

Curtins		Page 3
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG		
Date 01/07/2022 22:40 File Existing Drainage 01.07....		
Designed by losty_a Checked by		
Innovyze		Network 2018.1.1

Area Summary for Catchment D

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.205	0.205	0.205
2.000	-	-	100	0.038	0.038	0.038
2.001	-	-	100	0.031	0.031	0.031
2.002	-	-	100	0.000	0.000	0.000
1.001	-	-	100	0.376	0.376	0.376
1.002	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.026	0.026	0.026
3.001	-	-	100	0.015	0.015	0.015
3.002	-	-	100	0.026	0.026	0.026
3.003	-	-	100	0.000	0.000	0.000
3.004	-	-	100	0.023	0.023	0.023
3.005	-	-	100	0.000	0.000	0.000
3.006	-	-	100	0.000	0.000	0.000
1.003	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.740	0.740	0.740

Simulation Criteria for Catchment D

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 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		

©1982-2018 Innovyze

Curtins		Page 1
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG		
Date 01/07/2022 22:20 File Existing Drainage 01.07....		
Designed by losty_a Checked by		
Innovyze		Network 2018.1.1

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

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	D104	15 Winter	1	+0%					77.453
2.000	D54	15 Winter	1	+0%					76.705
2.001	D52	15 Winter	1	+0%					76.641
2.002	D50	15 Winter	1	+0%					76.291
1.001	D48	15 Winter	1	+0%					76.099
1.002	D47	15 Winter	1	+0%					73.156
3.000	D122	15 Winter	1	+0%					73.486
3.001	D121	15 Winter	1	+0%					73.429
3.002	D120	15 Winter	1	+0%					73.339
3.003	D119	15 Winter	1	+0%					73.251
3.004	D118	15 Winter	1	+0%					73.010
3.005	D116	15 Winter	1	+0%					72.914
3.006	D34	15 Winter	1	+0%					72.591
1.003	D33	15 Winter	1	+0%					72.170

