

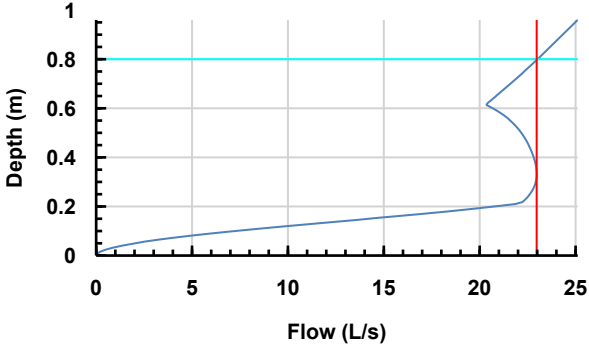
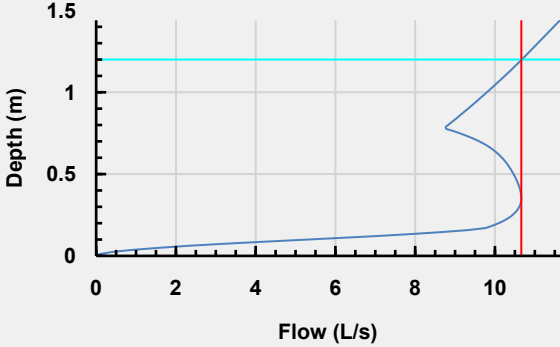
Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05	Date: 03/06/2025		
	Designed by: AJe	Checked by: RR	Approved By: NB
Report Details: Type: Junctions Storm Phase: Existing SW	Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN		



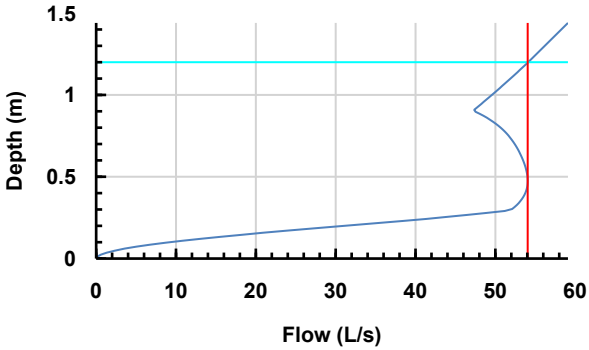
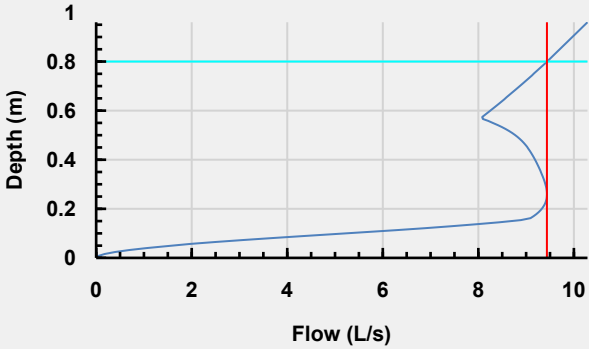
Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH290	Outlet	Pipe291	Free Discharge
MH91	Outlet	Pipe87	Free Discharge
MH257	Outlet	Pipe301	Free Discharge
Ex. MH07	Outlet	Pipe274	Free Discharge
MH248	Outlet	Pipe298	Free Discharge
Ex. MH06	Outlet	Pipe57	Free Discharge
MH246	Outlet	Pipe45	Free Discharge
MH247	Outlet	Pipe273	Free Discharge
MH132	Outlet	Pipe50 (1)	Free Discharge
MH123	Outlet	Pipe46	Free Discharge
MH315	Outlet	Pipe191	Free Discharge
SW47	Outlet	12.000	Free Discharge
SW48	Outlet	12.001	Free Discharge
MH208	Outlet	Outfall 2	Free Discharge
MH96	Outlet	Pipe58	Free Discharge
MH207	Outlet	Pipe198	Free Discharge
MH79	Outlet	Pipe56	Free Discharge
MH97	Outlet	Pipe51 (1) (1)	Free Discharge
MH80	Outlet	Outfall 1	Free Discharge
MH81	Outlet	Pipe52	Free Discharge
MH73	Outlet	Pipe48	Free Discharge
MH72	Outlet	Pipe59	Free Discharge
MH117	Outlet	Pipe68 (1)	Free Discharge
MH265	Outlet	Pipe293	Free Discharge
MH98	Outlet	Pipe55	Free Discharge
MH84	Outlet	Pipe54 (2)	Free Discharge
MH214	Outlet	Pipe206	Free Discharge
MH254	Outlet	Pipe77	Free Discharge
SW49	Outlet	Ex. 12.002	Free Discharge
Simple Junction (9)	Outlet	Pipe195	Free Discharge
Simple Junction (10)	Outlet	Pipe197	Free Discharge
Simple Junction (16)	Outlet	Pipe239	Free Discharge
Simple Junction (18)	Outlet	Pipe272	Free Discharge
Simple Junction (19)	Outlet	Pipe275	Free Discharge
Simple Junction (20)	Outlet	Pipe276	Free Discharge
Simple Junction (21)	Outlet	Pipe277	Free Discharge
Simple Junction (22)	Outlet	Pipe278	Free Discharge
Simple Junction (24)	Outlet	Pipe280	Free Discharge
Simple Junction (27)	Outlet	Pipe296	Free Discharge
Simple Junction (28)	Outlet	Pipe297	Free Discharge
Simple Junction (29)	Outlet	Pipe299	Free Discharge
Simple Junction (30)	Outlet	Pipe300	Free Discharge
SW02	Outlet	1.001	Free Discharge
SW03	Outlet	1.002	Free Discharge
SW05	Outlet	1.003	Free Discharge
	Outlet	1.006	Hydro-Brake®

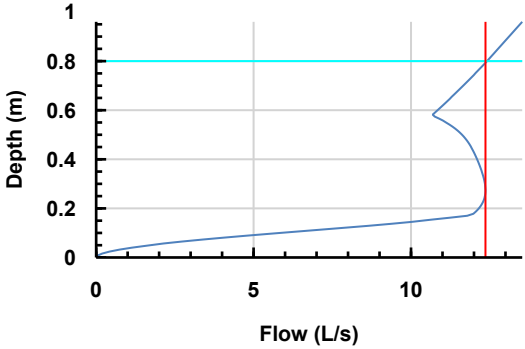
Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
Report Details: Type: Junctions Storm Phase: Existing SW		Designed by: AJe	Checked by: RR		Approved By: NB
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Junction	Outlet Name	Outgoing Connection	Outlet Type
SW06 (FC)	Invert Level (m)	20.746	
	Design Depth (m)	0.800	
	Design Flow (L/s)	23.02	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0213-2302-0800-2302	
			
SW01	Outlet	1.000	Free Discharge
SW13	Outlet	4.000	Free Discharge
SW14	Outlet	4.001	Free Discharge
SW12	Outlet	3.002	Free Discharge
SW22 (FC)	Outlet	3.005	Hydro-Brake®
	Invert Level (m)	21.170	
	Design Depth (m)	1.200	
	Design Flow (L/s)	10.68	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0147-1068-1200-1068	
			
