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Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.513	4-8	0.798

Total Area Contributing (ha) = 1.311

Total Pipe Volume (m³) = 30.856

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Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
1.000	2.500	0.010	250.0	0.603	4.00	0.0	0.600	o	450	Pipe/Conduit
1.001	20.000	0.081	246.9	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
1.002	36.000	0.146	246.6	0.045	0.00	0.0	0.600	o	225	Pipe/Conduit
1.003	22.700	0.091	249.5	0.052	0.00	0.0	0.600	o	225	Pipe/Conduit
1.004	74.800	0.508	147.2	0.270	0.00	0.0	0.600	o	450	Pipe/Conduit
1.005	10.000	0.116	86.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
2.000	92.900	0.372	249.7	0.142	4.00	0.0	0.600	o	300	Pipe/Conduit
2.001	15.440	0.062	249.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
2.002	8.000	0.032	250.0	0.199	0.00	0.0	0.600	o	300	Pipe/Conduit
2.003	90.869	0.592	153.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
1.006	22.000	0.146	150.7	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
1.000	5.320	0.603	0.0	1.28	203.8
1.001	5.270	0.603	0.0	0.83	32.9
1.002	5.189	0.648	0.0	0.83	32.9
1.003	5.043	0.700	0.0	0.82	32.7
1.004	4.952	0.970	0.0	1.67	266.1
1.005	4.444	0.970	0.0	1.41	56.0
2.000	5.386	0.142	0.0	0.99	70.0
2.001	5.014	0.142	0.0	0.99	70.1
2.002	4.952	0.341	0.0	0.99	70.0
2.003	4.920	0.341	0.0	1.27	89.5
1.006	4.328	1.311	0.0	0.82	14.4

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PIPELINE SCHEDULES for Storm

Upstream Manhole


PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	450	Tank1	7.000	5.320	1.230	Open Manhole	1200
1.001	o	225	SWMH20	6.600	5.270	1.105	Open Manhole	1200
1.002	o	225	SWMH21	6.700	5.189	1.286	Open Manhole	1200
1.003	o	225	SWMH22	6.700	5.043	1.432	Open Manhole	1200
1.004	o	450	SWMH23	6.500	4.952	1.098	Open Manhole	1200
1.005	o	225	SWMH24	6.300	4.444	1.631	Open Manhole	1200
2.000	o	300	SWRE01	6.540	5.386	0.854	Open Manhole	900
2.001	o	300	SWMH02	6.250	5.014	0.936	Open Manhole	1200
2.002	o	300	SWMH03	6.250	4.952	0.998	Open Manhole	1200
2.003	o	300	SWMH04	6.250	4.920	1.030	Open Manhole	1200
1.006	o	150	SWMH05	6.300	4.328	1.822	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	2.500	250.0	SWMH20	6.600	5.310	0.840	Open Manhole	1200
1.001	20.000	246.9	SWMH21	6.700	5.189	1.286	Open Manhole	1200
1.002	36.000	246.6	SWMH22	6.700	5.043	1.432	Open Manhole	1200
1.003	22.700	249.5	SWMH23	6.500	4.952	1.323	Open Manhole	1200
1.004	74.800	147.2	SWMH24	6.300	4.444	1.406	Open Manhole	1200
1.005	10.000	86.2	SWMH05	6.300	4.328	1.747	Open Manhole	1200
2.000	92.900	249.7	SWMH02	6.250	5.014	0.936	Open Manhole	1200
2.001	15.440	249.0	SWMH03	6.250	4.952	0.998	Open Manhole	1200
2.002	8.000	250.0	SWMH04	6.250	4.920	1.030	Open Manhole	1200
2.003	90.869	153.5	SWMH05	6.300	4.328	1.672	Open Manhole	1200
1.006	22.000	150.7	SWMH06	6.300	4.182	1.968	Open Manhole	1200

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.006	SWMH06	6.300	4.182	4.182	1200	0

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	3
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Storm Duration (mins)	30
Ratio R	0.332		

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Online Controls for Storm

Orifice Manhole: SWMH20, DS/PN: 1.001, Volume (m³): 1.7

Diameter (m) 0.086 Discharge Coefficient 0.600 Invert Level (m) 5.270

Orifice Manhole: SWMH24, DS/PN: 1.005, Volume (m³): 13.8

Diameter (m) 0.045 Discharge Coefficient 0.600 Invert Level (m) 4.444


Hydro-Brake® Optimum Manhole: SWMH05, DS/PN: 1.006, Volume (m³): 8.9

Unit Reference	MD-SHE-0105-4700-0808-4700
Design Head (m)	0.808
Design Flow (l/s)	4.7
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	105
Invert Level (m)	4.328
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.808	4.7
Flush-Flo™	0.242	4.7
Kick-Flo®	0.537	3.9
Mean Flow over Head Range	-	4.0