©1982-2018 Innovyze

Curtins		Page 1																																																																																																																																																																																																																																							
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG																																																																																																																																																																																																																																									
Date 01/07/2022 22:28 File Existing Drainage 01.07....																																																																																																																																																																																																																																									
Designed by losty_a Checked by																																																																																																																																																																																																																																									
Innovyze		Network 2018.1.1																																																																																																																																																																																																																																							
<u>Surcharged Outfall Details for Catchment D</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>1.003</td> <td>D45</td> <td>74.470</td> <td>67.120</td> <td>0.000</td> <td>1200</td> <td>0</td> </tr> <tr> <td colspan="7">Datum (m) 67.345 Offset (mins) 0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> </tr> </thead> <tbody> <tr><td>15</td><td>1.000</td><td>225</td><td>1.000</td><td>435</td><td>1.000</td><td>645</td><td>1.000</td><td>855</td><td>1.000</td><td>1065</td><td>1.000</td><td>1275</td><td>1.000</td></tr> <tr><td>30</td><td>1.000</td><td>240</td><td>1.000</td><td>450</td><td>1.000</td><td>660</td><td>1.000</td><td>870</td><td>1.000</td><td>1080</td><td>1.000</td><td>1290</td><td>1.000</td></tr> <tr><td>45</td><td>1.000</td><td>255</td><td>1.000</td><td>465</td><td>1.000</td><td>675</td><td>1.000</td><td>885</td><td>1.000</td><td>1095</td><td>1.000</td><td>1305</td><td>1.000</td></tr> <tr><td>60</td><td>1.000</td><td>270</td><td>1.000</td><td>480</td><td>1.000</td><td>690</td><td>1.000</td><td>900</td><td>1.000</td><td>1110</td><td>1.000</td><td>1320</td><td>1.000</td></tr> <tr><td>75</td><td>1.000</td><td>285</td><td>1.000</td><td>495</td><td>1.000</td><td>705</td><td>1.000</td><td>915</td><td>1.000</td><td>1125</td><td>1.000</td><td>1335</td><td>1.000</td></tr> <tr><td>90</td><td>1.000</td><td>300</td><td>1.000</td><td>510</td><td>1.000</td><td>720</td><td>1.000</td><td>930</td><td>1.000</td><td>1140</td><td>1.000</td><td>1350</td><td>1.000</td></tr> <tr><td>105</td><td>1.000</td><td>315</td><td>1.000</td><td>525</td><td>1.000</td><td>735</td><td>1.000</td><td>945</td><td>1.000</td><td>1155</td><td>1.000</td><td>1365</td><td>1.000</td></tr> <tr><td>120</td><td>1.000</td><td>330</td><td>1.000</td><td>540</td><td>1.000</td><td>750</td><td>1.000</td><td>960</td><td>1.000</td><td>1170</td><td>1.000</td><td>1380</td><td>1.000</td></tr> <tr><td>135</td><td>1.000</td><td>345</td><td>1.000</td><td>555</td><td>1.000</td><td>765</td><td>1.000</td><td>975</td><td>1.000</td><td>1185</td><td>1.000</td><td>1395</td><td>1.000</td></tr> <tr><td>150</td><td>1.000</td><td>360</td><td>1.000</td><td>570</td><td>1.000</td><td>780</td><td>1.000</td><td>990</td><td>1.000</td><td>1200</td><td>1.000</td><td>1410</td><td>1.000</td></tr> <tr><td>165</td><td>1.000</td><td>375</td><td>1.000</td><td>585</td><td>1.000</td><td>795</td><td>1.000</td><td>1005</td><td>1.000</td><td>1215</td><td>1.000</td><td>1425</td><td>1.000</td></tr> <tr><td>180</td><td>1.000</td><td>390</td><td>1.000</td><td>600</td><td>1.000</td><td>810</td><td>1.000</td><td>1020</td><td>1.000</td><td>1230</td><td>1.000</td><td>1440</td><td>1.000</td></tr> <tr><td>195</td><td>1.000</td><td>405</td><td>1.000</td><td>615</td><td>1.000</td><td>825</td><td>1.000</td><td>1035</td><td>1.000</td><td>1245</td><td>1.000</td><td></td><td></td></tr> <tr><td>210</td><td>1.000</td><td>420</td><td>1.000</td><td>630</td><td>1.000</td><td>840</td><td>1.000</td><td>1050</td><td>1.000</td><td>1260</td><td>1.000</td><td></td><td></td></tr> </tbody> </table>			Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	1.003	D45	74.470	67.120	0.000	1200	0	Datum (m) 67.345 Offset (mins) 0							Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	15	1.000	225	1.000	435	1.000	645	1.000	855	1.000	1065	1.000	1275	1.000	30	1.000	240	1.000	450	1.000	660	1.000	870	1.000	1080	1.000	1290	1.000	45	1.000	255	1.000	465	1.000	675	1.000	885	1.000	1095	1.000	1305	1.000	60	1.000	270	1.000	480	1.000	690	1.000	900	1.000	1110	1.000	1320	1.000	75	1.000	285	1.000	495	1.000	705	1.000	915	1.000	1125	1.000	1335	1.000	90	1.000	300	1.000	510	1.000	720	1.000	930	1.000	1140	1.000	1350	1.000	105	1.000	315	1.000	525	1.000	735	1.000	945	1.000	1155	1.000	1365	1.000	120	1.000	330	1.000	540	1.000	750	1.000	960	1.000	1170	1.000	1380	1.000	135	1.000	345	1.000	555	1.000	765	1.000	975	1.000	1185	1.000	1395	1.000	150	1.000	360	1.000	570	1.000	780	1.000	990	1.000	1200	1.000	1410	1.000	165	1.000	375	1.000	585	1.000	795	1.000	1005	1.000	1215	1.000	1425	1.000	180	1.000	390	1.000	600	1.000	810	1.000	1020	1.000	1230	1.000	1440	1.000	195	1.000	405	1.000	615	1.000	825	1.000	1035	1.000	1245	1.000			210	1.000	420	1.000	630	1.000	840	1.000	1050	1.000	1260	1.000		
