


Project No	20488
Sheet	1 of 98
Engineer	C. Perks
Date	October 2014
Revision	A

DESIGN CALCULATIONS FRONT SHEET

SCHEME	LONGFORD PARK BODICOTE BANBURY
CLIENT	BARRATT HOMES, BOVIS HOMES, TAYLOR WIMPEY
ASPECTS OF SCHEME TO BE DESIGNED	Storm water design simulations, 1 in 30 year On Phase 2
CODES OF PRACTICE, DESIGN SPECIFICATIONS & BRITISH STANDARDS	1. Wallingford Procedure. 2. Sewers for Adoption 6 th Edition. 3. Anglian Water additions/deletions to Sewers For Adoption 6 th Edition.
NOTES	Calculations carried out using Windes Microdrainage computer program. Refer to design drawing 20488_02_070_3.1 to 3.4 for layout details.

INDEX

Pages	Calculations	Checked by	Date

M-EC		Page 2
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for STORM.SWS

Pipe Sizes STORM Manhole Sizes STORM

FSR Rainfall Model - England and Wales

Return Period (years)	30	Add Flow / Climate Change (%)	0
M5-60 (mm)	19.700	Minimum Backdrop Height (m)	0.000
Ratio R	0.408	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	150	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		


Designed with Level Soffits

Time Area Diagram for STORM.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.000	8-12	5.033	16-20	5.632	24-28	0.016
4-8	2.501	12-16	5.896	20-24	2.360		

Total Area Contributing (ha) = 21.438

Total Pipe Volume (m³) = 6524.295

M-EC		Page 3
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

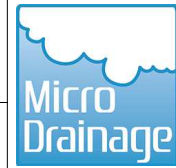
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)		
1.000	1	18	116.936	0.081	0.000	0.24	0.0	19.1	SURCHARGED	
1.001	2	15	117.142	0.433	0.000	0.46	0.0	32.8	SURCHARGED	
1.002	3	14	117.153	0.665	0.000	0.68	0.0	84.3	SURCHARGED	
1.003	4	15	117.090	0.743	0.000	0.89	0.0	158.5	SURCHARGED	
2.000	36	2	119.581	0.906	0.000	1.36	0.0	125.7	SURCHARGED	
2.001	37	3	119.304	0.843	0.000	1.44	0.0	148.7	SURCHARGED	
2.002	38	4	118.932	0.719	0.000	1.24	0.0	168.2	SURCHARGED	
2.003	39	3	118.255	0.907	0.000	0.91	0.0	217.9	SURCHARGED	
3.000	44	11	117.943	0.798	0.000	0.71	0.0	57.6	SURCHARGED	
3.001	45	12	117.887	0.904	0.000	0.74	0.0	79.1	SURCHARGED	
3.002	46	12	117.877	0.995	0.000	0.96	0.0	169.3	SURCHARGED	
4.000	50	10	117.902	0.616	0.000	0.49	0.0	50.0	SURCHARGED	
3.003	47	12	117.827	1.067	0.000	0.58	0.0	183.7	SURCHARGED	
3.004	48	7	117.892	1.339	0.000	0.83	0.0	204.7	SURCHARGED	
3.005	49	5	117.908	1.443	0.000	0.91	0.0	204.5	SURCHARGED	
2.004	40	5	117.909	1.466	0.000	1.11	0.0	386.1	SURCHARGED	
2.005	41	7	117.788	1.435	0.000	1.00	0.0	418.1	SURCHARGED	
5.000	51	6	117.707	0.820	0.000	0.40	0.0	47.2	SURCHARGED	
2.006	42	8	117.582	1.403	0.000	1.08	0.0	449.1	SURCHARGED	
2.007	43	17	117.144	1.137	0.000	1.15	0.0	461.1	SURCHARGED	
1.004	5	17	116.957	1.109	0.000	1.71	0.0	594.5	SURCHARGED	
1.005	6	17	116.947	1.160	0.000	1.02	0.0	634.6	SURCHARGED	

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	17	116.963	0.033	0.000	0.86	0.0	38.6	SURCHARGED
6.001	53	19	116.891	0.198	0.000	1.00	0.0	36.8	SURCHARGED
6.002	54	19	116.895	0.270	0.000	0.79	0.0	58.8	SURCHARGED
6.003	55	17	117.033	0.718	0.000	1.26	0.0	77.4	SURCHARGED
6.004	56	18	116.917	0.661	0.000	0.85	0.0	107.0	SURCHARGED
6.005	57	18	116.926	0.943	0.000	0.46	0.0	107.4	SURCHARGED
1.006	7	18	116.929	1.299	0.000	0.85	0.0	712.3	SURCHARGED
7.000	58	2	118.170	-0.090	0.000	0.65	0.0	25.5	OK
7.001	59	2	117.986	-0.109	0.000	0.51	0.0	60.4	OK
1.007	8	18	116.751	1.410	0.000	0.93	0.0	699.2	SURCHARGED
8.000	60	15	116.788	-0.068	0.000	0.81	0.0	31.8	OK
8.001	61	17	116.670	-0.014	0.000	0.33	0.0	34.6	OK
8.002	35	17	116.685	0.257	0.000	0.17	0.0	43.4	SURCHARGED
1.008	10	17	116.687	1.608	0.000	2.10	0.0	696.6	SURCHARGED
9.000	62	2	119.435	-0.117	0.000	0.46	0.0	22.3	OK
9.001	63	2	119.118	-0.074	0.000	0.89	0.0	91.5	OK
9.002	64	2	118.660	-0.146	0.000	0.50	0.0	124.5	OK
9.003	148	17	116.678	1.199	0.000	0.77	0.0	125.5	SURCHARGED
1.009	11	17	116.670	1.610	0.000	1.04	0.0	763.3	SURCHARGED
1.010	12	17	116.646	1.670	0.000	2.00	0.0	748.5	SURCHARGED
1.011	13	17	116.630	1.676	0.000	1.63	0.0	711.1	SURCHARGED
1.012	14	17	116.608	1.687	0.000	0.74	0.0	700.6	SURCHARGED
1.013	15	17	116.591	1.721	0.000	1.54	0.0	702.6	SURCHARGED
1.014	16	17	116.576	1.729	0.000	0.74	0.0	684.2	SURCHARGED
10.000	65	6	117.305	-0.064	0.000	0.95	0.0	62.2	OK
11.000	136	2	118.136	-0.078	0.000	0.74	0.0	44.3	OK
11.001	137	2	117.846	-0.061	0.000	0.85	0.0	48.2	OK
11.002	138	3	117.589	-0.130	0.000	0.59	0.0	76.8	OK
10.001	66	10	117.081	-0.119	0.000	0.78	0.0	173.1	OK
10.002	67	17	116.612	-0.097	0.000	0.84	0.0	189.8	OK
12.000	9	10	117.024	-0.260	0.000	0.04	0.0	5.5	OK
12.001	75	19	116.520	-0.146	0.000	0.52	0.0	40.0	OK
12.002	76	19	116.512	0.023	0.000	0.21	0.0	66.1	SURCHARGED
10.003	68	19	116.511	0.192	0.000	1.12	0.0	270.7	SURCHARGED
10.004	69	19	116.505	0.315	0.000	0.98	0.0	311.6	SURCHARGED
10.005	70	19	116.505	0.404	0.000	0.65	0.0	309.3	SURCHARGED
10.006	71	19	116.509	0.462	0.000	0.66	0.0	334.5	SURCHARGED
13.000	147	11	116.969	-0.160	0.000	0.18	0.0	13.2	OK
13.001	112	19	116.493	-0.180	0.000	0.33	0.0	31.9	OK
13.002	113	20	116.476	-0.014	0.000	0.26	0.0	43.0	OK
14.000	114	3	117.332	-0.169	0.000	0.14	0.0	8.4	OK
14.001	115	8	117.095	-0.144	0.000	0.28	0.0	17.7	OK
14.002	116	16	116.668	-0.110	0.000	0.51	0.0	35.1	OK
13.003	77	20	116.477	0.074	0.000	0.50	0.0	84.6	SURCHARGED
15.000	134	4	117.291	-0.141	0.000	0.30	0.0	31.3	OK
13.004	135	19	116.481	0.169	0.000	0.59	0.0	139.6	SURCHARGED
13.005	78	19	116.495	0.401	0.000	0.59	0.0	155.8	SURCHARGED
10.007	72	19	116.516	0.541	0.000	0.29	0.0	493.7	SURCHARGED
10.008	73	18	116.541	1.285	0.000	0.24	0.0	467.7	SURCHARGED
10.009	74	18	116.550	1.514	0.000	0.20	0.0	396.0	SURCHARGED

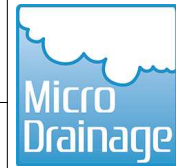
M-EC		Page 5
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
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Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	18	116.558	1.688	0.000	0.52	0.0	750.8	SURCHARGED
1.016	18	18	116.547	1.780	0.000	0.39	0.0	677.9	SURCHARGED
16.000	142	2	118.251	-0.048	0.000	0.79	0.0	35.4	OK
16.001	143	18	116.533	0.934	0.000	1.04	0.0	124.1	SURCHARGED
1.017	18a	18	116.531	1.907	0.000	0.42	0.0	672.4	SURCHARGED
1.018	19	18	116.513	1.995	0.000	0.52	0.0	640.1	SURCHARGED
17.000	118	9	117.190	-0.193	0.000	0.05	0.0	2.3	OK
17.001	119	9	117.113	-0.107	0.000	0.34	0.0	15.3	OK
17.002	120	10	117.089	0.018	0.000	0.94	0.0	46.5	SURCHARGED
18.000	129	4	117.518	-0.139	0.000	0.31	0.0	22.2	OK
18.001	130	9	117.112	-0.122	0.000	0.43	0.0	31.5	OK
17.003	121	15	116.733	0.057	0.000	1.27	0.0	102.5	SURCHARGED
19.000	131	4	117.461	-0.080	0.000	0.73	0.0	43.0	OK
19.001	132	11	117.077	0.074	0.000	1.36	0.0	57.7	SURCHARGED
19.002	133	14	116.778	-0.134	0.000	0.57	0.0	67.6	OK
17.004	122	19	116.482	-0.090	0.000	0.90	0.0	180.7	OK
17.005	123	19	116.477	0.031	0.000	1.00	0.0	199.3	SURCHARGED
20.000	139	2	117.930	-0.130	0.000	0.37	0.0	30.3	OK
20.001	140	8	117.185	-0.062	0.000	0.87	0.0	72.1	OK
17.006	124	19	116.474	0.154	0.000	0.77	0.0	279.7	SURCHARGED
17.007	125	19	116.474	0.572	0.000	0.53	0.0	279.0	SURCHARGED
17.008	126	19	116.474	0.850	0.000	0.25	0.0	295.6	SURCHARGED
17.009	127	19	116.475	1.444	0.000	0.34	0.0	304.2	SURCHARGED
17.010	128	19	116.486	1.775	0.000	0.25	0.0	281.5	SURCHARGED
1.019	19a	19	116.493	2.028	0.000	0.42	0.0	580.8	SURCHARGED
21.000	98	21	116.238	-0.962	0.000	0.01	0.0	61.5	OK
1.020	20	19	116.470	2.916	0.000	2.48	0.0	208.1	SURCHARGED
1.021	21	17	116.214	2.805	0.000	2.08	0.0	176.8	SURCHARGED
1.022	22	16	115.827	2.606	0.000	1.94	0.0	158.3	SURCHARGED
22.000	79	2	122.712	-0.147	0.000	0.51	0.0	80.4	OK
22.001	80	2	121.949	-0.115	0.000	0.68	0.0	80.1	OK
22.002	81	2	121.553	-0.095	0.000	0.80	0.0	80.5	OK
22.003	82	2	121.366	-0.056	0.000	0.97	0.0	78.5	OK
22.004	83	2	121.202	-0.038	0.000	0.98	0.0	90.9	OK
22.005	84	2	121.153	-0.035	0.000	1.00	0.0	102.8	OK
22.006	85	2	120.993	-0.079	0.000	0.95	0.0	112.2	OK
22.007	86	2	120.718	-0.152	0.000	0.76	0.0	119.9	OK
22.008	87	2	120.622	-0.160	0.000	0.72	0.0	124.2	OK
22.009	88	4	120.435	-0.136	0.000	0.83	0.0	127.5	OK
22.010	89	4	120.321	-0.173	0.000	0.69	0.0	130.0	OK
22.011	90	4	119.976	-0.258	0.000	0.38	0.0	133.1	OK
22.012	91	4	119.504	-0.249	0.000	0.41	0.0	136.0	OK
22.013	92	3	119.166	-0.071	0.000	0.93	0.0	253.1	OK
22.014	93	3	119.123	-0.067	0.000	0.91	0.0	389.8	OK
22.015	94	3	119.040	-0.048	0.000	1.00	0.0	530.3	OK
22.016	95	2	118.680	-0.324	0.000	0.61	0.0	665.9	OK
22.017	96	2	118.157	-0.189	0.000	0.93	0.0	658.6	OK
22.018	97	4	117.893	-0.249	0.000	0.81	0.0	991.9	OK
22.019	98	4	117.543	0.004	0.000	0.96	0.0	1079.6	SURCHARGED
22.020	99	2	117.389	0.000	0.000	1.15	0.0	1062.4	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	4	116.681	-0.651	0.000	0.31	0.0	1069.2	OK
23.000	102	18	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	17	115.736	0.361	0.000	1.79	0.0	141.8	SURCHARGED
1.023	23	18	115.580	2.448	0.000	2.82	0.0	243.5	SURCHARGED
1.024	24	16	114.048	1.122	0.000	2.81	0.0	239.5	SURCHARGED
1.025	25	16	112.962	0.173	0.000	1.13	0.0	239.3	SURCHARGED
24.000	103	2	119.870	0.345	0.000	1.38	0.0	297.6	SURCHARGED
24.001	104	2	119.597	0.205	0.000	1.28	0.0	716.4	SURCHARGED
24.002	105	2	119.222	0.079	0.000	1.19	0.0	653.3	SURCHARGED
24.003	106	2	118.421	-1.726	0.000	0.01	0.0	656.7	OK
24.004	107	2	115.766	-0.781	0.000	0.03	0.0	657.6	OK
1.026	26	6	111.928	-0.980	0.000	0.03	0.0	690.3	OK
1.027	27	6	109.452	-0.295	0.000	0.15	0.0	687.4	FLOOD RISK
1.028	28	6	106.878	-0.313	0.000	0.10	0.0	690.2	OK
1.029	29	6	98.182	-0.295	0.000	0.12	0.0	691.7	FLOOD RISK
1.030	30	6	92.621	-0.761	0.000	0.05	0.0	690.1	OK
1.031	31	6	91.147	-1.103	0.000	0.05	0.0	683.7	OK
1.032	32	21	90.724	-1.399	0.000	0.04	0.0	685.0	OK
1.033	33	24	90.106	-0.167	0.000	0.71	0.0	156.3	OK
25.000	108	17	90.588	-1.298	0.000	0.05	0.0	1064.7	OK
25.001	109	19	90.437	-1.449	0.000	0.04	0.0	1030.7	OK
25.002	110	20	90.245	-1.641	0.000	0.03	0.0	1011.9	OK
1.034	109	24	89.851	-0.015	0.000	0.49	0.0	113.4	OK
1.035	34	24	89.678	3.028	0.000	0.74	0.0	53.6	SURCHARGED

M-EC		Page 7
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
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Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

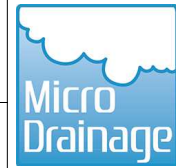
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)		
1.000	1	10	117.303	0.448	0.000	0.22	0.0	17.4	SURCHARGED	
1.001	2	10	117.298	0.589	0.000	0.42	0.0	29.9	SURCHARGED	
1.002	3	10	117.298	0.810	0.000	0.65	0.0	80.3	SURCHARGED	
1.003	4	10	117.297	0.950	0.000	0.81	0.0	143.9	SURCHARGED	
2.000	36	4	119.473	0.798	0.000	1.25	0.0	114.8	SURCHARGED	
2.001	37	2	119.371	0.910	0.000	1.35	0.0	139.9	SURCHARGED	
2.002	38	3	119.031	0.818	0.000	1.17	0.0	158.4	SURCHARGED	
2.003	39	4	118.232	0.884	0.000	0.89	0.0	212.3	SURCHARGED	
3.000	44	4	118.138	0.993	0.000	0.62	0.0	50.1	FLOOD RISK	
3.001	45	6	118.059	1.076	0.000	0.65	0.0	69.3	SURCHARGED	
3.002	46	5	118.007	1.125	0.000	0.85	0.0	149.7	SURCHARGED	
4.000	50	5	118.052	0.766	0.000	0.44	0.0	45.4	SURCHARGED	
3.003	47	5	117.984	1.224	0.000	0.57	0.0	178.4	SURCHARGED	
3.004	48	6	117.906	1.353	0.000	0.79	0.0	194.9	SURCHARGED	
3.005	49	6	117.906	1.441	0.000	0.80	0.0	178.8	SURCHARGED	
2.004	40	6	117.902	1.459	0.000	0.99	0.0	342.2	SURCHARGED	
2.005	41	8	117.762	1.409	0.000	0.88	0.0	366.8	SURCHARGED	
5.000	51	7	117.662	0.775	0.000	0.52	0.0	61.7	SURCHARGED	
2.006	42	13	117.460	1.281	0.000	0.92	0.0	380.5	SURCHARGED	
2.007	43	12	117.325	1.318	0.000	0.97	0.0	388.1	SURCHARGED	
1.004	5	10	117.280	1.432	0.000	1.45	0.0	502.5	SURCHARGED	
1.005	6	10	117.259	1.472	0.000	0.89	0.0	550.2	SURCHARGED	

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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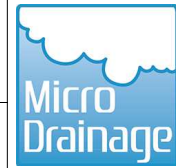
Network 2014.1

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	10	117.262	0.332	0.000	0.78	0.0	34.9	SURCHARGED
6.001	53	11	117.245	0.552	0.000	0.94	0.0	34.4	SURCHARGED
6.002	54	11	117.238	0.613	0.000	0.72	0.0	53.4	SURCHARGED
6.003	55	10	117.245	0.930	0.000	1.01	0.0	61.9	SURCHARGED
6.004	56	10	117.241	0.985	0.000	0.74	0.0	93.0	SURCHARGED
6.005	57	10	117.229	1.246	0.000	0.39	0.0	90.8	SURCHARGED
1.006	7	10	117.225	1.595	0.000	0.72	0.0	604.1	SURCHARGED
7.000	58	3	118.160	-0.100	0.000	0.59	0.0	23.1	OK
7.001	59	3	117.977	-0.118	0.000	0.45	0.0	53.1	OK
1.007	8	10	117.042	1.701	0.000	0.76	0.0	566.9	SURCHARGED
8.000	60	10	116.923	0.067	0.000	0.74	0.0	28.9	SURCHARGED
8.001	61	10	116.904	0.220	0.000	0.29	0.0	31.1	SURCHARGED
8.002	35	10	116.895	0.467	0.000	0.16	0.0	39.4	SURCHARGED
1.008	10	11	116.882	1.803	0.000	1.61	0.0	534.5	SURCHARGED
9.000	62	3	119.428	-0.124	0.000	0.41	0.0	20.2	OK
9.001	63	3	119.096	-0.096	0.000	0.78	0.0	80.5	OK
9.002	64	3	118.647	-0.159	0.000	0.45	0.0	110.3	OK
9.003	148	10	116.907	1.428	0.000	0.67	0.0	108.8	SURCHARGED
1.009	11	12	116.862	1.802	0.000	0.81	0.0	592.2	SURCHARGED
1.010	12	12	116.831	1.855	0.000	1.55	0.0	578.3	SURCHARGED
1.011	13	13	116.810	1.856	0.000	1.30	0.0	567.5	SURCHARGED
1.012	14	13	116.781	1.860	0.000	0.62	0.0	590.5	SURCHARGED
1.013	15	14	116.760	1.890	0.000	1.26	0.0	574.6	SURCHARGED
1.014	16	14	116.740	1.893	0.000	0.60	0.0	549.3	SURCHARGED
10.000	65	8	117.286	-0.083	0.000	0.85	0.0	55.7	OK
11.000	136	3	118.125	-0.089	0.000	0.67	0.0	40.1	OK
11.001	137	3	117.833	-0.074	0.000	0.78	0.0	43.7	OK
11.002	138	4	117.576	-0.143	0.000	0.53	0.0	68.5	OK
10.001	66	11	117.059	-0.141	0.000	0.70	0.0	153.9	OK
10.002	67	11	116.920	0.211	0.000	0.75	0.0	168.5	SURCHARGED
12.000	9	11	117.022	-0.262	0.000	0.04	0.0	4.9	OK
12.001	75	11	116.913	0.247	0.000	0.44	0.0	34.1	SURCHARGED
12.002	76	11	116.909	0.420	0.000	0.20	0.0	62.0	SURCHARGED
10.003	68	11	116.908	0.589	0.000	1.00	0.0	241.3	SURCHARGED
10.004	69	11	116.881	0.691	0.000	0.89	0.0	281.2	SURCHARGED
10.005	70	11	116.874	0.772	0.000	0.58	0.0	277.6	SURCHARGED
10.006	71	11	116.870	0.822	0.000	0.60	0.0	308.7	SURCHARGED
13.000	147	12	116.965	-0.164	0.000	0.16	0.0	11.9	OK
13.001	112	11	116.884	0.211	0.000	0.29	0.0	27.6	SURCHARGED
13.002	113	11	116.881	0.391	0.000	0.22	0.0	37.6	SURCHARGED
14.000	114	5	117.329	-0.172	0.000	0.13	0.0	7.5	OK
14.001	115	9	117.090	-0.149	0.000	0.24	0.0	15.4	OK
14.002	116	11	116.886	0.107	0.000	0.44	0.0	29.9	SURCHARGED
13.003	77	11	116.879	0.477	0.000	0.44	0.0	74.2	SURCHARGED
15.000	134	5	117.286	-0.146	0.000	0.27	0.0	28.2	OK
13.004	135	11	116.876	0.564	0.000	0.52	0.0	121.8	SURCHARGED
13.005	78	11	116.869	0.775	0.000	0.52	0.0	137.1	SURCHARGED
10.007	72	11	116.865	0.889	0.000	0.25	0.0	433.5	SURCHARGED
10.008	73	14	116.721	1.465	0.000	0.17	0.0	334.0	SURCHARGED
10.009	74	14	116.719	1.682	0.000	0.13	0.0	259.9	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	14	116.717	1.847	0.000	0.48	0.0	682.8	SURCHARGED
1.016	18	14	116.695	1.928	0.000	0.37	0.0	646.0	SURCHARGED
16.000	142	3	118.243	-0.056	0.000	0.71	0.0	32.0	OK
16.001	143	13	116.739	1.139	0.000	0.93	0.0	110.7	SURCHARGED
1.017	18a	15	116.673	2.049	0.000	0.41	0.0	655.4	SURCHARGED
1.018	19	15	116.650	2.132	0.000	0.51	0.0	625.7	SURCHARGED
17.000	118	10	117.188	-0.195	0.000	0.04	0.0	2.0	OK
17.001	119	12	117.081	-0.139	0.000	0.31	0.0	13.9	OK
17.002	120	12	117.014	-0.057	0.000	0.88	0.0	43.6	OK
18.000	129	5	117.512	-0.145	0.000	0.28	0.0	20.0	OK
18.001	130	10	117.105	-0.129	0.000	0.38	0.0	27.9	OK
17.003	121	11	116.808	0.132	0.000	1.16	0.0	93.1	SURCHARGED
19.000	131	5	117.450	-0.091	0.000	0.66	0.0	39.0	OK
19.001	132	12	117.038	0.035	0.000	1.22	0.0	51.5	SURCHARGED
19.002	133	11	116.811	-0.101	0.000	0.51	0.0	60.3	OK
17.004	122	11	116.801	0.228	0.000	0.81	0.0	162.0	SURCHARGED
17.005	123	11	116.791	0.345	0.000	0.92	0.0	184.7	SURCHARGED
20.000	139	3	117.924	-0.136	0.000	0.33	0.0	27.3	OK
20.001	140	9	117.170	-0.076	0.000	0.75	0.0	62.2	OK
17.006	124	12	116.763	0.444	0.000	0.69	0.0	253.1	SURCHARGED
17.007	125	14	116.665	0.763	0.000	0.48	0.0	253.6	SURCHARGED
17.008	126	14	116.648	1.024	0.000	0.21	0.0	258.8	SURCHARGED
17.009	127	15	116.642	1.611	0.000	0.26	0.0	232.1	SURCHARGED
17.010	128	15	116.637	1.926	0.000	0.18	0.0	204.9	SURCHARGED
1.019	19a	16	116.627	2.162	0.000	0.48	0.0	661.2	SURCHARGED
21.000	98	15	116.558	-0.642	0.000	0.02	0.0	77.5	OK
1.020	20	16	116.597	3.043	0.000	2.30	0.0	193.3	SURCHARGED
1.021	21	14	116.388	2.979	0.000	1.99	0.0	169.3	SURCHARGED
1.022	22	13	115.945	2.724	0.000	1.92	0.0	156.8	SURCHARGED
22.000	79	3	122.702	-0.157	0.000	0.46	0.0	72.6	OK
22.001	80	3	121.935	-0.129	0.000	0.62	0.0	72.5	OK
22.002	81	3	121.538	-0.110	0.000	0.72	0.0	71.8	OK
22.003	82	3	121.342	-0.080	0.000	0.88	0.0	72.0	OK
22.004	83	3	121.156	-0.084	0.000	0.92	0.0	85.7	OK
22.005	84	3	121.107	-0.081	0.000	0.95	0.0	98.4	OK
22.006	85	3	120.984	-0.089	0.000	0.91	0.0	107.9	OK
22.007	86	3	120.714	-0.157	0.000	0.75	0.0	117.4	OK
22.008	87	3	120.620	-0.162	0.000	0.72	0.0	123.2	OK
22.009	88	3	120.436	-0.135	0.000	0.83	0.0	127.9	OK
22.010	89	3	120.324	-0.169	0.000	0.70	0.0	132.2	OK
22.011	90	3	119.978	-0.255	0.000	0.39	0.0	136.5	OK
22.012	91	3	119.508	-0.246	0.000	0.42	0.0	140.7	OK
22.013	92	4	119.156	-0.081	0.000	0.95	0.0	258.1	OK
22.014	93	4	119.112	-0.078	0.000	0.91	0.0	392.5	OK
22.015	94	4	119.027	-0.060	0.000	1.00	0.0	530.3	OK
22.016	95	3	118.677	-0.327	0.000	0.60	0.0	661.8	OK
22.017	96	3	118.156	-0.190	0.000	0.93	0.0	661.5	OK
22.018	97	3	117.908	-0.234	0.000	0.81	0.0	990.2	OK
22.019	98	3	117.552	0.013	0.000	0.98	0.0	1100.3	SURCHARGED
22.020	99	1	117.389	0.000	0.000	1.19	0.0	1096.4	OK

