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Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG		
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Innovyze		Network 2018.1.1

Area Summary for Catchment A

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.030	0.030	0.030
1.001	-	-	100	0.007	0.007	0.007
1.002	-	-	100	0.033	0.033	0.033
1.003	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
2.000	-	-	100	0.110	0.110	0.110
2.001	-	-	100	0.100	0.100	0.100
1.005	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.000	0.000	0.000
1.007	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.280	0.280	0.280

Simulation Criteria for Catchment A

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	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 Time/Area Diagrams 0
 Number of Online Controls 0
 Number of Storage Structures 0
 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.500	Storm Duration (mins)	30
Ratio R	0.345		

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Summary of Critical Results by Maximum Level (Rank 1) for Catchment A

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.347
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	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
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	A94	15 Winter	1	+0%					74.969
1.001	A93	15 Winter	1	+0%					74.664
1.002	A9	15 Winter	1	+0%					73.307
1.003	A10	15 Winter	1	+0%					73.083
1.004	A11	15 Winter	1	+0%					69.940
2.000	A14	15 Winter	1	+0%					72.339
2.001	A13	15 Winter	1	+0%					70.814
1.005	A12	15 Winter	1	+0%					69.387
1.006	ANO-REF	15 Winter	1	+0%					69.152
1.007	A102	15 Winter	1	+0%					68.950

PN	US/MH Name	Depth (m)	Surcharged Volume (m³)	Flooded Flow / Cap. (l/s)	Pipe Flow (l/s)	Level Exceeded
1.000	A94	-0.111	0.000	0.15	3.7	OK

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<u>Surcharged Outfall Details for Catchment A</u> <table border="0"> <thead> <tr> <th>Outfall Pipe Number</th> <th>Outfall Name</th> <th>C. Level (m)</th> <th>I. Level (m)</th> <th>Min I. Level (m)</th> <th>D,L (mm)</th> <th>W (mm)</th> </tr> </thead> <tbody> <tr> <td>1.007</td> <td>A819</td> <td>71.130</td> <td>68.600</td> <td>68.600</td> <td>1200</td> <td>0</td> </tr> </tbody> </table> Datum (m) 69.050 Offset (mins) 0			Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	1.007	A819	71.130	68.600	68.600	1200	0																																																																																																																																																																																																				
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Summary of Critical Results by Maximum Level (Rank 1) for Catchment A

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.347
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	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)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	A94	15 Winter	30	+0%					74.994
1.001	A93	15 Winter	30	+0%					74.679
1.002	A9	15 Winter	30	+0%					73.368
1.003	A10	15 Winter	30	+0%					73.103
1.004	A11	30 Summer	30	+0%					70.163
2.000	A14	15 Winter	30	+0%	30/15 Summer				72.526
2.001	A13	15 Winter	30	+0%					70.857
1.005	A12	30 Summer	30	+0%	30/15 Summer				70.139
1.006	ANO-REF	30 Summer	30	+0%	30/15 Summer				70.100
1.007	A102	120 Summer	30	+0%	30/15 Summer				70.078

PN	US/MH Name	Depth (m)	Surcharged Volume (m³)	Flooded Flow / Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	A94	-0.086	0.000	0.37	9.0	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Catchment A

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.347
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	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)	100
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	A94	15 Winter	100	+0%					75.004
1.001	A93	15 Winter	100	+0%					74.685
1.002	A9	15 Winter	100	+0%	100/15 Summer				73.508
1.003	A10	15 Winter	100	+0%					73.110
1.004	A11	30 Summer	100	+0%	100/15 Summer				70.688
2.000	A14	15 Winter	100	+0%	100/15 Summer				72.973
2.001	A13	30 Summer	100	+0%	100/30 Summer				70.993
1.005	A12	30 Summer	100	+0%	100/15 Summer				70.658
1.006	ANO-REF	30 Summer	100	+0%	100/15 Summer				70.610
1.007	A102	30 Summer	100	+0%	100/15 Summer				70.576

PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	A94	-0.076	0.000	0.48	11.6	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Catchment A

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)					
1.001	A93	-0.105	0.000	0.19		14.4	OK	
1.002	A9	0.118	0.000	1.28		26.8	SURCHARGED	
1.003	A10	-0.090	0.000	0.34		26.7	OK	
1.004	A11	0.498	0.000	0.19		24.0	SURCHARGED	
2.000	A14	0.583	0.000	1.19		33.8	SURCHARGED	
2.001	A13	0.018	0.000	0.50		66.2	SURCHARGED	
1.005	A12	1.013	0.000	0.59		88.9	SURCHARGED	
1.006	ANO-REF	1.115	0.000	0.36		88.6	SURCHARGED	
1.007	A102	1.276	0.000	0.32		89.0	SURCHARGED	