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

1.025	136.578	135.278	0.000	0	0
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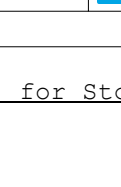
Datum (m) 135.278 Offset (mins) 0

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	

Surcharged Outfall Details for Storm

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	1.001	2010	1.001	2190	1.001	2370	1.001	2550	1.001	2730	1.001
1860	1.001	2040	1.001	2220	1.001	2400	1.001	2580	1.001	2760	1.001
1890	1.001	2070	1.001	2250	1.001	2430	1.001	2610	1.001	2790	1.001
1920	1.001	2100	1.001	2280	1.001	2460	1.001	2640	1.001	2820	1.001
1950	1.001	2130	1.001	2310	1.001	2490	1.001	2670	1.001	2850	1.001
1980	1.001	2160	1.001	2340	1.001	2520	1.001	2700	1.001	2880	1.001

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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	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.
1.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
1.001	SIC 206-1	120 Winter	100	+45%	100/15 Summer			
1.002	SMH 14	60 Winter	100	+45%				
2.000	DIST TANK 1	120 Winter	100	+45%	100/15 Summer			
2.001	SIC 207-1	120 Winter	100	+45%	100/15 Summer			
1.003	JUNCTION	60 Winter	100	+45%				
1.004	SMH 13	15 Winter	100	+45%	100/15 Summer			
1.005	JUNCTION	60 Winter	100	+45%				
3.000	DIST TANK 1	60 Winter	100	+45%	100/15 Summer			
3.001	SIC 209-1	60 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	138.725	0.355	0.000	0.20		0.8	FLOOD RISK	
1.001	SIC 206-1	138.724	0.374	0.000	0.06		0.9	FLOOD RISK	
1.002	SMH 14	137.305	0.000	0.000	0.26		14.9	SURCHARGED*	
2.000	DIST TANK 1	138.695	0.335	0.000	0.23		0.9	FLOOD RISK	
2.001	SIC 207-1	138.722	0.382	0.000	0.04		0.9	FLOOD RISK	
1.003	JUNCTION	137.085	0.000	0.000	0.46		13.8	SURCHARGED*	
1.004	SMH 13	138.702	1.654	0.000	0.40		24.5	FLOOD RISK	
1.005	JUNCTION	137.015	0.000	0.000	0.22		17.9	SURCHARGED*	
3.000	DIST TANK 1	138.906	0.341	0.000	0.22		0.9	FLOOD RISK	
3.001	SIC 209-1	138.924	0.379	0.000	0.03		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.
1.006	JUNCTION	60 Winter	100	+45%				
4.000	DIST TANK 1	60 Winter	100	+45%	100/15	Summer		
4.001	SIC 210-1	30 Winter	100	+45%	100/15	Summer		
1.007	JUNCTION	120 Winter	100	+45%				
1.008	SMH 12	15 Winter	100	+45%	100/15	Summer		
5.000	DIST TANK	120 Winter	100	+45%	100/15	Summer		
5.001	SIC 188-1	120 Winter	100	+45%	100/15	Summer		
5.002	SMH 22	15 Winter	100	+45%				
6.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
6.001	SIC 187-1	60 Winter	100	+45%	100/15	Summer		
5.003	JUNCTION	15 Winter	100	+45%				
7.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
7.001	SIC 186-1	60 Winter	100	+45%	100/15	Summer		
5.004	JUNCTION	15 Winter	100	+45%				
8.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
8.001	SIC 185-1	60 Winter	100	+45%	100/15	Summer		
5.005	SMH 21	15 Winter	100	+45%	100/15	Summer		
9.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
9.001	SIC 205-1	60 Winter	100	+45%	100/15	Summer		
5.006	SMH 20	15 Winter	100	+45%	100/15	Summer		
10.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
10.001	SIC 204-1	60 Winter	100	+45%	100/15	Summer		
5.007	JUNCTION	30 Winter	100	+45%				
5.008	SMH 19	15 Winter	100	+45%	100/15	Summer		
1.009	SMH 11	15 Winter	100	+45%	100/15	Summer		
11.000	DIST TANK	15 Winter	100	+45%	100/15	Summer		
11.001	SIC 222-1	15 Winter	100	+45%	100/15	Summer		
11.002	SMH 18	15 Winter	100	+45%	100/15	Summer		
12.000	DIS TANK	15 Winter	100	+45%	100/15	Summer		
12.001	SIC 220-1	30 Winter	100	+45%	100/15	Summer		
11.003	JUNCTION	15 Winter	100	+45%				
13.000	DIST TANK	15 Winter	100	+45%	100/15	Summer		
13.001	SIC 219-1	15 Winter	100	+45%	100/15	Summer		
11.004	JUNCTION	30 Winter	100	+45%				
11.005	SMH 17	15 Winter	100	+45%	100/15	Summer		
14.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
14.001	SIC 136-1	60 Winter	100	+45%	100/15	Summer		
11.006	JUNCTION	60 Winter	100	+45%				
15.000	DIST TANK	120 Winter	100	+45%	100/15	Summer		
15.001	SIC 138-1	60 Winter	100	+45%	100/15	Summer		
11.007	JUNCTION	60 Winter	100	+45%				
16.000	DIST TANK	120 Winter	100	+45%	100/15	Summer		
16.001	SIC 140-1	60 Winter	100	+45%	100/15	Summer		
11.008	JUNCTION	120 Winter	100	+45%				
17.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
17.001	SIC 141-1	30 Winter	100	+45%	100/15	Summer		
1.010	SMH 10	15 Winter	100	+45%	100/15	Summer		
1.011	SMH 9	15 Winter	100	+45%	100/15	Summer		
18.000	DIST TANK	15 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
1.006	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	
1.007	JUNCTION	136.803	0.000	0.000	0.21		18.4	SURCHARGED*	
1.008	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	
5.001	SIC 188-1	141.753	0.513	0.000	0.06		1.0	SURCHARGED	
5.002	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	
6.001	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	
5.007	JUNCTION	138.290	0.000	0.000	0.71		21.2	SURCHARGED*	
5.008	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	
11.001	SIC 222-1	138.724	0.229	0.000	0.16		2.7	SURCHARGED	
11.002	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	
12.001	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	
11.004	JUNCTION	137.658	0.000	0.000	1.01		20.1	SURCHARGED*	
11.005	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	
14.001	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	
1.010	SMH 10	138.429	2.052	0.000	0.95		160.9	SURCHARGED	
1.011	SMH 9	138.412	2.059	0.000	0.77		199.2	SURCHARGED	
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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
18.000	DIST TANK	140.297	0.277	0.000	0.20		0.8	FLOOD RISK	

