	15 Winter	100	+45%	100/15 Summer			
4.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
4.01	SIC 1-1	60 Winter	100	+45%	100/15 Summer			
4.02	SMH 64	15 Winter	100	+45%	100/15 Summer			
5.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
5.01	SIC 4-1	120 Winter	100	+45%	100/15 Summer			
4.003	SMH 63	15 Winter	100	+45%	100/15 Summer			
1.005	SMH 58	15 Winter	100	+45%	100/15 Summer			
6.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
6.01	SIC 5-1	120 Winter	100	+45%	100/15 Summer			
1.006	JUNCTION	60 Winter	100	+45%				
7.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
7.01	SIC 6-1	60 Winter	100	+45%	100/15 Summer			
1.007	JUNCTION	60 Winter	100	+45%				
8.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
8.01	SIC 7-1	180 Winter	100	+45%	100/15 Summer			
1.08	JUNCTION	60 Winter	100	+45%				
1.09	SMH 57	15 Winter	100	+45%	100/15 Summer			
1.10	SMH 56	15 Winter	100	+45%	100/15 Summer			
9.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
9.01	SIC 10-1	120 Winter	100	+45%	100/15 Summer			
1.011	JUNCTION	60 Winter	100	+45%				
10.000	SMH 62	15 Winter	100	+45%				
11.000	SIC 124-2	15 Winter	100	+45%	100/15 Summer			
11.001	SIC 124-1	15 Summer	100	+45%				
1.012	SMH 55	15 Winter	100	+45%	100/15 Summer			
12.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
12.01	SIC 14-1	120 Winter	100	+45%	100/15 Summer			
1.13	SMH 54	15 Winter	100	+45%	100/15 Summer			
1.14	JUNCTION	60 Winter	100	+45%				
13.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
13.01	SIC 121-1	120 Winter	100	+45%	100/15 Summer			
1.15	JUNCTION	60 Winter	100	+45%				
1.16	SMH 53	15 Winter	100	+45%	100/15 Summer			
14.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
14.01	SIC 119-1	180 Winter	100	+45%	100/15 Summer			
1.017	JUNCTION	60 Winter	100	+45%				
15.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
15.01	SIC 117-1	180 Winter	100	+45%	100/15 Summer			
1.018	JUNCTION	240 Winter	100	+45%				
16.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
16.01	SIC 104-1	120 Winter	100	+45%	100/15 Summer			
1.19	JUNCTION	360 Winter	100	+45%				
1.20	SMH 52	15 Winter	100	+45%	100/15 Summer			
17.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
17.01	SIC 105-1	120 Winter	100	+45%	100/15 Summer			
1.021	JUNCTION	360 Winter	100	+45%				
18.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
18.01	SIC 106-1	180 Winter	100	+45%	100/15 Summer			
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD INFILTRATION BASIN B SURCHARGED OUTFALL						
Date 19/02/2026 File SWD NETWORK - INFILTRAT...			Designed by EPH Checked by						
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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
		Water	Surcharged	Flooded			Pipe		
PN	US/MH Name	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status	Level Exceeded