SW36	Outlet	9.001a	Free Discharge
SW37	Outlet	9.002	Free Discharge
SW38	Outlet	9.003	Free Discharge
SW44	Outlet	9.004	Free Discharge
SW45	Outlet	9.005	Free Discharge
SW39	Outlet	9.003a	Free Discharge
SW20	Outlet	8.002	Free Discharge
SW19	Outlet	8.001	Free Discharge
	Outlet	9.008	Hydro-Brake®

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Junction	Outlet Name	Outgoing Connection	Outlet Type
SW46 (FC)	Invert Level (m)	20.981	
	Design Depth (m)	1.200	
	Design Flow (L/s)	54.12	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0302-5412-1200-5412	
			
SW16	Outlet	4.002	Free Discharge
SW21	Outlet	3.003a	Free Discharge
SW17	Outlet	3.004	Free Discharge
SW18	Outlet	8.000	Free Discharge
SW09 (FC)	Outlet (1)	2.003	Hydro-Brake®
	Invert Level (m)	21.848	
	Design Depth (m)	0.800	
	Design Flow (L/s)	9.44	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0145-9440-0800-9440	
			
SW25	Outlet	5.002	Free Discharge
SW40	Outlet	10.000	Free Discharge
SW41	Outlet	10.001	Free Discharge
SPEL ESR60/C1	Outlet	9.006	Free Discharge
SW43	Outlet	11.001	Free Discharge
SW42	Outlet	11.000	Free Discharge
SW07	Outlet	2.000	Free Discharge
SW08	Outlet	2.001	Free Discharge
SW15	Outlet	4.001a	Free Discharge
SW10	Outlet	3.000	Free Discharge
SW11	Outlet	3.001	Free Discharge

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Junction	Outlet Name	Outgoing Connection	Outlet Type
SW04	Outlet	1.002a	Free Discharge
SW26	Outlet	6.000	Free Discharge
SW28	Outlet	6.001	Free Discharge
SW29	Outlet	6.002	Free Discharge
SPEL P080/1C/ESR	Outlet	6.003	Free Discharge
SW30	Outlet	6.004	Free Discharge
SW27	Outlet	6.000a	Free Discharge
SW33 (FC)	Outlet	6.006	Hydro-Brake®
	Invert Level (m)	21.200	
	Design Depth (m)	0.800	
	Design Flow (L/s)	12.42	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0163-1242-0800-1242	
			
SW31	Outlet	7.000	Free Discharge
SW32	Outlet	7.001	Free Discharge
SW23	Outlet	5.000	Free Discharge
SW24	Outlet	5.001	Free Discharge
SPEL P100/1C/ESR	Outlet	1.004	Free Discharge
SW34	Outlet	9.000	Free Discharge
SW35	Outlet	9.001	Free Discharge

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Tank

Type : Tank

Dimensions

Exceedance Level (m)	22.950
Depth (m)	2.050
Base Level (m)	20.900
Freeboard (mm)	1
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	229.533

Depth (m)	Area (m²)	Volume (m³)
0.000	300.000	0.000
0.800	300.000	228.000
0.801	300.001	228.285

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	1.004
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.005
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	9.939

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Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	23.400
Depth (m)	2.150
Base Level (m)	21.250
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	229.139

Depth (m)	Area (m²)	Volume (m³)
0.000	200.000	0.000
1.200	200.000	228.000
1.201	200.001	228.190

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	3.002
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.003
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	19.962

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Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	23.150
Depth (m)	2.150
Base Level (m)	21.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	525.786

Depth (m)	Area (m²)	Volume (m³)
0.000	460.000	0.000
1.200	460.000	524.400
1.201	460.001	524.837

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	9.006
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	9.007
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	29.915

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	Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	22.670
Depth (m)	1.470
Base Level (m)	21.200
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	259.392

Depth (m)	Area (m²)	Volume (m³)
0.000	340.000	0.000
0.800	340.000	258.400
0.801	340.001	258.723

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	6.004
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	6.005
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	19.988

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Tank (4)

Type : Tank

Dimensions

Exceedance Level (m)	23.450
Depth (m)	1.550
Base Level (m)	21.900
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	101.194

Depth (m)	Area (m²)	Volume (m³)
0.000	132.000	0.000
0.800	132.000	100.320
0.801	132.001	100.445

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	2.001
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	2.002
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	22.000

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Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
Pipe45	24.569	Pipe	289.045		0.6	450	23.900	21.080
Pipe46	48.784	Pipe	1219.602		0.6	525	23.258	20.920
Pipe48	12.351	Pipe	308.787		0.6	600	22.910	20.830
Outfall 1	23.890	Pipe	298.630		0.6	600	23.070	20.790
Pipe52	2.348	Pipe	7.827		0.6	300	23.030	21.390
Pipe55	42.639	Pipe	448.829		0.6	450	21.845	21.120
Pipe56	20.620	Pipe	242.594		0.6	525	23.140	20.950
Pipe57	74.025	Pipe	231.329		0.6	600	23.900	21.400
Pipe58	56.225	Pipe	281.125		0.6	600	23.150	21.080
Pipe59	3.484	Pipe	69.686		0.6	600	22.880	20.880
Pipe77	39.154	Pipe	223.737		0.6	225	23.400	23.265
Pipe87	15.660	Pipe	261.004		0.6	225	23.910	23.150
Pipe54 (2)	49.767	Pipe	41.472		0.6	450	24.550	22.320
Pipe191	48.324	Pipe	34.765		0.6	225	23.561	23.090
Pipe195	21.184	Pipe	151.316		0.6	150	23.279	20.945
Pipe197	16.344	Pipe	233.484		0.6	375	21.025	20.650
Pipe198	6.733	Pipe	26.931		0.6	375	23.140	20.580
Pipe206	57.603	Pipe	295.401		0.6	150	22.500	22.045
Pipe50 (1)	47.749	Pipe	222.089		0.6	225	23.760	22.085
Pipe239	27.674	Pipe	221.389		0.6	225	23.890	23.275
Ex. 12.002	41.645	Pipe	320.345		0.6	225	23.995	21.335
Pipe68 (1)	28.083	Pipe	374.437		0.6	150	22.410	21.850
Pipe272	26.165	Pipe	218.041		0.6	225	23.709	21.580
Pipe273	46.167	Pipe	297.853		0.6	300	23.900	21.385
Pipe274	67.631	Pipe	346.828		0.6	600	23.900	21.595
Pipe275	62.233	Pipe	222.261		0.6	225	23.890	21.740
Pipe276	17.818	Pipe	222.725		0.6	225	23.168	21.540
Pipe277	64.320	Pipe	225.684		0.6	225	23.890	21.590
Pipe278	22.942	Pipe	218.499		0.6	225	23.890	21.410
Pipe280	21.321	Pipe	224.434		0.6	225	23.798	21.400
Pipe291	48.291	Pipe	193.164		0.6	225	24.929	21.150
Pipe293	80.967	Pipe	192.779		0.6	225	22.370	20.900
Outfall 2	42.480	Pipe	128.728		0.6	375	23.230	20.330
Pipe296	52.662	Pipe	102.256		0.6	225	23.436	22.175
Pipe297	67.688	Pipe	116.704		0.6	225	23.890	22.240
Pipe298	3.305	Pipe	50.840		0.6	225	23.900	21.660
Pipe299	58.137	Pipe	223.606		0.6	225	23.774	22.365
Pipe300	68.662	Pipe	225.122		0.6	225	23.890	22.410
Pipe301	40.570	Pipe	79.549		0.6	225	23.900	22.105
Pipe51 (1) (1)	76.042	Pipe	158.422		0.6	225	23.130	21.870
1.001	5.000	Pipe	100.000		0.6	150	23.266	21.396
1.002	30.565	Pipe	224.742		0.6	300	23.117	21.196
1.000	19.433	Pipe	48.102		0.6	225	23.100	21.675
4.000	22.000	Pipe	100.000		0.6	150	23.594	22.244
1.006	7.838	Pipe	67.570		0.6	225	23.150	20.746
3.005	11.534	Pipe	46.135		0.6	225	23.391	21.170
1.005	34.757	Pipe	225.694		0.6	300	22.853	20.900
3.002	11.591	Pipe	227.266		0.6	300	23.493	21.577
12.000	66.176	Pipe	339.362		0.6	225	23.045	21.700
9.002	51.000	Pipe	300.000		0.6	375	23.400	21.465
9.003	16.493	Pipe	299.866		0.6	375	23.464	21.295
9.004	5.000	Pipe	294.118		0.6	450	23.501	21.165
9.003a	37.507	Pipe	56.743		0.6	225	23.401	22.051
8.001	36.183	Pipe	149.517		0.6	225	23.423	21.686
9.008	29.756	Pipe	197.058		0.6	300	23.289	20.981
9.007	4.338	Pipe	228.328		0.6	300	23.289	21.000