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)																																																																																																																																																																																																																																			
1.003	D45	74.470	67.120	0.000	1200	0																																																																																																																																																																																																																																			
Datum (m) 67.345 Offset (mins) 0																																																																																																																																																																																																																																									
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)																																																																																																																																																																																																																												
15	1.000	225	1.000	435	1.000	645	1.000	855	1.000	1065	1.000	1275	1.000																																																																																																																																																																																																																												
30	1.000	240	1.000	450	1.000	660	1.000	870	1.000	1080	1.000	1290	1.000																																																																																																																																																																																																																												
45	1.000	255	1.000	465	1.000	675	1.000	885	1.000	1095	1.000	1305	1.000																																																																																																																																																																																																																												
60	1.000	270	1.000	480	1.000	690	1.000	900	1.000	1110	1.000	1320	1.000																																																																																																																																																																																																																												
75	1.000	285	1.000	495	1.000	705	1.000	915	1.000	1125	1.000	1335	1.000																																																																																																																																																																																																																												
90	1.000	300	1.000	510	1.000	720	1.000	930	1.000	1140	1.000	1350	1.000																																																																																																																																																																																																																												
105	1.000	315	1.000	525	1.000	735	1.000	945	1.000	1155	1.000	1365	1.000																																																																																																																																																																																																																												
120	1.000	330	1.000	540	1.000	750	1.000	960	1.000	1170	1.000	1380	1.000																																																																																																																																																																																																																												
135	1.000	345	1.000	555	1.000	765	1.000	975	1.000	1185	1.000	1395	1.000																																																																																																																																																																																																																												
150	1.000	360	1.000	570	1.000	780	1.000	990	1.000	1200	1.000	1410	1.000																																																																																																																																																																																																																												
165	1.000	375	1.000	585	1.000	795	1.000	1005	1.000	1215	1.000	1425	1.000																																																																																																																																																																																																																												
180	1.000	390	1.000	600	1.000	810	1.000	1020	1.000	1230	1.000	1440	1.000																																																																																																																																																																																																																												
195	1.000	405	1.000	615	1.000	825	1.000	1035	1.000	1245	1.000																																																																																																																																																																																																																														
210	1.000	420	1.000	630	1.000	840	1.000	1050	1.000	1260	1.000																																																																																																																																																																																																																														
©1982-2018 Innovyze																																																																																																																																																																																																																																									

