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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD	David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC	
Date 30/12/2021 File P3748 - PHASE 1_3_4 COM...	Designed by TC Checked by TC	
Micro Drainage	Network 2020.1	

Time Area Diagram for Storm

<b>Time (mins)</b>	<b>Area (ha)</b>	<b>Time (mins)</b>	<b>Area (ha)</b>
0-4	0.530	4-8	0.215

Total Area Contributing (ha) = 0.745

Total Pipe Volume (m<sup>3</sup>) = 13.789

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Micro Drainage		Network 2020.1



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	32.375	0.890	36.4	0.008	5.00	0.0	0.600	o	100	Pipe/Conduit
2.000	11.869	0.177	67.1	0.032	5.00	0.0	0.600	o	150	Pipe/Conduit
2.001	20.866	0.313	66.7	0.027	0.00	0.0	0.600	o	150	Pipe/Conduit
2.002	7.583	0.100	75.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit
1.001	18.765	0.305	61.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit
1.002	8.851	0.220	40.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
3.000	47.867	2.535	18.9	0.007	5.00	0.0	0.600	o	150	Pipe/Conduit
3.001	11.139	1.510	7.4	0.136	0.00	0.0	0.600	o	225	Pipe/Conduit
1.003	5.423	0.060	90.4	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
1.004	5.004	0.200	25.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
1.005	14.708	0.456	32.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
4.000	17.659	1.766	10.0	0.225	5.00	0.0	0.600	o	225	Pipe/Conduit
1.006	15.788	1.504	10.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
1.007	13.377	0.290	46.1	0.137	0.00	0.0	0.600	o	300	Pipe/Conduit
5.000	23.673	0.237	99.9	0.008	5.00	0.0	0.600	o	225	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	124.700	0.008	0.0	1.28	10.1
2.000	124.350	0.032	0.0	1.23	21.7
2.001	124.173	0.059	0.0	1.23	21.8
2.002	123.860	0.059	0.0	1.16	20.4
1.001	123.760	0.067	0.0	1.28	22.7
1.002	123.380	0.067	0.0	2.07	82.2
3.000	127.280	0.007	0.0	2.33	41.2
3.001	124.670	0.143	0.0	4.85	192.8
1.003	123.160	0.210	0.0	1.38	54.7
1.004	123.100	0.210	0.0	2.63	104.4
1.005	121.900	0.210	0.0	2.31	91.9
4.000	123.210	0.225	0.0	4.16	165.5
1.006	121.369	0.435	0.0	4.88	344.9
1.007	119.865	0.572	0.0	2.32	164.1
5.000	121.750	0.008	0.0	1.31	52.0

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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
5.001	48.023	0.600	80.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit
6.000	29.561	1.935	15.3	0.051	5.00	0.0	0.600	o	150	Pipe/Conduit
1.008	15.896	0.040	397.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit
7.000	8.799	0.790	11.1	0.114	5.00	0.0	0.600	o	300	Pipe/Conduit
1.009	17.823	0.145	122.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
5.001	121.513	0.008	0.0	1.46	58.2
6.000	121.900	0.051	0.0	2.59	45.8
1.008	118.100	0.631	0.0	0.78	55.3
7.000	118.850	0.114	0.0	4.74	334.8
1.009	118.060	0.745	0.0	1.63	180.4



Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
RE	126.750	2.050	Junction		1.000	124.700	100				
RE	125.000	0.650	Junction		2.000	124.350	150				
JUNC	125.100	0.927	Junction		2.001	124.173	150	2.000	124.173	150	
MHS03	124.950	1.090	Open Manhole	750	2.002	123.860	150	2.001	123.860	150	
MHS04	125.100	1.340	Open Manhole	600	1.001	123.760	150	1.000	123.810	100	
								2.002	123.760	150	
MHS04A	125.100	1.720	Open Manhole	600	1.002	123.380	225	1.001	123.455	150	
MH S06	128.510	1.230	Open Manhole	1200	3.000	127.280	150				
MHS07	125.850	1.180	Open Manhole	1200	3.001	124.670	225	3.000	124.745	150	
MHS08	124.720	1.560	Open Manhole	1200	1.003	123.160	225	1.002	123.160	225	
								3.001	123.160	225	
MHS09	124.720	1.620	Open Manhole	1200	1.004	123.100	225	1.003	123.100	225	
MHS10	124.851	2.951	Open Manhole	1800	1.005	121.900	225	1.004	122.900	225	1000
EXMH	125.760	2.550	Open Manhole	1200	4.000	123.210	225				
MHS11	123.200	1.831	Open Manhole	1200	1.006	121.369	300	1.005	121.444	225	
								4.000	121.444	225	
MHS12	122.500	2.635	Open Manhole	1500	1.007	119.865	300	1.006	119.865	300	
MHS15	122.650	0.900	Open Manhole	1200	5.000	121.750	225				
MHS16	124.020	2.507	Open Manhole	1200	5.001	121.513	225	5.000	121.513	225	
MHS17	122.600	0.700	Open Manhole	600	6.000	121.900	150				
MHS13	122.650	4.550	Open Manhole	1800	1.008	118.100	300	1.007	119.575	300	1475
								5.001	120.913	225	2738
								6.000	119.965	150	1715
MHS18	120.350	1.500	Open Manhole	1200	7.000	118.850	300				
MHS14	120.350	2.290	Open Manhole	2100	1.009	118.060	375	1.008	118.060	300	
								7.000	118.060	300	
	119.100	1.185	Open Manhole	0		OUTFALL		1.009	117.915	375	

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

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	o	100	RE	126.750	124.700	1.950	Junction		
2.000	o	150	RE	125.000	124.350	0.500	Junction		
2.001	o	150	JUNC	125.100	124.173	0.777	Junction		
2.002	o	150	MHS03	124.950	123.860	0.940	Open Manhole		750
1.001	o	150	MHS04	125.100	123.760	1.190	Open Manhole		600
1.002	o	225	MHS04A	125.100	123.380	1.495	Open Manhole		600
3.000	o	150	MH S06	128.510	127.280	1.080	Open Manhole		1200
3.001	o	225	MHS07	125.850	124.670	0.955	Open Manhole		1200
1.003	o	225	MHS08	124.720	123.160	1.335	Open Manhole		1200
1.004	o	225	MHS09	124.720	123.100	1.395	Open Manhole		1200
1.005	o	225	MHS10	124.851	121.900	2.726	Open Manhole		1800
4.000	o	225	EXMH	125.760	123.210	2.325	Open Manhole		1200
1.006	o	300	MHS11	123.200	121.369	1.531	Open Manhole		1200
1.007	o	300	MHS12	122.500	119.865	2.335	Open Manhole		1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	32.375	36.4	MHS04	125.100	123.810	1.190	Open Manhole		600
2.000	11.869	67.1	JUNC	125.100	124.173	0.777	Junction		
2.001	20.866	66.7	MHS03	124.950	123.860	0.940	Open Manhole		750
2.002	7.583	75.8	MHS04	125.100	123.760	1.190	Open Manhole		600
1.001	18.765	61.5	MHS04A	125.100	123.455	1.495	Open Manhole		600
1.002	8.851	40.2	MHS08	124.720	123.160	1.335	Open Manhole		1200
3.000	47.867	18.9	MHS07	125.850	124.745	0.955	Open Manhole		1200
3.001	11.139	7.4	MHS08	124.720	123.160	1.335	Open Manhole		1200
1.003	5.423	90.4	MHS09	124.720	123.100	1.395	Open Manhole		1200
1.004	5.004	25.0	MHS10	124.851	122.900	1.726	Open Manhole		1800
1.005	14.708	32.3	MHS11	123.200	121.444	1.531	Open Manhole		1200
4.000	17.659	10.0	MHS11	123.200	121.444	1.531	Open Manhole		1200
1.006	15.788	10.5	MHS12	122.500	119.865	2.335	Open Manhole		1500
1.007	13.377	46.1	MHS13	122.650	119.575	2.775	Open Manhole		1800

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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)
5.000	o	225	MHS15	122.650	121.750	0.675	Open Manhole	1200
5.001	o	225	MHS16	124.020	121.513	2.282	Open Manhole	1200
6.000	o	150	MHS17	122.600	121.900	0.550	Open Manhole	600
1.008	o	300	MHS13	122.650	118.100	4.250	Open Manhole	1800
7.000	o	300	MHS18	120.350	118.850	1.200	Open Manhole	1200
1.009	o	375	MHS14	120.350	118.060	1.915	Open Manhole	2100