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12.001	52.327	Pipe	307.805		0.6	225	23.280	21.505
4.001	31.976	Pipe	150.124		0.6	225	23.546	21.949
4.002	12.589	Pipe	149.869		0.6	225	23.585	21.736
8.002	4.000	Pipe	25.316		0.6	225	23.544	21.444
3.004	9.171	Pipe	223.689		0.6	300	23.515	21.211
3.003a	34.500	Pipe	150.000		0.6	225	23.679	22.254
3.003	8.963	Pipe	229.810		0.6	300	23.400	21.250
8.000	17.000	Pipe	100.000		0.6	150	23.281	21.931
5.002	23.824	Pipe	250.778		0.6	300	22.840	20.975
2.003	10.983	Pipe	150.452		0.6	225	23.532	21.848
10.000	29.881	Pipe	149.407		0.6	225	23.371	22.246
10.001	39.000	Pipe	57.949		0.6	225	23.345	22.046
9.005	10.775	Pipe	299.304		0.6	450	23.367	21.148
11.000	38.000	Pipe	149.606		0.6	225	23.123	21.698
11.001	8.000	Pipe	112.676		0.6	225	23.371	21.444
9.006	3.665	Pipe	305.396		0.6	450	23.239	21.012
2.000	29.000	Pipe	150.259		0.6	225	23.501	22.131
2.001	6.059	Pipe	159.459		0.6	225	23.509	21.938
2.002	5.956	Pipe	114.541		0.6	225	23.450	21.900
4.001a	19.000	Pipe	162.393		0.6	225	23.578	21.853
1.002a	14.000	Pipe	61.674		0.6	225	23.087	21.437
3.000	24.000	Pipe	150.000		0.6	225	23.590	22.165
3.001	51.874	Pipe	146.952		0.6	225	23.478	22.005
5.000	59.000	Pipe	78.042		0.6	225	23.849	22.424
5.001	48.087	Pipe	77.811		0.6	225	23.208	21.668
6.006	13.044	Pipe	86.963		0.6	225	22.765	21.200
7.000	22.484	Pipe	149.892		0.6	225	22.792	21.565
7.001	16.150	Pipe	149.540		0.6	225	22.819	21.415
6.004	2.862	Pipe	238.525		0.6	300	22.851	21.232
6.000	10.000	Pipe	100.000		0.6	150	23.251	21.673
6.001	9.001	Pipe	225.019		0.6	300	22.978	21.423
6.002	5.694	Pipe	219.011		0.6	300	22.765	21.383
6.003	5.690	Pipe	227.600		0.6	300	22.938	21.257
6.000a	32.000	Pipe	225.352		0.6	300	23.011	21.565
1.003	3.502	Pipe	218.875		0.6	300	23.087	21.060
1.004	3.680	Pipe	245.310		0.6	300	23.000	20.944
6.005	2.177	Pipe	0.000		0.6	225	22.670	21.200
9.001	18.000	Pipe	225.000		0.6	300	23.150	21.620
9.000	49.000	Pipe	224.771		0.6	300	23.190	21.838
9.001a	54.000	Pipe	121.076		0.6	225	23.486	22.061

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Min. Cover Depth (m)	Flow Restriction (L/s)	Velocity (m/s)	Culvert Type	Culvert Entrance
Pipe45	23.258	20.995	All	0.000			(None)	(None)
Pipe46	22.880	20.880	All	0.000			(None)	(None)
Pipe48	23.070	20.790	All	0.000			(None)	(None)
Outfall 1	23.200	20.710	All	0.000			(None)	(None)
Pipe52	23.070	21.090	All	0.000			(None)	(None)
Pipe55	23.140	21.025	All	0.000			(None)	(None)
Pipe56	23.070	20.865	All	0.000			(None)	(None)
Pipe57	23.150	21.080	All	0.000			(None)	(None)
Pipe58	22.880	20.880	All	0.000			(None)	(None)
Pipe59	22.910	20.830	All	0.000			(None)	(None)
Pipe77	23.561	23.090	All	0.000			(None)	(None)
Pipe87	23.561	23.090	All	0.000			(None)	(None)
Pipe54 (2)	21.845	21.120	All	0.000			(None)	(None)
Pipe191	23.900	21.700	All	0.000			(None)	(None)
Pipe195	23.140	20.805	All	0.000			(None)	(None)
Pipe197	23.140	20.580	All	0.000			(None)	(None)

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
		Designed by: AJe	Checked by: RR		Approved By: NB
Report Details: Type: Connections Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			