1.004	SMH 59	137.875	1.140	0.000	0.76		62.0	FLOOD RISK	
4.000	DIST TANK	138.427	0.577	0.000	0.27		1.1	FLOOD RISK	
4.01	SIC 1-1	138.398	0.568	0.000	0.06		1.1	FLOOD RISK	
4.02	SMH 64	137.895	0.645	0.000	0.89		14.9	SURCHARGED	
5.000	DIST TANK	138.944	0.354	0.000	0.15		0.6	FLOOD RISK	
5.01	SIC 4-1	138.964	0.394	0.000	0.02		0.6	FLOOD RISK	
4.003	SMH 63	137.827	0.802	0.000	0.51		16.3	SURCHARGED	
1.005	SMH 58	137.763	1.223	0.000	0.61		65.4	SURCHARGED	
6.000	DIST TANK	139.187	0.387	0.000	0.09		0.3	FLOOD RISK	
6.001	SIC 5-1	139.205	0.425	0.000	0.01		0.3	FLOOD RISK	
1.006	JUNCTION	136.494	0.000	0.000	0.42		44.9	SURCHARGED*	
7.000	DIST TANK	139.450	0.445	0.000	0.16		0.6	FLOOD RISK	
7.001	SIC 6-1	139.428	0.443	0.000	0.02		0.6	FLOOD RISK	
1.007	JUNCTION	136.451	0.000	0.000	0.41		44.3	SURCHARGED*	
8.000	DIST TANK	139.449	0.389	0.000	0.09		0.4	FLOOD RISK	
8.001	SIC 7-1	139.474	0.434	0.000	0.01		0.3	FLOOD RISK	
1.08	JUNCTION	136.383	0.000	0.000	0.39		41.9	SURCHARGED*	
1.09	SMH 57	137.400	1.057	0.000	0.59		70.8	SURCHARGED	
1.10	SMH 56	137.298	1.050	0.000	0.66		88.3	SURCHARGED	
9.000	DIST TANK	139.148	0.418	0.000	0.16		0.6	FLOOD RISK	
9.01	SIC 10-1	139.173	0.463	0.000	0.02		0.6	FLOOD RISK	
1.011	JUNCTION	136.132	0.000	0.000	0.41		59.5	SURCHARGED*	
10.000	SMH 62	137.618	-0.057	0.000	0.71		33.6	OK	
11.000	SIC 124-2	137.863	0.038	0.000	1.12		8.2	SURCHARGED	
11.001	SIC 124-1	137.619	-0.046	0.000	0.57		13.7	OK	
1.012	SMH 55	137.048	1.056	0.000	1.63		163.0	SURCHARGED	
12.000	DIST TANK	138.319	0.414	0.000	0.25		1.0	FLOOD RISK	
12.001	SIC 14-1	138.342	0.457	0.000	0.04		0.9	SURCHARGED	
1.13	SMH 54	136.895	0.960	0.000	1.84		157.7	SURCHARGED	
1.14	JUNCTION	135.926	0.000	0.000	0.87		93.0	SURCHARGED*	
13.000	DIST TANK	137.848	0.418	0.000	0.15		0.6	FLOOD RISK	
13.001	SIC 121-1	137.865	0.455	0.000	0.02		0.6	SURCHARGED	
1.15	JUNCTION	135.874	0.000	0.000	0.95		102.1	SURCHARGED*	
1.16	SMH 53	136.415	0.603	0.000	0.93		169.5	SURCHARGED	
14.000	DIST TANK	137.064	0.389	0.000	0.09		0.4	FLOOD RISK	
14.001	SIC 119-1	137.089	0.434	0.000	0.01		0.3	FLOOD RISK	
1.017	JUNCTION	135.595	0.000	0.000	0.44		104.8	SURCHARGED*	
15.000	DIST TANK	136.486	0.346	0.000	0.14		0.6	FLOOD RISK	
15.001	SIC 117-1	136.512	0.392	0.000	0.03		0.6	FLOOD RISK	
1.018	JUNCTION	135.231	0.000	0.000	0.29		57.0	SURCHARGED*	
16.000	DIST TANK	136.347	0.387	0.000	0.09		0.3	FLOOD RISK	
16.001	SIC 104-1	136.365	0.425	0.000	0.02		0.3	FLOOD RISK	
1.19	JUNCTION	134.977	0.000	0.000	0.34		43.0	SURCHARGED*	
1.20	SMH 52	135.555	0.683	0.000	1.45		199.9	SURCHARGED	
17.000	DIST TANK	135.945	0.240	0.000	0.10		0.4	SURCHARGED	
17.001	SIC 105-1	135.944	0.259	0.000	0.01		0.3	SURCHARGED	
1.021	JUNCTION	134.748	0.000	0.000	0.33		45.1	SURCHARGED*	
18.000	DIST TANK	135.845	0.310	0.000	0.09		0.4	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	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