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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...

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Micro Drainage

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.
18.001	SIC 173-1	15 Winter	100	+45%	100/15 Summer			
18.002	SMH 32	15 Winter	100	+45%	100/15 Summer			
19.000	DIST TANK	15 Winter	100	+45%	100/15 Summer			
19.001	SIC 172-1	60 Winter	100	+45%	100/15 Summer			
18.003	JUNCTION	30 Winter	100	+45%				
20.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
20.001	SIC 171-1	60 Winter	100	+45%	100/15 Summer			
18.004	SMH 31	15 Winter	100	+45%	100/15 Summer			
21.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
21.001	SIC 170-1	60 Winter	100	+45%	100/15 Summer			
18.005	JUNCTION	30 Winter	100	+45%				
22.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
22.001	SIC 167-1	60 Summer	100	+45%	100/15 Summer			
18.006	JUNCTION	60 Winter	100	+45%				
18.007	SMH 30	15 Winter	100	+45%	100/15 Summer			
23.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
23.001	SIC 174-1	30 Winter	100	+45%	100/15 Summer			
23.002	SMH 34	15 Winter	100	+45%	100/15 Winter			
24.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
24.001	SIC 175-1	30 Winter	100	+45%	100/15 Summer			
23.003	JUNCTION	15 Winter	100	+45%				
23.004	SMH 33	15 Winter	100	+45%				
18.008	SMH 29	15 Winter	100	+45%	100/15 Summer			
25.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
25.001	SIC 176-1	60 Winter	100	+45%	100/15 Summer			
18.009	JUNCTION	60 Winter	100	+45%				
26.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
26.001	SIC 169-1	30 Winter	100	+45%	100/15 Summer			
18.010	SMH 28	15 Winter	100	+45%	100/15 Summer			
27.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
27.001	SIC 178-1	120 Winter	100	+45%	100/15 Summer			
18.011	JUNCTION	60 Winter	100	+45%				
28.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
28.001	SIC 166-1	60 Winter	100	+45%	100/15 Summer			
29.000	DIST TANK	120 Winter	100	+45%	100/15 Summer			
29.001	SIC 184-1	60 Winter	100	+45%	100/15 Summer			
29.002	SMH 27	15 Winter	100	+45%				
30.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
30.001	SIC 182-1	60 Winter	100	+45%	100/15 Summer			
29.003	SMH 26	15 Winter	100	+45%				
29.004	SMH 25	15 Winter	100	+45%				
31.000	DIST TANK	60 Winter	100	+45%	100/15 Summer			
31.001	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%				
33.000	DIST TANK	30 Winter	100	+45%	100/15 Summer			
33.001	SIC 190-1	30 Winter	100	+45%	100/15 Summer			
29.007	JUNCTION	30 Winter	100	+45%				

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Unit 1, Ensign House
Parkway Court, Longbridge Road
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VICTORIA ROAD
INFILTRATION BASIN A
SURCHARGED OUTFALL