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)
5.000	23.673	99.9	MHS16	124.020	121.513	2.282	Open Manhole	1200
5.001	48.023	80.0	MHS13	122.650	120.913	1.512	Open Manhole	1800
6.000	29.561	15.3	MHS13	122.650	119.965	2.535	Open Manhole	1800
1.008	15.896	397.4	MHS14	120.350	118.060	1.990	Open Manhole	2100
7.000	8.799	11.1	MHS14	120.350	118.060	1.990	Open Manhole	2100
1.009	17.823	122.9		119.100	117.915	0.810	Open Manhole	0

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)
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1.009		119.100	117.915	0.000	0	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 <sup>3</sup> /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 Offline Controls	0
Number of Online Controls	1	Number of Storage Structures	1

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Simulation Criteria for Storm

Number of Time/Area Diagrams 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)	19.000	Storm Duration (mins)	30
Ratio R	0.312		

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Storage Structures for Storm

Cellular Storage Manhole: MHS13, DS/PN: 1.008

Invert Level (m) 118.100 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 <sup>2</sup> )	Inf. Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Inf. Area (m <sup>2</sup> )
0.000	132.0	0.0	1.201	0.0	0.0
1.200	132.0	0.0			

Volume Summary (Static)

Length Calculations based on Centre-Centre

Pipe Number	USMH Name	Manhole Volume (m <sup>3</sup> )	Pipe Volume (m <sup>3</sup> )	Storage	
				Structure Volume (m <sup>3</sup> )	Total Volume (m <sup>3</sup> )
1.000	RE	0.000	0.254	0.000	0.254
2.000	RE	0.000	0.210	0.000	0.210
2.001	JUNC	0.000	0.369	0.000	0.369
2.002	MHS03	0.482	0.134	0.000	0.616
1.001	MHS04	0.379	0.332	0.000	0.710
1.002	MHS04A	0.486	0.352	0.000	0.838
3.000	MH S06	1.391	0.846	0.000	2.237
3.001	MHS07	1.335	0.443	0.000	1.777
1.003	MHS08	1.764	0.216	0.000	1.980
1.004	MHS09	1.832	0.199	0.000	2.031
1.005	MHS10	7.509	0.585	0.000	8.094
4.000	EXMH	2.884	0.702	0.000	3.586
1.006	MHS11	2.071	1.116	0.000	3.187
1.007	MHS12	4.656	0.946	0.000	5.602
5.000	MHS15	1.018	0.941	0.000	1.959
5.001	MHS16	2.835	1.909	0.000	4.745
6.000	MHS17	0.198	0.522	0.000	0.720
1.008	MHS13	11.578	1.124	150.522	163.224
7.000	MHS18	1.696	0.622	0.000	2.318
1.009	MHS14	7.932	1.968	0.000	9.900
Total		50.047	13.789	150.522	214.358

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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 \* 10m<sup>3</sup>/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 1  
Number of Online Controls 1      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 0.316  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0      DVD Status OFF  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins)      15, 30, 60, 120, 180, 240, 360, 480, 600,  
720, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	RE 15	Winter	1	+0%					124.721
2.000	RE 15	Winter	1	+0%					124.393
2.001	JUNC 15	Winter	1	+0%					124.230
2.002	MHS03 15	Winter	1	+0%	100/15	Summer			123.924
1.001	MHS04 15	Winter	1	+0%	100/15	Summer			123.822
1.002	MHS04A 15	Winter	1	+0%	100/15	Summer			123.431
3.000	MH S06 15	Winter	1	+0%					127.295
3.001	MHS07 15	Winter	1	+0%					124.716
1.003	MHS08 15	Winter	1	+0%	30/15	Summer			123.293
1.004	MHS09 15	Winter	1	+0%	100/15	Summer			123.193
1.005	MHS10 15	Winter	1	+0%	100/15	Summer			121.980
4.000	EXMH 15	Winter	1	+0%					123.276
1.006	MHS11 15	Winter	1	+0%					121.452
1.007	MHS12 15	Winter	1	+0%	30/15	Summer			120.010
5.000	MHS15 15	Winter	1	+0%					121.772
5.001	MHS16 15	Winter	1	+0%					121.531
6.000	MHS17 15	Winter	1	+0%					121.938
1.008	MHS13 30	Winter	1	+0%	30/15	Summer			118.313
7.000	MHS18 15	Winter	1	+0%	100/30	Winter			118.899
1.009	MHS14 30	Winter	1	+0%	30/15	Summer			118.269