Pipe198	23.230	20.330	All	0.000		(None)	(None)
Pipe206	22.410	21.850	All	0.000		(None)	(None)
Pipe50 (1)	23.130	21.870	All	0.000		(None)	(None)
Pipe239	23.910	23.150	All	0.000		(None)	(None)
Ex. 12.002	22.910	21.205	All	0.000		(None)	(None)
Pipe68 (1)	23.045	21.775	All	0.000		(None)	(None)
Pipe272	23.900	21.460	All	0.000		(None)	(None)
Pipe273	23.900	21.230	All	0.000		(None)	(None)
Pipe274	23.900	21.400	All	0.000		(None)	(None)
Pipe275	23.900	21.460	All	0.000		(None)	(None)
Pipe276	23.900	21.460	All	0.000		(None)	(None)
Pipe277	23.900	21.305	All	0.000		(None)	(None)
Pipe278	23.900	21.305	All	0.000		(None)	(None)
Pipe280	23.900	21.305	All	0.000		(None)	(None)
Pipe291	22.370	20.900	All	0.000		(None)	(None)
Pipe293	23.230	20.480	All	0.000		(None)	(None)
Outfall 2	20.375	20.000	All	0.000		(None)	(None)
Pipe296	23.900	21.660	All	0.000		(None)	(None)
Pipe297	23.900	21.660	All	0.000		(None)	(None)
Pipe298	23.900	21.595	All	0.000		(None)	(None)
Pipe299	23.900	22.105	All	0.000		(None)	(None)
Pipe300	23.900	22.105	All	0.000		(None)	(None)
Pipe301	23.900	21.595	All	0.000		(None)	(None)
Pipe51 (1) (1)	23.030	21.390	All	0.000		(None)	(None)
1.001	23.117	21.346	All	0.000		(None)	(None)
1.002	23.087	21.060	All	0.000		(None)	(None)
1.000	23.117	21.271	All	0.000		(None)	(None)
4.000	23.546	22.024	All	0.000		(None)	(None)
1.006	23.230	20.630	All	0.000	25.11	(None)	(None)
3.005	23.258	20.920	All	0.000	11.63	(None)	(None)
1.005	23.150	20.746	All	0.000		(None)	(None)
3.002	23.503	21.526	All	0.000		(None)	(None)
12.000	23.280	21.505	All	0.000		(None)	(None)
9.002	23.464	21.295	All	0.000		(None)	(None)
9.003	23.501	21.240	All	0.000		(None)	(None)
9.004	23.367	21.148	All	0.000		(None)	(None)
9.003a	23.501	21.390	All	0.000		(None)	(None)
8.001	23.544	21.444	All	0.000		(None)	(None)
9.008	22.910	20.830	All	0.000	59.09	(None)	(None)
9.007	23.289	20.981	All	0.000		(None)	(None)
12.001	23.995	21.335	All	0.000		(None)	(None)
4.001	23.585	21.736	All	0.000		(None)	(None)
4.002	23.493	21.652	All	0.000		(None)	(None)
8.002	23.515	21.286	All	0.000		(None)	(None)
3.004	23.391	21.170	All	0.000		(None)	(None)
3.003a	23.515	22.024	All	0.000		(None)	(None)
3.003	23.515	21.211	All	0.000		(None)	(None)
8.000	23.423	21.761	All	0.000		(None)	(None)
5.002	22.880	20.880	All	0.000		(None)	(None)
2.003	23.900	21.775	All	0.000	10.28	(None)	(None)
10.000	23.345	22.046	All	0.000		(None)	(None)
10.001	23.367	21.373	All	0.000		(None)	(None)
9.005	23.239	21.112	All	0.000		(None)	(None)
11.000	23.371	21.444	All	0.000		(None)	(None)
11.001	23.367	21.373	All	0.000		(None)	(None)
9.006	23.150	21.000	All	0.000		(None)	(None)
2.000	23.509	21.938	All	0.000		(None)	(None)
2.001	23.450	21.900	All	0.000		(None)	(None)
2.002	23.532	21.848	All	0.000		(None)	(None)

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
		Designed by: AJe	Checked by: RR		Approved By: NB
Report Details: Type: Connections Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			

4.001a	23.585	21.736	All	0.000		(None)	(None)
1.002a	23.087	21.210	All	0.000		(None)	(None)
3.000	23.478	22.005	All	0.000		(None)	(None)
3.001	23.493	21.652	All	0.000		(None)	(None)
5.000	23.208	21.668	All	0.000		(None)	(None)
5.001	22.840	21.050	All	0.000		(None)	(None)
6.006	22.840	21.050	All	0.000	13.53	(None)	(None)
7.000	22.819	21.415	All	0.000		(None)	(None)
7.001	22.851	21.307	All	0.000		(None)	(None)
6.004	22.670	21.220	All	0.000		(None)	(None)
6.000	22.978	21.573	All	0.000		(None)	(None)
6.001	22.765	21.383	All	0.000		(None)	(None)
6.002	22.938	21.357	All	0.000		(None)	(None)
6.003	22.851	21.232	All	0.000		(None)	(None)
6.000a	22.978	21.423	All	0.000		(None)	(None)
1.003	23.000	21.044	All	0.000		(None)	(None)
1.004	22.950	20.929	All	0.000		(None)	(None)
6.005	22.765	21.200	All	0.000		(None)	(None)
9.001	23.400	21.540	All	0.000		(None)	(None)
9.000	23.150	21.620	All	0.000		(None)	(None)
9.001a	23.400	21.615	All	0.000		(None)	(None)

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05	Date: 03/06/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Existing SW	AJe	RR	NB	
Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN				

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (m²)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (m²)
Area 1a	MH214		Time of Concentration	3160.263	100	0	100	3160.263
Area 1b	Simple Junction (10)		Time of Concentration	3445.193	100	0	100	3445.193
Area 2	Simple Junction (19)		Time of Concentration	3653.092	100	0	100	3653.092
Area 2 (1)	Simple Junction (21)		Time of Concentration	3520.693	100	0	100	3520.693
Area 3	SW14		Time of Concentration	539.976	100	0	100	539.976
Area 3 (1)	SW15		Time of Concentration	616.049	100	0	100	616.049
Area 3 (2)	SW11		Time of Concentration	770.273	100	0	100	770.273
Area 3 (3)	SW12		Time of Concentration	779.848	100	0	100	779.848
Area 4	Simple Junction (16)		Time of Concentration	1139.441	100	0	100	1139.441
Area 4 (1)	Ex. MH06		Time of Concentration	1127.525	100	0	100	1127.525
Area 4 (2)	Simple Junction (16)		Time of Concentration	1114.991	100	0	100	1114.991
Area 4 (3)	Ex. MH06		Time of Concentration	1065.918	100	0	100	1065.918
Area 5a	SW07		Time of Concentration	1478.721	100	0	100	1478.721
Area 5b	SW07		Time of Concentration	825.505	100	0	100	825.505
Area 6	Simple Junction (30)		Time of Concentration	1955.953	100	0	100	1955.953
Area 6 (1)	Simple Junction (28)		Time of Concentration	1769.859	100	0	100	1769.859
Area 6 (2)	Simple Junction (29)		Time of Concentration	1107.376	100	0	100	1107.376
Area 6 (3)	Simple Junction (27)		Time of Concentration	1101.927	100	0	100	1101.927
Area 7	SW01		Time of Concentration	2235.725	100	0	100	2235.725
Area 7 (1)	SW04		Time of Concentration	1514.997	100	0	100	1514.997
Area 7 (2)	SW02		Time of Concentration	356.246	100	0	100	356.246
Area 11a	SW26		Time of Concentration	431.597	100	0	100	431.597
Area 11b	SW28		Time of Concentration	1108.898	100	0	100	1108.898
Area 12	Simple Junction (16)		Time of Concentration	1798.803	100	0	100	1798.803
Area 12 (1)	SW23		Time of Concentration	1738.739	100	0	100	1738.739
Catchment Area	SW39		Time of Concentration	657.018	100	0	100	657.018
Catchment Area (1)	SW36		Time of Concentration	579.882	100	0	100	579.882
Catchment Area (2)	SW36		Time of Concentration	586.008	100	0	100	586.008
Catchment Area (3)	SW37		Time of Concentration	663.322	100	0	100	663.322
Catchment Area (4)	SW34		Time of Concentration	1090.103	100	0	100	1090.103
Catchment Area (5)	SW39		Time of Concentration	649.978	100	0	100	649.978
Catchment Area (6)	SW40		Time of Concentration	2040.104	100	0	100	2040.104