M-EC		Page 10
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	3	116.686	-0.646	0.000	0.32	0.0	1097.7	OK
23.000	102	19	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	11	115.912	0.537	0.000	1.73	0.0	136.6	SURCHARGED
1.023	23	12	115.745	2.613	0.000	2.84	0.0	245.6	SURCHARGED
1.024	24	12	114.110	1.184	0.000	2.86	0.0	243.4	SURCHARGED
1.025	25	12	112.992	0.203	0.000	1.15	0.0	243.4	SURCHARGED
24.000	103	3	119.753	0.228	0.000	1.24	0.0	267.4	SURCHARGED
24.001	104	3	119.536	0.144	0.000	1.23	0.0	690.3	SURCHARGED
24.002	105	3	119.194	0.051	0.000	1.16	0.0	638.0	SURCHARGED
24.003	106	4	118.419	-1.728	0.000	0.01	0.0	633.9	OK
24.004	107	4	115.764	-0.783	0.000	0.03	0.0	636.9	OK
1.026	26	4	111.936	-0.972	0.000	0.03	0.0	732.4	OK
1.027	27	4	109.458	-0.289	0.000	0.16	0.0	732.1	FLOOD RISK
1.028	28	4	106.884	-0.307	0.000	0.10	0.0	733.9	OK
1.029	29	4	98.186	-0.291	0.000	0.12	0.0	735.0	FLOOD RISK
1.030	30	4	92.627	-0.755	0.000	0.05	0.0	733.3	OK
1.031	31	3	91.154	-1.096	0.000	0.05	0.0	730.0	OK
1.032	32	19	90.732	-1.391	0.000	0.04	0.0	729.9	OK
1.033	33	22	90.135	-0.138	0.000	0.82	0.0	179.9	OK
25.000	108	19	90.570	-1.316	0.000	0.05	0.0	959.9	OK
25.001	109	20	90.422	-1.464	0.000	0.04	0.0	939.9	OK
25.002	110	21	90.225	-1.661	0.000	0.03	0.0	927.7	OK
1.034	109	22	89.926	0.060	0.000	0.49	0.0	112.7	SURCHARGED
1.035	34	22	89.749	3.099	0.000	0.75	0.0	54.2	SURCHARGED

M-EC		Page 11
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	7	117.449	0.594	0.000	0.13	0.0	10.5	SURCHARGED
1.001	2	7	117.444	0.735	0.000	0.24	0.0	16.8	SURCHARGED
1.002	3	7	117.435	0.947	0.000	0.40	0.0	50.0	SURCHARGED
1.003	4	7	117.422	1.075	0.000	0.52	0.0	92.1	SURCHARGED
2.000	36	5	118.918	0.243	0.000	1.06	0.0	97.7	SURCHARGED
2.001	37	5	118.751	0.290	0.000	1.18	0.0	122.2	SURCHARGED
2.002	38	6	118.486	0.273	0.000	1.03	0.0	140.1	SURCHARGED
2.003	39	7	118.063	0.715	0.000	0.70	0.0	166.7	SURCHARGED
3.000	44	8	118.006	0.861	0.000	0.38	0.0	30.3	SURCHARGED
3.001	45	8	117.996	1.013	0.000	0.40	0.0	42.6	SURCHARGED
3.002	46	8	117.988	1.106	0.000	0.52	0.0	92.0	SURCHARGED
4.000	50	7	117.946	0.660	0.000	0.29	0.0	30.0	SURCHARGED
3.003	47	7	117.939	1.179	0.000	0.37	0.0	116.5	SURCHARGED
3.004	48	9	117.820	1.267	0.000	0.58	0.0	142.7	SURCHARGED
3.005	49	9	117.751	1.286	0.000	0.60	0.0	135.6	SURCHARGED
2.004	40	9	117.745	1.302	0.000	0.76	0.0	263.5	SURCHARGED
2.005	41	10	117.716	1.363	0.000	0.66	0.0	276.1	SURCHARGED
5.000	51	10	117.581	0.694	0.000	0.15	0.0	17.5	SURCHARGED
2.006	42	10	117.575	1.396	0.000	0.67	0.0	277.2	SURCHARGED
2.007	43	9	117.435	1.428	0.000	0.67	0.0	266.6	SURCHARGED
1.004	5	9	117.302	1.454	0.000	0.94	0.0	325.9	SURCHARGED
1.005	6	8	117.280	1.493	0.000	0.59	0.0	365.2	SURCHARGED

M-EC		Page 12
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	6	117.361	0.431	0.000	0.55	0.0	24.7	SURCHARGED
6.001	53	7	117.340	0.647	0.000	0.64	0.0	23.6	SURCHARGED
6.002	54	7	117.331	0.706	0.000	0.51	0.0	37.9	SURCHARGED
6.003	55	8	117.308	0.993	0.000	0.80	0.0	48.8	SURCHARGED
6.004	56	8	117.298	1.042	0.000	0.53	0.0	66.3	SURCHARGED
6.005	57	9	117.256	1.273	0.000	0.22	0.0	51.5	SURCHARGED
1.006	7	9	117.247	1.617	0.000	0.50	0.0	419.4	SURCHARGED
7.000	58	5	118.138	-0.122	0.000	0.42	0.0	16.3	OK
7.001	59	5	117.959	-0.136	0.000	0.32	0.0	37.7	OK
1.007	8	9	117.070	1.729	0.000	0.53	0.0	397.3	SURCHARGED
8.000	60	8	116.950	0.094	0.000	0.52	0.0	20.4	SURCHARGED
8.001	61	9	116.929	0.245	0.000	0.21	0.0	22.1	SURCHARGED
8.002	35	9	116.920	0.492	0.000	0.11	0.0	27.5	SURCHARGED
1.008	10	9	116.909	1.830	0.000	1.17	0.0	387.6	SURCHARGED
9.000	62	5	119.411	-0.141	0.000	0.29	0.0	14.3	OK
9.001	63	5	119.056	-0.136	0.000	0.55	0.0	56.3	OK
9.002	64	5	118.624	-0.182	0.000	0.31	0.0	76.4	OK
9.003	148	7	116.974	1.495	0.000	0.42	0.0	67.5	SURCHARGED
1.009	11	9	116.893	1.833	0.000	0.61	0.0	445.2	SURCHARGED
1.010	12	10	116.870	1.894	0.000	1.19	0.0	443.8	SURCHARGED
1.011	13	10	116.857	1.903	0.000	1.00	0.0	437.1	SURCHARGED
1.012	14	10	116.850	1.929	0.000	0.49	0.0	461.0	SURCHARGED
1.013	15	10	116.845	1.975	0.000	1.01	0.0	460.0	SURCHARGED
1.014	16	10	116.839	1.992	0.000	0.50	0.0	457.3	SURCHARGED
10.000	65	9	117.256	-0.113	0.000	0.62	0.0	40.6	OK
11.000	136	5	118.100	-0.114	0.000	0.48	0.0	28.4	OK
11.001	137	5	117.803	-0.104	0.000	0.54	0.0	30.6	OK
11.002	138	6	117.549	-0.170	0.000	0.37	0.0	48.0	OK
10.001	66	6	117.240	0.040	0.000	0.50	0.0	109.9	SURCHARGED
10.002	67	6	117.217	0.508	0.000	0.54	0.0	121.9	SURCHARGED
12.000	9	6	117.170	-0.114	0.000	0.03	0.0	3.5	OK
12.001	75	6	117.169	0.503	0.000	0.31	0.0	24.1	SURCHARGED
12.002	76	6	117.165	0.676	0.000	0.14	0.0	45.4	SURCHARGED
10.003	68	6	117.163	0.844	0.000	0.75	0.0	180.9	SURCHARGED
10.004	69	7	117.070	0.879	0.000	0.61	0.0	192.6	SURCHARGED
10.005	70	7	117.061	0.960	0.000	0.39	0.0	184.0	SURCHARGED
10.006	71	7	117.056	1.009	0.000	0.40	0.0	206.3	SURCHARGED
13.000	147	7	117.072	-0.057	0.000	0.12	0.0	8.5	OK
13.001	112	7	117.069	0.396	0.000	0.21	0.0	19.7	SURCHARGED
13.002	113	7	117.066	0.576	0.000	0.16	0.0	26.3	SURCHARGED
14.000	114	7	117.322	-0.179	0.000	0.09	0.0	5.4	OK
14.001	115	10	117.078	-0.161	0.000	0.17	0.0	11.0	OK
14.002	116	7	117.071	0.292	0.000	0.31	0.0	21.3	SURCHARGED
13.003	77	7	117.064	0.662	0.000	0.30	0.0	51.1	SURCHARGED
15.000	134	7	117.274	-0.158	0.000	0.19	0.0	20.1	OK
13.004	135	7	117.061	0.749	0.000	0.35	0.0	83.6	SURCHARGED
13.005	78	7	117.055	0.960	0.000	0.35	0.0	92.8	SURCHARGED
10.007	72	7	117.050	1.075	0.000	0.16	0.0	278.2	SURCHARGED
10.008	73	10	116.837	1.581	0.000	0.08	0.0	163.1	SURCHARGED
10.009	74	10	116.835	1.799	0.000	0.06	0.0	123.5	SURCHARGED

M-EC		Page 13
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

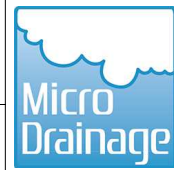
PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	10	116.834	1.964	0.000	0.37	0.0	524.2	SURCHARGED
1.016	18	10	116.826	2.059	0.000	0.30	0.0	523.5	SURCHARGED
16.000	142	5	118.226	-0.073	0.000	0.51	0.0	22.7	OK
16.001	143	10	116.825	1.226	0.000	0.62	0.0	74.5	SURCHARGED
1.017	18a	10	116.818	2.194	0.000	0.36	0.0	584.1	SURCHARGED
1.018	19	10	116.809	2.291	0.000	0.47	0.0	583.9	SURCHARGED
17.000	118	5	117.328	-0.055	0.000	0.03	0.0	1.4	OK
17.001	119	5	117.327	0.107	0.000	0.22	0.0	9.9	SURCHARGED
17.002	120	5	117.323	0.252	0.000	0.61	0.0	30.2	SURCHARGED
18.000	129	7	117.500	-0.157	0.000	0.20	0.0	14.3	OK
18.001	130	5	117.315	0.081	0.000	0.27	0.0	19.7	SURCHARGED
17.003	121	5	117.304	0.628	0.000	0.81	0.0	64.9	SURCHARGED
19.000	131	7	117.426	-0.115	0.000	0.47	0.0	27.5	OK
19.001	132	5	117.316	0.314	0.000	0.86	0.0	36.4	SURCHARGED
19.002	133	5	117.308	0.395	0.000	0.36	0.0	42.9	SURCHARGED
17.004	122	5	117.296	0.723	0.000	0.56	0.0	113.5	SURCHARGED
17.005	123	6	117.270	0.824	0.000	0.63	0.0	126.0	SURCHARGED
20.000	139	5	117.910	-0.150	0.000	0.24	0.0	19.5	OK
20.001	140	6	117.198	-0.048	0.000	0.54	0.0	44.5	OK
17.006	124	6	117.158	0.839	0.000	0.48	0.0	175.4	SURCHARGED
17.007	125	7	117.020	1.118	0.000	0.33	0.0	172.3	SURCHARGED
17.008	126	9	116.870	1.246	0.000	0.13	0.0	158.4	SURCHARGED
17.009	127	9	116.864	1.833	0.000	0.12	0.0	103.7	SURCHARGED
17.010	128	10	116.802	2.091	0.000	0.09	0.0	96.2	SURCHARGED
1.019	19a	10	116.802	2.337	0.000	0.48	0.0	664.0	SURCHARGED
21.000	98	9	116.790	-0.410	0.000	0.02	0.0	98.4	OK
1.020	20	10	116.792	3.238	0.000	2.07	0.0	173.9	SURCHARGED
1.021	21	9	116.475	3.066	0.000	1.80	0.0	153.1	SURCHARGED
1.022	22	8	116.071	2.850	0.000	1.88	0.0	153.1	SURCHARGED
22.000	79	5	122.678	-0.181	0.000	0.33	0.0	51.5	OK
22.001	80	5	121.905	-0.159	0.000	0.44	0.0	51.2	OK
22.002	81	5	121.503	-0.145	0.000	0.52	0.0	51.6	OK
22.003	82	5	121.299	-0.123	0.000	0.64	0.0	52.2	OK
22.004	83	5	121.099	-0.141	0.000	0.69	0.0	63.9	OK
22.005	84	5	121.051	-0.136	0.000	0.72	0.0	74.1	OK
22.006	85	5	120.936	-0.136	0.000	0.71	0.0	84.3	OK
22.007	86	5	120.674	-0.196	0.000	0.60	0.0	94.2	OK
22.008	87	5	120.586	-0.197	0.000	0.59	0.0	101.9	OK
22.009	88	5	120.404	-0.167	0.000	0.71	0.0	109.0	OK
22.010	89	5	120.302	-0.192	0.000	0.62	0.0	116.0	OK
22.011	90	5	119.968	-0.266	0.000	0.35	0.0	122.5	OK
22.012	91	5	119.499	-0.254	0.000	0.39	0.0	129.0	OK
22.013	92	5	119.063	-0.174	0.000	0.83	0.0	227.2	OK
22.014	93	5	118.989	-0.201	0.000	0.80	0.0	342.8	OK
22.015	94	5	118.891	-0.196	0.000	0.88	0.0	465.5	OK
22.016	95	5	118.642	-0.362	0.000	0.52	0.0	569.7	OK
22.017	96	5	118.092	-0.254	0.000	0.81	0.0	573.5	OK
22.018	97	5	117.834	-0.308	0.000	0.71	0.0	860.7	OK
22.019	98	5	117.439	-0.100	0.000	0.86	0.0	967.3	OK
22.020	99	5	117.305	-0.084	0.000	1.00	0.0	922.6	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury

Date 04.03.14
File storm.mdx

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Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	5	116.648	-0.684	0.000	0.27	0.0	922.6	OK
23.000	102	7	116.024	-0.126	0.000	0.00	0.0	0.0	OK
22.022	101	7	116.025	0.650	0.000	1.73	0.0	136.9	SURCHARGED
1.023	23	7	115.864	2.732	0.000	2.86	0.0	247.4	SURCHARGED
1.024	24	7	114.177	1.251	0.000	2.90	0.0	247.4	SURCHARGED
1.025	25	7	113.022	0.233	0.000	1.16	0.0	247.4	SURCHARGED
24.000	103	5	119.423	-0.102	0.000	0.96	0.0	207.9	OK
24.001	104	5	119.312	-0.080	0.000	0.99	0.0	557.9	OK
24.002	105	5	119.001	-0.142	0.000	0.99	0.0	544.6	OK
24.003	106	5	118.407	-1.740	0.000	0.01	0.0	545.1	OK
24.004	107	5	115.752	-0.795	0.000	0.03	0.0	544.8	OK
1.026	26	3	111.937	-0.971	0.000	0.03	0.0	728.4	OK
1.027	27	3	109.458	-0.289	0.000	0.16	0.0	731.5	FLOOD RISK
1.028	28	3	106.884	-0.307	0.000	0.10	0.0	734.3	OK
1.029	29	3	98.187	-0.290	0.000	0.13	0.0	736.3	FLOOD RISK
1.030	30	3	92.628	-0.754	0.000	0.05	0.0	737.7	OK
1.031	31	4	91.153	-1.097	0.000	0.05	0.0	735.2	OK
1.032	32	18	90.734	-1.389	0.000	0.04	0.0	732.3	OK
1.033	33	20	90.266	-0.007	0.000	0.92	0.0	202.4	OK
25.000	108	21	90.516	-1.370	0.000	0.03	0.0	687.7	OK
25.001	109	23	90.366	-1.520	0.000	0.03	0.0	685.9	OK
25.002	110	24	90.164	-1.722	0.000	0.02	0.0	676.8	OK
1.034	109	20	90.137	0.271	0.000	0.39	0.0	90.5	SURCHARGED
1.035	34	20	89.950	3.300	0.000	0.77	0.0	55.8	SURCHARGED

M-EC		Page 15
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	6	117.451	0.596	0.000	0.08	0.0	6.2	SURCHARGED
1.001	2	6	117.447	0.738	0.000	0.13	0.0	9.3	SURCHARGED
1.002	3	6	117.439	0.951	0.000	0.22	0.0	27.6	SURCHARGED
1.003	4	6	117.426	1.079	0.000	0.29	0.0	51.9	SURCHARGED
2.000	36	7	118.582	-0.093	0.000	0.81	0.0	74.8	OK
2.001	37	8	118.478	0.017	0.000	0.88	0.0	90.8	SURCHARGED
2.002	38	8	118.296	0.083	0.000	0.74	0.0	100.1	SURCHARGED
2.003	39	8	117.994	0.646	0.000	0.45	0.0	106.4	SURCHARGED
3.000	44	7	118.038	0.893	0.000	0.24	0.0	19.4	SURCHARGED
3.001	45	7	118.020	1.037	0.000	0.22	0.0	23.9	SURCHARGED
3.002	46	7	117.998	1.116	0.000	0.30	0.0	52.1	SURCHARGED
4.000	50	9	117.906	0.620	0.000	0.18	0.0	17.9	SURCHARGED
3.003	47	9	117.897	1.137	0.000	0.22	0.0	68.5	SURCHARGED
3.004	48	10	117.798	1.245	0.000	0.35	0.0	86.5	SURCHARGED
3.005	49	11	117.739	1.274	0.000	0.38	0.0	85.7	SURCHARGED
2.004	40	11	117.733	1.290	0.000	0.53	0.0	183.2	SURCHARGED
2.005	41	11	117.713	1.360	0.000	0.47	0.0	195.4	SURCHARGED
5.000	51	9	117.585	0.698	0.000	0.07	0.0	8.8	SURCHARGED
2.006	42	9	117.581	1.402	0.000	0.49	0.0	202.4	SURCHARGED
2.007	43	8	117.450	1.443	0.000	0.51	0.0	204.7	SURCHARGED
1.004	5	7	117.324	1.476	0.000	0.71	0.0	245.0	SURCHARGED
1.005	6	7	117.311	1.524	0.000	0.43	0.0	267.8	SURCHARGED

M-EC		Page 16
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	7	117.357	0.427	0.000	0.33	0.0	14.8	SURCHARGED
6.001	53	6	117.342	0.649	0.000	0.31	0.0	11.5	SURCHARGED
6.002	54	6	117.335	0.710	0.000	0.26	0.0	19.5	SURCHARGED
6.003	55	7	117.320	1.005	0.000	0.40	0.0	24.3	SURCHARGED
6.004	56	7	117.312	1.056	0.000	0.26	0.0	32.5	SURCHARGED
6.005	57	7	117.295	1.312	0.000	0.14	0.0	32.0	SURCHARGED
1.006	7	7	117.287	1.657	0.000	0.37	0.0	306.9	SURCHARGED
7.000	58	7	118.115	-0.145	0.000	0.27	0.0	10.7	OK
7.001	59	7	117.939	-0.156	0.000	0.20	0.0	24.1	OK
1.007	8	7	117.116	1.775	0.000	0.43	0.0	325.2	SURCHARGED
8.000	60	7	116.985	0.129	0.000	0.34	0.0	13.3	SURCHARGED
8.001	61	7	116.973	0.289	0.000	0.13	0.0	13.9	SURCHARGED
8.002	35	7	116.967	0.539	0.000	0.07	0.0	16.3	SURCHARGED
1.008	10	7	116.960	1.881	0.000	0.99	0.0	329.0	SURCHARGED
9.000	62	7	119.394	-0.158	0.000	0.19	0.0	9.3	OK
9.001	63	7	119.015	-0.177	0.000	0.35	0.0	36.2	OK
9.002	64	7	118.597	-0.209	0.000	0.20	0.0	49.6	OK
9.003	148	8	116.956	1.477	0.000	0.28	0.0	45.2	SURCHARGED
1.009	11	7	116.946	1.886	0.000	0.50	0.0	366.6	SURCHARGED
1.010	12	7	116.939	1.963	0.000	1.00	0.0	371.9	SURCHARGED
1.011	13	7	116.935	1.981	0.000	0.86	0.0	374.8	SURCHARGED
1.012	14	7	116.930	2.009	0.000	0.42	0.0	396.8	SURCHARGED
1.013	15	7	116.925	2.055	0.000	0.87	0.0	397.9	SURCHARGED
1.014	16	7	116.922	2.075	0.000	0.43	0.0	398.2	SURCHARGED
10.000	65	7	117.293	-0.076	0.000	0.40	0.0	26.3	OK
11.000	136	7	118.075	-0.139	0.000	0.31	0.0	18.5	OK
11.001	137	7	117.775	-0.132	0.000	0.36	0.0	20.0	OK
11.002	138	7	117.519	-0.200	0.000	0.24	0.0	31.1	OK
10.001	66	5	117.275	0.075	0.000	0.32	0.0	71.4	SURCHARGED
10.002	67	5	117.219	0.510	0.000	0.32	0.0	72.1	SURCHARGED
12.000	9	7	117.147	-0.137	0.000	0.02	0.0	2.3	OK
12.001	75	7	117.147	0.481	0.000	0.19	0.0	14.4	SURCHARGED
12.002	76	7	117.142	0.653	0.000	0.08	0.0	26.7	SURCHARGED
10.003	68	7	117.140	0.821	0.000	0.42	0.0	100.9	SURCHARGED
10.004	69	6	117.128	0.937	0.000	0.31	0.0	97.5	SURCHARGED
10.005	70	6	117.119	1.018	0.000	0.18	0.0	86.6	SURCHARGED
10.006	71	6	117.115	1.068	0.000	0.19	0.0	97.2	SURCHARGED
13.000	147	6	117.133	0.004	0.000	0.08	0.0	5.5	SURCHARGED
13.001	112	6	117.130	0.457	0.000	0.12	0.0	11.9	SURCHARGED
13.002	113	6	117.127	0.637	0.000	0.09	0.0	15.8	SURCHARGED
14.000	114	8	117.311	-0.190	0.000	0.06	0.0	3.5	OK
14.001	115	6	117.136	-0.103	0.000	0.11	0.0	7.0	OK
14.002	116	6	117.132	0.353	0.000	0.20	0.0	13.4	SURCHARGED
13.003	77	6	117.125	0.722	0.000	0.18	0.0	29.8	SURCHARGED
15.000	134	9	117.259	-0.173	0.000	0.12	0.0	13.0	OK
13.004	135	6	117.121	0.810	0.000	0.21	0.0	48.6	SURCHARGED
13.005	78	6	117.114	1.020	0.000	0.16	0.0	41.8	SURCHARGED
10.007	72	6	117.110	1.134	0.000	0.08	0.0	140.5	SURCHARGED
10.008	73	7	116.921	1.664	0.000	0.06	0.0	112.8	SURCHARGED
10.009	74	7	116.919	1.882	0.000	0.06	0.0	115.9	SURCHARGED