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

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status	Level Exceeded
		Depth (m)	Volume (m <sup>3</sup> )		Time (mins)	Flow (l/s)		
1.000	RE	-0.079	0.000	0.10		1.0	OK*	
2.000	RE	-0.107	0.000	0.18		3.9	OK*	
2.001	JUNC	-0.093	0.000	0.31		6.7	OK*	
2.002	MHS03	-0.086	0.000	0.38		6.7	OK	
1.001	MHS04	-0.088	0.000	0.36		7.7	OK	
1.002	MHS04A	-0.174	0.000	0.12		7.7	OK	
3.000	MH S06	-0.135	0.000	0.02		0.8	OK	
3.001	MHS07	-0.179	0.000	0.09		14.9	OK	
1.003	MHS08	-0.092	0.000	0.65		22.5	OK	
1.004	MHS09	-0.132	0.000	0.36		22.5	OK	
1.005	MHS10	-0.145	0.000	0.28		22.4	OK	
4.000	EXMH	-0.159	0.000	0.19		27.5	OK	
1.006	MHS11	-0.217	0.000	0.17		49.0	OK	
1.007	MHS12	-0.155	0.000	0.47		63.1	OK	
5.000	MHS15	-0.203	0.000	0.02		1.0	OK	
5.001	MHS16	-0.207	0.000	0.02		1.0	OK	
6.000	MHS17	-0.112	0.000	0.14		6.2	OK	
1.008	MHS13	-0.087	0.000	0.77	19	32.4	OK	
7.000	MHS18	-0.251	0.000	0.06		13.9	OK	
1.009	MHS14	-0.166	0.000	0.25		37.0	OK	

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 2.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 2.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 2.002 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.002 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 3.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 3.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.003 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.004 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.005 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 4.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.006 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 1.007 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 5.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 5.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 6.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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Rainfall Hyetograph for 30 minute 1 year Winter I+0%  
for Pipe 1.008 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	2.523	7	9.461	13	36.489	19	30.407	25	8.420
2	6.198	8	11.520	14	41.713	20	24.537	26	8.154
3	7.763	9	14.732	15	45.419	21	19.228	27	8.150
4	8.150	10	19.228	16	45.419	22	14.732	28	7.763
5	8.154	11	24.537	17	41.713	23	11.520	29	6.198
6	8.420	12	30.407	18	36.489	24	9.461	30	2.522

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Rainfall Hyetograph for 15 minute 1 year Winter I+0%  
for Pipe 7.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.470	4	15.566	7	58.022	10	40.766	13	12.297
2	11.807	5	25.196	8	67.396	11	25.196	14	11.807
3	12.297	6	40.766	9	58.022	12	15.566	15	6.470

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 30 minute 1 year Winter I+0%  
for Pipe 1.009 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	2.523	7	9.461	13	36.489	19	30.407	25	8.420
2	6.198	8	11.520	14	41.713	20	24.537	26	8.154
3	7.763	9	14.732	15	45.419	21	19.228	27	8.150
4	8.150	10	19.228	16	45.419	22	14.732	28	7.763
5	8.154	11	24.537	17	41.713	23	11.520	29	6.198
6	8.420	12	30.407	18	36.489	24	9.461	30	2.522

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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<sup>3</sup>/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 1  
Number of Online Controls 1      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 0.316  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0      DVD Status OFF  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Duration(s) (mins)      15, 30, 60, 120, 180, 240, 360, 480, 600,  
720, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	RE	15 Winter	30	+0%					124.733
2.000	RE	15 Winter	30	+0%					124.420
2.001	JUNC	15 Winter	30	+0%					124.279
2.002	MHS03	15 Winter	30	+0%	100/15 Summer				123.999
1.001	MHS04	15 Winter	30	+0%	100/15 Summer				123.875
1.002	MHS04A	15 Winter	30	+0%	100/15 Summer				123.554
3.000	MH S06	15 Winter	30	+0%					127.302
3.001	MHS07	15 Winter	30	+0%					124.751
1.003	MHS08	15 Winter	30	+0%	30/15 Summer				123.530
1.004	MHS09	15 Winter	30	+0%	100/15 Summer				123.310
1.005	MHS10	15 Summer	30	+0%	100/15 Summer				122.050
4.000	EXMH	15 Winter	30	+0%					123.317
1.006	MHS11	15 Winter	30	+0%					121.510
1.007	MHS12	15 Winter	30	+0%	30/15 Summer				120.341
5.000	MHS15	15 Winter	30	+0%					121.782
5.001	MHS16	15 Winter	30	+0%					121.543
6.000	MHS17	15 Winter	30	+0%					121.961
1.008	MHS13	30 Winter	30	+0%	30/15 Summer				118.651
7.000	MHS18	15 Winter	30	+0%	100/30 Winter				118.928
1.009	MHS14	30 Winter	30	+0%	30/15 Summer				118.583