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
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Report Details: Type: Inflow Summary Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			

Catchment Area (7)	SW42		Time of Concentration	1975.644	100	0	100	1975.644
Catchment Area (8)	SW18		Time of Concentration	985.534	100	0	100	985.534
Catchment Area (9)	SW27		Time of Concentration	1580.211	100	0	100	1580.211
Catchment Area (10)	SW31		Time of Concentration	1451.370	100	0	100	1451.370
Catchment Area (11)	SW10		Time of Concentration	794.084	100	0	100	794.084
Catchment Area (12)	SW21		Time of Concentration	410.849	100	0	100	410.849
Catchment Area (13)	SW03		Time of Concentration	976.059	100	0	100	976.059
Catchment Area (14)	SW13		Time of Concentration	232.727	100	0	100	232.727
Catchment Area (15)	SW34		Time of Concentration	1176.814	100	0	100	1176.814
TOTAL		0.0		54207.316				54207.316

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05	Date: 03/06/2025		
	Designed by: AJe	Checked by: RR	Approved By: NB
Report Title: Rainfall Analysis Criteria	Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	20.0
Ratio R	0.400
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	40.000

Storm Durations

Duration (hrs)	Run Time (hrs)
0.25	0.50
0.50	1.00
1.00	2.00
2.00	4.00
3.00	6.00
4.00	8.00
6.00	12.00
8.00	16.00
10.00	20.00
12.00	24.00
16.00	32.00
24.00	48.00
36.00	72.00
48.00	96.00
72.00	144.00
96.00	192.00
120.00	240.00
144.00	288.00
168.00	336.00

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025		
Report Details: Type: Junctions Summary Storm Phase: Existing SW		Designed by: AJe	Checked by: RR	
		Approved By: NB		
		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN		



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH290	FSR: 100 years: +40 %: 0.25 hrs: Summer	24.929	21.150	21.150	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH91	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.910	23.150	23.955	0.805	232.0	45.659	45.176	89.3	117.712	Flood
MH257	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.900	22.105	23.915	1.810	172.3	15.897	14.755	102.3	88.933	Flood
Ex. MH07	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.900	21.595	22.263	0.668	252.0	0.425	0.000	180.8	153.888	Surcharged
MH248	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.900	21.660	22.585	0.925	147.8	0.588	0.000	140.4	74.364	Surcharged
Ex. MH06	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.900	21.400	22.215	0.815	381.8	2.074	0.000	323.6	323.811	Surcharged
MH246	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.900	21.080	22.275	1.195	318.4	0.760	0.000	296.4	187.192	Surcharged
MH247	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.900	21.385	23.090	1.705	181.2	1.084	0.000	142.0	98.072	Surcharged
MH132	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.760	22.085	22.085	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH123	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.258	20.920	21.993	1.073	296.4	0.682	0.000	280.8	192.615	Surcharged
MH315	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.561	23.090	23.409	0.319	91.6	0.203	0.000	89.7	109.551	Flood Risk
SW47	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.045	21.700	21.998	0.298	15.4	0.427	0.000	17.1	23.831	Surcharged
SW48	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.280	21.505	21.918	0.413	17.1	0.263	0.000	22.4	23.383	Surcharged
MH208	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.230	20.330	20.812	0.482	206.3	0.306	0.000	182.1	117.547	Surcharged
MH96	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.150	21.080	22.046	0.966	323.6	0.614	0.000	316.2	319.898	Surcharged
MH207	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.140	20.580	20.890	0.310	204.2	0.197	0.000	185.6	89.355	OK
MH79	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.140	20.950	21.592	0.642	96.8	0.408	0.000	25.3	23.962	Surcharged
MH97	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.130	21.870	21.870	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH80	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.070	20.790	21.592	0.802	593.6	0.510	0.000	595.5	575.617	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05				Date: 03/06/2025							
Report Details: Type: Junctions Summary Storm Phase: Existing SW				Designed by:	Checked by:	Approved By:					
				AJe	RR	NB					
				Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN							

MH81	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.03 0	21.39 0	21.593	0.203	11.1	0.129	0.000	7.1	2.228	OK
MH73	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.91 0	20.83 0	21.770	0.940	615.3	0.598	0.000	575.6	588.629	Surcharged
MH72	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.88 0	20.88 0	21.903	1.023	607.8	0.651	0.000	595.8	545.245	Surcharged
MH117	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.41 0	21.85 0	22.208	0.358	15.4	0.228	0.000	15.4	24.247	Flood Risk
MH265	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.37 0	20.90 0	20.900	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH98	FSR: 100 years: +40 %: 0.25 hrs: Summer	21.84 5	21.12 0	21.591	0.471	93.9	0.299	0.000	17.6	8.901	Flood Risk
MH84	FSR: 100 years: +40 %: 0.25 hrs: Summer	24.55 0	22.32 0	22.320	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH214	FSR: 100 years: +40 %: 1.00 hrs: Winter	22.50 0	22.04 5	22.597	0.552	96.9	97.320	97.191	15.8	106.797	Flood
MH254	FSR: 100 years: +40 %: 0.50 hrs: Winter	23.40 0	23.26 5	23.405	0.140	13.8	5.387	5.386	10.2	6.264	Flood
SW49	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.99 5	21.33 5	21.844	0.509	29.4	0.575	0.000	24.1	23.345	Surcharged
Outfall 1	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.20 0	20.71 0	21.310	0.600	595.5	0.000	0.000	595.3	557.879	OK
Simple Junction (9)	FSR: 100 years: +40 %: 0.25 hrs: Summer		20.94 5	20.949	0.004	0.0			0.0	0.097	OK
Simple Junction (10)	FSR: 100 years: +40 %: 0.25 hrs: Summer		20.65 0	21.187	0.537	205.8			204.2	89.230	Surcharged
Simple Junction (16)	FSR: 100 years: +40 %: 0.25 hrs: Summer		23.27 5	28.204	4.929	242.1			219.9	105.049	Surcharged
Simple Junction (18)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.58 0	23.070	1.490	13.2			12.2	2.918	Surcharged
Simple Junction (19)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.74 0	28.473	6.733	218.2			181.2	93.063	Surcharged
Simple Junction (20)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.54 0	23.077	1.537	13.0			12.2	2.839	Surcharged
Simple Junction (21)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.59 0	27.827	6.237	210.3			176.4	89.383	Surcharged
Simple Junction (22)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.41 0	22.284	0.874	7.8			6.2	1.821	Surcharged
Simple Junction (24)	FSR: 100 years: +40 %: 0.25 hrs: Summer		21.40 0	22.291	0.891	6.9			6.2	1.806	Surcharged
Outfall 2	FSR: 100 years: +40 %: 0.25 hrs: Summer	20.37 5	20.00 0	20.375	0.375	182.1	0.000	0.000	182.4	117.547	Flood Risk
Simple Junction (27)	FSR: 100 years: +40 %: 0.25 hrs: Summer		22.17 5	23.234	1.059	65.8			57.2	28.400	Surcharged
Simple Junction (28)	FSR: 100 years: +40 %: 0.25 hrs: Summer		22.24 0	24.497	2.257	105.7			90.6	45.566	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
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Report Details: Type: Junctions Summary Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			