18.001	SIC 106-1	135.844	0.329	0.000	0.02		0.3	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.
1.22	JUNCTION	360 Winter	100	+45%				
1.23	SMH 51	60 Summer	100	+45%	100/15 Summer			
19.000	FC 1	360 Winter	100	+45%				
1.24	SMH 50B	60 Summer	100	+45%	100/15 Summer			
1.25	STORAGE	60 Summer	100	+45%	100/15 Summer			
1.26	SMH 50A	60 Summer	100	+45%	100/15 Summer			
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD POND C SURCHARGED OUTFALL	
Date 20/02/2026 File SWD NETWORK - POND C SU...	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

Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall C. Level Name (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.027	133.500	132.425	0.000	0	0

Datum (m) 132.425 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
30	0.782	330	0.782	630	0.782	930	0.782	1230	0.782	1530	0.782
60	0.782	360	0.782	660	0.782	960	0.782	1260	0.782	1560	0.782
90	0.782	390	0.782	690	0.782	990	0.782	1290	0.782	1590	0.782
120	0.782	420	0.782	720	0.782	1020	0.782	1320	0.782	1620	0.782
150	0.782	450	0.782	750	0.782	1050	0.782	1350	0.782	1650	0.782
180	0.782	480	0.782	780	0.782	1080	0.782	1380	0.782	1680	0.782
210	0.782	510	0.782	810	0.782	1110	0.782	1410	0.782	1710	0.782
240	0.782	540	0.782	840	0.782	1140	0.782	1440	0.782	1740	0.782
270	0.782	570	0.782	870	0.782	1170	0.782	1470	0.782	1770	0.782
300	0.782	600	0.782	900	0.782	1200	0.782	1500	0.782	1800	0.782

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Date 20/02/2026 File SWD NETWORK - POND C SU...	Designed by EPH Checked by	
Innovyze	Network 2019.1	

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 36
 Number of Online Controls 36 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) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.00	DIST TANK	120 Winter	100	+45%	100/15	Summer		
1.01	SIC 16-1	120 Winter	100	+45%	100/15	Summer		
1.02	SMH 108	15 Winter	100	+45%				
2.00	DIST TANK	360 Winter	100	+45%	100/15	Summer		
2.01	SIC 17-1	360 Winter	100	+45%	100/15	Summer		
1.003	JUNCTION	15 Winter	100	+45%				
3.00	DIST TANK	120 Winter	100	+45%	100/15	Summer		
3.01	SIC 96-1	180 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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Innovyze			Network 2019.1						
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
		Water	Surcharged	Flooded			Pipe		
	US/MH	Level	Depth	Volume	Flow /	Overflow	Flow		Level
PN	Name	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.000	DIST TANK	137.569	0.409	0.000	0.15		0.6	FLOOD RISK	
1.01	SIC 16-1	137.586	0.446	0.000	0.03		0.6	FLOOD RISK	
1.02	SMH 108	136.022	-0.133	0.000	0.35		27.6	OK	
2.000	DIST TANK	137.074	0.284	0.000	0.08		0.3	FLOOD RISK	
2.01	SIC 17-1	137.099	0.329	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	136.797	0.107	0.000	0.06		0.2	SURCHARGED	
3.001	SIC 96-1	136.810	0.140	0.000	0.01		0.2	SURCHARGED	
1.004	JUNCTION	135.359	-0.133	0.000	0.35		27.9	OK*	
4.000	DIST TANK	136.807	0.327	0.000	0.08		0.3	FLOOD RISK	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD POND C SURCHARGED OUTFALL				
Date 20/02/2026				Designed by EPH				
File SWD NETWORK - POND C SU...				Checked by				
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.
4.001	SIC 92-1	180 Winter	100	+45%	100/15 Summer			
1.005	JUNCTION	60 Summer	100	+45%				
5.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
5.01	SIC 90-1	60 Winter	100	+45%	100/15 Summer			
1.006	JUNCTION	120 Summer	100	+45%				
6.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
6.01	SIC 88-1	180 Winter	100	+45%	100/15 Summer			
1.007	JUNCTION	180 Winter	100	+45%				
7.00	DIST TANK	60 Winter	100	+45%	100/30 Winter			
7.01	SIC 85-2	60 Winter	100	+45%	100/15 Summer			
7.02	SIC 85-1	60 Summer	100	+45%	100/15 Summer			
7.03	SMH 115	60 Summer	100	+45%	100/15 Summer			
8.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
8.01	SIC 83-1	180 Winter	100	+45%	100/15 Summer			
7.004	JUNCTION	180 Winter	100	+45%				
9.00	DIST TANK	15 Winter	100	+45%	100/15 Summer			
9.01	SIC 79-1	15 Winter	100	+45%	100/15 Summer			