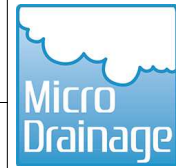
M-EC		Page 17
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	7	116.918	2.048	0.000	0.36	0.0	510.0	SURCHARGED
1.016	18	7	116.914	2.147	0.000	0.29	0.0	504.8	SURCHARGED
16.000	142	7	118.208	-0.091	0.000	0.33	0.0	14.7	OK
16.001	143	7	116.911	1.312	0.000	0.38	0.0	45.7	SURCHARGED
1.017	18a	6	116.908	2.284	0.000	0.34	0.0	555.0	SURCHARGED
1.018	19	6	116.902	2.384	0.000	0.45	0.0	550.4	SURCHARGED
17.000	118	3	117.379	-0.004	0.000	0.02	0.0	0.9	OK
17.001	119	3	117.379	0.159	0.000	0.14	0.0	6.2	SURCHARGED
17.002	120	3	117.375	0.304	0.000	0.39	0.0	19.4	SURCHARGED
18.000	129	8	117.485	-0.172	0.000	0.13	0.0	9.3	OK
18.001	130	3	117.367	0.133	0.000	0.17	0.0	12.7	SURCHARGED
17.003	121	3	117.356	0.680	0.000	0.49	0.0	39.8	SURCHARGED
19.000	131	8	117.401	-0.140	0.000	0.31	0.0	18.0	OK
19.001	132	3	117.369	0.366	0.000	0.56	0.0	23.8	SURCHARGED
19.002	133	3	117.360	0.447	0.000	0.23	0.0	27.0	SURCHARGED
17.004	122	3	117.348	0.776	0.000	0.34	0.0	67.7	SURCHARGED
17.005	123	4	117.307	0.861	0.000	0.38	0.0	75.6	SURCHARGED
20.000	139	7	117.893	-0.167	0.000	0.15	0.0	12.6	OK
20.001	140	5	117.219	-0.027	0.000	0.34	0.0	28.1	OK
17.006	124	5	117.192	0.872	0.000	0.29	0.0	106.2	SURCHARGED
17.007	125	6	117.072	1.170	0.000	0.18	0.0	94.4	SURCHARGED
17.008	126	7	116.926	1.303	0.000	0.07	0.0	80.7	SURCHARGED
17.009	127	7	116.921	1.890	0.000	0.07	0.0	60.3	SURCHARGED
17.010	128	6	116.898	2.186	0.000	0.05	0.0	61.0	SURCHARGED
1.019	19a	6	116.897	2.432	0.000	0.45	0.0	622.3	SURCHARGED
21.000	98	6	116.880	-0.320	0.000	0.02	0.0	104.7	OK
1.020	20	6	116.891	3.337	0.000	1.85	0.0	155.3	SURCHARGED
1.021	21	5	116.540	3.131	0.000	1.82	0.0	154.7	SURCHARGED
1.022	22	5	116.112	2.891	0.000	1.90	0.0	154.9	SURCHARGED
22.000	79	7	122.652	-0.207	0.000	0.21	0.0	33.5	OK
22.001	80	7	121.873	-0.191	0.000	0.28	0.0	33.3	OK
22.002	81	7	121.468	-0.180	0.000	0.33	0.0	33.2	OK
22.003	82	7	121.256	-0.166	0.000	0.41	0.0	33.0	OK
22.004	83	7	121.045	-0.195	0.000	0.44	0.0	40.9	OK
22.005	84	7	120.996	-0.191	0.000	0.47	0.0	48.5	OK
22.006	85	7	120.881	-0.191	0.000	0.47	0.0	55.8	OK
22.007	86	7	120.622	-0.248	0.000	0.40	0.0	62.8	OK
22.008	87	7	120.536	-0.247	0.000	0.40	0.0	69.6	OK
22.009	88	7	120.349	-0.222	0.000	0.50	0.0	77.1	OK
22.010	89	7	120.257	-0.237	0.000	0.45	0.0	84.1	OK
22.011	90	7	119.939	-0.295	0.000	0.26	0.0	90.3	OK
22.012	91	7	119.470	-0.283	0.000	0.29	0.0	96.6	OK
22.013	92	7	118.985	-0.252	0.000	0.60	0.0	164.3	OK
22.014	93	7	118.892	-0.298	0.000	0.57	0.0	245.6	OK
22.015	94	7	118.779	-0.308	0.000	0.62	0.0	328.5	OK
22.016	95	7	118.575	-0.429	0.000	0.36	0.0	397.9	OK
22.017	96	7	117.981	-0.365	0.000	0.58	0.0	409.0	OK
22.018	97	7	117.742	-0.400	0.000	0.50	0.0	612.8	OK
22.019	98	7	117.187	-0.352	0.000	0.65	0.0	729.9	OK
22.020	99	7	117.041	-0.348	0.000	0.79	0.0	727.4	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



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Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	7	116.606	-0.726	0.000	0.21	0.0	726.2	OK
23.000	102	5	116.049	-0.101	0.000	0.00	0.0	0.0	OK
22.022	101	5	116.049	0.674	0.000	1.72	0.0	135.9	SURCHARGED
1.023	23	5	115.894	2.762	0.000	2.87	0.0	248.3	SURCHARGED
1.024	24	5	114.193	1.267	0.000	2.91	0.0	248.3	SURCHARGED
1.025	25	5	113.030	0.241	0.000	1.17	0.0	248.3	SURCHARGED
24.000	103	7	119.304	-0.221	0.000	0.62	0.0	135.2	OK
24.001	104	7	119.110	-0.282	0.000	0.68	0.0	379.3	OK
24.002	105	7	118.860	-0.283	0.000	0.69	0.0	381.5	OK
24.003	106	7	118.383	-1.764	0.000	0.01	0.0	382.0	OK
24.004	107	7	115.717	-0.830	0.000	0.02	0.0	382.4	OK
1.026	26	7	111.910	-0.998	0.000	0.02	0.0	594.6	OK
1.027	27	7	109.439	-0.308	0.000	0.13	0.0	593.1	OK
1.028	28	7	106.866	-0.325	0.000	0.08	0.0	591.3	OK
1.029	29	7	98.168	-0.309	0.000	0.10	0.0	589.0	OK
1.030	30	7	92.606	-0.776	0.000	0.04	0.0	590.8	OK
1.031	31	7	91.132	-1.118	0.000	0.04	0.0	593.7	OK
1.032	32	22	90.709	-1.414	0.000	0.03	0.0	595.4	OK
1.033	33	18	90.514	0.241	0.000	0.96	0.0	210.8	SURCHARGED
25.000	108	23	90.443	-1.443	0.000	0.02	0.0	448.3	OK
25.001	109	22	90.396	-1.490	0.000	0.02	0.0	443.1	OK
25.002	110	18	90.396	-1.490	0.000	0.01	0.0	437.9	OK
1.034	109	18	90.398	0.532	0.000	0.30	0.0	69.1	SURCHARGED
1.035	34	18	90.197	3.547	0.000	0.79	0.0	57.6	SURCHARGED

M-EC		Page 19
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 180 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

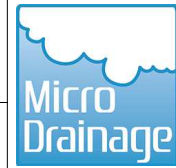
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water	Flooded	Pipe			Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)		Flow (l/s)
1.000	1	9	117.328	0.473	0.000	0.07	0.0	5.9	SURCHARGED
1.001	2	9	117.324	0.615	0.000	0.14	0.0	10.0	SURCHARGED
1.002	3	9	117.318	0.830	0.000	0.23	0.0	28.6	SURCHARGED
1.003	4	9	117.306	0.959	0.000	0.28	0.0	49.5	SURCHARGED
2.000	36	8	118.550	-0.125	0.000	0.64	0.0	58.5	OK
2.001	37	9	118.351	-0.110	0.000	0.71	0.0	73.5	OK
2.002	38	9	118.088	-0.125	0.000	0.62	0.0	84.6	OK
2.003	39	11	117.887	0.539	0.000	0.40	0.0	95.4	SURCHARGED
3.000	44	10	117.990	0.845	0.000	0.22	0.0	17.8	SURCHARGED
3.001	45	10	117.980	0.997	0.000	0.24	0.0	25.7	SURCHARGED
3.002	46	10	117.971	1.089	0.000	0.32	0.0	56.0	SURCHARGED
4.000	50	11	117.897	0.611	0.000	0.16	0.0	16.3	SURCHARGED
3.003	47	10	117.888	1.128	0.000	0.23	0.0	71.1	SURCHARGED
3.004	48	12	117.781	1.228	0.000	0.33	0.0	80.4	SURCHARGED
3.005	49	13	117.691	1.226	0.000	0.35	0.0	79.5	SURCHARGED
2.004	40	13	117.687	1.244	0.000	0.44	0.0	151.3	SURCHARGED
2.005	41	12	117.678	1.325	0.000	0.39	0.0	162.3	SURCHARGED
5.000	51	11	117.543	0.656	0.000	0.07	0.0	8.3	SURCHARGED
2.006	42	11	117.542	1.363	0.000	0.41	0.0	169.8	SURCHARGED
2.007	43	10	117.403	1.396	0.000	0.43	0.0	169.9	SURCHARGED
1.004	5	11	117.269	1.421	0.000	0.59	0.0	204.6	SURCHARGED
1.005	6	9	117.264	1.477	0.000	0.35	0.0	220.0	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



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Summary Wizard of 180 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	9	117.280	0.350	0.000	0.28	0.0	12.7	SURCHARGED
6.001	53	10	117.275	0.582	0.000	0.31	0.0	11.6	SURCHARGED
6.002	54	9	117.272	0.647	0.000	0.25	0.0	18.5	SURCHARGED
6.003	55	9	117.267	0.952	0.000	0.39	0.0	23.9	SURCHARGED
6.004	56	9	117.264	1.008	0.000	0.26	0.0	33.1	SURCHARGED
6.005	57	8	117.258	1.275	0.000	0.13	0.0	30.0	SURCHARGED
1.006	7	8	117.255	1.625	0.000	0.27	0.0	227.4	SURCHARGED
7.000	58	8	118.106	-0.154	0.000	0.22	0.0	8.4	OK
7.001	59	8	117.930	-0.165	0.000	0.16	0.0	18.9	OK
1.007	8	8	117.082	1.741	0.000	0.32	0.0	239.1	SURCHARGED
8.000	60	9	116.935	0.079	0.000	0.27	0.0	10.5	SURCHARGED
8.001	61	8	116.936	0.252	0.000	0.11	0.0	11.2	SURCHARGED
8.002	35	8	116.935	0.507	0.000	0.05	0.0	13.0	SURCHARGED
1.008	10	8	116.931	1.852	0.000	0.73	0.0	243.2	SURCHARGED
9.000	62	8	119.385	-0.167	0.000	0.15	0.0	7.3	OK
9.001	63	8	118.999	-0.193	0.000	0.28	0.0	28.3	OK
9.002	64	8	118.585	-0.221	0.000	0.16	0.0	38.7	OK
9.003	148	9	116.932	1.453	0.000	0.22	0.0	35.0	SURCHARGED
1.009	11	8	116.928	1.868	0.000	0.37	0.0	268.7	SURCHARGED
1.010	12	8	116.923	1.947	0.000	0.73	0.0	272.8	SURCHARGED
1.011	13	8	116.919	1.965	0.000	0.63	0.0	274.7	SURCHARGED
1.012	14	8	116.914	1.993	0.000	0.31	0.0	291.0	SURCHARGED
1.013	15	8	116.910	2.040	0.000	0.64	0.0	291.0	SURCHARGED
1.014	16	8	116.907	2.060	0.000	0.32	0.0	290.6	SURCHARGED
10.000	65	11	117.185	-0.184	0.000	0.31	0.0	20.6	OK
11.000	136	8	118.064	-0.150	0.000	0.24	0.0	14.5	OK
11.001	137	8	117.763	-0.144	0.000	0.28	0.0	15.7	OK
11.002	138	8	117.508	-0.212	0.000	0.19	0.0	24.3	OK
10.001	66	8	117.139	-0.061	0.000	0.25	0.0	55.7	OK
10.002	67	8	117.089	0.380	0.000	0.27	0.0	61.0	SURCHARGED
12.000	9	8	117.073	-0.211	0.000	0.01	0.0	1.8	OK
12.001	75	8	117.072	0.406	0.000	0.15	0.0	11.8	SURCHARGED
12.002	76	8	117.068	0.579	0.000	0.07	0.0	21.2	SURCHARGED
10.003	68	8	117.066	0.747	0.000	0.34	0.0	82.7	SURCHARGED
10.004	69	8	117.049	0.859	0.000	0.26	0.0	83.7	SURCHARGED
10.005	70	8	117.040	0.939	0.000	0.17	0.0	81.7	SURCHARGED
10.006	71	8	117.035	0.988	0.000	0.18	0.0	92.5	SURCHARGED
13.000	147	8	117.047	-0.082	0.000	0.06	0.0	4.3	OK
13.001	112	8	117.045	0.372	0.000	0.10	0.0	9.8	SURCHARGED
13.002	113	8	117.043	0.553	0.000	0.07	0.0	12.3	SURCHARGED
14.000	114	9	117.307	-0.194	0.000	0.05	0.0	2.7	OK
14.001	115	11	117.058	-0.181	0.000	0.09	0.0	5.5	OK
14.002	116	8	117.047	0.268	0.000	0.15	0.0	10.5	SURCHARGED
13.003	77	8	117.041	0.639	0.000	0.14	0.0	23.8	SURCHARGED
15.000	134	10	117.254	-0.178	0.000	0.10	0.0	10.2	OK
13.004	135	8	117.039	0.727	0.000	0.17	0.0	39.4	SURCHARGED
13.005	78	8	117.033	0.938	0.000	0.14	0.0	38.4	SURCHARGED
10.007	72	8	117.029	1.053	0.000	0.07	0.0	123.4	SURCHARGED
10.008	73	8	116.904	1.648	0.000	0.06	0.0	111.3	SURCHARGED
10.009	74	8	116.903	1.867	0.000	0.06	0.0	113.3	SURCHARGED

M-EC		Page 21
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 180 minute 30 year Summer I+0% for STORM.SWS

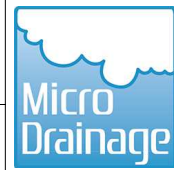
PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	8	116.903	2.033	0.000	0.27	0.0	393.6	SURCHARGED
1.016	18	8	116.898	2.131	0.000	0.23	0.0	392.0	SURCHARGED
16.000	142	8	118.201	-0.098	0.000	0.26	0.0	11.6	OK
16.001	143	8	116.893	1.293	0.000	0.28	0.0	32.8	SURCHARGED
1.017	18a	7	116.892	2.268	0.000	0.27	0.0	436.6	SURCHARGED
1.018	19	7	116.887	2.369	0.000	0.35	0.0	435.3	SURCHARGED
17.000	118	7	117.288	-0.095	0.000	0.02	0.0	0.7	OK
17.001	119	7	117.287	0.067	0.000	0.11	0.0	4.8	SURCHARGED
17.002	120	7	117.283	0.211	0.000	0.31	0.0	15.1	SURCHARGED
18.000	129	9	117.480	-0.177	0.000	0.10	0.0	7.3	OK
18.001	130	7	117.273	0.039	0.000	0.13	0.0	9.9	SURCHARGED
17.003	121	7	117.262	0.586	0.000	0.38	0.0	30.4	SURCHARGED
19.000	131	9	117.391	-0.150	0.000	0.24	0.0	14.2	OK
19.001	132	7	117.274	0.272	0.000	0.44	0.0	18.6	SURCHARGED
19.002	133	7	117.266	0.353	0.000	0.18	0.0	21.8	SURCHARGED
17.004	122	7	117.254	0.681	0.000	0.26	0.0	53.2	SURCHARGED
17.005	123	7	117.212	0.767	0.000	0.30	0.0	59.6	SURCHARGED
20.000	139	8	117.887	-0.173	0.000	0.12	0.0	9.9	OK
20.001	140	10	117.123	-0.123	0.000	0.27	0.0	22.0	OK
17.006	124	7	117.098	0.779	0.000	0.22	0.0	79.4	SURCHARGED
17.007	125	8	116.989	1.087	0.000	0.13	0.0	69.9	SURCHARGED
17.008	126	8	116.885	1.261	0.000	0.05	0.0	63.2	SURCHARGED
17.009	127	8	116.883	1.852	0.000	0.06	0.0	54.1	SURCHARGED
17.010	128	7	116.883	2.171	0.000	0.05	0.0	57.9	SURCHARGED
1.019	19a	7	116.882	2.417	0.000	0.37	0.0	509.9	SURCHARGED
21.000	98	7	116.852	-0.348	0.000	0.02	0.0	102.8	OK
1.020	20	7	116.876	3.322	0.000	1.84	0.0	154.9	SURCHARGED
1.021	21	7	116.514	3.105	0.000	1.82	0.0	155.0	SURCHARGED
1.022	22	6	116.091	2.870	0.000	1.90	0.0	155.1	SURCHARGED
22.000	79	8	122.641	-0.218	0.000	0.17	0.0	26.2	OK
22.001	80	8	121.860	-0.204	0.000	0.22	0.0	26.1	OK
22.002	81	8	121.453	-0.195	0.000	0.26	0.0	25.9	OK
22.003	82	8	121.239	-0.183	0.000	0.32	0.0	25.7	OK
22.004	83	9	121.021	-0.219	0.000	0.34	0.0	31.8	OK
22.005	84	9	120.972	-0.216	0.000	0.37	0.0	38.1	OK
22.006	85	9	120.856	-0.216	0.000	0.37	0.0	44.2	OK
22.007	86	9	120.595	-0.275	0.000	0.32	0.0	50.0	OK
22.008	87	9	120.508	-0.274	0.000	0.32	0.0	55.5	OK
22.009	88	9	120.318	-0.253	0.000	0.39	0.0	60.7	OK
22.010	89	9	120.229	-0.265	0.000	0.35	0.0	66.1	OK
22.011	90	9	119.922	-0.312	0.000	0.20	0.0	71.5	OK
22.012	91	9	119.451	-0.303	0.000	0.23	0.0	76.7	OK
22.013	92	9	118.934	-0.303	0.000	0.49	0.0	133.0	OK
22.014	93	9	118.836	-0.355	0.000	0.46	0.0	196.5	OK
22.015	94	9	118.712	-0.375	0.000	0.50	0.0	263.3	OK
22.016	95	9	118.530	-0.474	0.000	0.29	0.0	320.2	OK
22.017	96	9	117.912	-0.434	0.000	0.46	0.0	324.0	OK
22.018	97	9	117.681	-0.461	0.000	0.40	0.0	489.7	OK
22.019	98	9	117.087	-0.452	0.000	0.52	0.0	577.2	OK
22.020	99	9	116.944	-0.445	0.000	0.63	0.0	579.9	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury

Date 04.03.14
File storm.mdx

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Micro Drainage

Network 2014.1

Summary Wizard of 180 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	9	116.567	-0.765	0.000	0.17	0.0	580.0	OK
23.000	102	6	116.029	-0.121	0.000	0.00	0.0	0.0	OK
22.022	101	6	116.029	0.654	0.000	1.80	0.0	142.4	SURCHARGED
1.023	23	6	115.875	2.743	0.000	2.87	0.0	247.7	SURCHARGED
1.024	24	6	114.183	1.257	0.000	2.91	0.0	247.7	SURCHARGED
1.025	25	6	113.025	0.236	0.000	1.17	0.0	247.7	SURCHARGED
24.000	103	8	119.263	-0.262	0.000	0.49	0.0	105.7	OK
24.001	104	9	119.039	-0.353	0.000	0.54	0.0	301.8	OK
24.002	105	9	118.788	-0.355	0.000	0.54	0.0	297.8	OK
24.003	106	9	118.365	-1.782	0.000	0.00	0.0	297.4	OK
24.004	107	9	115.700	-0.847	0.000	0.02	0.0	298.6	OK
1.026	26	9	111.898	-1.010	0.000	0.02	0.0	529.0	OK
1.027	27	9	109.429	-0.318	0.000	0.12	0.0	527.4	OK
1.028	28	9	106.858	-0.333	0.000	0.07	0.0	525.4	OK
1.029	29	9	98.159	-0.318	0.000	0.09	0.0	525.2	OK
1.030	30	9	92.595	-0.787	0.000	0.04	0.0	527.1	OK
1.031	31	11	91.114	-1.136	0.000	0.04	0.0	529.0	OK
1.032	32	24	90.696	-1.427	0.000	0.03	0.0	529.7	OK
1.033	33	16	90.679	0.406	0.000	0.95	0.0	208.9	SURCHARGED
25.000	108	18	90.583	-1.303	0.000	0.02	0.0	351.3	OK
25.001	109	16	90.583	-1.303	0.000	0.01	0.0	345.5	OK
25.002	110	16	90.583	-1.303	0.000	0.01	0.0	349.6	OK
1.034	109	16	90.584	0.718	0.000	0.29	0.0	66.6	SURCHARGED
1.035	34	16	90.375	3.725	0.000	0.81	0.0	59.0	SURCHARGED

M-EC		Page 23
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

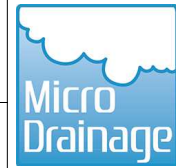
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	11	117.245	0.390	0.000	0.06	0.0	4.9	SURCHARGED
1.001	2	11	117.244	0.535	0.000	0.12	0.0	8.3	SURCHARGED
1.002	3	11	117.242	0.754	0.000	0.17	0.0	21.0	SURCHARGED
1.003	4	11	117.238	0.891	0.000	0.23	0.0	40.2	SURCHARGED
2.000	36	10	118.528	-0.147	0.000	0.51	0.0	47.4	OK
2.001	37	10	118.325	-0.136	0.000	0.58	0.0	59.7	OK
2.002	38	11	118.065	-0.148	0.000	0.51	0.0	69.0	OK
2.003	39	12	117.839	0.491	0.000	0.32	0.0	75.8	SURCHARGED
3.000	44	12	117.927	0.782	0.000	0.18	0.0	14.7	SURCHARGED
3.001	45	11	117.917	0.934	0.000	0.20	0.0	21.5	SURCHARGED
3.002	46	11	117.909	1.027	0.000	0.26	0.0	45.6	SURCHARGED
4.000	50	12	117.888	0.602	0.000	0.13	0.0	12.8	SURCHARGED
3.003	47	11	117.882	1.122	0.000	0.17	0.0	53.8	SURCHARGED
3.004	48	11	117.787	1.234	0.000	0.28	0.0	68.8	SURCHARGED
3.005	49	12	117.703	1.238	0.000	0.31	0.0	69.2	SURCHARGED
2.004	40	12	117.699	1.256	0.000	0.38	0.0	131.8	SURCHARGED
2.005	41	13	117.633	1.280	0.000	0.33	0.0	139.8	SURCHARGED
5.000	51	12	117.501	0.614	0.000	0.06	0.0	6.9	SURCHARGED
2.006	42	12	117.499	1.320	0.000	0.33	0.0	137.1	SURCHARGED
2.007	43	11	117.365	1.358	0.000	0.32	0.0	129.5	SURCHARGED
1.004	5	12	117.228	1.380	0.000	0.47	0.0	163.0	SURCHARGED
1.005	6	12	117.224	1.437	0.000	0.28	0.0	176.6	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Network 2014.1

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	11	117.239	0.309	0.000	0.22	0.0	9.8	SURCHARGED
6.001	53	12	117.234	0.541	0.000	0.27	0.0	9.7	SURCHARGED
6.002	54	12	117.232	0.607	0.000	0.21	0.0	15.6	SURCHARGED
6.003	55	11	117.227	0.912	0.000	0.30	0.0	18.4	SURCHARGED
6.004	56	11	117.225	0.969	0.000	0.21	0.0	26.3	SURCHARGED
6.005	57	11	117.219	1.236	0.000	0.10	0.0	22.4	SURCHARGED
1.006	7	11	117.217	1.587	0.000	0.24	0.0	199.5	SURCHARGED
7.000	58	10	118.098	-0.162	0.000	0.17	0.0	6.8	OK
7.001	59	10	117.923	-0.172	0.000	0.13	0.0	15.2	OK
1.007	8	11	117.038	1.697	0.000	0.28	0.0	208.1	SURCHARGED
8.000	60	12	116.884	0.028	0.000	0.22	0.0	8.5	SURCHARGED
8.001	61	11	116.883	0.199	0.000	0.08	0.0	9.0	SURCHARGED
8.002	35	11	116.878	0.450	0.000	0.04	0.0	10.8	SURCHARGED
1.008	10	12	116.879	1.800	0.000	0.64	0.0	212.8	SURCHARGED
9.000	62	10	119.379	-0.173	0.000	0.12	0.0	5.9	OK
9.001	63	10	118.988	-0.204	0.000	0.22	0.0	22.9	OK
9.002	64	10	118.577	-0.229	0.000	0.13	0.0	31.4	OK
9.003	148	12	116.875	1.396	0.000	0.18	0.0	28.6	SURCHARGED
1.009	11	11	116.875	1.815	0.000	0.32	0.0	234.6	SURCHARGED
1.010	12	9	116.871	1.895	0.000	0.64	0.0	237.7	SURCHARGED
1.011	13	9	116.867	1.913	0.000	0.55	0.0	239.0	SURCHARGED
1.012	14	9	116.862	1.941	0.000	0.27	0.0	253.1	SURCHARGED
1.013	15	9	116.859	1.989	0.000	0.55	0.0	253.0	SURCHARGED
1.014	16	9	116.856	2.009	0.000	0.28	0.0	252.7	SURCHARGED
10.000	65	12	117.171	-0.198	0.000	0.25	0.0	16.7	OK
11.000	136	10	118.056	-0.158	0.000	0.20	0.0	11.7	OK
11.001	137	10	117.754	-0.153	0.000	0.23	0.0	12.7	OK
11.002	138	10	117.497	-0.222	0.000	0.15	0.0	19.7	OK
10.001	66	12	117.014	-0.186	0.000	0.21	0.0	45.3	OK
10.002	67	9	116.995	0.286	0.000	0.21	0.0	47.5	SURCHARGED
12.000	9	12	117.001	-0.283	0.000	0.01	0.0	1.4	OK
12.001	75	9	116.988	0.322	0.000	0.12	0.0	9.3	SURCHARGED
12.002	76	9	116.983	0.494	0.000	0.05	0.0	16.3	SURCHARGED
10.003	68	9	116.981	0.662	0.000	0.27	0.0	64.9	SURCHARGED
10.004	69	10	116.970	0.780	0.000	0.23	0.0	72.1	SURCHARGED
10.005	70	10	116.962	0.861	0.000	0.14	0.0	64.8	SURCHARGED
10.006	71	10	116.958	0.910	0.000	0.14	0.0	69.3	SURCHARGED
13.000	147	9	116.975	-0.154	0.000	0.05	0.0	3.5	OK
13.001	112	9	116.972	0.299	0.000	0.08	0.0	7.7	SURCHARGED
13.002	113	10	116.969	0.479	0.000	0.06	0.0	10.2	SURCHARGED
14.000	114	10	117.304	-0.197	0.000	0.04	0.0	2.2	OK
14.001	115	12	117.053	-0.186	0.000	0.07	0.0	4.4	OK
14.002	116	9	116.974	0.195	0.000	0.12	0.0	8.5	SURCHARGED
13.003	77	10	116.967	0.564	0.000	0.11	0.0	19.3	SURCHARGED
15.000	134	11	117.249	-0.183	0.000	0.08	0.0	8.2	OK
13.004	135	10	116.964	0.652	0.000	0.12	0.0	29.2	SURCHARGED
13.005	78	10	116.957	0.862	0.000	0.12	0.0	32.5	SURCHARGED
10.007	72	10	116.952	0.977	0.000	0.06	0.0	99.8	SURCHARGED
10.008	73	9	116.854	1.597	0.000	0.05	0.0	94.1	SURCHARGED
10.009	74	9	116.853	1.816	0.000	0.05	0.0	97.1	SURCHARGED