Simple Junction (29)	FSR: 100 years: +40 %: 0.25 hrs: Summer		22.36 5	24.629	2.264	66.1			59.9	28.626	Surcharged
Simple Junction (30)	FSR: 100 years: +40 %: 0.25 hrs: Summer		22.41 0	26.026	3.616	116.8			99.9	50.382	Surcharged
SW02	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.26 6	21.39 6	22.738	1.342	21.3	1.518	0.000	18.1	9.259	Surcharged
SW03	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.11 7	21.19 6	22.671	1.475	151.9	1.668	0.000	149.2	92.521	Surcharged
SW05	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.08 7	21.06 0	22.055	0.995	234.6	1.126	0.000	232.1	130.779	Surcharged
SW06 (FC)	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.15 0	20.74 6	21.275	0.529	23.5	0.598	0.000	22.9	29.026	Surcharged
SW01	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.10 0	21.67 5	23.104	1.429	140.4	5.802	3.763	107.6	64.662	Flood
SW13	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.59 4	22.24 4	22.680	0.436	13.9	0.624	0.000	6.9	5.981	Surcharged
SW14	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.54 6	21.94 9	22.639	0.690	39.2	0.780	0.000	33.6	20.037	Surcharged
SW12	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.49 3	21.57 7	22.258	0.681	177.3	0.770	0.000	174.1	93.364	Surcharged
SW22 (FC)	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.39 1	21.17 0	21.893	0.723	10.7	1.277	0.000	10.7	13.293	Surcharged
SW36	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.48 6	22.06 1	23.311	1.250	69.6	1.789	0.000	56.0	29.503	Flood Risk
SW37	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.40 0	21.46 5	22.658	1.193	189.9	2.109	0.000	184.2	105.559	Surcharged
SW38	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.46 4	21.29 5	22.163	0.868	184.2	1.533	0.000	180.0	102.649	Surcharged
SW44	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.50 1	21.16 5	21.960	0.795	249.0	1.405	0.000	246.0	134.495	Surcharged
SW45	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.36 7	21.14 8	21.870	0.722	401.6	1.838	0.000	398.3	234.308	Surcharged
SW39	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.40 1	22.05 1	22.690	0.639	78.1	0.914	0.000	69.0	33.344	Surcharged
SW20	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.54 4	21.44 4	21.894	0.450	44.5	0.509	0.000	43.1	23.180	Surcharged
SW19	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.42 3	21.68 6	21.926	0.240	49.3	0.271	0.000	44.5	24.466	Surcharged
SW46 (FC)	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.28 9	20.98 1	21.575	0.594	52.3	1.512	0.000	52.5	45.432	Surcharged
SW16	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.58 5	21.73 6	22.485	0.749	65.3	0.847	0.000	60.8	35.037	Surcharged
SW21	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.67 9	22.25 4	22.377	0.123	24.5	0.177	0.000	22.5	10.633	OK
SW17	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.51 5	21.21 1	21.894	0.683	74.7	1.207	0.000	10.7	41.663	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05				Date: 03/06/2025							
Report Details: Type: Junctions Summary Storm Phase: Existing SW				Designed by:	Checked by:	Approved By:					
				AJe	RR	NB					
				Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN							

SW18	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.28 1	21.93 1	23.281	1.350	61.9	2.139	0.207	49.3	28.410	Flood
SW09 (FC)	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.53 2	21.84 8	22.334	0.486	9.2	0.550	0.000	9.3	11.295	Surcharged
SW25	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.84 0	20.97 5	22.000	1.025	68.8	1.811	0.000	64.8	51.039	Surcharged
SW40	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.37 1	22.24 6	23.374	1.128	121.8	4.160	2.550	75.8	52.743	Flood
SW41	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.34 5	22.04 6	22.714	0.668	75.8	0.957	0.000	77.4	52.254	Surcharged
SPEL ESR60/C1	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.23 9	21.01 2	21.591	0.579	398.3	0.655	0.000	395.2	233.632	Surcharged
SW43	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.37 1	21.44 4	22.159	0.715	82.6	0.809	0.000	81.4	50.592	Surcharged
SW42	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.12 3	21.69 8	23.124	1.426	118.0	3.513	1.474	82.6	51.066	Flood
SW07	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.50 1	22.13 1	23.504	1.373	144.7	5.369	3.408	94.5	66.055	Flood
SW08	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.50 9	21.93 8	22.588	0.650	93.4	0.930	0.000	94.6	57.731	Surcharged
SW15	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.57 8	21.85 3	22.574	0.721	36.8	0.815	0.000	31.8	15.997	Surcharged
SW10	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.59 0	22.16 5	23.353	1.188	47.4	1.700	0.000	35.4	20.618	Flood Risk
SW11	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.47 8	22.00 5	23.227	1.222	81.4	1.749	0.000	69.9	40.041	Flood Risk
SW04	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.08 7	21.43 7	22.518	1.081	90.5	1.222	0.000	85.3	39.100	Surcharged
SW26	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.25 1	21.67 3	22.700	1.027	25.8	1.470	0.000	17.0	11.157	Surcharged
SW28	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.97 8	21.42 3	22.597	1.174	167.8	1.680	0.000	159.4	80.190	Surcharged
SW29	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.76 5	21.38 3	22.297	0.914	159.4	1.307	0.000	153.4	79.617	Surcharged
SPEL P080/1C/ES R	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.93 8	21.25 7	22.075	0.818	153.4	0.925	0.000	149.8	79.145	Surcharged
SW30	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.85 1	21.23 2	21.862	0.630	221.6	1.113	0.000	218.2	114.718	Surcharged
SW27	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.01 1	21.56 5	22.815	1.250	94.4	1.788	0.000	84.6	40.970	Flood Risk
SW33 (FC)	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.76 5	21.20 0	21.572	0.372	12.3	0.657	0.000	12.4	12.884	Surcharged
SW31	FSR: 100 years: +40 %: 0.25 hrs: Winter	22.79 2	21.56 5	22.792	1.227	91.1	2.015	0.260	75.2	42.194	Flood
SW32	FSR: 100 years: +40 %: 0.25 hrs: Summer	22.81 9	21.41 5	22.240	0.825	77.4	1.181	0.000	71.8	36.829	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025				
		Designed by: AJe	Checked by: RR	Approved By: NB		
Report Details: Type: Junctions Summary Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN				

SW23	FSR: 100 years: +40 %: 0.25 hrs: Winter	23.84 9	22.42 4	23.851	1.427	109.2	4.139	2.100	73.1	49.902	Flood
SW24	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.20 8	21.66 8	22.821	1.153	76.0	1.650	0.000	68.8	44.293	Surcharged
SPEL P100/1C/ES R	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.00 0	20.94 4	21.647	0.703	232.1	0.795	0.000	230.8	130.072	Surcharged
SW34	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.19 0	21.83 8	23.191	1.353	135.4	2.749	0.814	97.7	58.498	Flood
SW35	FSR: 100 years: +40 %: 0.25 hrs: Summer	23.15 0	21.62 0	22.817	1.197	97.7	1.712	0.000	94.4	58.494	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025			
		Designed by: AJe	Checked by: RR		Approved By: NB
Report Details: Type: Stormwater Controls Summary Storm Phase: Existing SW		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN			