Curtins		Page 2
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG		
Date 01/07/2022 22:28 File Existing Drainage 01.07....		
Designed by losty_a Checked by		
Innovyze		Network 2018.1.1

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

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	D104	15 Winter	30	+0%					77.502
2.000	D54	15 Winter	30	+0%	30/15 Summer				77.252
2.001	D52	15 Winter	30	+0%	30/15 Summer				77.216
2.002	D50	15 Winter	30	+0%	30/15 Summer				77.144
1.001	D48	15 Winter	30	+0%	30/15 Summer				77.117
1.002	D47	15 Winter	30	+0%	30/15 Summer				73.642
3.000	D122	15 Winter	30	+0%					73.516
3.001	D121	15 Winter	30	+0%					73.494
3.002	D120	15 Winter	30	+0%	30/15 Summer				73.457
3.003	D119	15 Winter	30	+0%	30/15 Summer				73.360
3.004	D118	15 Winter	30	+0%	30/15 Summer				73.161
3.005	D116	15 Winter	30	+0%					72.969
3.006	D34	15 Winter	30	+0%					72.628
1.003	D33	15 Winter	30	+0%					72.229

©1982-2018 Innovyze

Curtins		Page 1																																																																																																																																																																																																																																							
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG																																																																																																																																																																																																																																									
Date 01/07/2022 23:40 File Existing Drainage 01.07....																																																																																																																																																																																																																																									
Designed by losty_a Checked by																																																																																																																																																																																																																																									
Innovyze		Network 2018.1.1																																																																																																																																																																																																																																							
<u>Surcharged Outfall Details for Catchment D</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>1.003</td> <td>D45</td> <td>74.470</td> <td>67.120</td> <td>0.000</td> <td>1200</td> <td>0</td> </tr> <tr> <td colspan="7">Datum (m) 67.345 Offset (mins) 0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> <th>Time (mins)</th> <th>Depth (m)</th> </tr> </thead> <tbody> <tr><td>15</td><td>1.500</td><td>225</td><td>1.500</td><td>435</td><td>1.500</td><td>645</td><td>1.500</td><td>855</td><td>1.500</td><td>1065</td><td>1.500</td><td>1275</td><td>1.500</td></tr> <tr><td>30</td><td>1.500</td><td>240</td><td>1.500</td><td>450</td><td>1.500</td><td>660</td><td>1.500</td><td>870</td><td>1.500</td><td>1080</td><td>1.500</td><td>1290</td><td>1.500</td></tr> <tr><td>45</td><td>1.500</td><td>255</td><td>1.500</td><td>465</td><td>1.500</td><td>675</td><td>1.500</td><td>885</td><td>1.500</td><td>1095</td><td>1.500</td><td>1305</td><td>1.500</td></tr> <tr><td>60</td><td>1.500</td><td>270</td><td>1.500</td><td>480</td><td>1.500</td><td>690</td><td>1.500</td><td>900</td><td>1.500</td><td>1110</td><td>1.500</td><td>1320</td><td>1.500</td></tr> <tr><td>75</td><td>1.500</td><td>285</td><td>1.500</td><td>495</td><td>1.500</td><td>705</td><td>1.500</td><td>915</td><td>1.500</td><td>1125</td><td>1.500</td><td>1335</td><td>1.500</td></tr> <tr><td>90</td><td>1.500</td><td>300</td><td>1.500</td><td>510</td><td>1.500</td><td>720</td><td>1.500</td><td>930</td><td>1.500</td><td>1140</td><td>1.500</td><td>1350</td><td>1.500</td></tr> <tr><td>105</td><td>1.500</td><td>315</td><td>1.500</td><td>525</td><td>1.500</td><td>735</td><td>1.500</td><td>945</td><td>1.500</td><td>1155</td><td>1.500</td><td>1365</td><td>1.500</td></tr> <tr><td>120</td><td>1.500</td><td>330</td><td>1.500</td><td>540</td><td>1.500</td><td>750</td><td>1.500</td><td>960</td><td>1.500</td><td>1170</td><td>1.500</td><td>1380</td><td>1.500</td></tr> <tr><td>135</td><td>1.500</td><td>345</td><td>1.500</td><td>555</td><td>1.500</td><td>765</td><td>1.500</td><td>975</td><td>1.500</td><td>1185</td><td>1.500</td><td>1395</td><td>1.500</td></tr> <tr><td>150</td><td>1.500</td><td>360</td><td>1.500</td><td>570</td><td>1.500</td><td>780</td><td>1.500</td><td>990</td><td>1.500</td><td>1200</td><td>1.500</td><td>1410</td><td>1.500</td></tr> <tr><td>165</td><td>1.500</td><td>375</td><td>1.500</td><td>585</td><td>1.500</td><td>795</td><td>1.500</td><td>1005</td><td>1.500</td><td>1215</td><td>1.500</td><td>1425</td><td>1.500</td></tr> <tr><td>180</td><td>1.500</td><td>390</td><td>1.500</td><td>600</td><td>1.500</td><td>810</td><td>1.500</td><td>1020</td><td>1.500</td><td>1230</td><td>1.500</td><td>1440</td><td>1.500</td></tr> <tr><td>195</td><td>1.500</td><td>405</td><td>1.500</td><td>615</td><td>1.500</td><td>825</td><td>1.500</td><td>1035</td><td>1.500</td><td>1245</td><td>1.500</td><td></td><td></td></tr> <tr><td>210</td><td>1.500</td><td>420</td><td>1.500</td><td>630</td><td>1.500</td><td>840</td><td>1.500</td><td>1050</td><td>1.500</td><td>1260</td><td>1.500</td><td></td><td></td></tr> </tbody> </table>			Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	1.003	D45	74.470	67.120	0.000	1200	0	Datum (m) 67.345 Offset (mins) 0							Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	15	1.500	225	1.500	435	1.500	645	1.500	855	1.500	1065	1.500	1275	1.500	30	1.500	240	1.500	450	1.500	660	1.500	870	1.500	1080	1.500	1290	1.500	45	1.500	255	1.500	465	1.500	675	1.500	885	1.500	1095	1.500	1305	1.500	60	1.500	270	1.500	480	1.500	690	1.500	900	1.500	1110	1.500	1320	1.500	75	1.500	285	1.500	495	1.500	705	1.500	915	1.500	1125	1.500	1335	1.500	90	1.500	300	1.500	510	1.500	720	1.500	930	1.500	1140	1.500	1350	1.500	105	1.500	315	1.500	525	1.500	735	1.500	945	1.500	1155	1.500	1365	1.500	120	1.500	330	1.500	540	1.500	750	1.500	960	1.500	1170	1.500	1380	1.500	135	1.500	345	1.500	555	1.500	765	1.500	975	1.500	1185	1.500	1395	1.500	150	1.500	360	1.500	570	1.500	780	1.500	990	1.500	1200	1.500	1410	1.500	165	1.500	375	1.500	585	1.500	795	1.500	1005	1.500	1215	1.500	1425	1.500	180	1.500	390	1.500	600	1.500	810	1.500	1020	1.500	1230	1.500	1440	1.500	195	1.500	405	1.500	615	1.500	825	1.500	1035	1.500	1245	1.500			210	1.500	420	1.500	630	1.500	840	1.500	1050	1.500	1260	1.500		