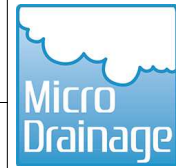
M-EC		Page 25
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	9	116.853	1.983	0.000	0.24	0.0	341.9	SURCHARGED
1.016	18	9	116.849	2.082	0.000	0.20	0.0	342.0	SURCHARGED
16.000	142	10	118.195	-0.104	0.000	0.21	0.0	9.3	OK
16.001	143	9	116.848	1.248	0.000	0.23	0.0	26.8	SURCHARGED
1.017	18a	9	116.843	2.219	0.000	0.23	0.0	377.3	SURCHARGED
1.018	19	9	116.839	2.321	0.000	0.31	0.0	377.3	SURCHARGED
17.000	118	11	117.172	-0.211	0.000	0.01	0.0	0.6	OK
17.001	119	10	117.102	-0.118	0.000	0.09	0.0	3.9	OK
17.002	120	8	117.098	0.027	0.000	0.25	0.0	12.2	SURCHARGED
18.000	129	10	117.475	-0.182	0.000	0.08	0.0	5.8	OK
18.001	130	11	117.089	-0.145	0.000	0.11	0.0	8.0	OK
17.003	121	9	117.079	0.403	0.000	0.32	0.0	25.8	SURCHARGED
19.000	131	11	117.383	-0.158	0.000	0.19	0.0	11.4	OK
19.001	132	8	117.090	0.088	0.000	0.36	0.0	15.1	SURCHARGED
19.002	133	9	117.083	0.170	0.000	0.15	0.0	17.6	SURCHARGED
17.004	122	9	117.072	0.499	0.000	0.22	0.0	44.8	SURCHARGED
17.005	123	9	117.061	0.616	0.000	0.24	0.0	47.2	SURCHARGED
20.000	139	10	117.882	-0.178	0.000	0.10	0.0	8.0	OK
20.001	140	11	117.092	-0.155	0.000	0.21	0.0	17.8	OK
17.006	124	10	116.962	0.642	0.000	0.17	0.0	61.5	SURCHARGED
17.007	125	10	116.856	0.954	0.000	0.11	0.0	56.5	SURCHARGED
17.008	126	10	116.837	1.213	0.000	0.05	0.0	55.0	SURCHARGED
17.009	127	10	116.834	1.804	0.000	0.05	0.0	47.2	SURCHARGED
17.010	128	9	116.835	2.123	0.000	0.04	0.0	50.4	SURCHARGED
1.019	19a	8	116.835	2.370	0.000	0.32	0.0	443.3	SURCHARGED
21.000	98	8	116.813	-0.387	0.000	0.02	0.0	97.7	OK
1.020	20	8	116.829	3.275	0.000	1.84	0.0	154.2	SURCHARGED
1.021	21	8	116.478	3.069	0.000	1.81	0.0	153.6	SURCHARGED
1.022	22	9	116.057	2.836	0.000	1.88	0.0	153.5	SURCHARGED
22.000	79	10	122.632	-0.227	0.000	0.13	0.0	21.2	OK
22.001	80	10	121.850	-0.214	0.000	0.18	0.0	21.1	OK
22.002	81	10	121.441	-0.207	0.000	0.21	0.0	21.1	OK
22.003	82	10	121.226	-0.196	0.000	0.26	0.0	21.0	OK
22.004	83	10	121.003	-0.237	0.000	0.28	0.0	26.1	OK
22.005	84	10	120.954	-0.234	0.000	0.30	0.0	31.0	OK
22.006	85	10	120.839	-0.233	0.000	0.30	0.0	35.8	OK
22.007	86	10	120.577	-0.293	0.000	0.26	0.0	40.6	OK
22.008	87	10	120.490	-0.292	0.000	0.26	0.0	45.3	OK
22.009	88	10	120.299	-0.272	0.000	0.33	0.0	50.2	OK
22.010	89	10	120.210	-0.284	0.000	0.29	0.0	54.9	OK
22.011	90	10	119.908	-0.326	0.000	0.17	0.0	59.5	OK
22.012	91	10	119.437	-0.316	0.000	0.19	0.0	64.0	OK
22.013	92	10	118.904	-0.332	0.000	0.40	0.0	109.7	OK
22.014	93	10	118.806	-0.385	0.000	0.38	0.0	162.2	OK
22.015	94	10	118.676	-0.412	0.000	0.41	0.0	216.7	OK
22.016	95	10	118.505	-0.499	0.000	0.24	0.0	262.6	OK
22.017	96	10	117.876	-0.470	0.000	0.38	0.0	269.0	OK
22.018	97	10	117.648	-0.494	0.000	0.33	0.0	405.4	OK
22.019	98	10	117.022	-0.517	0.000	0.43	0.0	483.7	OK
22.020	99	10	116.877	-0.512	0.000	0.52	0.0	483.0	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Network 2014.1

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	10	116.541	-0.791	0.000	0.14	0.0	482.6	OK
23.000	102	17	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	9	115.992	0.617	0.000	1.73	0.0	136.5	SURCHARGED
1.023	23	9	115.840	2.708	0.000	2.85	0.0	246.6	SURCHARGED
1.024	24	9	114.163	1.237	0.000	2.89	0.0	246.6	SURCHARGED
1.025	25	9	113.016	0.227	0.000	1.16	0.0	246.6	SURCHARGED
24.000	103	10	119.230	-0.295	0.000	0.40	0.0	86.0	OK
24.001	104	10	118.993	-0.399	0.000	0.44	0.0	245.6	OK
24.002	105	10	118.746	-0.397	0.000	0.45	0.0	246.0	OK
24.003	106	10	118.351	-1.796	0.000	0.00	0.0	246.2	OK
24.004	107	10	115.686	-0.861	0.000	0.01	0.0	246.5	OK
1.026	26	10	111.889	-1.019	0.000	0.02	0.0	478.8	OK
1.027	27	10	109.421	-0.326	0.000	0.11	0.0	477.9	OK
1.028	28	10	106.851	-0.340	0.000	0.07	0.0	476.8	OK
1.029	29	10	98.151	-0.326	0.000	0.08	0.0	475.3	OK
1.030	30	10	92.587	-0.795	0.000	0.03	0.0	474.9	OK
1.031	31	12	91.100	-1.150	0.000	0.03	0.0	476.9	OK
1.032	32	14	90.784	-1.339	0.000	0.03	0.0	478.0	OK
1.033	33	14	90.773	0.500	0.000	0.94	0.0	206.2	SURCHARGED
25.000	108	14	90.674	-1.212	0.000	0.01	0.0	284.5	OK
25.001	109	14	90.674	-1.212	0.000	0.01	0.0	282.7	OK
25.002	110	14	90.674	-1.212	0.000	0.01	0.0	279.6	OK
1.034	109	14	90.674	0.808	0.000	0.26	0.0	59.6	SURCHARGED
1.035	34	14	90.460	3.810	0.000	0.82	0.0	59.6	SURCHARGED

M-EC		Page 27
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

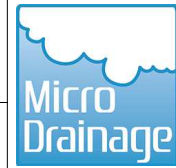
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	14	117.150	0.295	0.000	0.05	0.0	3.7	SURCHARGED
1.001	2	14	117.149	0.440	0.000	0.09	0.0	6.2	SURCHARGED
1.002	3	15	117.147	0.659	0.000	0.13	0.0	15.8	SURCHARGED
1.003	4	14	117.144	0.797	0.000	0.17	0.0	30.0	SURCHARGED
2.000	36	13	118.502	-0.173	0.000	0.38	0.0	34.7	OK
2.001	37	13	118.297	-0.164	0.000	0.42	0.0	43.8	OK
2.002	38	13	118.040	-0.173	0.000	0.37	0.0	50.7	OK
2.003	39	14	117.684	0.336	0.000	0.24	0.0	56.6	SURCHARGED
3.000	44	14	117.754	0.609	0.000	0.14	0.0	11.1	SURCHARGED
3.001	45	14	117.746	0.763	0.000	0.15	0.0	16.2	SURCHARGED
3.002	46	14	117.740	0.858	0.000	0.20	0.0	34.4	SURCHARGED
4.000	50	14	117.735	0.449	0.000	0.09	0.0	9.6	SURCHARGED
3.003	47	14	117.731	0.971	0.000	0.13	0.0	41.3	SURCHARGED
3.004	48	14	117.722	1.169	0.000	0.21	0.0	51.7	SURCHARGED
3.005	49	14	117.610	1.145	0.000	0.23	0.0	52.3	SURCHARGED
2.004	40	14	117.607	1.164	0.000	0.28	0.0	98.8	SURCHARGED
2.005	41	15	117.530	1.177	0.000	0.25	0.0	106.2	SURCHARGED
5.000	51	14	117.409	0.522	0.000	0.04	0.0	5.2	SURCHARGED
2.006	42	15	117.408	1.229	0.000	0.26	0.0	107.0	SURCHARGED
2.007	43	14	117.273	1.266	0.000	0.25	0.0	101.3	SURCHARGED
1.004	5	14	117.137	1.289	0.000	0.36	0.0	123.7	SURCHARGED
1.005	6	14	117.132	1.345	0.000	0.22	0.0	134.1	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Micro Drainage

Network 2014.1

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	14	117.146	0.216	0.000	0.16	0.0	7.4	SURCHARGED
6.001	53	14	117.141	0.448	0.000	0.20	0.0	7.4	SURCHARGED
6.002	54	14	117.139	0.514	0.000	0.16	0.0	11.7	SURCHARGED
6.003	55	14	117.135	0.820	0.000	0.23	0.0	13.9	SURCHARGED
6.004	56	14	117.133	0.877	0.000	0.16	0.0	19.9	SURCHARGED
6.005	57	14	117.128	1.145	0.000	0.08	0.0	19.4	SURCHARGED
1.006	7	14	117.125	1.495	0.000	0.18	0.0	152.2	SURCHARGED
7.000	58	13	118.088	-0.172	0.000	0.13	0.0	5.0	OK
7.001	59	13	117.916	-0.179	0.000	0.09	0.0	11.2	OK
1.007	8	14	116.951	1.610	0.000	0.21	0.0	160.3	SURCHARGED
8.000	60	14	116.801	-0.055	0.000	0.16	0.0	6.2	OK
8.001	61	14	116.796	0.112	0.000	0.06	0.0	6.7	SURCHARGED
8.002	35	14	116.796	0.368	0.000	0.03	0.0	8.2	SURCHARGED
1.008	10	14	116.796	1.717	0.000	0.49	0.0	163.7	SURCHARGED
9.000	62	13	119.372	-0.180	0.000	0.09	0.0	4.3	OK
9.001	63	13	118.972	-0.220	0.000	0.16	0.0	16.7	OK
9.002	64	13	118.567	-0.239	0.000	0.09	0.0	22.9	OK
9.003	148	14	116.795	1.316	0.000	0.13	0.0	21.2	SURCHARGED
1.009	11	14	116.793	1.733	0.000	0.25	0.0	180.4	SURCHARGED
1.010	12	14	116.787	1.811	0.000	0.49	0.0	182.6	SURCHARGED
1.011	13	14	116.783	1.829	0.000	0.42	0.0	183.1	SURCHARGED
1.012	14	14	116.778	1.857	0.000	0.21	0.0	194.7	SURCHARGED
1.013	15	13	116.774	1.904	0.000	0.43	0.0	194.2	SURCHARGED
1.014	16	12	116.771	1.924	0.000	0.21	0.0	193.6	SURCHARGED
10.000	65	13	117.156	-0.213	0.000	0.19	0.0	12.3	OK
11.000	136	13	118.045	-0.169	0.000	0.14	0.0	8.5	OK
11.001	137	13	117.743	-0.164	0.000	0.16	0.0	9.3	OK
11.002	138	13	117.486	-0.234	0.000	0.11	0.0	14.4	OK
10.001	66	14	116.922	-0.278	0.000	0.15	0.0	33.3	OK
10.002	67	12	116.845	0.136	0.000	0.16	0.0	35.9	SURCHARGED
12.000	9	13	116.996	-0.288	0.000	0.01	0.0	1.1	OK
12.001	75	12	116.838	0.172	0.000	0.09	0.0	6.9	SURCHARGED
12.002	76	12	116.833	0.344	0.000	0.04	0.0	12.3	SURCHARGED
10.003	68	12	116.831	0.512	0.000	0.20	0.0	48.7	SURCHARGED
10.004	69	12	116.815	0.625	0.000	0.17	0.0	54.0	SURCHARGED
10.005	70	12	116.808	0.707	0.000	0.11	0.0	51.3	SURCHARGED
10.006	71	13	116.804	0.757	0.000	0.11	0.0	53.6	SURCHARGED
13.000	147	14	116.931	-0.198	0.000	0.04	0.0	2.5	OK
13.001	112	12	116.818	0.145	0.000	0.06	0.0	5.7	SURCHARGED
13.002	113	12	116.815	0.325	0.000	0.05	0.0	7.6	SURCHARGED
14.000	114	13	117.300	-0.201	0.000	0.03	0.0	1.6	OK
14.001	115	13	117.046	-0.193	0.000	0.05	0.0	3.2	OK
14.002	116	12	116.820	0.041	0.000	0.09	0.0	6.2	SURCHARGED
13.003	77	12	116.813	0.410	0.000	0.08	0.0	14.3	SURCHARGED
15.000	134	13	117.242	-0.190	0.000	0.06	0.0	6.0	OK
13.004	135	12	116.810	0.498	0.000	0.09	0.0	22.1	SURCHARGED
13.005	78	12	116.803	0.709	0.000	0.09	0.0	24.4	SURCHARGED
10.007	72	13	116.799	0.823	0.000	0.04	0.0	75.4	SURCHARGED
10.008	73	12	116.770	1.513	0.000	0.04	0.0	70.0	SURCHARGED
10.009	74	12	116.768	1.732	0.000	0.04	0.0	72.1	SURCHARGED

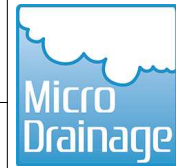
M-EC		Page 29
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	12	116.767	1.897	0.000	0.19	0.0	265.0	SURCHARGED
1.016	18	12	116.762	1.995	0.000	0.15	0.0	264.2	SURCHARGED
16.000	142	13	118.188	-0.111	0.000	0.15	0.0	6.8	OK
16.001	143	12	116.762	1.162	0.000	0.17	0.0	20.0	SURCHARGED
1.017	18a	12	116.757	2.133	0.000	0.18	0.0	293.0	SURCHARGED
1.018	19	12	116.752	2.234	0.000	0.24	0.0	292.3	SURCHARGED
17.000	118	13	117.168	-0.215	0.000	0.01	0.0	0.4	OK
17.001	119	13	117.031	-0.189	0.000	0.06	0.0	2.8	OK
17.002	120	14	116.911	-0.161	0.000	0.18	0.0	8.9	OK
18.000	129	13	117.467	-0.190	0.000	0.06	0.0	4.3	OK
18.001	130	13	117.051	-0.183	0.000	0.08	0.0	5.9	OK
17.003	121	13	116.763	0.087	0.000	0.24	0.0	19.1	SURCHARGED
19.000	131	13	117.372	-0.169	0.000	0.14	0.0	8.4	OK
19.001	132	14	116.855	-0.147	0.000	0.26	0.0	11.0	OK
19.002	133	15	116.762	-0.151	0.000	0.11	0.0	12.9	OK
17.004	122	13	116.762	0.189	0.000	0.17	0.0	33.5	SURCHARGED
17.005	123	13	116.762	0.316	0.000	0.19	0.0	37.2	SURCHARGED
20.000	139	13	117.874	-0.186	0.000	0.07	0.0	5.8	OK
20.001	140	13	117.080	-0.166	0.000	0.16	0.0	13.0	OK
17.006	124	13	116.757	0.438	0.000	0.13	0.0	48.6	SURCHARGED
17.007	125	12	116.751	0.849	0.000	0.08	0.0	43.4	SURCHARGED
17.008	126	12	116.750	1.126	0.000	0.04	0.0	42.5	SURCHARGED
17.009	127	12	116.749	1.719	0.000	0.05	0.0	43.9	SURCHARGED
17.010	128	12	116.748	2.036	0.000	0.04	0.0	46.6	SURCHARGED
1.019	19a	12	116.747	2.282	0.000	0.25	0.0	349.4	SURCHARGED
21.000	98	11	116.723	-0.477	0.000	0.02	0.0	81.6	OK
1.020	20	12	116.741	3.187	0.000	1.71	0.0	143.5	SURCHARGED
1.021	21	13	116.392	2.983	0.000	1.69	0.0	143.5	SURCHARGED
1.022	22	11	115.971	2.750	0.000	1.76	0.0	143.6	SURCHARGED
22.000	79	13	122.622	-0.237	0.000	0.10	0.0	15.5	OK
22.001	80	13	121.836	-0.228	0.000	0.13	0.0	15.5	OK
22.002	81	13	121.426	-0.222	0.000	0.15	0.0	15.5	OK
22.003	82	13	121.210	-0.212	0.000	0.19	0.0	15.5	OK
22.004	83	13	120.982	-0.258	0.000	0.21	0.0	19.2	OK
22.005	84	13	120.932	-0.256	0.000	0.22	0.0	22.9	OK
22.006	85	13	120.817	-0.255	0.000	0.22	0.0	26.6	OK
22.007	86	13	120.554	-0.316	0.000	0.19	0.0	30.3	OK
22.008	87	13	120.468	-0.315	0.000	0.20	0.0	33.8	OK
22.009	88	13	120.271	-0.300	0.000	0.24	0.0	37.2	OK
22.010	89	13	120.186	-0.308	0.000	0.21	0.0	40.3	OK
22.011	90	13	119.890	-0.343	0.000	0.13	0.0	44.0	OK
22.012	91	13	119.418	-0.336	0.000	0.14	0.0	47.3	OK
22.013	92	13	118.865	-0.372	0.000	0.30	0.0	82.7	OK
22.014	93	13	118.761	-0.429	0.000	0.28	0.0	121.6	OK
22.015	94	13	118.623	-0.464	0.000	0.31	0.0	161.9	OK
22.016	95	13	118.468	-0.536	0.000	0.18	0.0	196.7	OK
22.017	96	13	117.820	-0.526	0.000	0.28	0.0	198.6	OK
22.018	97	13	117.597	-0.545	0.000	0.25	0.0	301.5	OK
22.019	98	13	116.940	-0.599	0.000	0.32	0.0	358.0	OK
22.020	99	13	116.795	-0.594	0.000	0.39	0.0	356.2	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
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Network 2014.1

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	13	116.507	-0.825	0.000	0.10	0.0	357.6	OK
23.000	102	15	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	12	115.906	0.531	0.000	1.74	0.0	137.9	SURCHARGED
1.023	23	11	115.758	2.626	0.000	2.82	0.0	243.9	SURCHARGED
1.024	24	11	114.118	1.192	0.000	2.86	0.0	243.9	SURCHARGED
1.025	25	11	112.996	0.207	0.000	1.15	0.0	243.9	SURCHARGED
24.000	103	13	119.193	-0.332	0.000	0.29	0.0	63.2	OK
24.001	104	13	118.936	-0.456	0.000	0.33	0.0	182.6	OK
24.002	105	13	118.691	-0.452	0.000	0.33	0.0	181.3	OK
24.003	106	13	118.333	-1.814	0.000	0.00	0.0	181.1	OK
24.004	107	13	115.671	-0.876	0.000	0.01	0.0	180.7	OK
1.026	26	13	111.878	-1.030	0.000	0.02	0.0	412.0	OK
1.027	27	13	109.411	-0.336	0.000	0.09	0.0	413.4	OK
1.028	28	13	106.843	-0.348	0.000	0.06	0.0	413.7	OK
1.029	29	13	98.140	-0.337	0.000	0.07	0.0	414.6	OK
1.030	30	13	92.572	-0.810	0.000	0.03	0.0	415.3	OK
1.031	31	16	91.080	-1.170	0.000	0.03	0.0	415.3	OK
1.032	32	13	90.857	-1.266	0.000	0.02	0.0	415.2	OK
1.033	33	13	90.843	0.570	0.000	0.86	0.0	188.9	SURCHARGED
25.000	108	13	90.744	-1.142	0.000	0.01	0.0	208.7	OK
25.001	109	13	90.744	-1.142	0.000	0.01	0.0	208.5	OK
25.002	110	13	90.744	-1.142	0.000	0.01	0.0	205.1	OK
1.034	109	13	90.744	0.878	0.000	0.26	0.0	60.1	SURCHARGED
1.035	34	13	90.527	3.877	0.000	0.83	0.0	60.1	SURCHARGED

M-EC		Page 31
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	16	117.054	0.199	0.000	0.04	0.0	2.9	SURCHARGED
1.001	2	17	117.053	0.344	0.000	0.07	0.0	5.0	SURCHARGED
1.002	3	17	117.051	0.563	0.000	0.11	0.0	13.7	SURCHARGED
1.003	4	17	117.049	0.702	0.000	0.14	0.0	24.2	SURCHARGED
2.000	36	14	118.487	-0.188	0.000	0.30	0.0	27.7	OK
2.001	37	14	118.281	-0.180	0.000	0.34	0.0	35.0	OK
2.002	38	14	118.025	-0.188	0.000	0.30	0.0	40.5	OK
2.003	39	16	117.569	0.221	0.000	0.19	0.0	45.8	SURCHARGED
3.000	44	15	117.664	0.519	0.000	0.11	0.0	8.9	SURCHARGED
3.001	45	15	117.659	0.676	0.000	0.12	0.0	13.0	SURCHARGED
3.002	46	15	117.654	0.772	0.000	0.16	0.0	28.0	SURCHARGED
4.000	50	15	117.650	0.364	0.000	0.08	0.0	7.7	SURCHARGED
3.003	47	15	117.647	0.887	0.000	0.11	0.0	35.3	SURCHARGED
3.004	48	15	117.641	1.088	0.000	0.17	0.0	41.5	SURCHARGED
3.005	49	16	117.547	1.082	0.000	0.19	0.0	42.1	SURCHARGED
2.004	40	16	117.544	1.101	0.000	0.23	0.0	79.5	SURCHARGED
2.005	41	17	117.432	1.079	0.000	0.21	0.0	85.9	SURCHARGED
5.000	51	17	117.313	0.426	0.000	0.04	0.0	4.2	SURCHARGED
2.006	42	17	117.312	1.133	0.000	0.22	0.0	90.9	SURCHARGED
2.007	43	16	117.178	1.171	0.000	0.22	0.0	89.1	SURCHARGED
1.004	5	16	117.042	1.194	0.000	0.31	0.0	107.2	SURCHARGED
1.005	6	16	117.037	1.250	0.000	0.19	0.0	116.7	SURCHARGED

M-EC		Page 32
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	16	117.050	0.120	0.000	0.13	0.0	6.0	SURCHARGED
6.001	53	16	117.044	0.351	0.000	0.16	0.0	5.9	SURCHARGED
6.002	54	16	117.043	0.418	0.000	0.13	0.0	9.4	SURCHARGED
6.003	55	16	117.039	0.724	0.000	0.18	0.0	11.2	SURCHARGED
6.004	56	16	117.037	0.781	0.000	0.13	0.0	16.0	SURCHARGED
6.005	57	16	117.033	1.050	0.000	0.07	0.0	16.0	SURCHARGED
1.006	7	16	117.031	1.401	0.000	0.15	0.0	125.8	SURCHARGED
7.000	58	14	118.083	-0.177	0.000	0.10	0.0	4.0	OK
7.001	59	14	117.911	-0.184	0.000	0.08	0.0	8.9	OK
1.007	8	16	116.853	1.512	0.000	0.18	0.0	132.2	SURCHARGED
8.000	60	17	116.694	-0.162	0.000	0.13	0.0	5.0	OK
8.001	61	15	116.701	0.017	0.000	0.05	0.0	5.3	SURCHARGED
8.002	35	15	116.711	0.283	0.000	0.03	0.0	6.6	SURCHARGED
1.008	10	15	116.714	1.635	0.000	0.41	0.0	135.3	SURCHARGED
9.000	62	14	119.366	-0.186	0.000	0.07	0.0	3.5	OK
9.001	63	14	118.963	-0.229	0.000	0.13	0.0	13.4	OK
9.002	64	14	118.560	-0.246	0.000	0.07	0.0	18.3	OK
9.003	148	15	116.712	1.233	0.000	0.10	0.0	16.8	SURCHARGED
1.009	11	15	116.710	1.650	0.000	0.20	0.0	148.8	SURCHARGED
1.010	12	15	116.705	1.729	0.000	0.40	0.0	150.6	SURCHARGED
1.011	13	15	116.701	1.747	0.000	0.35	0.0	150.8	SURCHARGED
1.012	14	15	116.696	1.775	0.000	0.17	0.0	160.2	SURCHARGED
1.013	15	15	116.691	1.821	0.000	0.35	0.0	159.7	SURCHARGED
1.014	16	15	116.688	1.841	0.000	0.17	0.0	159.2	SURCHARGED
10.000	65	14	117.146	-0.223	0.000	0.15	0.0	9.8	OK
11.000	136	14	118.039	-0.175	0.000	0.11	0.0	6.8	OK
11.001	137	14	117.736	-0.171	0.000	0.13	0.0	7.4	OK
11.002	138	14	117.479	-0.240	0.000	0.09	0.0	11.5	OK
10.001	66	15	116.911	-0.289	0.000	0.12	0.0	26.6	OK
10.002	67	15	116.690	-0.020	0.000	0.13	0.0	29.2	OK
12.000	9	14	116.993	-0.291	0.000	0.01	0.0	0.8	OK
12.001	75	16	116.680	0.014	0.000	0.07	0.0	5.5	SURCHARGED
12.002	76	15	116.693	0.204	0.000	0.03	0.0	10.5	SURCHARGED
10.003	68	15	116.694	0.375	0.000	0.17	0.0	41.5	SURCHARGED
10.004	69	15	116.693	0.503	0.000	0.14	0.0	43.7	SURCHARGED
10.005	70	15	116.688	0.587	0.000	0.09	0.0	43.0	SURCHARGED
10.006	71	15	116.687	0.640	0.000	0.09	0.0	47.5	SURCHARGED
13.000	147	15	116.929	-0.200	0.000	0.03	0.0	2.0	OK
13.001	112	16	116.669	-0.004	0.000	0.05	0.0	4.6	OK
13.002	113	15	116.688	0.198	0.000	0.04	0.0	6.1	SURCHARGED
14.000	114	14	117.299	-0.202	0.000	0.02	0.0	1.3	OK
14.001	115	14	117.043	-0.196	0.000	0.04	0.0	2.6	OK
14.002	116	17	116.668	-0.110	0.000	0.07	0.0	5.0	OK
13.003	77	14	116.688	0.286	0.000	0.07	0.0	12.0	SURCHARGED
15.000	134	14	117.238	-0.194	0.000	0.05	0.0	4.8	OK
13.004	135	14	116.688	0.376	0.000	0.08	0.0	19.6	SURCHARGED
13.005	78	15	116.687	0.592	0.000	0.07	0.0	19.6	SURCHARGED
10.007	72	15	116.687	0.711	0.000	0.04	0.0	63.6	SURCHARGED
10.008	73	15	116.687	1.431	0.000	0.03	0.0	62.2	SURCHARGED
10.009	74	15	116.685	1.649	0.000	0.03	0.0	64.2	SURCHARGED