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

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m <sup>3</sup> )					
1.000	RE	-0.067	0.000	0.23		2.3	OK*	
2.000	RE	-0.080	0.000	0.44		9.5	OK*	
2.001	JUNC	-0.044	0.000	0.83		18.0	OK*	
2.002	MHS03	-0.011	0.000	1.00		17.6	OK	
1.001	MHS04	-0.035	0.000	0.94		20.0	OK	
1.002	MHS04A	-0.051	0.000	0.31		20.4	OK	
3.000	MH S06	-0.128	0.000	0.05		2.1	OK	
3.001	MHS07	-0.144	0.000	0.28		45.6	OK	
1.003	MHS08	0.145	0.000	1.84		63.7	SURCHARGED	
1.004	MHS09	-0.015	0.000	1.01		63.4	OK	
1.005	MHS10	-0.075	0.000	0.78		63.0	OK	
4.000	EXMH	-0.118	0.000	0.45		67.3	OK	
1.006	MHS11	-0.159	0.000	0.44		128.8	OK	
1.007	MHS12	0.176	0.000	1.26		169.9	SURCHARGED	
5.000	MHS15	-0.193	0.000	0.05		2.3	OK	
5.001	MHS16	-0.195	0.000	0.04		2.4	OK	
6.000	MHS17	-0.089	0.000	0.35		15.2	OK	
1.008	MHS13	0.251	0.000	1.57	16	65.6	SURCHARGED	
7.000	MHS18	-0.222	0.000	0.15		34.1	OK	
1.009	MHS14	0.148	0.000	0.47		70.2	SURCHARGED	

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 2.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 2.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 2.002 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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 Killingbeck Drive  
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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.002 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 3.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 3.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.003 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.004 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Micro Drainage	Network 2020.1	

Rainfall Hyetograph for 15 minute 30 year Summer I+0%  
for Pipe 1.005 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	22.377	4	33.648	7	151.418	10	76.507	13	28.029
2	24.605	5	44.654	8	235.007	11	44.654	14	24.605
3	28.029	6	76.507	9	151.418	12	33.648	15	22.377

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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 4.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.006 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 1.007 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 5.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 5.001 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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6 Killingbeck Court Killingbeck Drive Leeds LS14 6FD		David Brown P3129 Marine Assembly Combined 1 in 1, 30, 100 year Plus CC
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Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 6.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Rainfall Hyetograph for 30 minute 30 year Winter I+0%  
for Pipe 1.008 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.201	7	23.255	13	89.693	19	74.744	25	20.697
2	15.234	8	28.316	14	102.532	20	60.315	26	20.042
3	19.081	9	36.213	15	111.642	21	47.263	27	20.034
4	20.034	10	47.263	16	111.642	22	36.213	28	19.081
5	20.042	11	60.315	17	102.532	23	28.316	29	15.234
6	20.697	12	74.744	18	89.693	24	23.255	30	6.200

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Micro Drainage	Network 2020.1	



Rainfall Hyetograph for 15 minute 30 year Winter I+0%  
for Pipe 7.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	15.832	4	38.090	7	141.976	10	99.753	13	30.090
2	28.890	5	61.654	8	164.916	11	61.654	14	28.890
3	30.090	6	99.753	9	141.976	12	38.090	15	15.831

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Micro Drainage		Network 2020.1



Rainfall Hyetograph for 30 minute 30 year Winter I+0%  
for Pipe 1.009 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	6.201	7	23.255	13	89.693	19	74.744	25	20.697
2	15.234	8	28.316	14	102.532	20	60.315	26	20.042
3	19.081	9	36.213	15	111.642	21	47.263	27	20.034
4	20.034	10	47.263	16	111.642	22	36.213	28	19.081
5	20.042	11	60.315	17	102.532	23	28.316	29	15.234
6	20.697	12	74.744	18	89.693	24	23.255	30	6.200