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.6	1.200	5.6	3.000	8.7	7.000	13.0
0.200	4.7	1.400	6.1	3.500	9.3	7.500	13.4
0.300	4.7	1.600	6.5	4.000	9.9	8.000	13.8
0.400	4.5	1.800	6.8	4.500	10.5	8.500	14.2
0.500	4.2	2.000	7.2	5.000	11.1	9.000	14.6
0.600	4.1	2.200	7.5	5.500	11.6	9.500	15.0
0.800	4.7	2.400	7.8	6.000	12.1		
1.000	5.2	2.600	8.1	6.500	12.5		

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Storage Structures for Storm

Cellular Storage Manhole: Tank1, DS/PN: 1.000

Invert Level (m) 5.320 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	690.0	690.0	0.500	0.0	753.2
0.400	690.0	753.2			

Cellular Storage Manhole: SWMH24, DS/PN: 1.005


Invert Level (m) 4.540 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	568.0	568.0	0.900	0.0	694.4
0.800	568.0	694.4			

Cellular Storage Manhole: SWMH05, DS/PN: 1.006

Invert Level (m) 4.336 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	350.0	350.0	0.900	0.0	441.2
0.800	350.0	441.2			

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1 year Return Period 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 2.000
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 3
Number of Online Controls 3 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.332
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 18.000 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) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	Tank1	360 Winter	1	+0%	100/180 Winter			
1.001	SWMH20	360 Winter	1	+0%	30/60 Summer			
1.002	SWMH21	30 Winter	1	+0%	100/15 Summer			
1.003	SWMH22	15 Winter	1	+0%	100/15 Summer			
1.004	SWMH23	15 Winter	1	+0%	100/360 Winter			
1.005	SWMH24	960 Winter	1	+0%	1/180 Winter			
2.000	SWRE01	15 Winter	1	+0%	100/15 Summer			
2.001	SWMH02	15 Winter	1	+0%	30/15 Summer	100/15 Winter		
2.002	SWMH03	15 Winter	1	+0%	30/15 Summer			
2.003	SWMH04	15 Winter	1	+0%	100/15 Summer			
1.006	SWMH05	360 Winter	1	+0%	30/30 Summer			

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

PN	US/MH Name	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
		Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)			
1.000	Tank1	5.412	-0.358	0.000	0.04	191	5.0	OK
1.001	SWMH20	5.414	-0.081	0.000	0.16		4.8	OK
1.002	SWMH21	5.257	-0.157	0.000	0.20		6.1	OK
1.003	SWMH22	5.135	-0.133	0.000	0.35		10.5	OK
1.004	SWMH23	5.066	-0.336	0.000	0.14		35.5	OK
1.005	SWMH24	4.772	0.103	0.000	0.05	679	2.3	SURCHARGED
2.000	SWRE01	5.490	-0.196	0.000	0.23		15.9	OK
2.001	SWMH02	5.149	-0.165	0.000	0.26		15.5	OK
2.002	SWMH03	5.129	-0.123	0.000	0.64		33.6	OK
2.003	SWMH04	5.049	-0.171	0.000	0.38		33.2	OK
1.006	SWMH05	4.461	-0.017	0.000	0.32	438	4.4	OK

PN	US/MH Name	Level Exceeded
1.000	Tank1	
1.001	SWMH20	
1.002	SWMH21	
1.003	SWMH22	
1.004	SWMH23	
1.005	SWMH24	
2.000	SWRE01	
2.001	SWMH02	1
2.002	SWMH03	
2.003	SWMH04	
1.006	SWMH05	

30 year Return Period 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 * 10m ³ /ha Storage	2.000
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	3
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.332
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	18.000	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)		1, 30, 100
Climate Change (%)		0, 0, 40


PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	Tank1	240 Winter	30	+0%	100/180 Winter			
1.001	SWMH20	240 Winter	30	+0%	30/60 Summer			
1.002	SWMH21	15 Winter	30	+0%	100/15 Summer			
1.003	SWMH22	15 Winter	30	+0%	100/15 Summer			
1.004	SWMH23	15 Winter	30	+0%	100/360 Winter			
1.005	SWMH24	1440 Winter	30	+0%	1/180 Winter			
2.000	SWRE01	15 Winter	30	+0%	100/15 Summer			
2.001	SWMH02	15 Winter	30	+0%	30/15 Summer	100/15 Winter		
2.002	SWMH03	15 Winter	30	+0%	30/15 Summer			
2.003	SWMH04	15 Winter	30	+0%	100/15 Summer			
1.006	SWMH05	480 Winter	30	+0%	30/30 Summer			

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Storm

PN	US/MH Name	Water Surcharged Flooded				Half Drain Time (mins)	Pipe Flow (l/s)	Status
		Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)			
1.000	Tank1	5.549	-0.221	0.000	0.06	235	8.0	OK
1.001	SWMH20	5.583	0.088	0.000	0.25		7.6	SURCHARGED
1.002	SWMH21	5.296	-0.118	0.000	0.44		13.7	OK
1.003	SWMH22	5.241	-0.027	0.000	0.94		28.3	OK
1.004	SWMH23	5.160	-0.242	0.000	0.42		103.5	OK
1.005	SWMH24	5.156	0.487	0.000	0.07	1140	3.3	SURCHARGED
2.000	SWRE01	5.561	-0.125	0.000	0.57		38.9	OK
2.001	SWMH02	5.385	0.071	0.000	0.63		36.9	SURCHARGED
2.002	SWMH03	5.328	0.076	0.000	1.61		84.1	SURCHARGED
2.003	SWMH04	5.156	-0.064	0.000	0.91		78.6	OK
1.006	SWMH05	4.634	0.156	0.000	0.34	507	4.7	SURCHARGED

PN	US/MH Name	Level Exceeded
1.000	Tank1	
1.001	SWMH20	
1.002	SWMH21	
1.003	SWMH22	
1.004	SWMH23	
1.005	SWMH24	
2.000	SWRE01	
2.001	SWMH02	1
2.002	SWMH03	
2.003	SWMH04	
1.006	SWMH05	

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100 year Return Period 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 * 10m ³ /ha Storage	2.000
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	3
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.332
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.000	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)			1, 30, 100
Climate Change (%)			0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	Tank1	360 Winter	100	+40%	100/180 Winter			
1.001	SWMH20	360 Winter	100	+40%	30/60 Summer			
1.002	SWMH21	1440 Winter	100	+40%	100/15 Summer			
1.003	SWMH22	1440 Winter	100	+40%	100/15 Summer			
1.004	SWMH23	1440 Winter	100	+40%	100/360 Winter			
1.005	SWMH24	1440 Winter	100	+40%	1/180 Winter			
2.000	SWRE01	15 Winter	100	+40%	100/15 Summer			
2.001	SWMH02	15 Winter	100	+40%	30/15 Summer	100/15 Winter		
2.002	SWMH03	15 Winter	100	+40%	30/15 Summer			
2.003	SWMH04	15 Winter	100	+40%	100/15 Summer			
1.006	SWMH05	1440 Winter	100	+40%	30/30 Summer			

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
		Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)				
1.000	Tank1	6.529	0.759	0.000	0.13			420	16.6	SURCHARGED
1.001	SWMH20	6.530	1.035	0.000	0.54				16.2	FLOOD RISK
1.002	SWMH21	6.204	0.790	0.000	0.29				9.0	SURCHARGED
1.003	SWMH22	6.196	0.928	0.000	0.34				10.3	SURCHARGED
1.004	SWMH23	6.189	0.787	0.000	0.07				18.2	SURCHARGED
1.005	SWMH24	6.186	1.517	0.000	0.10				4.5	FLOOD RISK
2.000	SWRE01	6.518	0.832	0.000	0.82				55.2	FLOOD RISK
2.001	SWMH02	6.250	0.936	0.178	0.98				57.7	FLOOD
2.002	SWMH03	6.197	0.945	0.000	2.44				127.6	FLOOD RISK
2.003	SWMH04	5.916	0.696	0.000	1.42				123.2	SURCHARGED
1.006	SWMH05	5.073	0.595	0.000	0.34				4.7	SURCHARGED

PN	US/MH Name	Level Exceeded
1.000	Tank1	
1.001	SWMH20	
1.002	SWMH21	
1.003	SWMH22	
1.004	SWMH23	
1.005	SWMH24	
2.000	SWRE01	
2.001	SWMH02	1
2.002	SWMH03	
2.003	SWMH04	
1.006	SWMH05	