7.005	JUNCTION	180 Winter	100	+45%				
10.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
10.01	SIC 78-1	180 Winter	100	+45%	100/15 Summer			
7.006	SMH 114	60 Summer	100	+45%	100/15 Summer			
11.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
11.01	SIC 86-1	60 Winter	100	+45%	100/15 Summer			
1.008	SMH 107	60 Summer	100	+45%	100/15 Summer			
12.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
12.01	SIC 75-1	180 Winter	100	+45%	100/15 Summer			
1.009	JUNCTION	240 Winter	100	+45%				
13.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
13.01	SIC 74-1	60 Winter	100	+45%	100/15 Summer			
1.10	JUNCTION	240 Winter	100	+45%				
1.11	SMH 106	60 Summer	100	+45%	100/15 Summer			
14.00	DIST TANK	240 Winter	100	+45%	100/15 Summer			
14.01	SIC 18-1	360 Winter	100	+45%	100/15 Summer			
1.012	SMH 105	60 Summer	100	+45%	100/15 Summer			
15.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
15.01	SIC 20-1	30 Winter	100	+45%	100/15 Summer			
1.013	JUNCTION	360 Winter	100	+45%				
16.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
16.01	SIC 73-1	180 Winter	100	+45%	100/15 Summer			
1.014	JUNCTION	360 Winter	100	+45%				
17.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
17.01	SIC 71-1	60 Winter	100	+45%	100/15 Summer			
1.015	JUNCTION	480 Winter	100	+45%				
18.00	DIST TANK	240 Winter	100	+45%	100/15 Summer			
18.01	SIC 70-1	240 Winter	100	+45%	100/15 Summer			
1.016	JUNCTION	480 Winter	100	+45%				
19.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
19.01	SIC 28-1	180 Winter	100	+45%	100/15 Summer			
1.017	JUNCTION	480 Winter	100	+45%				
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD POND C SURCHARGED OUTFALL						
Date 20/02/2026			Designed by EPH						
File SWD NETWORK - POND C SU...			Checked by						
Innovyze			Network 2019.1						
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
		Water	Surcharged	Flooded			Pipe		
	US/MH	Level	Depth	Volume	Flow /	Overflow	Pipe		Level
PN	Name	(m)	(m)	(m³)	Cap.	(l/s)	Flow (l/s)	Status	Exceeded
4.001	SIC 92-1	136.828	0.368	0.000	0.01		0.3	FLOOD RISK	
1.005	JUNCTION	135.150	-0.023	0.000	0.27		23.9	OK*	
5.000	DIST TANK	136.557	0.327	0.000	0.22		0.9	FLOOD RISK	
5.001	SIC 90-1	136.575	0.365	0.000	0.03		0.9	FLOOD RISK	
1.006	JUNCTION	134.787	0.000	0.000	0.27		22.1	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	0.18		15.9	SURCHARGED*	
7.000	DIST TANK	134.786	0.041	0.000	0.05		0.2	SURCHARGED	
7.01	SIC 85-2	134.802	0.077	0.000	0.01		0.2	SURCHARGED	
7.02	SIC 85-1	135.076	0.631	0.000	0.13		1.5	SURCHARGED	
7.03	SMH 115	135.077	0.787	0.000	0.29		8.7	SURCHARGED	
8.000	DIST TANK	135.147	0.372	0.000	0.08		0.3	FLOOD RISK	
8.01	SIC 83-1	135.166	0.411	0.000	0.02		0.3	SURCHARGED	
7.004	JUNCTION	134.247	0.000	0.000	0.12		3.5	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	0.12		5.5	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	135.059	0.954	0.000	0.34		14.5	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	135.043	1.038	0.000	0.47		44.7	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	0.18		19.6	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	
1.10	JUNCTION	133.930	0.000	0.000	0.21		22.9	SURCHARGED*	
1.11	SMH 106	134.803	0.914	0.000	0.49		51.7	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	134.693	0.856	0.000	0.53		53.5	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	0.17		19.6	SURCHARGED*	
16.000	DIST TANK	134.873	0.173	0.000	0.07		0.3	SURCHARGED	
16.001	SIC 73-1	134.894	0.214	0.000	0.01		0.3	SURCHARGED	
1.014	JUNCTION	133.714	0.000	0.000	0.20		21.0	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	0.19		20.5	SURCHARGED*	
18.000	DIST TANK	134.806	0.356	0.000	0.15		0.6	FLOOD RISK	
18.001	SIC 70-1	134.831	0.401	0.000	0.03		0.6	FLOOD RISK	
1.016	JUNCTION	133.606	0.000	0.000	0.20		21.5	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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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD POND C SURCHARGED OUTFALL						