M-EC		Page 33
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

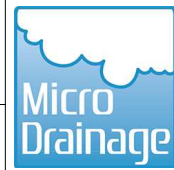
PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	15	116.684	1.814	0.000	0.15	0.0	221.7	SURCHARGED
1.016	18	15	116.680	1.913	0.000	0.13	0.0	221.2	SURCHARGED
16.000	142	14	118.184	-0.115	0.000	0.12	0.0	5.4	OK
16.001	143	15	116.666	1.066	0.000	0.13	0.0	15.7	SURCHARGED
1.017	18a	14	116.675	2.051	0.000	0.15	0.0	244.5	SURCHARGED
1.018	19	13	116.669	2.151	0.000	0.20	0.0	244.1	SURCHARGED
17.000	118	14	117.166	-0.217	0.000	0.01	0.0	0.3	OK
17.001	119	14	117.027	-0.193	0.000	0.05	0.0	2.3	OK
17.002	120	15	116.903	-0.168	0.000	0.14	0.0	7.1	OK
18.000	129	14	117.463	-0.194	0.000	0.05	0.0	3.4	OK
18.001	130	14	117.046	-0.188	0.000	0.06	0.0	4.7	OK
17.003	121	17	116.659	-0.017	0.000	0.19	0.0	15.5	OK
19.000	131	14	117.366	-0.175	0.000	0.11	0.0	6.7	OK
19.001	132	15	116.847	-0.156	0.000	0.21	0.0	8.8	OK
19.002	133	16	116.673	-0.239	0.000	0.09	0.0	10.3	OK
17.004	122	14	116.673	0.101	0.000	0.13	0.0	26.9	SURCHARGED
17.005	123	14	116.674	0.228	0.000	0.15	0.0	30.4	SURCHARGED
20.000	139	14	117.869	-0.191	0.000	0.06	0.0	4.7	OK
20.001	140	14	117.074	-0.172	0.000	0.13	0.0	10.4	OK
17.006	124	14	116.672	0.353	0.000	0.12	0.0	42.0	SURCHARGED
17.007	125	13	116.668	0.766	0.000	0.07	0.0	36.1	SURCHARGED
17.008	126	13	116.667	1.043	0.000	0.03	0.0	36.3	SURCHARGED
17.009	127	13	116.666	1.635	0.000	0.04	0.0	37.0	SURCHARGED
17.010	128	13	116.665	1.953	0.000	0.04	0.0	39.3	SURCHARGED
1.019	19a	13	116.665	2.200	0.000	0.21	0.0	288.3	SURCHARGED
21.000	98	13	116.632	-0.568	0.000	0.01	0.0	58.1	OK
1.020	20	13	116.659	3.105	0.000	1.71	0.0	143.7	SURCHARGED
1.021	21	15	116.299	2.890	0.000	1.69	0.0	143.6	SURCHARGED
1.022	22	15	115.886	2.665	0.000	1.76	0.0	143.6	SURCHARGED
22.000	79	14	122.614	-0.245	0.000	0.08	0.0	12.4	OK
22.001	80	14	121.829	-0.235	0.000	0.11	0.0	12.4	OK
22.002	81	14	121.418	-0.230	0.000	0.12	0.0	12.4	OK
22.003	82	14	121.200	-0.222	0.000	0.15	0.0	12.4	OK
22.004	83	14	120.968	-0.272	0.000	0.17	0.0	15.3	OK
22.005	84	14	120.919	-0.269	0.000	0.18	0.0	18.3	OK
22.006	85	14	120.804	-0.268	0.000	0.18	0.0	21.3	OK
22.007	86	14	120.538	-0.332	0.000	0.15	0.0	24.3	OK
22.008	87	14	120.451	-0.331	0.000	0.16	0.0	27.2	OK
22.009	88	14	120.256	-0.315	0.000	0.19	0.0	30.0	OK
22.010	89	14	120.170	-0.324	0.000	0.17	0.0	32.7	OK
22.011	90	14	119.880	-0.354	0.000	0.10	0.0	35.6	OK
22.012	91	14	119.406	-0.348	0.000	0.12	0.0	38.5	OK
22.013	92	14	118.838	-0.398	0.000	0.25	0.0	67.0	OK
22.014	93	14	118.734	-0.456	0.000	0.23	0.0	98.2	OK
22.015	94	14	118.591	-0.497	0.000	0.25	0.0	131.2	OK
22.016	95	14	118.444	-0.560	0.000	0.14	0.0	159.1	OK
22.017	96	14	117.788	-0.558	0.000	0.23	0.0	161.5	OK
22.018	97	14	117.568	-0.574	0.000	0.20	0.0	245.2	OK
22.019	98	14	116.888	-0.651	0.000	0.26	0.0	292.7	OK
22.020	99	14	116.745	-0.644	0.000	0.32	0.0	291.6	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury

Date 04.03.14
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Network 2014.1

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	14	116.486	-0.846	0.000	0.08	0.0	291.6	OK
23.000	102	16	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	15	115.819	0.444	0.000	1.72	0.0	135.6	SURCHARGED
1.023	23	14	115.675	2.543	0.000	2.79	0.0	241.2	SURCHARGED
1.024	24	15	114.072	1.146	0.000	2.83	0.0	241.1	SURCHARGED
1.025	25	15	112.975	0.186	0.000	1.14	0.0	241.1	SURCHARGED
24.000	103	14	119.171	-0.354	0.000	0.23	0.0	50.5	OK
24.001	104	14	118.901	-0.491	0.000	0.26	0.0	146.5	OK
24.002	105	14	118.655	-0.488	0.000	0.27	0.0	146.5	OK
24.003	106	14	118.319	-1.828	0.000	0.00	0.0	146.5	OK
24.004	107	14	115.661	-0.886	0.000	0.01	0.0	146.5	OK
1.026	26	14	111.871	-1.037	0.000	0.02	0.0	374.6	OK
1.027	27	14	109.404	-0.343	0.000	0.08	0.0	374.2	OK
1.028	28	14	106.836	-0.355	0.000	0.05	0.0	374.6	OK
1.029	29	14	98.135	-0.342	0.000	0.06	0.0	376.0	OK
1.030	30	14	92.562	-0.820	0.000	0.03	0.0	376.9	OK
1.031	31	18	91.070	-1.180	0.000	0.03	0.0	377.6	OK
1.032	32	11	90.904	-1.219	0.000	0.02	0.0	378.0	OK
1.033	33	11	90.890	0.617	0.000	0.79	0.0	173.1	SURCHARGED
25.000	108	11	90.791	-1.095	0.000	0.01	0.0	166.7	OK
25.001	109	11	90.791	-1.095	0.000	0.01	0.0	166.4	OK
25.002	110	11	90.791	-1.095	0.000	0.01	0.0	161.7	OK
1.034	109	11	90.791	0.925	0.000	0.26	0.0	60.4	SURCHARGED
1.035	34	11	90.571	3.921	0.000	0.83	0.0	60.4	SURCHARGED

M-EC		Page 35
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	17	116.979	0.124	0.000	0.03	0.0	2.5	SURCHARGED
1.001	2	18	116.977	0.268	0.000	0.06	0.0	4.2	SURCHARGED
1.002	3	18	116.974	0.486	0.000	0.10	0.0	12.0	SURCHARGED
1.003	4	18	116.968	0.621	0.000	0.12	0.0	21.2	SURCHARGED
2.000	36	16	118.477	-0.198	0.000	0.25	0.0	23.3	OK
2.001	37	16	118.270	-0.191	0.000	0.28	0.0	29.4	OK
2.002	38	16	118.014	-0.199	0.000	0.25	0.0	34.0	OK
2.003	39	17	117.482	0.134	0.000	0.16	0.0	38.5	SURCHARGED
3.000	44	17	117.535	0.390	0.000	0.09	0.0	7.5	SURCHARGED
3.001	45	17	117.529	0.546	0.000	0.10	0.0	10.9	SURCHARGED
3.002	46	17	117.524	0.642	0.000	0.14	0.0	23.7	SURCHARGED
4.000	50	17	117.520	0.234	0.000	0.06	0.0	6.4	SURCHARGED
3.003	47	17	117.516	0.756	0.000	0.10	0.0	31.4	SURCHARGED
3.004	48	17	117.508	0.955	0.000	0.14	0.0	35.2	SURCHARGED
3.005	49	17	117.464	0.999	0.000	0.16	0.0	35.9	SURCHARGED
2.004	40	17	117.461	1.018	0.000	0.20	0.0	67.9	SURCHARGED
2.005	41	18	117.375	1.022	0.000	0.18	0.0	73.8	SURCHARGED
5.000	51	18	117.235	0.348	0.000	0.03	0.0	3.5	SURCHARGED
2.006	42	18	117.232	1.053	0.000	0.19	0.0	78.2	SURCHARGED
2.007	43	18	117.090	1.083	0.000	0.20	0.0	79.0	SURCHARGED
1.004	5	18	116.952	1.104	0.000	0.27	0.0	94.1	SURCHARGED
1.005	6	18	116.945	1.158	0.000	0.16	0.0	102.1	SURCHARGED

M-EC		Page 36
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	18	116.957	0.027	0.000	0.11	0.0	5.0	SURCHARGED
6.001	53	17	116.953	0.260	0.000	0.14	0.0	5.0	SURCHARGED
6.002	54	17	116.952	0.327	0.000	0.11	0.0	8.0	SURCHARGED
6.003	55	18	116.947	0.632	0.000	0.16	0.0	10.1	SURCHARGED
6.004	56	17	116.945	0.689	0.000	0.11	0.0	14.0	SURCHARGED
6.005	57	17	116.940	0.957	0.000	0.06	0.0	13.6	SURCHARGED
1.006	7	17	116.938	1.308	0.000	0.14	0.0	113.0	SURCHARGED
7.000	58	16	118.079	-0.181	0.000	0.09	0.0	3.3	OK
7.001	59	16	117.907	-0.188	0.000	0.06	0.0	7.5	OK
1.007	8	17	116.758	1.417	0.000	0.16	0.0	118.7	SURCHARGED
8.000	60	18	116.680	-0.176	0.000	0.11	0.0	4.2	OK
8.001	61	18	116.599	-0.085	0.000	0.04	0.0	4.5	OK
8.002	35	18	116.597	0.169	0.000	0.02	0.0	5.6	SURCHARGED
1.008	10	18	116.595	1.516	0.000	0.37	0.0	121.5	SURCHARGED
9.000	62	16	119.362	-0.190	0.000	0.06	0.0	2.9	OK
9.001	63	16	118.958	-0.234	0.000	0.11	0.0	11.2	OK
9.002	64	16	118.554	-0.252	0.000	0.06	0.0	15.4	OK
9.003	148	18	116.595	1.116	0.000	0.09	0.0	14.1	SURCHARGED
1.009	11	18	116.592	1.532	0.000	0.18	0.0	133.2	SURCHARGED
1.010	12	18	116.585	1.609	0.000	0.36	0.0	134.8	SURCHARGED
1.011	13	18	116.581	1.627	0.000	0.31	0.0	135.4	SURCHARGED
1.012	14	18	116.576	1.655	0.000	0.15	0.0	143.4	SURCHARGED
1.013	15	18	116.572	1.702	0.000	0.31	0.0	143.1	SURCHARGED
1.014	16	18	116.568	1.721	0.000	0.16	0.0	142.9	SURCHARGED
10.000	65	16	117.139	-0.230	0.000	0.13	0.0	8.2	OK
11.000	136	16	118.036	-0.178	0.000	0.10	0.0	5.7	OK
11.001	137	16	117.732	-0.175	0.000	0.11	0.0	6.2	OK
11.002	138	16	117.473	-0.246	0.000	0.08	0.0	9.7	OK
10.001	66	16	116.904	-0.296	0.000	0.10	0.0	22.3	OK
10.002	67	18	116.584	-0.125	0.000	0.11	0.0	24.6	OK
12.000	9	16	116.992	-0.292	0.000	0.01	0.0	0.7	OK
12.001	75	17	116.582	-0.084	0.000	0.06	0.0	4.7	OK
12.002	76	17	116.580	0.091	0.000	0.03	0.0	8.9	SURCHARGED
10.003	68	17	116.579	0.260	0.000	0.15	0.0	35.8	SURCHARGED
10.004	69	17	116.575	0.384	0.000	0.12	0.0	37.1	SURCHARGED
10.005	70	17	116.572	0.471	0.000	0.08	0.0	36.9	SURCHARGED
10.006	71	17	116.571	0.523	0.000	0.08	0.0	41.8	SURCHARGED
13.000	147	16	116.927	-0.202	0.000	0.02	0.0	1.7	OK
13.001	112	17	116.576	-0.097	0.000	0.04	0.0	3.9	OK
13.002	113	17	116.575	0.085	0.000	0.03	0.0	5.2	SURCHARGED
14.000	114	16	117.295	-0.206	0.000	0.02	0.0	1.1	OK
14.001	115	16	117.041	-0.198	0.000	0.03	0.0	2.2	OK
14.002	116	18	116.589	-0.189	0.000	0.06	0.0	4.2	OK
13.003	77	17	116.574	0.172	0.000	0.06	0.0	10.2	SURCHARGED
15.000	134	16	117.235	-0.197	0.000	0.04	0.0	4.0	OK
13.004	135	17	116.573	0.261	0.000	0.07	0.0	16.9	SURCHARGED
13.005	78	17	116.570	0.476	0.000	0.06	0.0	16.7	SURCHARGED
10.007	72	17	116.569	0.593	0.000	0.03	0.0	57.8	SURCHARGED
10.008	73	17	116.566	1.310	0.000	0.03	0.0	56.0	SURCHARGED
10.009	74	17	116.565	1.528	0.000	0.03	0.0	57.5	SURCHARGED

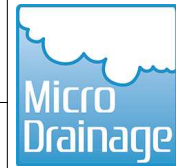
M-EC		Page 37
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	17	116.564	1.694	0.000	0.13	0.0	189.9	SURCHARGED
1.016	18	17	116.559	1.792	0.000	0.11	0.0	189.9	SURCHARGED
16.000	142	16	118.181	-0.118	0.000	0.10	0.0	4.6	OK
16.001	143	17	116.564	0.965	0.000	0.11	0.0	13.2	SURCHARGED
1.017	18a	17	116.554	1.930	0.000	0.13	0.0	209.8	SURCHARGED
1.018	19	17	116.549	2.031	0.000	0.17	0.0	209.8	SURCHARGED
17.000	118	16	117.165	-0.218	0.000	0.01	0.0	0.3	OK
17.001	119	16	117.024	-0.196	0.000	0.04	0.0	1.9	OK
17.002	120	16	116.898	-0.173	0.000	0.12	0.0	6.0	OK
18.000	129	16	117.461	-0.196	0.000	0.04	0.0	2.9	OK
18.001	130	16	117.042	-0.192	0.000	0.05	0.0	3.9	OK
17.003	121	18	116.575	-0.101	0.000	0.16	0.0	13.0	OK
19.000	131	16	117.362	-0.179	0.000	0.10	0.0	5.6	OK
19.001	132	16	116.841	-0.162	0.000	0.17	0.0	7.4	OK
19.002	133	18	116.666	-0.247	0.000	0.07	0.0	8.7	OK
17.004	122	17	116.572	0.000	0.000	0.11	0.0	22.9	OK
17.005	123	17	116.559	0.114	0.000	0.13	0.0	25.9	SURCHARGED
20.000	139	16	117.866	-0.194	0.000	0.05	0.0	3.9	OK
20.001	140	16	117.070	-0.177	0.000	0.11	0.0	8.7	OK
17.006	124	17	116.555	0.236	0.000	0.10	0.0	36.0	SURCHARGED
17.007	125	17	116.550	0.649	0.000	0.06	0.0	31.5	SURCHARGED
17.008	126	17	116.548	0.925	0.000	0.02	0.0	29.8	SURCHARGED
17.009	127	17	116.547	1.516	0.000	0.03	0.0	30.6	SURCHARGED
17.010	128	17	116.545	1.833	0.000	0.03	0.0	32.5	SURCHARGED
1.019	19a	17	116.544	2.079	0.000	0.18	0.0	250.4	SURCHARGED
21.000	98	16	116.537	-0.663	0.000	0.01	0.0	52.4	OK
1.020	20	17	116.538	2.984	0.000	1.69	0.0	142.3	SURCHARGED
1.021	21	18	116.213	2.804	0.000	1.67	0.0	142.0	SURCHARGED
1.022	22	18	115.807	2.586	0.000	1.74	0.0	142.1	SURCHARGED
22.000	79	16	122.609	-0.250	0.000	0.07	0.0	10.4	OK
22.001	80	16	121.824	-0.240	0.000	0.09	0.0	10.4	OK
22.002	81	16	121.412	-0.236	0.000	0.10	0.0	10.4	OK
22.003	82	16	121.193	-0.229	0.000	0.13	0.0	10.4	OK
22.004	83	16	120.959	-0.281	0.000	0.14	0.0	12.9	OK
22.005	84	16	120.909	-0.279	0.000	0.15	0.0	15.4	OK
22.006	85	16	120.794	-0.279	0.000	0.15	0.0	17.9	OK
22.007	86	16	120.528	-0.343	0.000	0.13	0.0	20.4	OK
22.008	87	16	120.441	-0.342	0.000	0.13	0.0	22.9	OK
22.009	88	16	120.243	-0.328	0.000	0.16	0.0	25.4	OK
22.010	89	16	120.158	-0.335	0.000	0.15	0.0	27.8	OK
22.011	90	16	119.872	-0.361	0.000	0.09	0.0	30.3	OK
22.012	91	16	119.398	-0.356	0.000	0.10	0.0	32.8	OK
22.013	92	16	118.821	-0.415	0.000	0.21	0.0	56.9	OK
22.014	93	16	118.716	-0.474	0.000	0.19	0.0	83.4	OK
22.015	94	16	118.570	-0.518	0.000	0.21	0.0	111.2	OK
22.016	95	16	118.428	-0.576	0.000	0.12	0.0	134.8	OK
22.017	96	16	117.766	-0.580	0.000	0.19	0.0	137.1	OK
22.018	97	16	117.545	-0.597	0.000	0.17	0.0	207.5	OK
22.019	98	16	116.852	-0.687	0.000	0.22	0.0	247.5	OK
22.020	99	16	116.708	-0.681	0.000	0.27	0.0	247.1	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 600 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	16	116.466	-0.866	0.000	0.07	0.0	247.0	OK
23.000	102	23	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	16	115.741	0.366	0.000	1.66	0.0	130.9	SURCHARGED
1.023	23	16	115.600	2.468	0.000	2.76	0.0	238.6	SURCHARGED
1.024	24	17	114.030	1.104	0.000	2.80	0.0	238.6	SURCHARGED
1.025	25	17	112.956	0.167	0.000	1.12	0.0	238.6	SURCHARGED
24.000	103	16	119.157	-0.368	0.000	0.20	0.0	42.4	OK
24.001	104	16	118.879	-0.513	0.000	0.22	0.0	123.1	OK
24.002	105	16	118.632	-0.511	0.000	0.22	0.0	123.1	OK
24.003	106	16	118.310	-1.837	0.000	0.00	0.0	123.1	OK
24.004	107	16	115.655	-0.892	0.000	0.01	0.0	123.1	OK
1.026	26	16	111.866	-1.042	0.000	0.01	0.0	350.1	OK
1.027	27	16	109.401	-0.346	0.000	0.08	0.0	349.9	OK
1.028	28	16	106.831	-0.360	0.000	0.05	0.0	349.0	OK
1.029	29	16	98.131	-0.346	0.000	0.06	0.0	349.1	OK
1.030	30	16	92.556	-0.826	0.000	0.02	0.0	349.9	OK
1.031	31	20	91.063	-1.187	0.000	0.03	0.0	350.4	OK
1.032	32	9	90.937	-1.186	0.000	0.02	0.0	350.9	OK
1.033	33	9	90.921	0.648	0.000	0.74	0.0	162.2	SURCHARGED
25.000	108	9	90.822	-1.064	0.000	0.01	0.0	139.8	OK
25.001	109	9	90.822	-1.064	0.000	0.01	0.0	139.3	OK
25.002	110	9	90.822	-1.064	0.000	0.00	0.0	132.4	OK
1.034	109	9	90.822	0.956	0.000	0.26	0.0	60.6	SURCHARGED
1.035	34	9	90.601	3.951	0.000	0.84	0.0	60.6	SURCHARGED

M-EC		Page 39
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	20	116.878	0.023	0.000	0.03	0.0	2.2	SURCHARGED
1.001	2	20	116.876	0.167	0.000	0.05	0.0	3.7	SURCHARGED
1.002	3	20	116.873	0.385	0.000	0.08	0.0	10.5	SURCHARGED
1.003	4	20	116.869	0.522	0.000	0.11	0.0	20.0	SURCHARGED
2.000	36	18	118.470	-0.205	0.000	0.22	0.0	20.2	OK
2.001	37	18	118.261	-0.200	0.000	0.25	0.0	25.5	OK
2.002	38	18	118.007	-0.206	0.000	0.22	0.0	29.5	OK
2.003	39	19	117.386	0.038	0.000	0.14	0.0	33.3	SURCHARGED
3.000	44	19	117.408	0.263	0.000	0.08	0.0	6.6	SURCHARGED
3.001	45	19	117.403	0.420	0.000	0.09	0.0	9.5	SURCHARGED
3.002	46	19	117.398	0.516	0.000	0.12	0.0	20.6	SURCHARGED
4.000	50	19	117.394	0.108	0.000	0.05	0.0	5.6	SURCHARGED
3.003	47	19	117.390	0.630	0.000	0.09	0.0	27.5	SURCHARGED
3.004	48	19	117.383	0.830	0.000	0.14	0.0	33.5	SURCHARGED
3.005	49	19	117.370	0.905	0.000	0.14	0.0	31.3	SURCHARGED
2.004	40	19	117.367	0.924	0.000	0.18	0.0	63.4	SURCHARGED
2.005	41	20	117.277	0.924	0.000	0.15	0.0	64.1	SURCHARGED
5.000	51	20	117.137	0.250	0.000	0.03	0.0	3.0	SURCHARGED
2.006	42	20	117.135	0.956	0.000	0.16	0.0	68.2	SURCHARGED
2.007	43	20	116.993	0.986	0.000	0.18	0.0	70.1	SURCHARGED
1.004	5	20	116.856	1.008	0.000	0.25	0.0	85.7	SURCHARGED
1.005	6	20	116.852	1.065	0.000	0.15	0.0	92.4	SURCHARGED