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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
18.001	SIC 173-1	140.304	0.304	0.000	0.05		0.8	FLOOD RISK	
18.002	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	
19.001	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	
18.006	JUNCTION	139.092	0.000	0.000	1.12		20.2	SURCHARGED*	
18.007	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	
23.001	SIC 174-1	141.692	0.357	0.000	0.13		0.9	SURCHARGED	
23.002	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	
24.001	SIC 175-1	141.847	0.347	0.000	0.06		0.9	SURCHARGED	
23.003	JUNCTION	141.195	0.000	0.000	1.12		20.0	SURCHARGED*	
23.004	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	
28.001	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	
29.001	SIC 184-1	142.296	0.401	0.000	0.12		0.9	SURCHARGED	
29.002	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	
30.001	SIC 182-1	142.400	0.300	0.000	0.05		0.8	SURCHARGED	
29.003	SMH 26	141.514	-0.076	0.000	0.48		8.4	OK	
29.004	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	
31.001	SIC 181-1	142.113	0.378	0.000	0.07		0.9	SURCHARGED	
29.005	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	
29.006	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	
33.001	SIC 190-1	141.455	0.290	0.000	0.03		0.8	FLOOD RISK	

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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 (m ³)	Flow / Cap. (l/s)	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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Unit 1, Ensign House
Parkway Court, Longbridge Road
Plymouth, PL6 8LR

Date 19/02/2026
File SWD NETWORK - INFILTRAT...

VICTORIA ROAD
INFILTRATION BASIN A
SURCHARGED OUTFALL

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Network 2019.1

Micro Drainage

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.
34.000	DIST TANK	30 Winter	100	+45%	100/15	Summer		
34.001	SIC 180-1	30 Winter	100	+45%	100/15	Summer		
29.008	JUNCTION	15 Winter	100	+45%				
35.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
35.001	SIC 191-1	30 Winter	100	+45%	100/15	Summer		
29.009	JUNCTION	15 Winter	100	+45%				
36.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
36.001	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		
37.000	DIST TANK	120 Winter	100	+45%	100/15	Summer		
37.001	SIC 165-1	180 Winter	100	+45%	100/15	Summer		
18.013	JUNCTION	60 Winter	100	+45%				
1.012	SMH 8	15 Winter	100	+45%	100/15	Summer		
1.013	SMH 7	15 Winter	100	+45%	100/15	Summer		
1.014	SMH 6	15 Winter	100	+45%	100/15	Summer		
38.000	DIST TANK	120 Winter	100	+45%	100/15	Summer		
38.001	SIC 146-1	120 Winter	100	+45%	100/15	Summer		
1.015	JUNCTION	360 Winter	100	+45%				
39.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
39.001	SIC 152-1	180 Winter	100	+45%	100/15	Summer		
40.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
40.001	SIC 153-1	60 Winter	100	+45%	100/15	Summer		
39.002	SMH 36	60 Winter	100	+45%				
41.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
41.001	SIC 154-1	60 Winter	100	+45%	100/15	Summer		
39.003	JUNCTION	60 Winter	100	+45%				
42.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
42.001	SIC 155-1	60 Winter	100	+45%	100/15	Summer		
39.004	JUNCTION	15 Winter	100	+45%				
39.005	SMH 35	15 Winter	100	+45%	100/15	Summer		
1.016	SMH 5	15 Winter	100	+45%	100/15	Summer		
43.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
43.001	SIC 148-1	180 Winter	100	+45%	100/15	Summer		
1.017	JUNCTION	360 Winter	100	+45%				
1.018	SMH 4	15 Winter	100	+45%	100/15	Summer		
44.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
44.001	SIC 150-1	180 Winter	100	+45%	100/15	Summer		
1.019	JUNCTION	360 Winter	100	+45%				
1.020	SMH 3	15 Winter	100	+45%	100/15	Summer		
45.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
45.001	SIC 111-1	180 Winter	100	+45%	100/15	Summer		
1.021	JUNCTION	360 Winter	100	+45%				
46.000	DIST TANK	60 Winter	100	+45%	100/15	Summer		
46.001	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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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
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*	
1.012	SMH 8	138.380	2.089	0.000	1.53		384.1	SURCHARGED	
1.013	SMH 7	138.260	2.021	0.000	1.56		411.7	SURCHARGED	
1.014	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	
39.004	JUNCTION	137.809	0.000	0.000	0.22		6.6	SURCHARGED*	
39.005	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	
1.017	JUNCTION	136.119	0.000	0.000	0.44		115.2	SURCHARGED*	
1.018	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	
1.019	JUNCTION	136.082	0.000	0.000	0.45		115.8	SURCHARGED*	
1.020	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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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	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			
49.000	DIST TANK	60 Summer	100	+45%	100/15 Summer			
49.001	SIC 116-1	60 Summer	100	+45%	100/60 Summer			
1.024	JUNCTION	360 Winter	100	+45%				
1.025	SMH 1	60 Summer	100	+45%	100/15 Summer			

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
48.001	SIC 115-1	136.927	0.347	0.000	0.05		0.8	FLOOD RISK	
47.002	SWMH 114-1	136.753	0.603	0.000	0.45		26.7	SURCHARGED	
1.023	SMH 2	136.710	0.741	0.000	2.16		374.9	SURCHARGED	
49.000	DIST TANK	136.665	0.195	0.000	1.56		6.1	SURCHARGED	
49.001	SIC 116-1	136.627	0.177	0.000	0.43		6.0	SURCHARGED	
1.024	JUNCTION	135.951	0.000	0.000	0.44		127.8	SURCHARGED*	
1.025	SMH 1	136.427	0.518	0.000	2.00		384.1	SURCHARGED	