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File SWD NETWORK - POND C SU...				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	
1.017	JUNCTION	133.553	0.000	0.000	0.20		21.7	SURCHARGED*		
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD POND C SURCHARGED OUTFALL				
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<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	60 Summer	100	+45%	100/15 Summer			
20.00	DIST TANK	240 Winter	100	+45%	100/15 Summer			
20.01	SIC 68-1	240 Winter	100	+45%	100/15 Summer			
1.019	JUNCTION	480 Winter	100	+45%				
21.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
21.01	SIC 48-1	60 Winter	100	+45%	100/15 Summer			
1.020	JUNCTION	480 Winter	100	+45%				
22.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
22.01	SIC 66-1	60 Winter	100	+45%	100/15 Summer			
1.021	JUNCTION	480 Winter	100	+45%				
23.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
23.01	SIC 50-1	60 Winter	100	+45%	100/15 Summer			
1.022	JUNCTION	480 Winter	100	+45%				
24.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
24.01	SIC 64-1	120 Winter	100	+45%	100/15 Summer			
1.023	JUNCTION	480 Winter	100	+45%				
25.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
25.01	SIC 62-1	60 Winter	100	+45%	100/15 Summer			
1.024	JUNCTION	360 Winter	100	+45%				
26.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
26.01	SIC 61-1	30 Winter	100	+45%	100/15 Summer			
1.025	SMH 103	60 Summer	100	+45%	100/15 Summer			
27.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
27.01	SIC 55-1	120 Winter	100	+45%	100/15 Summer			
27.02	SMH 113	60 Summer	100	+45%	100/60 Summer			
28.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
28.01	SIC 53-1	240 Winter	100	+45%	100/15 Summer			
27.003	JUNCTION	180 Winter	100	+45%	100/30 Summer			
29.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
29.01	SIC 52-1	240 Winter	100	+45%	100/15 Summer			
27.004	JUNCTION	480 Winter	100	+45%	100/15 Summer			
30.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
30.01	SIC 51-1	180 Winter	100	+45%	100/15 Summer			
27.005	JUNCTION	360 Winter	100	+45%	100/15 Summer			
1.026	SMH 102	60 Summer	100	+45%	100/15 Summer			
31.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
31.01	SIC 107-1	180 Winter	100	+45%	100/15 Summer			
31.02	SMH 112	120 Winter	100	+45%				
32.00	DIST TANK	240 Winter	100	+45%	100/15 Summer			
32.01	SIC 109-1	360 Winter	100	+45%	100/15 Summer			
31.003	SMH 111	60 Summer	100	+45%				
33.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
33.01	SIC 56-1	120 Winter	100	+45%	100/15 Summer			
31.004	JUNCTION	60 Summer	100	+45%				
34.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
34.01	SIC 57-1	60 Winter	100	+45%	100/15 Summer			
31.005	JUNCTION	240 Summer	100	+45%				
35.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
35.01	SIC 58-1	240 Winter	100	+45%	100/15 Summer			
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR			VICTORIA ROAD POND C SURCHARGED OUTFALL						
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File SWD NETWORK - POND C SU...			Checked by						
Innovyze			Network 2019.1						
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
		Water	Surcharged	Flooded			Pipe		
	US/MH	Level	Depth	Volume	Flow /	Overflow	Pipe		Level
PN	Name	(m)	(m)	(m³)	Cap.	(l/s)	Flow (l/s)	Status	Exceeded
1.018	SMH 104	134.148	0.631	0.000	0.59		71.4	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	0.23		24.5	SURCHARGED*	
21.000	DIST TANK	134.290	0.480	0.000	0.36		1.4	FLOOD RISK	
21.001	SIC 48-1	134.308	0.518	0.000	0.10		1.4	FLOOD RISK	
1.020	JUNCTION	133.355	0.000	0.000	0.24		25.5	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	0.25		26.3	SURCHARGED*	
23.000	DIST TANK	133.950	0.300	0.000	0.21		0.8	FLOOD RISK	
23.001	SIC 50-1	133.962	0.332	0.000	0.06		0.8	FLOOD RISK	
1.022	JUNCTION	133.298	0.000	0.000	0.26		28.2	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	0.27		28.6	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	0.33		35.5	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	133.410	0.226	0.000	0.51		87.7	SURCHARGED	