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. US Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Tank	FSR: 100 years: +40 %: 1.00 hrs: Winter	21.510	21.510	0.610	0.610	149.4	173.941	0.000	0.000	23.7	132.781	24.220	OK
Tank (1)	FSR: 100 years: +40 %: 2.00 hrs: Winter	22.342	22.342	1.092	1.092	80.5	207.427	0.000	0.000	9.6	76.751	9.476	OK
Tank (2)	FSR: 100 years: +40 %: 2.00 hrs: Winter	21.837	21.837	0.837	0.837	159.7	365.898	0.000	0.000	54.0	418.422	30.409	OK
Tank (3)	FSR: 100 years: +40 %: 2.00 hrs: Winter	21.867	21.867	0.667	0.667	84.9	215.294	0.000	0.000	12.5	119.690	17.001	OK
Tank (4)	FSR: 100 years: +40 %: 2.00 hrs: Winter	22.569	22.569	0.669	0.669	44.5	83.835	0.000	0.000	9.7	110.790	17.155	OK

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05	Date: 03/06/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Existing SW	AJe	RR	NB	
Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN				



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe45	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH246	MH123	23.900	22.421	0.450	205.718	2.0	1.67	316.5	Surcharged
Pipe46	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH123	MH72	23.258	22.117	0.525	208.658	1.3	2.13	291.5	Surcharged
Pipe48	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	MH73	MH80	22.910	21.887	0.600	950.653	2.3	1.67	651.4	Surcharged
Outfall 1	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	MH80	Outfall 1	23.070	21.648	0.600	948.007	2.3	1.62	644.6	Surcharged
Pipe52	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH81	MH80	23.030	21.593	0.300	0.002	0.1	0.02	7.1	OK
Pipe55	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH98	MH79	21.845	21.591	0.450	0.000	0.2	0.12	17.6	Flood Risk
Pipe56	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH79	MH80	23.140	21.592	0.525	0.000	0.1	0.08	25.3	Surcharged
Pipe57	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	Ex. MH06	MH96	23.900	22.509	0.600	482.271	1.3	0.8	361.2	Surcharged
Pipe58	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	MH96	MH72	23.150	22.265	0.600	481.514	1.3	0.88	360.8	Surcharged
Pipe59	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	MH72	MH73	22.880	22.071	0.600	842.764	2.4	0.84	692.5	Surcharged
Pipe77	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH254	MH315	23.400	23.404	0.225	0.042	0.9	0.61	21.0	Flood
Pipe87	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH91	MH315	23.910	23.948	0.225	104.962	2.3	2.86	91.6	Flood
Pipe54 (2)	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH84	MH98	24.550	22.320	0.235	0.000	0.0	0	0.0	OK
Pipe191	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	MH315	Ex. MH06	23.561	23.436	0.225	154.691	2.4	1.01	89.8	Flood Risk

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		AJe	RR			NB
		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN				

Pipe195	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (9)	MH207	23.279	20.954	0.109	0.007	0.2	0	0.0	OK
Pipe197	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (10)	MH207	21.025	21.291	0.375	99.943	1.9	1.6	208.9	Surcharged
Pipe198	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH207	MH208	23.140	21.013	0.375	99.969	1.8	0.52	200.2	Surcharged
Pipe206	FSR: 100 years: +40 %: 1.00 hrs: Winter	Pipe	MH214	MH117	22.500	22.597	0.150	106.797	0.9	1.54	15.8	Flood
Pipe50 (1)	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH132	MH97	23.760	22.085	0.000	0.000	0.0	0	0.0	OK
Pipe239	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (16)	MH91	23.890	28.592	0.225	117.564	5.8	6.67	232.0	Surcharged
Ex. 12.002	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW49	MH73	23.995	21.844	0.225	20.810	0.8	0.84	24.1	Surcharged
Pipe68 (1)	FSR: 100 years: +40 %: 1.00 hrs: Winter	Pipe	MH117	SW47	22.410	22.136	0.150	105.499	0.9	1.74	15.8	Flood Risk
Pipe272	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (18)	MH247	23.709	23.323	0.225	0.003	0.4	0.41	14.4	Surcharged
Pipe273	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH247	MH246	23.900	23.341	0.300	103.669	2.2	2.39	152.7	Surcharged
Pipe274	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	Ex. MH07	Ex. MH06	23.900	22.587	0.600	226.311	1.0	0.57	211.0	Surcharged
Pipe275	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (19)	MH247	23.890	29.142	0.225	104.388	4.8	5.54	192.3	Surcharged
Pipe276	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (20)	MH247	23.168	23.328	0.225	0.000	0.4	0.44	15.4	Surcharged
Pipe277	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (21)	MH246	23.890	28.436	0.225	100.294	4.7	5.43	187.1	Surcharged
Pipe278	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (22)	MH246	23.890	22.404	0.225	0.011	0.2	0.22	7.6	Surcharged
Pipe280	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (24)	MH246	23.798	22.402	0.225	0.001	0.2	0.22	7.5	Surcharged
Pipe291	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH290	MH265	24.929	21.150	0.000	0.000	0.0	0	0.0	OK

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Pipe293	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH265	MH208	22.370	20.911	0.196	0.028	0.2	0.01	0.2	OK
Outfall 2	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	MH208	Outfall 2	23.230	20.871	0.375	128.322	1.8	1.12	197.4	Surcharged
Pipe296	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	Simple Junction (27)	MH248	23.436	23.234	0.225	28.400	1.4	1.11	57.2	Surcharged
Pipe297	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (28)	MH248	23.890	24.786	0.225	51.074	2.3	1.93	93.0	Surcharged
Pipe298	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH248	Ex. MH07	23.900	22.585	0.225	74.364	3.5	1.92	140.4	Surcharged
Pipe299	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (29)	MH257	23.774	24.722	0.225	32.088	1.6	1.87	64.7	Surcharged
Pipe300	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Simple Junction (30)	MH257	23.890	26.310	0.225	56.472	2.7	3.12	107.6	Surcharged
Pipe301	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH257	Ex. MH07	23.900	23.909	0.225	79.360	2.8	1.91	111.6	Flood
Pipe51 (1) (1)	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	MH97	MH81	23.130	21.870	0.101	0.000	0.0	0	0.0	OK
1.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW02	SW03	23.266	22.750	0.150	10.330	1.1	1.1	19.5	Surcharged
1.002	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW03	SW05	23.117	22.671	0.300	92.256	2.1	2.02	149.2	Surcharged
1.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW01	SW03	23.100	23.103	0.225	57.777	2.8	1.47	110.2	Flood
4.000	FSR: 100 years: +40 %: 0.50 hrs: Summer	Pipe	SW13	SW14	23.594	22.473	0.150	7.827	0.7	0.51	9.1	Surcharged
1.006	FSR: 100 years: +40 %: 2.00 hrs: Winter	Pipe	SW06 (FC)	MH208	23.150	21.490	0.099	262.201	1.4	0.36	23.0	Surcharged
3.005	FSR: 100 years: +40 %: 0.50 hrs: Summer	Pipe	SW22 (FC)	MH123	23.391	22.069	0.225	17.452	0.5	0.16	12.5	Surcharged
1.005	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	Tank	SW06 (FC)	22.853	21.334	0.300	31.186	0.5	0.33	24.0	Surcharged
3.002	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW12	Tank (1)	23.493	22.289	0.300	100.769	2.5	2.45	180.1	Surcharged