M-EC		Page 40
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	20	116.864	-0.066	0.000	0.10	0.0	4.4	OK
6.001	53	20	116.860	0.167	0.000	0.12	0.0	4.3	SURCHARGED
6.002	54	20	116.859	0.234	0.000	0.09	0.0	6.9	SURCHARGED
6.003	55	20	116.854	0.539	0.000	0.15	0.0	9.5	SURCHARGED
6.004	56	20	116.852	0.596	0.000	0.10	0.0	13.2	SURCHARGED
6.005	57	20	116.848	0.865	0.000	0.05	0.0	11.8	SURCHARGED
1.006	7	20	116.846	1.216	0.000	0.12	0.0	98.2	SURCHARGED
7.000	58	18	118.075	-0.185	0.000	0.07	0.0	2.9	OK
7.001	59	18	117.904	-0.191	0.000	0.05	0.0	6.5	OK
1.007	8	20	116.664	1.323	0.000	0.14	0.0	103.1	SURCHARGED
8.000	60	19	116.677	-0.179	0.000	0.09	0.0	3.6	OK
8.001	61	20	116.504	-0.180	0.000	0.04	0.0	3.9	OK
8.002	35	20	116.503	0.075	0.000	0.02	0.0	4.8	SURCHARGED
1.008	10	20	116.502	1.423	0.000	0.32	0.0	105.8	SURCHARGED
9.000	62	18	119.360	-0.192	0.000	0.05	0.0	2.5	OK
9.001	63	18	118.954	-0.238	0.000	0.09	0.0	9.7	OK
9.002	64	18	118.551	-0.255	0.000	0.05	0.0	13.3	OK
9.003	148	20	116.501	1.022	0.000	0.07	0.0	12.1	SURCHARGED
1.009	11	20	116.498	1.438	0.000	0.16	0.0	115.9	SURCHARGED
1.010	12	20	116.492	1.516	0.000	0.31	0.0	117.3	SURCHARGED
1.011	13	20	116.488	1.534	0.000	0.27	0.0	117.8	SURCHARGED
1.012	14	20	116.483	1.562	0.000	0.13	0.0	124.7	SURCHARGED
1.013	15	20	116.479	1.609	0.000	0.27	0.0	124.5	SURCHARGED
1.014	16	20	116.475	1.628	0.000	0.14	0.0	124.2	SURCHARGED
10.000	65	18	117.135	-0.234	0.000	0.11	0.0	7.1	OK
11.000	136	18	118.032	-0.182	0.000	0.08	0.0	5.0	OK
11.001	137	18	117.729	-0.178	0.000	0.10	0.0	5.4	OK
11.002	138	18	117.469	-0.250	0.000	0.07	0.0	8.4	OK
10.001	66	18	116.900	-0.300	0.000	0.09	0.0	19.4	OK
10.002	67	20	116.490	-0.219	0.000	0.09	0.0	21.3	OK
12.000	9	18	116.991	-0.293	0.000	0.00	0.0	0.6	OK
12.001	75	20	116.491	-0.175	0.000	0.05	0.0	4.1	OK
12.002	76	20	116.489	0.000	0.000	0.02	0.0	7.7	OK
10.003	68	20	116.485	0.166	0.000	0.13	0.0	31.5	SURCHARGED
10.004	69	20	116.482	0.291	0.000	0.11	0.0	35.3	SURCHARGED
10.005	70	20	116.479	0.378	0.000	0.07	0.0	32.1	SURCHARGED
10.006	71	20	116.477	0.430	0.000	0.07	0.0	36.7	SURCHARGED
13.000	147	18	116.926	-0.203	0.000	0.02	0.0	1.5	OK
13.001	112	20	116.483	-0.190	0.000	0.04	0.0	3.4	OK
13.002	113	19	116.482	-0.008	0.000	0.03	0.0	4.5	OK
14.000	114	18	117.293	-0.208	0.000	0.02	0.0	0.9	OK
14.001	115	18	117.039	-0.200	0.000	0.03	0.0	1.9	OK
14.002	116	19	116.587	-0.192	0.000	0.05	0.0	3.6	OK
13.003	77	19	116.480	0.078	0.000	0.05	0.0	8.9	SURCHARGED
15.000	134	18	117.234	-0.198	0.000	0.03	0.0	3.5	OK
13.004	135	20	116.479	0.168	0.000	0.06	0.0	14.8	SURCHARGED
13.005	78	20	116.477	0.382	0.000	0.06	0.0	15.4	SURCHARGED
10.007	72	20	116.475	0.500	0.000	0.03	0.0	52.3	SURCHARGED
10.008	73	20	116.473	1.217	0.000	0.02	0.0	46.4	SURCHARGED
10.009	74	20	116.472	1.436	0.000	0.02	0.0	48.2	SURCHARGED

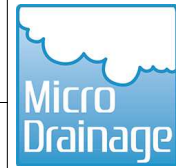
M-EC		Page 41
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	20	116.471	1.601	0.000	0.12	0.0	166.1	SURCHARGED
1.016	18	20	116.466	1.699	0.000	0.10	0.0	166.0	SURCHARGED
16.000	142	18	118.179	-0.120	0.000	0.09	0.0	4.0	OK
16.001	143	20	116.469	0.870	0.000	0.10	0.0	11.5	SURCHARGED
1.017	18a	20	116.461	1.837	0.000	0.11	0.0	183.5	SURCHARGED
1.018	19	20	116.456	1.938	0.000	0.15	0.0	183.2	SURCHARGED
17.000	118	18	117.164	-0.219	0.000	0.01	0.0	0.3	OK
17.001	119	18	117.023	-0.197	0.000	0.04	0.0	1.7	OK
17.002	120	18	116.895	-0.177	0.000	0.11	0.0	5.2	OK
18.000	129	18	117.459	-0.198	0.000	0.03	0.0	2.5	OK
18.001	130	18	117.040	-0.194	0.000	0.05	0.0	3.4	OK
17.003	121	20	116.470	-0.206	0.000	0.14	0.0	11.3	OK
19.000	131	18	117.359	-0.182	0.000	0.08	0.0	4.9	OK
19.001	132	18	116.836	-0.167	0.000	0.15	0.0	6.4	OK
19.002	133	19	116.661	-0.251	0.000	0.06	0.0	7.5	OK
17.004	122	20	116.468	-0.104	0.000	0.10	0.0	20.1	OK
17.005	123	20	116.465	0.019	0.000	0.11	0.0	22.5	SURCHARGED
20.000	139	18	117.864	-0.196	0.000	0.04	0.0	3.4	OK
20.001	140	18	117.067	-0.179	0.000	0.09	0.0	7.6	OK
17.006	124	20	116.462	0.142	0.000	0.09	0.0	31.4	SURCHARGED
17.007	125	20	116.458	0.556	0.000	0.05	0.0	28.8	SURCHARGED
17.008	126	20	116.456	0.832	0.000	0.02	0.0	27.8	SURCHARGED
17.009	127	20	116.454	1.423	0.000	0.03	0.0	26.4	SURCHARGED
17.010	128	20	116.452	1.741	0.000	0.03	0.0	28.1	SURCHARGED
1.019	19a	20	116.452	1.987	0.000	0.16	0.0	220.3	SURCHARGED
21.000	98	18	116.442	-0.758	0.000	0.01	0.0	48.2	OK
1.020	20	20	116.446	2.892	0.000	1.66	0.0	139.7	SURCHARGED
1.021	21	20	116.126	2.717	0.000	1.65	0.0	140.2	SURCHARGED
1.022	22	19	115.729	2.508	0.000	1.72	0.0	140.4	SURCHARGED
22.000	79	18	122.605	-0.254	0.000	0.06	0.0	9.0	OK
22.001	80	18	121.819	-0.245	0.000	0.08	0.0	9.0	OK
22.002	81	18	121.408	-0.240	0.000	0.09	0.0	9.0	OK
22.003	82	18	121.188	-0.234	0.000	0.11	0.0	9.0	OK
22.004	83	18	120.952	-0.288	0.000	0.12	0.0	11.2	OK
22.005	84	18	120.902	-0.286	0.000	0.13	0.0	13.3	OK
22.006	85	18	120.787	-0.285	0.000	0.13	0.0	15.5	OK
22.007	86	18	120.520	-0.350	0.000	0.11	0.0	17.7	OK
22.008	87	18	120.434	-0.349	0.000	0.12	0.0	19.8	OK
22.009	88	18	120.233	-0.338	0.000	0.14	0.0	22.0	OK
22.010	89	18	120.150	-0.344	0.000	0.13	0.0	24.1	OK
22.011	90	18	119.865	-0.369	0.000	0.08	0.0	26.3	OK
22.012	91	18	119.392	-0.362	0.000	0.09	0.0	28.5	OK
22.013	92	18	118.808	-0.429	0.000	0.18	0.0	49.4	OK
22.014	93	18	118.700	-0.490	0.000	0.17	0.0	72.4	OK
22.015	94	18	118.552	-0.535	0.000	0.18	0.0	96.5	OK
22.016	95	18	118.417	-0.588	0.000	0.11	0.0	117.0	OK
22.017	96	18	117.746	-0.600	0.000	0.17	0.0	119.1	OK
22.018	97	18	117.527	-0.615	0.000	0.15	0.0	180.2	OK
22.019	98	18	116.826	-0.713	0.000	0.19	0.0	214.9	OK
22.020	99	18	116.681	-0.708	0.000	0.23	0.0	214.7	OK

Wellington House
 Leicester Road Ibstock
 Leics LE67 6HP

Longford Park
 Bodicote
 Banbury



Date 04.03.14
 File storm.mdx


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Network 2014.1

Summary Wizard of 720 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	18	116.451	-0.881	0.000	0.06	0.0	214.6	OK
23.000	102	24	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	19	115.668	0.293	0.000	1.65	0.0	130.6	SURCHARGED
1.023	23	19	115.528	2.396	0.000	2.73	0.0	236.2	SURCHARGED
1.024	24	19	113.990	1.064	0.000	2.77	0.0	236.2	SURCHARGED
1.025	25	19	112.938	0.149	0.000	1.11	0.0	236.2	SURCHARGED
24.000	103	18	119.144	-0.381	0.000	0.17	0.0	36.8	OK
24.001	104	18	118.862	-0.530	0.000	0.19	0.0	106.7	OK
24.002	105	18	118.616	-0.527	0.000	0.19	0.0	106.7	OK
24.003	106	18	118.304	-1.843	0.000	0.00	0.0	106.7	OK
24.004	107	18	115.650	-0.897	0.000	0.01	0.0	106.7	OK
1.026	26	18	111.863	-1.045	0.000	0.01	0.0	330.6	OK
1.027	27	18	109.398	-0.349	0.000	0.07	0.0	330.9	OK
1.028	28	18	106.828	-0.363	0.000	0.05	0.0	331.0	OK
1.029	29	18	98.128	-0.349	0.000	0.06	0.0	331.6	OK
1.030	30	18	92.551	-0.831	0.000	0.02	0.0	332.3	OK
1.031	31	22	91.058	-1.192	0.000	0.02	0.0	332.7	OK
1.032	32	8	90.949	-1.174	0.000	0.02	0.0	332.9	OK
1.033	33	8	90.933	0.660	0.000	0.72	0.0	157.7	SURCHARGED
25.000	108	7	90.845	-1.041	0.000	0.01	0.0	121.0	OK
25.001	109	7	90.845	-1.041	0.000	0.00	0.0	120.4	OK
25.002	110	7	90.845	-1.041	0.000	0.00	0.0	112.0	OK
1.034	109	7	90.845	0.979	0.000	0.26	0.0	60.8	SURCHARGED
1.035	34	7	90.623	3.973	0.000	0.84	0.0	60.8	SURCHARGED

M-EC		Page 43
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	21	116.689	-0.166	0.000	0.02	0.0	1.7	OK
1.001	2	21	116.688	-0.021	0.000	0.04	0.0	3.0	OK
1.002	3	21	116.686	0.198	0.000	0.07	0.0	8.4	SURCHARGED
1.003	4	21	116.683	0.336	0.000	0.09	0.0	16.3	SURCHARGED
2.000	36	20	118.459	-0.216	0.000	0.17	0.0	16.1	OK
2.001	37	20	118.251	-0.210	0.000	0.20	0.0	20.3	OK
2.002	38	20	117.996	-0.217	0.000	0.17	0.0	23.5	OK
2.003	39	21	117.140	-0.208	0.000	0.11	0.0	26.6	OK
3.000	44	21	117.164	0.019	0.000	0.06	0.0	5.2	SURCHARGED
3.001	45	21	117.153	0.170	0.000	0.07	0.0	7.7	SURCHARGED
3.002	46	21	117.150	0.268	0.000	0.09	0.0	16.4	SURCHARGED
4.000	50	21	117.147	-0.139	0.000	0.04	0.0	4.5	OK
3.003	47	21	117.144	0.384	0.000	0.07	0.0	22.0	SURCHARGED
3.004	48	21	117.136	0.583	0.000	0.11	0.0	28.3	SURCHARGED
3.005	49	21	117.137	0.672	0.000	0.13	0.0	28.7	SURCHARGED
2.004	40	21	117.136	0.693	0.000	0.16	0.0	54.5	SURCHARGED
2.005	41	21	117.087	0.734	0.000	0.14	0.0	58.2	SURCHARGED
5.000	51	21	116.952	0.065	0.000	0.02	0.0	2.4	SURCHARGED
2.006	42	21	116.951	0.772	0.000	0.14	0.0	58.2	SURCHARGED
2.007	43	21	116.811	0.804	0.000	0.14	0.0	56.5	SURCHARGED
1.004	5	21	116.676	0.828	0.000	0.20	0.0	70.1	SURCHARGED
1.005	6	21	116.672	0.885	0.000	0.12	0.0	77.0	SURCHARGED

M-EC		Page 44
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	21	116.746	-0.184	0.000	0.08	0.0	3.5	OK
6.001	53	21	116.681	-0.012	0.000	0.09	0.0	3.5	OK
6.002	54	21	116.679	0.054	0.000	0.08	0.0	5.6	SURCHARGED
6.003	55	21	116.674	0.359	0.000	0.12	0.0	7.6	SURCHARGED
6.004	56	21	116.672	0.416	0.000	0.09	0.0	10.9	SURCHARGED
6.005	57	21	116.667	0.684	0.000	0.04	0.0	10.4	SURCHARGED
1.006	7	21	116.665	1.035	0.000	0.10	0.0	86.2	SURCHARGED
7.000	58	20	118.070	-0.190	0.000	0.06	0.0	2.3	OK
7.001	59	20	117.900	-0.195	0.000	0.04	0.0	5.2	OK
1.007	8	21	116.484	1.143	0.000	0.11	0.0	81.9	SURCHARGED
8.000	60	20	116.671	-0.185	0.000	0.07	0.0	2.9	OK
8.001	61	21	116.418	-0.266	0.000	0.03	0.0	3.1	OK
8.002	35	21	116.324	-0.104	0.000	0.02	0.0	3.9	OK
1.008	10	21	116.322	1.243	0.000	0.23	0.0	77.8	SURCHARGED
9.000	62	20	119.356	-0.196	0.000	0.04	0.0	2.0	OK
9.001	63	20	118.946	-0.246	0.000	0.08	0.0	7.8	OK
9.002	64	20	118.546	-0.260	0.000	0.04	0.0	10.6	OK
9.003	148	21	116.321	0.842	0.000	0.06	0.0	9.7	SURCHARGED
1.009	11	21	116.319	1.259	0.000	0.11	0.0	84.3	SURCHARGED
1.010	12	21	116.313	1.337	0.000	0.23	0.0	85.5	SURCHARGED
1.011	13	21	116.309	1.355	0.000	0.20	0.0	86.3	SURCHARGED
1.012	14	21	116.303	1.382	0.000	0.10	0.0	92.1	SURCHARGED
1.013	15	21	116.299	1.429	0.000	0.20	0.0	92.2	SURCHARGED
1.014	16	21	116.296	1.449	0.000	0.10	0.0	92.3	SURCHARGED
10.000	65	20	117.128	-0.241	0.000	0.09	0.0	5.7	OK
11.000	136	20	118.027	-0.187	0.000	0.07	0.0	4.0	OK
11.001	137	20	117.723	-0.184	0.000	0.08	0.0	4.3	OK
11.002	138	20	117.463	-0.256	0.000	0.05	0.0	6.7	OK
10.001	66	20	116.890	-0.310	0.000	0.07	0.0	15.4	OK
10.002	67	21	116.402	-0.307	0.000	0.08	0.0	17.0	OK
12.000	9	20	116.989	-0.295	0.000	0.00	0.0	0.5	OK
12.001	75	21	116.405	-0.261	0.000	0.04	0.0	3.2	OK
12.002	76	21	116.320	-0.169	0.000	0.02	0.0	6.2	OK
10.003	68	21	116.319	0.000	0.000	0.10	0.0	25.3	OK
10.004	69	21	116.302	0.112	0.000	0.09	0.0	29.8	SURCHARGED
10.005	70	21	116.299	0.198	0.000	0.06	0.0	29.1	SURCHARGED
10.006	71	21	116.298	0.251	0.000	0.06	0.0	31.5	SURCHARGED
13.000	147	20	116.921	-0.208	0.000	0.02	0.0	1.2	OK
13.001	112	21	116.406	-0.267	0.000	0.03	0.0	2.7	OK
13.002	113	21	116.314	-0.176	0.000	0.02	0.0	3.6	OK
14.000	114	20	117.289	-0.212	0.000	0.01	0.0	0.7	OK
14.001	115	20	117.037	-0.202	0.000	0.02	0.0	1.5	OK
14.002	116	20	116.583	-0.196	0.000	0.04	0.0	2.9	OK
13.003	77	21	116.313	-0.090	0.000	0.04	0.0	7.1	OK
15.000	134	20	117.231	-0.201	0.000	0.03	0.0	2.8	OK
13.004	135	21	116.312	0.000	0.000	0.05	0.0	11.9	OK
13.005	78	21	116.298	0.203	0.000	0.05	0.0	13.4	SURCHARGED
10.007	72	21	116.296	0.320	0.000	0.02	0.0	42.5	SURCHARGED
10.008	73	21	116.294	1.037	0.000	0.02	0.0	36.7	SURCHARGED
10.009	74	21	116.293	1.256	0.000	0.02	0.0	37.6	SURCHARGED

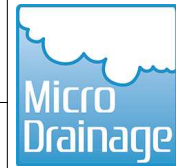
M-EC		Page 45
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	21	116.292	1.422	0.000	0.09	0.0	127.9	SURCHARGED
1.016	18	21	116.287	1.520	0.000	0.07	0.0	128.1	SURCHARGED
16.000	142	20	118.175	-0.124	0.000	0.07	0.0	3.2	OK
16.001	143	21	116.290	0.691	0.000	0.08	0.0	10.0	SURCHARGED
1.017	18a	21	116.282	1.658	0.000	0.09	0.0	142.7	SURCHARGED
1.018	19	21	116.277	1.759	0.000	0.12	0.0	142.4	SURCHARGED
17.000	118	20	117.163	-0.220	0.000	0.00	0.0	0.2	OK
17.001	119	20	117.020	-0.200	0.000	0.03	0.0	1.3	OK
17.002	120	20	116.890	-0.182	0.000	0.08	0.0	4.1	OK
18.000	129	20	117.457	-0.200	0.000	0.03	0.0	2.0	OK
18.001	130	20	117.037	-0.197	0.000	0.04	0.0	2.7	OK
17.003	121	21	116.442	-0.234	0.000	0.11	0.0	9.0	OK
19.000	131	20	117.353	-0.188	0.000	0.07	0.0	3.9	OK
19.001	132	20	116.829	-0.173	0.000	0.12	0.0	5.1	OK
19.002	133	20	116.656	-0.257	0.000	0.05	0.0	6.0	OK
17.004	122	21	116.298	-0.274	0.000	0.08	0.0	16.1	OK
17.005	123	21	116.295	-0.150	0.000	0.09	0.0	18.3	OK
20.000	139	20	117.861	-0.199	0.000	0.03	0.0	2.7	OK
20.001	140	20	117.061	-0.185	0.000	0.07	0.0	6.0	OK
17.006	124	21	116.292	-0.028	0.000	0.07	0.0	25.2	OK
17.007	125	21	116.278	0.376	0.000	0.05	0.0	24.5	SURCHARGED
17.008	126	21	116.276	0.652	0.000	0.02	0.0	23.1	SURCHARGED
17.009	127	21	116.275	1.244	0.000	0.02	0.0	22.0	SURCHARGED
17.010	128	21	116.273	1.561	0.000	0.02	0.0	21.5	SURCHARGED
1.019	19a	21	116.272	1.807	0.000	0.12	0.0	169.9	SURCHARGED
21.000	98	20	116.265	-0.935	0.000	0.01	0.0	35.5	OK
1.020	20	21	116.266	2.712	0.000	1.62	0.0	135.6	SURCHARGED
1.021	21	21	115.964	2.555	0.000	1.60	0.0	135.6	SURCHARGED
1.022	22	21	115.595	2.374	0.000	1.66	0.0	135.6	SURCHARGED
22.000	79	20	122.600	-0.259	0.000	0.05	0.0	7.2	OK
22.001	80	20	121.812	-0.252	0.000	0.06	0.0	7.2	OK
22.002	81	20	121.401	-0.247	0.000	0.07	0.0	7.2	OK
22.003	82	20	121.182	-0.240	0.000	0.09	0.0	7.2	OK
22.004	83	20	120.943	-0.297	0.000	0.10	0.0	8.9	OK
22.005	84	20	120.893	-0.295	0.000	0.10	0.0	10.6	OK
22.006	85	20	120.778	-0.295	0.000	0.10	0.0	12.4	OK
22.007	86	20	120.511	-0.359	0.000	0.09	0.0	14.1	OK
22.008	87	20	120.424	-0.359	0.000	0.09	0.0	15.8	OK
22.009	88	20	120.222	-0.349	0.000	0.11	0.0	17.5	OK
22.010	89	20	120.139	-0.354	0.000	0.10	0.0	19.3	OK
22.011	90	20	119.855	-0.379	0.000	0.06	0.0	21.0	OK
22.012	91	20	119.380	-0.373	0.000	0.07	0.0	22.7	OK
22.013	92	20	118.787	-0.449	0.000	0.14	0.0	39.4	OK
22.014	93	20	118.679	-0.512	0.000	0.13	0.0	57.8	OK
22.015	94	20	118.527	-0.561	0.000	0.15	0.0	77.0	OK
22.016	95	20	118.400	-0.604	0.000	0.08	0.0	93.4	OK
22.017	96	20	117.720	-0.626	0.000	0.13	0.0	95.1	OK
22.018	97	20	117.505	-0.637	0.000	0.12	0.0	144.0	OK
22.019	98	20	116.788	-0.751	0.000	0.15	0.0	171.8	OK
22.020	99	20	116.644	-0.745	0.000	0.19	0.0	171.7	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Micro Drainage

Network 2014.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	20	116.431	-0.901	0.000	0.05	0.0	171.7	OK
23.000	102	22	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	21	115.545	0.170	0.000	1.61	0.0	127.4	SURCHARGED
1.023	23	21	115.408	2.276	0.000	2.68	0.0	232.0	SURCHARGED
1.024	24	21	113.923	0.997	0.000	2.72	0.0	232.0	SURCHARGED
1.025	25	21	112.907	0.118	0.000	1.09	0.0	232.0	SURCHARGED
24.000	103	20	119.128	-0.397	0.000	0.14	0.0	29.3	OK
24.001	104	20	118.836	-0.556	0.000	0.15	0.0	85.1	OK
24.002	105	20	118.589	-0.554	0.000	0.15	0.0	85.1	OK
24.003	106	20	118.295	-1.852	0.000	0.00	0.0	85.1	OK
24.004	107	20	115.641	-0.906	0.000	0.00	0.0	85.1	OK
1.026	26	20	111.858	-1.050	0.000	0.01	0.0	306.7	OK
1.027	27	20	109.392	-0.355	0.000	0.07	0.0	307.1	OK
1.028	28	20	106.823	-0.368	0.000	0.04	0.0	307.2	OK
1.029	29	20	98.122	-0.355	0.000	0.05	0.0	307.6	OK
1.030	30	20	92.543	-0.839	0.000	0.02	0.0	307.9	OK
1.031	31	23	91.050	-1.200	0.000	0.02	0.0	308.1	OK
1.032	32	7	90.950	-1.173	0.000	0.02	0.0	308.3	OK
1.033	33	7	90.938	0.665	0.000	0.70	0.0	152.9	SURCHARGED
25.000	108	8	90.843	-1.043	0.000	0.00	0.0	96.1	OK
25.001	109	8	90.842	-1.044	0.000	0.00	0.0	95.1	OK
25.002	110	8	90.841	-1.045	0.000	0.00	0.0	87.9	OK
1.034	109	8	90.839	0.973	0.000	0.26	0.0	60.7	SURCHARGED
1.035	34	8	90.618	3.968	0.000	0.84	0.0	60.7	SURCHARGED

M-EC		Page 47
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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

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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	23	116.577	-0.278	0.000	0.02	0.0	1.3	OK
1.001	2	23	116.443	-0.266	0.000	0.03	0.0	2.2	OK
1.002	3	23	116.342	-0.146	0.000	0.05	0.0	6.2	OK
1.003	4	23	116.339	-0.008	0.000	0.07	0.0	12.0	OK
2.000	36	23	118.446	-0.229	0.000	0.13	0.0	11.7	OK
2.001	37	23	118.236	-0.225	0.000	0.14	0.0	14.8	OK
2.002	38	23	117.983	-0.230	0.000	0.13	0.0	17.1	OK
2.003	39	23	117.105	-0.243	0.000	0.08	0.0	19.3	OK
3.000	44	23	116.887	-0.258	0.000	0.05	0.0	3.8	OK
3.001	45	23	116.663	-0.320	0.000	0.05	0.0	5.6	OK
3.002	46	23	116.509	-0.373	0.000	0.07	0.0	12.1	OK
4.000	50	23	117.087	-0.199	0.000	0.03	0.0	3.2	OK
3.003	47	23	116.444	-0.316	0.000	0.05	0.0	16.2	OK
3.004	48	23	116.439	-0.114	0.000	0.08	0.0	20.9	OK
3.005	49	23	116.426	-0.039	0.000	0.09	0.0	21.2	OK
2.004	40	23	116.417	-0.026	0.000	0.12	0.0	40.4	OK
2.005	41	23	116.353	0.000	0.000	0.10	0.0	43.1	OK
5.000	51	23	116.678	-0.209	0.000	0.01	0.0	1.8	OK
2.006	42	23	116.330	0.151	0.000	0.11	0.0	45.9	SURCHARGED
2.007	43	23	116.324	0.317	0.000	0.12	0.0	47.6	SURCHARGED
1.004	5	23	116.317	0.469	0.000	0.17	0.0	59.1	SURCHARGED
1.005	6	23	116.276	0.489	0.000	0.10	0.0	64.8	SURCHARGED