27.000	DIST TANK	133.769	0.404	0.000	0.25		1.0	FLOOD RISK	
27.01	SIC 55-1	133.796	0.451	0.000	0.13		0.9	FLOOD RISK	
27.02	SMH 113	133.408	0.150	0.000	0.06		10.3	SURCHARGED	
28.000	DIST TANK	133.793	0.313	0.000	0.14		0.5	FLOOD RISK	
28.01	SIC 53-1	133.789	0.329	0.000	0.05		0.5	FLOOD RISK	
27.003	JUNCTION	133.243	0.011	0.000	0.02		4.8	SURCHARGED*	
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	133.220	0.011	0.000	0.01		3.1	SURCHARGED*	
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	0.02		4.5	SURCHARGED*	
1.026	SMH 102	133.404	0.241	0.000	0.28		97.8	SURCHARGED	
31.000	DIST TANK	135.165	0.270	0.000	0.07		0.3	FLOOD RISK	
31.01	SIC 107-1	135.178	0.303	0.000	0.01		0.3	FLOOD RISK	
31.02	SMH 112	133.756	-0.144	0.000	0.01		0.3	OK	
32.000	DIST TANK	134.837	0.472	0.000	0.09		0.4	FLOOD RISK	
32.01	SIC 109-1	134.858	0.513	0.000	0.01		0.4	FLOOD RISK	
31.003	SMH 111	133.279	-0.031	0.000	0.00		0.8	OK	
33.000	DIST TANK	134.348	0.353	0.000	0.24		0.9	FLOOD RISK	
33.001	SIC 56-1	134.375	0.400	0.000	0.04		0.9	FLOOD RISK	
31.004	JUNCTION	133.271	0.000	0.000	0.04		12.9	SURCHARGED*	
34.000	DIST TANK	133.959	0.349	0.000	0.16		0.6	FLOOD RISK	
34.001	SIC 57-1	133.973	0.383	0.000	0.04		0.6	FLOOD RISK	
31.005	JUNCTION	133.221	0.000	0.000	0.02		6.1	SURCHARGED*	
35.000	DIST TANK	133.812	0.292	0.000	0.08		0.3	FLOOD RISK	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD POND C SURCHARGED OUTFALL					
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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
35.001	SIC 58-1	133.808	0.308	0.000	0.02		0.3	FLOOD RISK	
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD POND C SURCHARGED OUTFALL				
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Innovyze				Network 2019.1				
Summary of Critical Results by Maximum Level (Rank 1) for Storm								
	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	PN Act.
31.006	JUNCTION	360 Winter	100	+45%				
36.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
36.01	SIC 59-1	60 Winter	100	+45%	100/15 Summer			
31.07	SMH 110	60 Summer	100	+45%	100/15 Summer			
37.000	FC 2	360 Winter	100	+45%				
31.08	SMH 109A	60 Summer	100	+45%	100/15 Summer			
31.09	SMH 109	60 Summer	100	+45%	100/15 Summer			
1.027	SMH 100	60 Summer	100	+45%	100/15 Summer			
38.000	FC 3	360 Winter	100	+45%				
38.001	SMH 149	60 Summer	100	+45%	100/15 Summer			
	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Level PN Exceeded
31.006	JUNCTION	133.200	0.000	0.000	0.02		4.4	SURCHARGED*
36.000	DIST TANK	133.795	0.275	0.000	0.20		0.8	FLOOD RISK
36.001	SIC 59-1	133.818	0.318	0.000	0.06		0.8	FLOOD RISK
31.07	SMH 110	133.275	0.097	0.000	0.11		19.0	SURCHARGED
37.000	FC 2	133.524	-0.106	0.000	0.19		7.3	OK
31.08	SMH 109A	133.274	0.120	0.000	0.09		27.1	SURCHARGED
31.09	SMH 109	133.271	0.161	0.000	0.13		35.7	SURCHARGED
1.027	SMH 100	133.268	0.196	0.000	0.43		130.2	SURCHARGED
38.000	FC 3	133.490	-0.135	0.000	0.02		1.1	OK
38.001	SMH 149	133.240	0.470	0.000	0.41		6.8	SURCHARGED
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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD INFILTRATION BASIN D SURCHARGED OUTFALL	
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

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
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

Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.009		134.500	133.500	0.000	0	0

Datum (m) 133.500 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
30	0.696	330	0.696	630	0.696	930	0.696	1230	0.696	1530	0.696
60	0.696	360	0.696	660	0.696	960	0.696	1260	0.696	1560	0.696
90	0.696	390	0.696	690	0.696	990	0.696	1290	0.696	1590	0.696
120	0.696	420	0.696	720	0.696	1020	0.696	1320	0.696	1620	0.696
150	0.696	450	0.696	750	0.696	1050	0.696	1350	0.696	1650	0.696
180	0.696	480	0.696	780	0.696	1080	0.696	1380	0.696	1680	0.696
210	0.696	510	0.696	810	0.696	1110	0.696	1410	0.696	1710	0.696
240	0.696	540	0.696	840	0.696	1140	0.696	1440	0.696	1740	0.696