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12.000	FSR: 100 years: +40 %: 0.50 hrs: Summer	Pipe	SW47	SW48	23.045	21.938	0.225	50.548	0.8	0.63	17.6	Surcharged
9.002	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW37	SW38	23.400	22.690	0.375	110.895	1.7	1.62	186.6	Surcharged
9.003	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW38	SW44	23.464	22.181	0.375	107.611	1.6	1.58	182.1	Surcharged
9.004	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW44	SW45	23.501	21.974	0.450	143.277	1.6	1.34	252.0	Surcharged
9.003a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW39	SW44	23.401	22.782	0.225	37.401	1.8	1.06	73.1	Surcharged
8.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW19	SW20	23.423	22.039	0.225	27.312	1.2	1.12	47.4	Surcharged
9.008	FSR: 100 years: +40 %: 0.50 hrs: Summer	Pipe	SW46 (FC)	MH73	23.289	21.703	0.300	67.395	1.0	0.7	55.3	Surcharged
9.007	FSR: 100 years: +40 %: 2.00 hrs: Winter	Pipe	Tank (2)	SW46 (FC)	23.289	21.837	0.300	418.422	0.8	0.74	54.0	Surcharged
12.001	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW48	SW49	23.280	21.918	0.225	22.248	0.9	0.76	22.4	Surcharged
4.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW14	SW16	23.546	22.699	0.225	21.698	0.9	0.82	34.7	Surcharged
4.002	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW16	SW12	23.585	22.537	0.225	37.902	1.6	1.51	63.8	Surcharged
8.002	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW20	SW17	23.544	21.894	0.225	23.169	1.5	0.41	43.1	Surcharged
3.004	FSR: 100 years: +40 %: 2.00 hrs: Winter	Pipe	SW17	SW22 (FC)	23.515	22.341	0.300	129.982	0.4	0.15	11.3	Surcharged
3.003a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW21	SW17	23.679	22.382	0.124	11.911	1.1	0.56	23.8	OK
3.003	FSR: 100 years: +40 %: 6.00 hrs: Winter	Pipe	Tank (1)	SW17	23.400	22.245	0.300	261.267	0.4	0.14	10.2	Surcharged
8.000	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW18	SW19	23.281	23.281	0.150	28.376	2.8	2.78	49.3	Flood
5.002	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW25	MH72	22.840	22.089	0.300	47.701	0.9	0.94	65.4	Surcharged

Project: 100.23083 Sovereign Distillery Phase 2 Proposed Drainage Rev P05		Date: 03/06/2025				
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		AJe	RR			NB
		Company Address: Adept Consulting Engineers 7 St James Square, 4th Floor Manchester, M2 6DN				

2.003	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	SW09 (FC)	Ex. MH06	23.532	22.512	0.225	18.915	0.8	0.27	11.6	Surcharged
10.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW40	SW41	23.371	23.374	0.225	52.743	1.9	1.79	75.8	Flood
10.001	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW41	SW45	23.345	22.714	0.225	52.254	1.9	1.13	77.4	Surcharged
9.005	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW45	SPEL ESR60/ C1	23.367	21.879	0.450	242.665	2.5	2.17	403.7	Surcharged
11.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW42	SW43	23.123	23.124	0.225	51.066	2.1	1.95	82.6	Flood
11.001	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW43	SW45	23.371	22.159	0.225	50.592	2.0	1.66	81.4	Surcharged
9.006	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SPEL ESR60/ C1	Tank (2)	23.239	21.606	0.450	242.023	3.3	2.2	404.4	Surcharged
2.000	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW07	SW08	23.501	23.504	0.225	65.899	2.4	2.23	94.5	Flood
2.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW08	Tank (4)	23.509	22.618	0.225	64.563	2.4	2.33	95.6	Surcharged
2.002	FSR: 100 years: +40 %: 1.00 hrs: Winter	Pipe	Tank (4)	SW09 (FC)	23.450	22.562	0.225	53.238	0.3	0.21	10.0	Surcharged
4.001a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW15	SW16	23.578	22.635	0.225	17.676	0.8	0.83	33.8	Surcharged
1.002a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW04	SW05	23.087	22.587	0.225	43.820	2.3	1.36	90.1	Surcharged
3.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW10	SW11	23.590	23.353	0.225	20.618	0.9	0.84	35.4	Flood Risk
3.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW11	SW12	23.478	23.268	0.225	42.347	1.8	1.65	70.5	Flood Risk
5.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW23	SW24	23.849	23.849	0.225	44.613	1.9	1.29	76.0	Flood
5.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW24	SW25	23.208	22.920	0.225	49.564	1.7	1.17	69.3	Flood Risk
6.006	FSR: 100 years: +40 %: 0.50 hrs: Winter	Pipe	SW33 (FC)	SW25	22.765	21.724	0.225	12.482	1.1	0.24	13.3	Surcharged

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7.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW31	SW32	22.792	22.792	0.225	37.598	1.9	1.83	77.4	Flood
7.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW32	SW30	22.819	22.287	0.225	40.999	1.9	1.74	73.7	Surcharged
6.004	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW30	Tank (3)	22.851	21.899	0.300	127.594	3.2	3.21	229.6	Surcharged
6.000	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW26	SW28	23.251	22.829	0.150	12.471	1.0	1.02	18.1	Surcharged
6.001	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW28	SW29	22.978	22.715	0.300	89.382	2.4	2.28	168.2	Flood Risk
6.002	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW29	SPEL P080/1C /ESR	22.765	22.383	0.300	88.518	2.3	2.17	162.2	Surcharged
6.003	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SPEL P080/1C /ESR	SW30	22.938	22.137	0.300	87.918	2.2	2.16	158.8	Surcharged
6.000a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW27	SW28	23.011	22.953	0.300	45.792	1.3	1.21	89.2	Flood Risk
1.003	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW05	SPEL P100/1C /ESR	23.087	22.075	0.300	142.668	3.3	3.14	234.9	Surcharged
1.004	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SPEL P100/1C /ESR	Tank	23.000	21.658	0.300	141.997	3.3	3.31	233.8	Surcharged
6.005	FSR: 100 years: +40 %: 3.00 hrs: Winter	Pipe	Tank (3)	SW33 (FC)	22.670	21.834	0.225	205.286	0.3	0.42	12.6	Surcharged
9.001	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW35	SW37	23.150	22.817	0.300	58.494	1.3	1.28	94.4	Surcharged
9.000	FSR: 100 years: +40 %: 0.25 hrs: Summer	Pipe	SW34	SW35	23.190	23.191	0.300	58.498	1.4	1.32	97.7	Flood
9.001a	FSR: 100 years: +40 %: 0.25 hrs: Winter	Pipe	SW36	SW37	23.486	23.410	0.225	33.099	1.5	1.26	59.3	Flood Risk