


Barratt Homes Manchester		Page 1
4 Brindley Road City Park Manchester M16 9HQ	Chipping Lane Longridge	
Date 10.08.16 File SW Network 1, Rev C.mdx	Designed by CD Checked by SG	
Micro Drainage	Network 2014.1.1	

Summary of Critical Results by Maximum Level (Rank 1) for SW1.SWS

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 Coeffiecient 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 1    Number of Storage Structures 1    Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.282  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)    18.800 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm)    300.0  
Analysis Timestep 2.5 Second Increment (Extended)  
DTS Status    ON  
DVD Status    OFF  
Inertia Status    OFF

Profile(s)    Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360  
Return Period(s) (years)    30  
Climate Change (%)    0


PN	Storm	Return Climate Period	Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
1.000	120 Winter	30	0%					
1.001	120 Winter	30	0%					
2.000	15 Winter	30	0%					
2.001	15 Winter	30	0%					
2.002	15 Winter	30	0%	30/15 Summer				
2.003	15 Winter	30	0%	30/15 Summer				
1.002	120 Winter	30	0%					
3.000	15 Winter	30	0%					
3.001	15 Winter	30	0%					
1.003	120 Winter	30	0%					
1.004	120 Winter	30	0%					
1.005	120 Winter	30	0%					
1.006	120 Winter	30	0%					
1.007	120 Winter	30	0%					
1.008	120 Winter	30	0%					
4.000	15 Winter	30	0%					
4.001	120 Winter	30	0%					
1.009	120 Winter	30	0%					

Barratt Homes Manchester		Page 2
4 Brindley Road City Park Manchester M16 9HQ	Chipping Lane Longridge	
Date 10.08.16 File SW Network 1, Rev C.mdx	Designed by CD Checked by SG	
Micro Drainage	Network 2014.1.1	

Summary of Critical Results by Maximum Level (Rank 1) for SW1.SWS

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
1.010	120 Winter	30		0%				
5.000	15 Winter	30		0%				
5.001	15 Winter	30		0%				
5.002	15 Winter	30		0%				
5.003	15 Winter	30		0%				
5.004	15 Winter	30		0%				
5.005	15 Winter	30		0%				
5.006	15 Winter	30		0%				
5.007	15 Winter	30		0%				
5.008	15 Winter	30		0%	30/15 Winter			
5.009	15 Winter	30		0%	30/15 Summer			
5.010	15 Winter	30		0%	30/15 Summer			
5.011	15 Winter	30		0%				
5.012	15 Winter	30		0%				
6.000	15 Winter	30		0%				
6.001	15 Winter	30		0%				
6.002	15 Winter	30		0%				
6.003	15 Winter	30		0%				
5.013	15 Winter	30		0%	30/15 Summer			
5.014	15 Winter	30		0%	30/15 Summer			
5.015	30 Winter	30		0%	30/15 Summer			
5.016	30 Winter	30		0%	30/15 Summer			
7.000	30 Winter	30		0%	30/15 Winter			
5.017	30 Winter	30		0%	30/15 Summer			
5.018	30 Winter	30		0%	30/15 Summer			
5.019	30 Winter	30		0%	30/15 Summer			
5.020	120 Winter	30		0%				
5.021	120 Winter	30		0%				
5.022	120 Winter	30		0%				
1.011	120 Winter	30		0%				
1.012	120 Winter	30		0%	30/15 Summer			

PN	US/MH Name	Water		Flooded		Pipe		Status
		Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)	
1.000	1	103.627	-0.579	0.000	0.01	0.0	18.2	OK
1.001	2	103.627	-0.492	0.000	0.02	0.0	19.5	OK
2.000	15	104.964	-0.126	0.000	0.39	0.0	14.2	OK
2.001	16	104.798	-0.138	0.000	0.31	0.0	18.8	OK
2.002	17	104.606	0.098	0.000	0.97	0.0	31.9	SURCHARGED
2.003	18	104.556	0.105	0.000	1.14	0.0	60.1	SURCHARGED
1.002	3	103.627	-0.464	0.000	0.04	0.0	42.7	OK
3.000	19	104.090	-0.187	0.000	0.30	0.0	21.3	OK
3.001	20	103.793	-0.303	0.000	0.23	0.0	23.8	OK
1.003	4	103.627	-0.438	0.000	0.03	0.0	48.8	OK