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)																																																																																																																																																																																																																																			
1.003	D45	74.470	67.120	0.000	1200	0																																																																																																																																																																																																																																			
Datum (m) 67.345 Offset (mins) 0																																																																																																																																																																																																																																									
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)																																																																																																																																																																																																																												
15	1.500	225	1.500	435	1.500	645	1.500	855	1.500	1065	1.500	1275	1.500																																																																																																																																																																																																																												
30	1.500	240	1.500	450	1.500	660	1.500	870	1.500	1080	1.500	1290	1.500																																																																																																																																																																																																																												
45	1.500	255	1.500	465	1.500	675	1.500	885	1.500	1095	1.500	1305	1.500																																																																																																																																																																																																																												
60	1.500	270	1.500	480	1.500	690	1.500	900	1.500	1110	1.500	1320	1.500																																																																																																																																																																																																																												
75	1.500	285	1.500	495	1.500	705	1.500	915	1.500	1125	1.500	1335	1.500																																																																																																																																																																																																																												
90	1.500	300	1.500	510	1.500	720	1.500	930	1.500	1140	1.500	1350	1.500																																																																																																																																																																																																																												
105	1.500	315	1.500	525	1.500	735	1.500	945	1.500	1155	1.500	1365	1.500																																																																																																																																																																																																																												
120	1.500	330	1.500	540	1.500	750	1.500	960	1.500	1170	1.500	1380	1.500																																																																																																																																																																																																																												
135	1.500	345	1.500	555	1.500	765	1.500	975	1.500	1185	1.500	1395	1.500																																																																																																																																																																																																																												
150	1.500	360	1.500	570	1.500	780	1.500	990	1.500	1200	1.500	1410	1.500																																																																																																																																																																																																																												
165	1.500	375	1.500	585	1.500	795	1.500	1005	1.500	1215	1.500	1425	1.500																																																																																																																																																																																																																												
180	1.500	390	1.500	600	1.500	810	1.500	1020	1.500	1230	1.500	1440	1.500																																																																																																																																																																																																																												
195	1.500	405	1.500	615	1.500	825	1.500	1035	1.500	1245	1.500																																																																																																																																																																																																																														
210	1.500	420	1.500	630	1.500	840	1.500	1050	1.500	1260	1.500																																																																																																																																																																																																																														
©1982-2018 Innovyze																																																																																																																																																																																																																																									