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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<sup>3</sup>/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 1  
Number of Online Controls 1      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 0.316  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0      DVD Status OFF  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter

Duration(s) (mins)      15, 30, 60, 120, 180, 240, 360, 480, 600,  
720, 960, 1440

Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	RE 15	Winter	100	+30%					124.744
2.000	RE 15	Summer	100	+30%					124.500
2.001	JUNC 15	Summer	100	+30%					124.323
2.002	MHS03 15	Winter	100	+30%	100/15	Summer			124.484
1.001	MHS04 15	Winter	100	+30%	100/15	Summer			124.347
1.002	MHS04A 15	Winter	100	+30%	100/15	Summer			124.034
3.000	MH S06 15	Winter	100	+30%					127.310
3.001	MHS07 15	Winter	100	+30%					124.778
1.003	MHS08 15	Winter	100	+30%	30/15	Summer			124.010
1.004	MHS09 15	Winter	100	+30%	100/15	Summer			123.556
1.005	MHS10 15	Winter	100	+30%	100/15	Summer			122.276
4.000	EXMH 15	Winter	100	+30%					123.359
1.006	MHS11 15	Winter	100	+30%					121.669
1.007	MHS12 15	Winter	100	+30%	30/15	Summer			120.976
5.000	MHS15 15	Winter	100	+30%					121.794
5.001	MHS16 15	Winter	100	+30%					121.553
6.000	MHS17 15	Winter	100	+30%					121.983
1.008	MHS13 60	Winter	100	+30%	30/15	Summer			119.297
7.000	MHS18 60	Winter	100	+30%	100/30	Winter			119.247
1.009	MHS14 60	Winter	100	+30%	30/15	Summer			119.240

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

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m <sup>3</sup> )					
1.000	RE	-0.056	0.000	0.39		3.9	OK*	
2.000	RE	0.000	0.000	0.62		13.4	SURCHARGED*	
2.001	JUNC	0.000	0.000	1.02		22.1	SURCHARGED*	
2.002	MHS03	0.474	0.000	1.36		24.0	SURCHARGED	
1.001	MHS04	0.437	0.000	1.28		27.2	SURCHARGED	
1.002	MHS04A	0.429	0.000	0.47		30.8	SURCHARGED	
3.000	MH S06	-0.120	0.000	0.09		3.5	OK	
3.001	MHS07	-0.117	0.000	0.47		76.5	OK	
1.003	MHS08	0.625	0.000	2.68		92.4	SURCHARGED	
1.004	MHS09	0.231	0.000	1.48		93.3	SURCHARGED	
1.005	MHS10	0.151	0.000	1.14		92.1	SURCHARGED	
4.000	EXMH	-0.076	0.000	0.76		113.0	OK	
1.006	MHS11	0.000	0.000	0.68		198.9	OK	
1.007	MHS12	0.811	0.000	1.95		262.9	SURCHARGED	
5.000	MHS15	-0.181	0.000	0.08		3.9	OK	
5.001	MHS16	-0.185	0.000	0.07		4.0	OK	
6.000	MHS17	-0.067	0.000	0.58		25.6	OK	
1.008	MHS13	0.897	0.000	1.63	32	68.0	SURCHARGED	
7.000	MHS18	0.097	0.000	0.14		32.2	SURCHARGED	
1.009	MHS14	0.805	0.000	0.47		70.2	SURCHARGED	

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Rainfall Hyetograph for 15 minute 100 year Winter I+30%  
for Pipe 1.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	26.584	4	63.959	7	238.400	10	167.501	13	50.525
2	48.511	5	103.527	8	276.920	11	103.527	14	48.511
3	50.525	6	167.501	9	238.400	12	63.959	15	26.584

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Rainfall Hyetograph for 15 minute 100 year Summer I+30%  
for Pipe 2.000 (Storm)

<b>Time (mins)</b>	<b>Rain (mm/hr)</b>								
1	37.574	4	56.501	7	254.255	10	128.467	13	47.066
2	41.315	5	74.981	8	394.614	11	74.981	14	41.315
3	47.066	6	128.467	9	254.255	12	56.501	15	37.574