Barratt Homes Manchester		Page 3
4 Brindley Road City Park Manchester M16 9HQ	Chipping Lane Longridge	
Date 10.08.16 File SW Network 1, Rev C.mdx	Designed by CD Checked by SG	
Micro Drainage	Network 2014.1.1	

Summary of Critical Results by Maximum Level (Rank 1) for SW1.SWS

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow	Pipe	Status
		Level (m)		Volume (m³)		(l/s)	Flow (l/s)	
1.004	5	103.628	-0.395	0.000	0.03	0.0	46.6	OK
1.005	6	103.628	-0.356	0.000	0.04	0.0	41.0	OK
1.006	7	103.628	-0.333	0.000	0.02	0.0	37.6	OK
1.007	8	103.628	-0.289	0.000	0.03	0.0	36.3	OK
1.008	9	103.629	-0.267	0.000	0.02	0.0	39.9	OK
4.000	21	104.308	-0.159	0.000	0.19	0.0	12.3	OK
4.001	22	103.629	-0.241	0.000	0.07	0.0	13.9	OK
1.009	10	103.629	-0.173	0.000	0.01	0.0	34.2	OK
1.010	11	103.628	-0.093	0.000	0.02	0.0	27.4	OK
5.000	23	108.226	-0.171	0.000	0.13	0.0	9.3	OK
5.001	24	107.604	-0.130	0.000	0.37	0.0	29.9	OK
5.002	25	106.931	-0.115	0.000	0.47	0.0	29.7	OK
5.003	26	106.749	-0.099	0.000	0.59	0.0	29.5	OK
5.004	27	106.670	-0.053	0.000	1.00	0.0	169.1	OK
5.005	28	106.463	-0.194	0.000	0.62	0.0	175.0	OK
5.006	29	106.340	0.000	0.000	1.04	0.0	176.1	OK
5.007	30	106.038	-0.210	0.000	0.55	0.0	181.5	OK
5.008	31	105.915	0.004	0.000	0.62	0.0	181.1	SURCHARGED
5.009	32	105.810	0.172	0.000	2.05	0.0	194.6	SURCHARGED
5.010	33	105.687	0.072	0.000	1.96	0.0	195.1	SURCHARGED
5.011	34	105.482	-0.105	0.000	0.94	0.0	197.7	OK
5.012	35	105.339	-0.110	0.000	0.92	0.0	205.1	OK
6.000	46	108.511	-0.162	0.000	0.17	0.0	14.6	OK
6.001	47	107.324	-0.118	0.000	0.45	0.0	41.6	OK
6.002	48	105.990	-0.088	0.000	0.67	0.0	52.2	OK
6.003	49	105.476	-0.193	0.000	0.47	0.0	136.9	OK
5.013	36	105.201	0.735	0.000	1.67	0.0	291.5	SURCHARGED
5.014	37	105.079	0.658	0.000	1.47	0.0	293.1	SURCHARGED
5.015	38	104.947	0.594	0.000	1.86	0.0	284.6	SURCHARGED
5.016	39	104.813	0.498	0.000	1.95	0.0	285.7	SURCHARGED
7.000	50	104.687	0.063	0.000	0.14	0.0	7.8	SURCHARGED
5.017	40	104.676	0.378	0.000	1.70	0.0	291.2	SURCHARGED
5.018	41	104.533	0.278	0.000	1.36	0.0	299.3	SURCHARGED
5.019	42	104.223	0.134	0.000	1.42	0.0	311.3	SURCHARGED
5.020	43	103.639	-0.294	0.000	0.08	0.0	184.3	OK
5.021	44	103.636	-0.229	0.000	0.07	0.0	166.8	OK
5.022	45	103.633	-0.134	0.000	0.06	0.0	148.0	OK
1.011	12	103.628	-0.054	0.000	0.03	0.0	80.8	OK
1.012	13	103.612	1.219	0.000	0.81	0.0	49.7	SURCHARGED