Curtins		Page 2																																																																																																																																																						
Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG																																																																																																																																																								
Date 01/07/2022 23:40 File Existing Drainage 01.07....																																																																																																																																																								
Designed by losty_a Checked by																																																																																																																																																								
Innovyze		Network 2018.1.1																																																																																																																																																						
<u>Summary of Critical Results by Maximum Outflow (Rank 1) for Catchment D</u>																																																																																																																																																								
<u>Simulation Criteria</u>																																																																																																																																																								
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																																																																																																																																																								
<u>Synthetic Rainfall Details</u>																																																																																																																																																								
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																																																																																																																																																								
<table border="1"> <thead> <tr> <th>PN</th> <th>US/MH Name</th> <th>Storm</th> <th>Return Period</th> <th>Climate Change</th> <th>First (X) Surchage</th> <th>First (Y) Flood</th> <th>First (Z) Overflow</th> <th>Overflow Act.</th> <th>Water Level (m)</th> </tr> </thead> <tbody> <tr> <td>1.000</td> <td>D104</td> <td>15 Summer</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>77.757</td> </tr> <tr> <td>2.000</td> <td>D54</td> <td>30 Summer</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>77.548</td> </tr> <tr> <td>2.001</td> <td>D52</td> <td>15 Summer</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>77.520</td> </tr> <tr> <td>2.002</td> <td>D50</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>77.441</td> </tr> <tr> <td>1.001</td> <td>D48</td> <td>15 Summer</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td>100/15 Summer</td> <td></td> <td></td> <td>77.305</td> </tr> <tr> <td>1.002</td> <td>D47</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.802</td> </tr> <tr> <td>3.000</td> <td>D122</td> <td>15 Summer</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.662</td> </tr> <tr> <td>3.001</td> <td>D121</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.671</td> </tr> <tr> <td>3.002</td> <td>D120</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.626</td> </tr> <tr> <td>3.003</td> <td>D119</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.503</td> </tr> <tr> <td>3.004</td> <td>D118</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.260</td> </tr> <tr> <td>3.005</td> <td>D116</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>73.054</td> </tr> <tr> <td>3.006</td> <td>D34</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td></td> <td></td> <td></td> <td></td> <td>72.634</td> </tr> <tr> <td>1.003</td> <td>D33</td> <td>15 Winter</td> <td>100</td> <td>+0%</td> <td>100/15 Summer</td> <td></td> <td></td> <td></td> <td>72.419</td> </tr> </tbody> </table>			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	D104	15 Summer	100	+0%	100/15 Summer				77.757	2.000	D54	30 Summer	100	+0%	100/15 Summer				77.548	2.001	D52	15 Summer	100	+0%	100/15 Summer				77.520	2.002	D50	15 Winter	100	+0%	100/15 Summer				77.441	1.001	D48	15 Summer	100	+0%	100/15 Summer	100/15 Summer			77.305	1.002	D47	15 Winter	100	+0%	100/15 Summer				73.802	3.000	D122	15 Summer	100	+0%	100/15 Summer				73.662	3.001	D121	15 Winter	100	+0%	100/15 Summer				73.671	3.002	D120	15 Winter	100	+0%	100/15 Summer				73.626	3.003	D119	15 Winter	100	+0%	100/15 Summer				73.503	3.004	D118	15 Winter	100	+0%	100/15 Summer				73.260	3.005	D116	15 Winter	100	+0%	100/15 Summer				73.054	3.006	D34	15 Winter	100	+0%					72.634	1.003	D33	15 Winter	100	+0%	100/15 Summer				72.419
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	D104	15 Summer	100	+0%	100/15 Summer				77.757																																																																																																																																															
2.000	D54	30 Summer	100	+0%	100/15 Summer				77.548																																																																																																																																															
2.001	D52	15 Summer	100	+0%	100/15 Summer				77.520																																																																																																																																															
2.002	D50	15 Winter	100	+0%	100/15 Summer				77.441																																																																																																																																															
1.001	D48	15 Summer	100	+0%	100/15 Summer	100/15 Summer			77.305																																																																																																																																															
1.002	D47	15 Winter	100	+0%	100/15 Summer				73.802																																																																																																																																															
3.000	D122	15 Summer	100	+0%	100/15 Summer				73.662																																																																																																																																															
3.001	D121	15 Winter	100	+0%	100/15 Summer				73.671																																																																																																																																															
3.002	D120	15 Winter	100	+0%	100/15 Summer				73.626																																																																																																																																															
3.003	D119	15 Winter	100	+0%	100/15 Summer				73.503																																																																																																																																															
3.004	D118	15 Winter	100	+0%	100/15 Summer				73.260																																																																																																																																															
3.005	D116	15 Winter	100	+0%	100/15 Summer				73.054																																																																																																																																															
3.006	D34	15 Winter	100	+0%					72.634																																																																																																																																															
1.003	D33	15 Winter	100	+0%	100/15 Summer				72.419																																																																																																																																															
©1982-2018 Innovyze																																																																																																																																																								