270	0.696	570	0.696	870	0.696	1170	0.696	1470	0.696	1770	0.696
300	0.696	600	0.696	900	0.696	1200	0.696	1500	0.696	1800	0.696

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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR				VICTORIA ROAD INFILTRATION BASIN D SURCHARGED OUTFALL																																																																																											
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Innovyze				Network 2019.1																																																																																											
<u>Surcharged Outfall Details for Storm</u> <table><tr><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th><th>Time (mins)</th><th>Depth (m)</th></tr><tr><td>1830</td><td>0.696</td><td>2010</td><td>0.696</td><td>2190</td><td>0.696</td><td>2370</td><td>0.696</td><td>2550</td><td>0.696</td><td>2730</td><td>0.696</td></tr><tr><td>1860</td><td>0.696</td><td>2040</td><td>0.696</td><td>2220</td><td>0.696</td><td>2400</td><td>0.696</td><td>2580</td><td>0.696</td><td>2760</td><td>0.696</td></tr><tr><td>1890</td><td>0.696</td><td>2070</td><td>0.696</td><td>2250</td><td>0.696</td><td>2430</td><td>0.696</td><td>2610</td><td>0.696</td><td>2790</td><td>0.696</td></tr><tr><td>1920</td><td>0.696</td><td>2100</td><td>0.696</td><td>2280</td><td>0.696</td><td>2460</td><td>0.696</td><td>2640</td><td>0.696</td><td>2820</td><td>0.696</td></tr><tr><td>1950</td><td>0.696</td><td>2130</td><td>0.696</td><td>2310</td><td>0.696</td><td>2490</td><td>0.696</td><td>2670</td><td>0.696</td><td>2850</td><td>0.696</td></tr><tr><td>1980</td><td>0.696</td><td>2160</td><td>0.696</td><td>2340</td><td>0.696</td><td>2520</td><td>0.696</td><td>2700</td><td>0.696</td><td>2880</td><td>0.696</td></tr></table>												Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	1830	0.696	2010	0.696	2190	0.696	2370	0.696	2550	0.696	2730	0.696	1860	0.696	2040	0.696	2220	0.696	2400	0.696	2580	0.696	2760	0.696	1890	0.696	2070	0.696	2250	0.696	2430	0.696	2610	0.696	2790	0.696	1920	0.696	2100	0.696	2280	0.696	2460	0.696	2640	0.696	2820	0.696	1950	0.696	2130	0.696	2310	0.696	2490	0.696	2670	0.696	2850	0.696	1980	0.696	2160	0.696	2340	0.696	2520	0.696	2700	0.696	2880	0.696
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)																																																																																				
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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 10
 Number of Online Controls 9 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 ON
 DVD Status OFF
 Inertia Status OFF

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.
1.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
1.01	SIC 30-1	60 Winter	100	+45%	100/15 Summer			
1.02	SMH 153	1440 Winter	100	+45%	100/15 Summer			
2.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
2.01	SIC 44-1	180 Winter	100	+45%	100/15 Summer			
1.003	JUNCTION	15 Winter	100	+45%				
3.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
3.01	SIC 32-1	120 Winter	100	+45%	100/15 Summer			
1.004	JUNCTION	240 Winter	100	+45%				
4.000	DIST TANK	180 Winter	100	+45%	100/15 Summer			

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<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
1.000	DIST TANK	134.691	0.331	0.000	0.26		1.0	FLOOD RISK	
1.01	SIC 30-1	134.725	0.385	0.000	0.09		0.9	FLOOD RISK	
1.02	SMH 153	134.212	0.052	0.000	0.02		0.5	SURCHARGED	
2.000	DIST TANK	134.664	0.354	0.000	0.12		0.5	FLOOD RISK	
2.01	SIC 44-1	134.698	0.408	0.000	0.04		0.3	FLOOD RISK	
1.003	JUNCTION	134.122	0.000	0.000	0.14		5.2	SURCHARGED*	
3.000	DIST TANK	134.676	0.341	0.000	0.12		0.7	FLOOD RISK	
3.001	SIC 32-1	134.705	0.420	0.000	0.08		0.6	FLOOD RISK	
1.004	JUNCTION	134.053	0.000	0.000	0.05		1.6	SURCHARGED*	
4.000	DIST TANK	134.394	0.214	0.000	0.12		0.5	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm								
US/MH			Return Climate		First (X)	First (Y)	First (Z)	Overflow PN
Name		Storm	Period	Change	Surcharge	Flood	Overflow	Act.