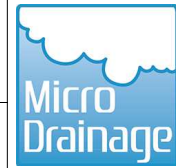
M-EC		Page 48
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	23	116.739	-0.191	0.000	0.06	0.0	2.5	OK
6.001	53	23	116.506	-0.187	0.000	0.07	0.0	2.5	OK
6.002	54	23	116.370	-0.255	0.000	0.06	0.0	4.1	OK
6.003	55	23	116.279	-0.036	0.000	0.09	0.0	5.6	OK
6.004	56	23	116.277	0.021	0.000	0.06	0.0	8.1	SURCHARGED
6.005	57	23	116.272	0.289	0.000	0.03	0.0	8.0	SURCHARGED
1.006	7	23	116.270	0.640	0.000	0.09	0.0	73.5	SURCHARGED
7.000	58	23	118.065	-0.195	0.000	0.04	0.0	1.7	OK
7.001	59	23	117.896	-0.199	0.000	0.03	0.0	3.8	OK
1.007	8	23	116.092	0.751	0.000	0.09	0.0	70.4	SURCHARGED
8.000	60	23	116.664	-0.192	0.000	0.05	0.0	2.1	OK
8.001	61	23	116.414	-0.270	0.000	0.02	0.0	2.3	OK
8.002	35	23	116.144	-0.284	0.000	0.01	0.0	2.8	OK
1.008	10	23	115.930	0.851	0.000	0.20	0.0	66.3	SURCHARGED
9.000	62	23	119.352	-0.200	0.000	0.03	0.0	1.5	OK
9.001	63	23	118.937	-0.255	0.000	0.05	0.0	5.6	OK
9.002	64	23	118.540	-0.266	0.000	0.03	0.0	7.7	OK
9.003	148	23	115.930	0.451	0.000	0.05	0.0	7.6	SURCHARGED
1.009	11	23	115.927	0.867	0.000	0.10	0.0	72.4	SURCHARGED
1.010	12	23	115.922	0.946	0.000	0.19	0.0	69.4	SURCHARGED
1.011	13	23	115.918	0.964	0.000	0.15	0.0	66.5	SURCHARGED
1.012	14	23	115.914	0.993	0.000	0.07	0.0	69.5	SURCHARGED
1.013	15	23	115.910	1.040	0.000	0.15	0.0	68.8	SURCHARGED
1.014	16	23	115.907	1.060	0.000	0.08	0.0	69.4	SURCHARGED
10.000	65	23	117.118	-0.251	0.000	0.06	0.0	4.1	OK
11.000	136	23	118.021	-0.193	0.000	0.05	0.0	2.9	OK
11.001	137	23	117.716	-0.191	0.000	0.06	0.0	3.1	OK
11.002	138	23	117.457	-0.263	0.000	0.04	0.0	4.9	OK
10.001	66	23	116.879	-0.321	0.000	0.05	0.0	11.2	OK
10.002	67	23	116.391	-0.319	0.000	0.05	0.0	12.4	OK
12.000	9	23	116.988	-0.296	0.000	0.00	0.0	0.4	OK
12.001	75	23	116.400	-0.266	0.000	0.03	0.0	2.4	OK
12.002	76	23	116.033	-0.456	0.000	0.01	0.0	4.5	OK
10.003	68	23	116.030	-0.289	0.000	0.08	0.0	18.7	OK
10.004	69	23	116.023	-0.167	0.000	0.07	0.0	22.1	OK
10.005	70	23	116.011	-0.090	0.000	0.05	0.0	21.9	OK
10.006	71	23	115.998	-0.050	0.000	0.05	0.0	24.8	OK
13.000	147	23	116.917	-0.212	0.000	0.01	0.0	0.9	OK
13.001	112	23	116.402	-0.271	0.000	0.02	0.0	1.9	OK
13.002	113	23	116.074	-0.416	0.000	0.02	0.0	2.6	OK
14.000	114	23	117.286	-0.215	0.000	0.01	0.0	0.5	OK
14.001	115	23	117.032	-0.207	0.000	0.02	0.0	1.1	OK
14.002	116	23	116.579	-0.199	0.000	0.03	0.0	2.1	OK
13.003	77	23	116.004	-0.398	0.000	0.03	0.0	5.2	OK
15.000	134	23	117.228	-0.204	0.000	0.02	0.0	2.0	OK
13.004	135	23	115.974	-0.337	0.000	0.04	0.0	8.8	OK
13.005	78	23	115.972	-0.123	0.000	0.04	0.0	9.9	OK
10.007	72	23	115.969	-0.006	0.000	0.02	0.0	35.7	OK
10.008	73	23	115.904	0.648	0.000	0.02	0.0	30.8	SURCHARGED
10.009	74	23	115.904	0.867	0.000	0.02	0.0	31.5	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



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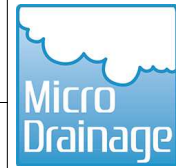
Network 2014.1

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	23	115.903	1.033	0.000	0.07	0.0	97.0	SURCHARGED
1.016	18	23	115.899	1.132	0.000	0.06	0.0	97.1	SURCHARGED
16.000	142	23	118.171	-0.128	0.000	0.05	0.0	2.3	OK
16.001	143	23	115.904	0.305	0.000	0.06	0.0	7.7	SURCHARGED
1.017	18a	23	115.894	1.270	0.000	0.07	0.0	106.4	SURCHARGED
1.018	19	23	115.890	1.372	0.000	0.09	0.0	106.4	SURCHARGED
17.000	118	23	117.161	-0.222	0.000	0.00	0.0	0.1	OK
17.001	119	23	117.017	-0.203	0.000	0.02	0.0	1.0	OK
17.002	120	23	116.882	-0.189	0.000	0.06	0.0	3.0	OK
18.000	129	23	117.453	-0.204	0.000	0.02	0.0	1.4	OK
18.001	130	23	117.033	-0.201	0.000	0.03	0.0	2.0	OK
17.003	121	23	116.433	-0.243	0.000	0.08	0.0	6.5	OK
19.000	131	23	117.347	-0.194	0.000	0.05	0.0	2.8	OK
19.001	132	23	116.822	-0.180	0.000	0.09	0.0	3.7	OK
19.002	133	23	116.650	-0.263	0.000	0.04	0.0	4.4	OK
17.004	122	23	116.192	-0.380	0.000	0.06	0.0	11.7	OK
17.005	123	23	116.071	-0.375	0.000	0.07	0.0	13.3	OK
20.000	139	23	117.858	-0.202	0.000	0.02	0.0	2.0	OK
20.001	140	23	117.054	-0.192	0.000	0.05	0.0	4.4	OK
17.006	124	23	115.936	-0.383	0.000	0.05	0.0	18.6	OK
17.007	125	23	115.902	0.000	0.000	0.03	0.0	18.3	OK
17.008	126	23	115.891	0.267	0.000	0.02	0.0	19.3	SURCHARGED
17.009	127	23	115.889	0.858	0.000	0.02	0.0	17.3	SURCHARGED
17.010	128	23	115.887	1.175	0.000	0.02	0.0	17.1	SURCHARGED
1.019	19a	23	115.886	1.421	0.000	0.09	0.0	124.1	SURCHARGED
21.000	98	24	116.000	-1.200	0.000	0.00	0.0	0.0	OK
1.020	20	23	115.880	2.326	0.000	1.51	0.0	127.2	SURCHARGED
1.021	21	23	115.604	2.195	0.000	1.50	0.0	127.7	SURCHARGED
1.022	22	23	115.256	2.035	0.000	1.57	0.0	127.9	SURCHARGED
22.000	79	23	122.594	-0.265	0.000	0.03	0.0	5.2	OK
22.001	80	23	121.804	-0.260	0.000	0.04	0.0	5.2	OK
22.002	81	23	121.392	-0.256	0.000	0.05	0.0	5.2	OK
22.003	82	23	121.171	-0.251	0.000	0.06	0.0	5.2	OK
22.004	83	23	120.930	-0.310	0.000	0.07	0.0	6.5	OK
22.005	84	23	120.880	-0.308	0.000	0.07	0.0	7.7	OK
22.006	85	23	120.765	-0.307	0.000	0.08	0.0	9.0	OK
22.007	86	23	120.495	-0.375	0.000	0.07	0.0	10.2	OK
22.008	87	23	120.408	-0.375	0.000	0.07	0.0	11.5	OK
22.009	88	23	120.207	-0.364	0.000	0.08	0.0	12.7	OK
22.010	89	23	120.124	-0.370	0.000	0.07	0.0	14.0	OK
22.011	90	23	119.844	-0.390	0.000	0.04	0.0	15.2	OK
22.012	91	23	119.368	-0.386	0.000	0.05	0.0	16.5	OK
22.013	92	23	118.765	-0.471	0.000	0.10	0.0	28.6	OK
22.014	93	23	118.656	-0.534	0.000	0.10	0.0	42.0	OK
22.015	94	23	118.499	-0.588	0.000	0.11	0.0	56.0	OK
22.016	95	23	118.374	-0.630	0.000	0.06	0.0	67.9	OK
22.017	96	23	117.693	-0.653	0.000	0.10	0.0	69.1	OK
22.018	97	23	117.479	-0.663	0.000	0.09	0.0	104.6	OK
22.019	98	23	116.740	-0.799	0.000	0.11	0.0	124.9	OK
22.020	99	23	116.594	-0.795	0.000	0.14	0.0	124.9	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



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Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	23	116.410	-0.922	0.000	0.04	0.0	124.8	OK
23.000	102	20	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	23	115.421	0.046	0.000	1.41	0.0	111.2	SURCHARGED
1.023	23	23	115.078	1.946	0.000	2.55	0.0	220.0	SURCHARGED
1.024	24	23	113.739	0.813	0.000	2.58	0.0	219.9	SURCHARGED
1.025	25	23	112.824	0.035	0.000	1.03	0.0	219.8	SURCHARGED
24.000	103	23	119.110	-0.415	0.000	0.10	0.0	21.3	OK
24.001	104	23	118.807	-0.585	0.000	0.11	0.0	61.8	OK
24.002	105	23	118.560	-0.583	0.000	0.11	0.0	61.8	OK
24.003	106	23	118.279	-1.868	0.000	0.00	0.0	61.8	OK
24.004	107	23	115.629	-0.918	0.000	0.00	0.0	61.8	OK
1.026	26	23	111.851	-1.057	0.000	0.01	0.0	268.9	OK
1.027	27	23	109.382	-0.365	0.000	0.06	0.0	268.9	OK
1.028	28	23	106.815	-0.376	0.000	0.04	0.0	268.8	OK
1.029	29	23	98.113	-0.364	0.000	0.05	0.0	268.8	OK
1.030	30	23	92.532	-0.850	0.000	0.02	0.0	268.9	OK
1.031	31	24	91.038	-1.212	0.000	0.02	0.0	268.8	OK
1.032	32	10	90.906	-1.217	0.000	0.01	0.0	268.8	OK
1.033	33	10	90.896	0.623	0.000	0.66	0.0	144.8	SURCHARGED
25.000	108	10	90.806	-1.080	0.000	0.00	0.0	69.2	OK
25.001	109	10	90.804	-1.082	0.000	0.00	0.0	68.3	OK
25.002	110	10	90.804	-1.082	0.000	0.00	0.0	62.9	OK
1.034	109	10	90.803	0.937	0.000	0.26	0.0	60.5	SURCHARGED
1.035	34	10	90.583	3.933	0.000	0.83	0.0	60.5	SURCHARGED

M-EC		Page 51
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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

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	Rank	Water		Flooded			Pipe		Status
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)		
1.000	1	12	117.226	0.371	0.000	0.25	0.0	20.0	SURCHARGED	
1.001	2	12	117.221	0.512	0.000	0.47	0.0	33.2	SURCHARGED	
1.002	3	12	117.217	0.729	0.000	0.69	0.0	85.0	SURCHARGED	
1.003	4	12	117.212	0.865	0.000	0.87	0.0	154.4	SURCHARGED	
2.000	36	1	119.737	1.062	0.000	1.35	0.0	124.5	FLOOD RISK	
2.001	37	1	119.555	1.094	0.000	1.44	0.0	149.5	SURCHARGED	
2.002	38	1	119.221	1.008	0.000	1.25	0.0	169.4	SURCHARGED	
2.003	39	5	118.147	0.799	0.000	0.93	0.0	221.6	SURCHARGED	
3.000	44	6	118.113	0.968	0.000	0.68	0.0	54.9	FLOOD RISK	
3.001	45	5	118.085	1.102	0.000	0.66	0.0	70.7	FLOOD RISK	
3.002	46	6	118.003	1.121	0.000	0.87	0.0	153.3	SURCHARGED	
4.000	50	6	118.038	0.752	0.000	0.52	0.0	53.1	SURCHARGED	
3.003	47	6	117.983	1.223	0.000	0.57	0.0	180.5	SURCHARGED	
3.004	48	8	117.888	1.335	0.000	0.87	0.0	213.7	SURCHARGED	
3.005	49	8	117.882	1.417	0.000	0.95	0.0	212.8	SURCHARGED	
2.004	40	7	117.895	1.452	0.000	1.10	0.0	382.9	SURCHARGED	
2.005	41	5	117.894	1.541	0.000	0.99	0.0	414.9	SURCHARGED	
5.000	51	15	117.384	0.497	0.000	0.24	0.0	28.9	SURCHARGED	
2.006	42	6	117.680	1.501	0.000	1.06	0.0	440.8	SURCHARGED	
2.007	43	5	117.639	1.632	0.000	1.13	0.0	452.5	SURCHARGED	
1.004	5	6	117.401	1.553	0.000	1.67	0.0	579.0	SURCHARGED	
1.005	6	11	117.253	1.466	0.000	1.01	0.0	626.5	SURCHARGED	

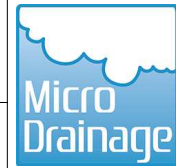
M-EC		Page 52
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
6.000	52	13	117.175	0.245	0.000	0.88	0.0	39.6	SURCHARGED
6.001	53	9	117.284	0.591	0.000	1.06	0.0	39.0	SURCHARGED
6.002	54	10	117.247	0.622	0.000	0.81	0.0	60.2	SURCHARGED
6.003	55	13	117.169	0.854	0.000	1.31	0.0	80.4	SURCHARGED
6.004	56	12	117.173	0.917	0.000	0.88	0.0	111.2	SURCHARGED
6.005	57	12	117.177	1.194	0.000	0.45	0.0	105.1	SURCHARGED
1.006	7	12	117.178	1.548	0.000	0.81	0.0	677.0	SURCHARGED
7.000	58	1	118.174	-0.086	0.000	0.68	0.0	26.6	OK
7.001	59	1	117.987	-0.108	0.000	0.52	0.0	61.5	OK
1.007	8	12	117.013	1.672	0.000	0.91	0.0	678.7	SURCHARGED
8.000	60	11	116.889	0.033	0.000	0.85	0.0	33.2	SURCHARGED
8.001	61	12	116.880	0.196	0.000	0.34	0.0	36.1	SURCHARGED
8.002	35	12	116.872	0.444	0.000	0.18	0.0	45.2	SURCHARGED
1.008	10	10	116.901	1.822	0.000	2.00	0.0	662.8	SURCHARGED
9.000	62	1	119.438	-0.114	0.000	0.48	0.0	23.3	OK
9.001	63	1	119.120	-0.072	0.000	0.90	0.0	92.7	OK
9.002	64	1	118.661	-0.145	0.000	0.51	0.0	126.1	OK
9.003	148	11	116.900	1.421	0.000	0.78	0.0	127.2	SURCHARGED
1.009	11	10	116.883	1.823	0.000	1.05	0.0	773.3	SURCHARGED
1.010	12	11	116.853	1.877	0.000	2.07	0.0	773.3	SURCHARGED
1.011	13	11	116.832	1.878	0.000	1.74	0.0	759.5	SURCHARGED
1.012	14	12	116.803	1.882	0.000	0.83	0.0	784.4	SURCHARGED
1.013	15	12	116.780	1.910	0.000	1.63	0.0	745.9	SURCHARGED
1.014	16	13	116.758	1.911	0.000	0.78	0.0	719.7	SURCHARGED
10.000	65	4	117.322	-0.047	0.000	0.98	0.0	64.7	OK
11.000	136	1	118.141	-0.073	0.000	0.78	0.0	46.4	OK
11.001	137	1	117.851	-0.056	0.000	0.89	0.0	50.3	OK
11.002	138	2	117.592	-0.127	0.000	0.61	0.0	78.5	OK
10.001	66	9	117.085	-0.115	0.000	0.81	0.0	178.2	OK
10.002	67	14	116.786	0.076	0.000	0.86	0.0	193.3	SURCHARGED
12.000	9	9	117.025	-0.259	0.000	0.05	0.0	5.7	OK
12.001	75	14	116.742	0.076	0.000	0.52	0.0	40.1	SURCHARGED
12.002	76	14	116.733	0.244	0.000	0.22	0.0	68.3	SURCHARGED
10.003	68	14	116.729	0.410	0.000	1.17	0.0	283.3	SURCHARGED
10.004	69	14	116.712	0.522	0.000	1.00	0.0	315.6	SURCHARGED
10.005	70	14	116.709	0.608	0.000	0.66	0.0	313.7	SURCHARGED
10.006	71	14	116.709	0.661	0.000	0.68	0.0	346.7	SURCHARGED
13.000	147	10	116.971	-0.158	0.000	0.19	0.0	13.8	OK
13.001	112	14	116.695	0.022	0.000	0.34	0.0	32.5	SURCHARGED
13.002	113	14	116.689	0.199	0.000	0.26	0.0	43.6	SURCHARGED
14.000	114	2	117.333	-0.168	0.000	0.15	0.0	8.8	OK
14.001	115	7	117.096	-0.143	0.000	0.29	0.0	18.1	OK
14.002	116	14	116.693	-0.086	0.000	0.52	0.0	35.4	OK
13.003	77	15	116.688	0.285	0.000	0.51	0.0	86.1	SURCHARGED
15.000	134	3	117.294	-0.138	0.000	0.31	0.0	32.8	OK
13.004	135	15	116.687	0.376	0.000	0.61	0.0	142.6	SURCHARGED
13.005	78	14	116.696	0.601	0.000	0.60	0.0	159.0	SURCHARGED
10.007	72	14	116.709	0.733	0.000	0.30	0.0	510.9	SURCHARGED
10.008	73	13	116.724	1.468	0.000	0.24	0.0	467.9	SURCHARGED
10.009	74	13	116.730	1.693	0.000	0.19	0.0	377.7	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	13	116.734	1.864	0.000	0.58	0.0	826.5	SURCHARGED
1.016	18	13	116.711	1.944	0.000	0.46	0.0	793.7	SURCHARGED
16.000	142	1	118.255	-0.044	0.000	0.83	0.0	37.1	OK
16.001	143	14	116.709	1.110	0.000	1.06	0.0	125.9	SURCHARGED
1.017	18a	13	116.684	2.060	0.000	0.47	0.0	753.5	SURCHARGED
1.018	19	14	116.654	2.136	0.000	0.60	0.0	742.0	SURCHARGED
17.000	118	8	117.191	-0.192	0.000	0.05	0.0	2.4	OK
17.001	119	8	117.119	-0.101	0.000	0.34	0.0	15.5	OK
17.002	120	9	117.093	0.022	0.000	0.95	0.0	46.7	SURCHARGED
18.000	129	3	117.520	-0.137	0.000	0.32	0.0	23.3	OK
18.001	130	8	117.114	-0.120	0.000	0.44	0.0	32.4	OK
17.003	121	14	116.737	0.061	0.000	1.29	0.0	103.9	SURCHARGED
19.000	131	3	117.467	-0.074	0.000	0.76	0.0	44.9	OK
19.001	132	9	117.088	0.086	0.000	1.41	0.0	59.9	SURCHARGED
19.002	133	13	116.781	-0.132	0.000	0.59	0.0	69.9	OK
17.004	122	16	116.656	0.084	0.000	0.91	0.0	182.2	SURCHARGED
17.005	123	16	116.646	0.200	0.000	1.00	0.0	200.1	SURCHARGED
20.000	139	1	117.932	-0.128	0.000	0.39	0.0	31.7	OK
20.001	140	7	117.187	-0.059	0.000	0.88	0.0	73.4	OK
17.006	124	16	116.639	0.320	0.000	0.78	0.0	283.6	SURCHARGED
17.007	125	16	116.630	0.729	0.000	0.54	0.0	283.6	SURCHARGED
17.008	126	16	116.629	1.005	0.000	0.25	0.0	301.5	SURCHARGED
17.009	127	16	116.628	1.597	0.000	0.35	0.0	311.2	SURCHARGED
17.010	128	16	116.628	1.916	0.000	0.25	0.0	284.7	SURCHARGED
1.019	19a	15	116.628	2.163	0.000	0.52	0.0	716.3	SURCHARGED
21.000	98	19	116.389	-0.811	0.000	0.02	0.0	69.7	OK
1.020	20	15	116.597	3.043	0.000	2.56	0.0	215.0	SURCHARGED
1.021	21	11	116.439	3.030	0.000	2.17	0.0	184.0	SURCHARGED
1.022	22	14	115.918	2.697	0.000	2.02	0.0	164.9	SURCHARGED
22.000	79	1	122.717	-0.142	0.000	0.53	0.0	84.2	OK
22.001	80	1	121.956	-0.108	0.000	0.72	0.0	83.8	OK
22.002	81	1	121.560	-0.088	0.000	0.84	0.0	84.3	OK
22.003	82	1	121.421	-0.001	0.000	0.98	0.0	79.5	OK
22.004	83	1	121.255	0.015	0.000	0.97	0.0	89.5	SURCHARGED
22.005	84	1	121.178	-0.009	0.000	1.00	0.0	103.1	OK
22.006	85	1	120.998	-0.074	0.000	0.97	0.0	115.4	OK
22.007	86	1	120.730	-0.140	0.000	0.81	0.0	126.5	OK
22.008	87	1	120.638	-0.144	0.000	0.77	0.0	133.3	OK
22.009	88	1	120.454	-0.117	0.000	0.90	0.0	138.2	OK
22.010	89	1	120.340	-0.154	0.000	0.75	0.0	141.7	OK
22.011	90	1	119.986	-0.247	0.000	0.42	0.0	145.6	OK
22.012	91	2	119.516	-0.238	0.000	0.45	0.0	149.7	OK
22.013	92	1	119.266	0.030	0.000	1.05	0.0	286.5	SURCHARGED
22.014	93	1	119.208	0.018	0.000	1.03	0.0	443.3	SURCHARGED
22.015	94	1	119.090	0.002	0.000	1.12	0.0	596.3	SURCHARGED
22.016	95	1	118.701	-0.303	0.000	0.66	0.0	721.8	OK
22.017	96	1	118.217	-0.129	0.000	0.99	0.0	705.4	OK
22.018	97	1	117.992	-0.150	0.000	0.85	0.0	1032.3	OK
22.019	98	1	117.569	0.030	0.000	1.06	0.0	1187.7	SURCHARGED
22.020	99	3	117.389	0.000	0.000	1.28	0.0	1183.4	OK

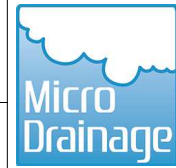
M-EC		Page 54
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH		Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
	Name	Rank	Level (m)		Volume (m ³)			Flow (l/s)	
22.021	100	1	116.704	-0.628	0.000	0.34	0.0	1181.6	OK
23.000	102	21	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	14	115.819	0.444	0.000	1.81	0.0	143.4	SURCHARGED
1.023	23	15	115.656	2.524	0.000	2.84	0.0	245.6	SURCHARGED
1.024	24	14	114.087	1.161	0.000	2.84	0.0	241.7	SURCHARGED
1.025	25	14	112.979	0.190	0.000	1.14	0.0	241.6	SURCHARGED
24.000	103	1	119.953	0.428	0.000	1.41	0.0	304.4	SURCHARGED
24.001	104	1	119.708	0.316	0.000	1.36	0.0	760.5	SURCHARGED
24.002	105	1	119.273	0.130	0.000	1.30	0.0	713.9	SURCHARGED
24.003	106	1	118.428	-1.719	0.000	0.01	0.0	716.6	OK
24.004	107	1	115.774	-0.773	0.000	0.04	0.0	718.2	OK
1.026	26	2	111.938	-0.970	0.000	0.03	0.0	754.1	OK
1.027	27	2	109.460	-0.287	0.000	0.17	0.0	751.0	FLOOD RISK
1.028	28	2	106.886	-0.305	0.000	0.10	0.0	753.0	OK
1.029	29	2	98.189	-0.288	0.000	0.13	0.0	754.5	FLOOD RISK
1.030	30	2	92.631	-0.751	0.000	0.05	0.0	753.5	OK
1.031	31	2	91.157	-1.093	0.000	0.05	0.0	748.0	OK
1.032	32	17	90.735	-1.388	0.000	0.04	0.0	748.6	OK
1.033	33	23	90.117	-0.156	0.000	0.75	0.0	165.4	OK
25.000	108	16	90.598	-1.288	0.000	0.05	0.0	1112.8	OK
25.001	109	17	90.445	-1.441	0.000	0.04	0.0	1077.3	OK
25.002	110	19	90.252	-1.634	0.000	0.03	0.0	1059.7	OK
1.034	109	23	89.889	0.023	0.000	0.49	0.0	113.1	SURCHARGED
1.035	34	23	89.714	3.064	0.000	0.74	0.0	53.9	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx

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Micro Drainage

Network 2014.1

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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

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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Flow (l/s)	
1.000	1	4	117.618	0.763	0.000	0.22	0.0	17.4	FLOOD RISK
1.001	2	4	117.613	0.904	0.000	0.36	0.0	25.7	SURCHARGED
1.002	3	4	117.604	1.116	0.000	0.59	0.0	73.3	SURCHARGED
1.003	4	4	117.594	1.247	0.000	0.75	0.0	132.5	SURCHARGED
2.000	36	3	119.485	0.810	0.000	1.20	0.0	110.9	SURCHARGED
2.001	37	4	119.275	0.814	0.000	1.31	0.0	135.1	SURCHARGED
2.002	38	2	119.073	0.860	0.000	1.13	0.0	153.7	SURCHARGED
2.003	39	2	118.271	0.923	0.000	0.89	0.0	212.7	SURCHARGED
3.000	44	3	118.224	1.079	0.000	0.57	0.0	46.3	FLOOD RISK
3.001	45	3	118.213	1.230	0.000	0.61	0.0	65.5	FLOOD RISK
3.002	46	3	118.205	1.323	0.000	0.79	0.0	138.1	SURCHARGED
4.000	50	3	118.150	0.864	0.000	0.56	0.0	57.7	SURCHARGED
3.003	47	3	118.143	1.383	0.000	0.51	0.0	160.3	SURCHARGED
3.004	48	3	118.010	1.457	0.000	0.77	0.0	189.0	SURCHARGED
3.005	49	4	117.969	1.504	0.000	0.78	0.0	175.8	SURCHARGED
2.004	40	4	117.964	1.521	0.000	0.96	0.0	332.8	SURCHARGED
2.005	41	4	117.932	1.579	0.000	0.81	0.0	340.3	SURCHARGED
5.000	51	4	117.800	0.913	0.000	0.27	0.0	32.2	SURCHARGED
2.006	42	4	117.795	1.616	0.000	0.84	0.0	349.1	SURCHARGED
2.007	43	4	117.659	1.652	0.000	0.90	0.0	358.2	SURCHARGED
1.004	5	3	117.542	1.694	0.000	1.34	0.0	465.3	SURCHARGED
1.005	6	4	117.517	1.730	0.000	0.82	0.0	511.3	SURCHARGED