4.001	SIC 42-1	180 Winter	100	+45%	100/15 Summer			
1.005	JUNCTION	15 Winter	100	+45%				
5.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
5.01	SIC 34-1	180 Winter	100	+45%	100/15 Summer			
1.006	JUNCTION	15 Winter	100	+45%				
6.00	DIST TANK	2880 Winter	100	+45%	100/15 Summer			
6.01	SIC 35-1	2880 Winter	100	+45%	100/15 Summer			
1.007	SMH 152	2160 Winter	100	+45%	100/15 Summer			
7.00	DIST TANK	120 Winter	100	+45%	100/15 Summer			
7.01	SIC 36-1	120 Winter	100	+45%	100/15 Summer			
7.02	SMH 154	2160 Winter	100	+45%	100/180 Summer			
8.00	DIST TANK	60 Winter	100	+45%	100/15 Summer			
8.01	SIC 39-1	60 Winter	100	+45%	100/15 Summer			
7.003	JUNCTION	1440 Winter	100	+45%				
9.00	DIST TANK	180 Winter	100	+45%	100/15 Summer			
9.01	SIC 41-1	180 Winter	100	+45%	100/15 Summer			
7.004	JUNCTION	2160 Winter	100	+45%	100/15 Summer			
1.08	SMH 151	2160 Winter	100	+45%	100/15 Summer			
1.09	SMH 150	2160 Winter	100	+45%	100/30 Summer			
US/MH		Water	Surcharged	Flooded	Pipe		Level PN	
Name		Level	Depth	Volume	Flow /	Overflow	Flow	Exceeded
		(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	
4.01	SIC 42-1	134.445	0.285	0.000	0.03		0.3	SURCHARGED
1.005	JUNCTION	134.027	0.000	0.000	0.64		23.6	SURCHARGED*
5.000	DIST TANK	134.452	0.352	0.000	0.12		0.5	FLOOD RISK
5.001	SIC 34-1	134.485	0.405	0.000	0.04		0.3	FLOOD RISK
1.006	JUNCTION	133.959	0.000	0.000	0.61		25.0	SURCHARGED*
6.000	DIST TANK	134.304	0.349	0.000	0.14		0.5	FLOOD RISK
6.001	SIC 35-1	134.341	0.406	0.000	0.05		0.3	FLOOD RISK
1.007	SMH 152	134.206	0.331	0.000	0.11		3.6	FLOOD RISK
7.000	DIST TANK	134.464	0.244	0.000	0.11		0.4	FLOOD RISK
7.01	SIC 36-1	134.499	0.299	0.000	0.03		0.3	SURCHARGED
7.02	SMH 154	134.205	0.185	0.000	0.01		0.4	SURCHARGED
8.000	DIST TANK	134.700	0.600	0.000	0.44		1.7	FLOOD RISK
8.01	SIC 39-1	134.718	0.638	0.000	0.15		1.6	FLOOD RISK
7.003	JUNCTION	133.956	0.000	0.000	0.03		1.2	SURCHARGED*
9.000	DIST TANK	134.497	0.327	0.000	0.12		0.5	FLOOD RISK
9.001	SIC 41-1	134.531	0.381	0.000	0.02		0.3	FLOOD RISK
7.004	JUNCTION	134.204	0.327	0.000	0.07		2.4	SURCHARGED
1.08	SMH 151	134.203	0.388	0.000	0.21		6.3	SURCHARGED
1.09	SMH 150	134.200	0.425	0.000	3.00		94.5	SURCHARGED
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