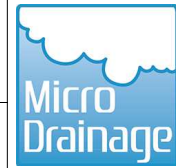
M-EC		Page 56
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water	Flooded	Pipe		Status		
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)		Flow (l/s)	
6.000	52	4	117.552	0.622	0.000	0.70	0.0	31.6	SURCHARGED
6.001	53	4	117.539	0.846	0.000	0.85	0.0	31.4	SURCHARGED
6.002	54	4	117.533	0.908	0.000	0.66	0.0	49.1	SURCHARGED
6.003	55	4	117.517	1.202	0.000	0.97	0.0	59.7	SURCHARGED
6.004	56	4	117.508	1.252	0.000	0.67	0.0	83.9	SURCHARGED
6.005	57	4	117.488	1.505	0.000	0.35	0.0	80.9	SURCHARGED
1.006	7	4	117.479	1.849	0.000	0.69	0.0	571.4	SURCHARGED
7.000	58	4	118.153	-0.107	0.000	0.54	0.0	20.9	OK
7.001	59	4	117.969	-0.126	0.000	0.40	0.0	47.4	OK
1.007	8	4	117.294	1.953	0.000	0.72	0.0	540.6	SURCHARGED
8.000	60	4	117.178	0.322	0.000	0.67	0.0	26.2	SURCHARGED
8.001	61	4	117.156	0.472	0.000	0.27	0.0	28.2	SURCHARGED
8.002	35	4	117.145	0.717	0.000	0.14	0.0	35.4	SURCHARGED
1.008	10	5	117.129	2.050	0.000	1.57	0.0	521.6	SURCHARGED
9.000	62	4	119.422	-0.130	0.000	0.37	0.0	18.3	OK
9.001	63	4	119.078	-0.114	0.000	0.69	0.0	71.4	OK
9.002	64	4	118.637	-0.169	0.000	0.39	0.0	97.8	OK
9.003	148	3	117.170	1.691	0.000	0.69	0.0	111.5	SURCHARGED
1.009	11	5	117.107	2.047	0.000	0.77	0.0	569.5	SURCHARGED
1.010	12	5	117.071	2.095	0.000	1.42	0.0	532.2	SURCHARGED
1.011	13	5	117.047	2.093	0.000	1.21	0.0	527.6	SURCHARGED
1.012	14	5	117.015	2.094	0.000	0.61	0.0	578.2	SURCHARGED
1.013	15	5	116.990	2.120	0.000	1.24	0.0	566.9	SURCHARGED
1.014	16	6	116.967	2.120	0.000	0.58	0.0	528.4	SURCHARGED
10.000	65	3	117.333	-0.036	0.000	0.78	0.0	51.0	OK
11.000	136	4	118.116	-0.098	0.000	0.61	0.0	36.3	OK
11.001	137	4	117.822	-0.085	0.000	0.70	0.0	39.5	OK
11.002	138	5	117.565	-0.154	0.000	0.48	0.0	61.3	OK
10.001	66	3	117.312	0.112	0.000	0.63	0.0	139.4	SURCHARGED
10.002	67	4	117.289	0.580	0.000	0.68	0.0	153.2	SURCHARGED
12.000	9	4	117.265	-0.019	0.000	0.04	0.0	4.5	OK
12.001	75	4	117.265	0.599	0.000	0.39	0.0	30.1	SURCHARGED
12.002	76	4	117.259	0.770	0.000	0.18	0.0	56.7	SURCHARGED
10.003	68	4	117.257	0.938	0.000	0.96	0.0	231.1	SURCHARGED
10.004	69	4	117.196	1.006	0.000	0.85	0.0	267.8	SURCHARGED
10.005	70	4	117.186	1.084	0.000	0.52	0.0	247.3	SURCHARGED
10.006	71	4	117.180	1.133	0.000	0.54	0.0	276.6	SURCHARGED
13.000	147	4	117.203	0.074	0.000	0.15	0.0	10.8	SURCHARGED
13.001	112	4	117.194	0.521	0.000	0.26	0.0	24.6	SURCHARGED
13.002	113	4	117.190	0.700	0.000	0.20	0.0	33.4	SURCHARGED
14.000	114	6	117.326	-0.175	0.000	0.11	0.0	6.8	OK
14.001	115	4	117.209	-0.030	0.000	0.22	0.0	13.7	OK
14.002	116	4	117.198	0.419	0.000	0.39	0.0	26.5	SURCHARGED
13.003	77	4	117.189	0.786	0.000	0.39	0.0	66.0	SURCHARGED
15.000	134	6	117.282	-0.150	0.000	0.24	0.0	25.5	OK
13.004	135	4	117.185	0.874	0.000	0.47	0.0	109.6	SURCHARGED
13.005	78	4	117.178	1.083	0.000	0.46	0.0	122.1	SURCHARGED
10.007	72	4	117.173	1.198	0.000	0.23	0.0	392.7	SURCHARGED
10.008	73	6	116.953	1.697	0.000	0.16	0.0	310.2	SURCHARGED
10.009	74	6	116.949	1.912	0.000	0.13	0.0	246.8	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	6	116.941	2.071	0.000	0.44	0.0	632.8	SURCHARGED
1.016	18	6	116.914	2.147	0.000	0.35	0.0	610.7	SURCHARGED
16.000	142	4	118.237	-0.062	0.000	0.64	0.0	28.9	OK
16.001	143	6	116.950	1.350	0.000	0.82	0.0	97.9	SURCHARGED
1.017	18a	8	116.887	2.263	0.000	0.42	0.0	669.9	SURCHARGED
1.018	19	8	116.860	2.342	0.000	0.53	0.0	649.5	SURCHARGED
17.000	118	6	117.310	-0.073	0.000	0.04	0.0	1.8	OK
17.001	119	6	117.310	0.090	0.000	0.27	0.0	12.3	SURCHARGED
17.002	120	6	117.306	0.235	0.000	0.78	0.0	38.4	SURCHARGED
18.000	129	6	117.508	-0.149	0.000	0.25	0.0	18.1	OK
18.001	130	6	117.298	0.064	0.000	0.34	0.0	25.0	SURCHARGED
17.003	121	6	117.289	0.613	0.000	1.00	0.0	80.4	SURCHARGED
19.000	131	6	117.442	-0.099	0.000	0.60	0.0	35.3	OK
19.001	132	6	117.300	0.297	0.000	1.09	0.0	46.3	SURCHARGED
19.002	133	6	117.293	0.380	0.000	0.46	0.0	54.1	SURCHARGED
17.004	122	6	117.282	0.710	0.000	0.72	0.0	144.1	SURCHARGED
17.005	123	5	117.272	0.827	0.000	0.82	0.0	163.9	SURCHARGED
20.000	139	4	117.919	-0.141	0.000	0.30	0.0	24.7	OK
20.001	140	4	117.245	-0.001	0.000	0.67	0.0	55.5	OK
17.006	124	4	117.216	0.897	0.000	0.62	0.0	227.6	SURCHARGED
17.007	125	4	117.109	1.207	0.000	0.43	0.0	226.4	SURCHARGED
17.008	126	5	116.976	1.352	0.000	0.19	0.0	225.2	SURCHARGED
17.009	127	5	116.970	1.939	0.000	0.23	0.0	203.4	SURCHARGED
17.010	128	8	116.861	2.149	0.000	0.16	0.0	181.9	SURCHARGED
1.019	19a	9	116.834	2.369	0.000	0.53	0.0	734.8	SURCHARGED
21.000	98	12	116.720	-0.480	0.000	0.02	0.0	80.7	OK
1.020	20	9	116.802	3.248	0.000	2.35	0.0	197.3	SURCHARGED
1.021	21	10	116.443	3.034	0.000	2.01	0.0	170.9	SURCHARGED
1.022	22	10	116.050	2.829	0.000	1.95	0.0	158.7	SURCHARGED
22.000	79	4	122.693	-0.166	0.000	0.42	0.0	65.7	OK
22.001	80	4	121.925	-0.139	0.000	0.56	0.0	65.6	OK
22.002	81	4	121.526	-0.122	0.000	0.65	0.0	65.2	OK
22.003	82	4	121.327	-0.095	0.000	0.80	0.0	65.3	OK
22.004	83	4	121.141	-0.099	0.000	0.85	0.0	79.2	OK
22.005	84	4	121.092	-0.096	0.000	0.90	0.0	92.6	OK
22.006	85	4	120.973	-0.099	0.000	0.88	0.0	104.0	OK
22.007	86	4	120.709	-0.161	0.000	0.74	0.0	115.4	OK
22.008	87	4	120.620	-0.162	0.000	0.72	0.0	124.2	OK
22.009	88	2	120.443	-0.128	0.000	0.85	0.0	131.5	OK
22.010	89	2	120.334	-0.160	0.000	0.73	0.0	138.5	OK
22.011	90	2	119.985	-0.248	0.000	0.42	0.0	145.2	OK
22.012	91	1	119.518	-0.236	0.000	0.46	0.0	152.0	OK
22.013	92	2	119.181	-0.056	0.000	0.98	0.0	268.8	OK
22.014	93	2	119.136	-0.055	0.000	0.92	0.0	396.1	OK
22.015	94	2	119.049	-0.039	0.000	1.00	0.0	530.3	OK
22.016	95	4	118.676	-0.328	0.000	0.60	0.0	662.8	OK
22.017	96	4	118.155	-0.191	0.000	0.94	0.0	666.5	OK
22.018	97	2	117.950	-0.192	0.000	0.82	0.0	1001.1	OK
22.019	98	2	117.554	0.015	0.000	1.03	0.0	1148.6	SURCHARGED
22.020	99	4	117.389	0.000	0.000	1.24	0.0	1148.3	OK

M-EC		Page 58
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH		Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
	Name	Rank	Level (m)		Volume (m ³)			Flow (l/s)	
22.021	100	2	116.696	-0.636	0.000	0.33	0.0	1147.0	OK
23.000	102	8	116.009	-0.141	0.000	0.00	0.0	0.0	OK
22.022	101	8	116.016	0.641	0.000	1.80	0.0	142.2	SURCHARGED
1.023	23	8	115.850	2.718	0.000	2.86	0.0	247.4	SURCHARGED
1.024	24	8	114.169	1.243	0.000	2.90	0.0	246.9	SURCHARGED
1.025	25	8	113.019	0.230	0.000	1.16	0.0	246.9	SURCHARGED
24.000	103	4	119.687	0.162	0.000	1.15	0.0	247.9	SURCHARGED
24.001	104	4	119.523	0.131	0.000	1.20	0.0	674.7	SURCHARGED
24.002	105	4	119.192	0.049	0.000	1.16	0.0	638.1	SURCHARGED
24.003	106	3	118.419	-1.728	0.000	0.01	0.0	640.4	OK
24.004	107	3	115.764	-0.783	0.000	0.03	0.0	641.1	OK
1.026	26	1	111.942	-0.966	0.000	0.03	0.0	775.7	OK
1.027	27	1	109.462	-0.285	0.000	0.17	0.0	775.1	FLOOD RISK
1.028	28	1	106.888	-0.303	0.000	0.11	0.0	773.4	OK
1.029	29	1	98.191	-0.286	0.000	0.13	0.0	770.7	FLOOD RISK
1.030	30	1	92.634	-0.748	0.000	0.05	0.0	772.6	OK
1.031	31	1	91.160	-1.090	0.000	0.06	0.0	768.4	OK
1.032	32	16	90.739	-1.384	0.000	0.04	0.0	769.0	OK
1.033	33	21	90.153	-0.120	0.000	0.87	0.0	191.2	OK
25.000	108	20	90.553	-1.333	0.000	0.04	0.0	874.6	OK
25.001	109	21	90.408	-1.478	0.000	0.04	0.0	864.1	OK
25.002	110	22	90.207	-1.679	0.000	0.03	0.0	857.7	OK
1.034	109	21	89.970	0.104	0.000	0.46	0.0	105.6	SURCHARGED
1.035	34	21	89.790	3.140	0.000	0.75	0.0	54.5	SURCHARGED

M-EC		Page 59
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

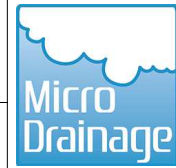
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	2	117.678	0.823	0.000	0.13	0.0	10.2	FLOOD RISK
1.001	2	2	117.672	0.963	0.000	0.24	0.0	17.3	SURCHARGED
1.002	3	2	117.661	1.173	0.000	0.38	0.0	47.0	SURCHARGED
1.003	4	2	117.647	1.300	0.000	0.50	0.0	89.6	SURCHARGED
2.000	36	6	118.820	0.145	0.000	1.01	0.0	92.8	SURCHARGED
2.001	37	6	118.708	0.247	0.000	1.13	0.0	117.0	SURCHARGED
2.002	38	5	118.579	0.366	0.000	0.98	0.0	132.9	SURCHARGED
2.003	39	1	118.287	0.939	0.000	0.62	0.0	148.2	SURCHARGED
3.000	44	1	118.320	1.175	0.000	0.38	0.0	30.9	FLOOD RISK
3.001	45	1	118.310	1.327	0.000	0.40	0.0	43.0	FLOOD RISK
3.002	46	1	118.301	1.419	0.000	0.51	0.0	89.8	SURCHARGED
4.000	50	1	118.216	0.930	0.000	0.26	0.0	26.5	SURCHARGED
3.003	47	1	118.205	1.445	0.000	0.37	0.0	117.3	SURCHARGED
3.004	48	1	118.072	1.519	0.000	0.60	0.0	146.7	SURCHARGED
3.005	49	2	117.986	1.521	0.000	0.65	0.0	145.1	SURCHARGED
2.004	40	2	117.979	1.536	0.000	0.80	0.0	279.1	SURCHARGED
2.005	41	3	117.941	1.588	0.000	0.71	0.0	297.4	SURCHARGED
5.000	51	3	117.808	0.921	0.000	0.12	0.0	14.4	SURCHARGED
2.006	42	3	117.804	1.625	0.000	0.71	0.0	296.5	SURCHARGED
2.007	43	3	117.666	1.659	0.000	0.70	0.0	280.2	SURCHARGED
1.004	5	4	117.536	1.688	0.000	0.97	0.0	336.1	SURCHARGED
1.005	6	3	117.521	1.734	0.000	0.59	0.0	367.6	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	3	117.607	0.677	0.000	0.46	0.0	20.5	SURCHARGED
6.001	53	3	117.588	0.895	0.000	0.55	0.0	20.3	SURCHARGED
6.002	54	3	117.580	0.955	0.000	0.43	0.0	32.4	SURCHARGED
6.003	55	3	117.559	1.244	0.000	0.65	0.0	40.0	SURCHARGED
6.004	56	3	117.549	1.293	0.000	0.45	0.0	56.6	SURCHARGED
6.005	57	3	117.503	1.520	0.000	0.20	0.0	46.9	SURCHARGED
1.006	7	3	117.494	1.864	0.000	0.48	0.0	399.0	SURCHARGED
7.000	58	6	118.127	-0.133	0.000	0.35	0.0	13.7	OK
7.001	59	6	117.948	-0.147	0.000	0.26	0.0	30.9	OK
1.007	8	3	117.318	1.977	0.000	0.48	0.0	358.5	SURCHARGED
8.000	60	3	117.185	0.329	0.000	0.43	0.0	17.0	SURCHARGED
8.001	61	3	117.173	0.489	0.000	0.17	0.0	18.3	SURCHARGED
8.002	35	3	117.167	0.739	0.000	0.09	0.0	22.5	SURCHARGED
1.008	10	3	117.160	2.081	0.000	1.03	0.0	343.0	SURCHARGED
9.000	62	6	119.402	-0.150	0.000	0.24	0.0	12.0	OK
9.001	63	6	119.034	-0.158	0.000	0.45	0.0	46.3	OK
9.002	64	6	118.610	-0.196	0.000	0.26	0.0	63.4	OK
9.003	148	4	117.154	1.675	0.000	0.35	0.0	57.4	SURCHARGED
1.009	11	3	117.144	2.084	0.000	0.53	0.0	385.9	SURCHARGED
1.010	12	4	117.118	2.142	0.000	1.04	0.0	387.0	SURCHARGED
1.011	13	4	117.101	2.147	0.000	0.89	0.0	388.0	SURCHARGED
1.012	14	4	117.079	2.158	0.000	0.44	0.0	415.8	SURCHARGED
1.013	15	4	117.063	2.193	0.000	0.90	0.0	412.9	SURCHARGED
1.014	16	4	117.054	2.207	0.000	0.45	0.0	410.6	SURCHARGED
10.000	65	1	117.598	0.229	0.000	0.51	0.0	33.8	SURCHARGED
11.000	136	6	118.088	-0.126	0.000	0.40	0.0	23.6	OK
11.001	137	6	117.789	-0.118	0.000	0.45	0.0	25.6	OK
11.002	138	1	117.599	-0.120	0.000	0.31	0.0	39.8	OK
10.001	66	1	117.574	0.374	0.000	0.42	0.0	91.8	SURCHARGED
10.002	67	1	117.433	0.724	0.000	0.44	0.0	99.7	SURCHARGED
12.000	9	2	117.342	0.058	0.000	0.02	0.0	2.9	SURCHARGED
12.001	75	2	117.341	0.675	0.000	0.25	0.0	19.5	SURCHARGED
12.002	76	2	117.336	0.847	0.000	0.12	0.0	36.7	SURCHARGED
10.003	68	2	117.334	1.015	0.000	0.61	0.0	147.7	SURCHARGED
10.004	69	2	117.318	1.128	0.000	0.49	0.0	155.2	SURCHARGED
10.005	70	3	117.307	1.206	0.000	0.32	0.0	151.3	SURCHARGED
10.006	71	3	117.301	1.254	0.000	0.34	0.0	171.1	SURCHARGED
13.000	147	2	117.321	0.192	0.000	0.10	0.0	7.0	SURCHARGED
13.001	112	2	117.315	0.642	0.000	0.17	0.0	16.0	SURCHARGED
13.002	113	2	117.311	0.821	0.000	0.13	0.0	21.6	SURCHARGED
14.000	114	4	117.329	-0.172	0.000	0.07	0.0	4.4	OK
14.001	115	2	117.326	0.087	0.000	0.14	0.0	8.9	SURCHARGED
14.002	116	2	117.318	0.539	0.000	0.25	0.0	17.3	SURCHARGED
13.003	77	2	117.309	0.907	0.000	0.25	0.0	42.2	SURCHARGED
15.000	134	2	117.315	-0.117	0.000	0.16	0.0	16.6	OK
13.004	135	2	117.306	0.994	0.000	0.29	0.0	69.0	SURCHARGED
13.005	78	2	117.299	1.204	0.000	0.27	0.0	72.7	SURCHARGED
10.007	72	2	117.294	1.319	0.000	0.14	0.0	234.5	SURCHARGED
10.008	73	4	117.049	1.793	0.000	0.08	0.0	163.1	SURCHARGED
10.009	74	4	117.047	2.010	0.000	0.08	0.0	150.9	SURCHARGED

M-EC		Page 61
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	4	117.045	2.175	0.000	0.39	0.0	556.3	SURCHARGED
1.016	18	4	117.037	2.270	0.000	0.32	0.0	554.8	SURCHARGED
16.000	142	6	118.217	-0.082	0.000	0.42	0.0	18.8	OK
16.001	143	4	117.038	1.438	0.000	0.49	0.0	58.5	SURCHARGED
1.017	18a	4	117.030	2.406	0.000	0.38	0.0	617.3	SURCHARGED
1.018	19	4	117.022	2.504	0.000	0.50	0.0	616.6	SURCHARGED
17.000	118	1	117.778	0.395	0.000	0.03	0.0	1.3	SURCHARGED
17.001	119	1	117.778	0.558	0.000	0.17	0.0	8.0	SURCHARGED
17.002	120	1	117.774	0.703	0.000	0.50	0.0	24.8	SURCHARGED
18.000	129	1	117.773	0.116	0.000	0.16	0.0	11.8	SURCHARGED
18.001	130	1	117.765	0.531	0.000	0.22	0.0	16.3	SURCHARGED
17.003	121	1	117.753	1.077	0.000	0.67	0.0	53.6	SURCHARGED
19.000	131	1	117.792	0.251	0.000	0.39	0.0	23.0	SURCHARGED
19.001	132	1	117.768	0.765	0.000	0.71	0.0	30.2	SURCHARGED
19.002	133	1	117.758	0.846	0.000	0.30	0.0	35.4	SURCHARGED
17.004	122	1	117.745	1.172	0.000	0.47	0.0	94.8	SURCHARGED
17.005	123	1	117.642	1.196	0.000	0.52	0.0	103.1	SURCHARGED
20.000	139	6	117.903	-0.157	0.000	0.20	0.0	16.1	OK
20.001	140	1	117.556	0.310	0.000	0.44	0.0	36.2	SURCHARGED
17.006	124	1	117.521	1.201	0.000	0.38	0.0	136.9	SURCHARGED
17.007	125	1	117.364	1.463	0.000	0.26	0.0	135.2	SURCHARGED
17.008	126	3	117.184	1.560	0.000	0.10	0.0	124.2	SURCHARGED
17.009	127	3	117.143	2.112	0.000	0.12	0.0	103.7	SURCHARGED
17.010	128	4	117.017	2.305	0.000	0.08	0.0	90.3	SURCHARGED
1.019	19a	4	117.015	2.550	0.000	0.51	0.0	707.7	SURCHARGED
21.000	98	4	116.985	-0.215	0.000	0.03	0.0	106.7	OK
1.020	20	4	117.005	3.451	0.000	2.02	0.0	169.3	SURCHARGED
1.021	21	4	116.655	3.246	0.000	1.85	0.0	156.9	SURCHARGED
1.022	22	3	116.216	2.995	0.000	1.92	0.0	156.5	SURCHARGED
22.000	79	6	122.665	-0.194	0.000	0.27	0.0	42.7	OK
22.001	80	6	121.890	-0.174	0.000	0.36	0.0	42.7	OK
22.002	81	6	121.485	-0.163	0.000	0.43	0.0	42.8	OK
22.003	82	6	121.277	-0.145	0.000	0.53	0.0	43.0	OK
22.004	83	6	121.073	-0.167	0.000	0.57	0.0	53.0	OK
22.005	84	6	121.025	-0.163	0.000	0.61	0.0	62.6	OK
22.006	85	6	120.910	-0.162	0.000	0.61	0.0	72.3	OK
22.007	86	6	120.652	-0.218	0.000	0.52	0.0	81.7	OK
22.008	87	6	120.565	-0.217	0.000	0.52	0.0	90.2	OK
22.009	88	6	120.384	-0.187	0.000	0.64	0.0	98.6	OK
22.010	89	6	120.288	-0.206	0.000	0.57	0.0	106.7	OK
22.011	90	6	119.961	-0.273	0.000	0.33	0.0	114.6	OK
22.012	91	6	119.493	-0.260	0.000	0.37	0.0	122.5	OK
22.013	92	6	119.039	-0.198	0.000	0.78	0.0	213.0	OK
22.014	93	6	118.951	-0.240	0.000	0.73	0.0	316.1	OK
22.015	94	6	118.849	-0.239	0.000	0.80	0.0	424.4	OK
22.016	95	6	118.616	-0.388	0.000	0.47	0.0	516.4	OK
22.017	96	6	118.050	-0.296	0.000	0.73	0.0	519.9	OK
22.018	97	6	117.802	-0.340	0.000	0.64	0.0	784.5	OK
22.019	98	6	117.314	-0.225	0.000	0.82	0.0	921.5	OK
22.020	99	6	117.177	-0.212	0.000	0.99	0.0	913.9	OK

M-EC		Page 62
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	6	116.647	-0.685	0.000	0.26	0.0	914.7	OK
23.000	102	2	116.147	-0.003	0.000	0.00	0.0	0.1	OK
22.022	101	2	116.147	0.772	0.000	1.75	0.0	138.4	SURCHARGED
1.023	23	3	115.990	2.858	0.000	2.91	0.0	251.5	SURCHARGED
1.024	24	3	114.246	1.320	0.000	2.95	0.0	251.4	SURCHARGED
1.025	25	3	113.054	0.265	0.000	1.18	0.0	251.4	SURCHARGED
24.000	103	6	119.361	-0.164	0.000	0.81	0.0	174.2	OK
24.001	104	6	119.193	-0.199	0.000	0.88	0.0	492.2	OK
24.002	105	6	118.944	-0.199	0.000	0.88	0.0	485.7	OK
24.003	106	6	118.400	-1.747	0.000	0.01	0.0	486.5	OK
24.004	107	6	115.743	-0.804	0.000	0.03	0.0	486.8	OK
1.026	26	5	111.928	-0.980	0.000	0.03	0.0	694.6	OK
1.027	27	5	109.453	-0.294	0.000	0.15	0.0	693.0	FLOOD RISK
1.028	28	5	106.879	-0.312	0.000	0.10	0.0	691.4	OK
1.029	29	5	98.182	-0.295	0.000	0.12	0.0	692.6	FLOOD RISK
1.030	30	5	92.622	-0.760	0.000	0.05	0.0	694.6	OK
1.031	31	5	91.148	-1.102	0.000	0.05	0.0	695.5	OK
1.032	32	20	90.725	-1.398	0.000	0.04	0.0	695.1	OK
1.033	33	19	90.305	0.032	0.000	0.92	0.0	202.0	SURCHARGED
25.000	108	22	90.484	-1.402	0.000	0.03	0.0	575.3	OK
25.001	109	24	90.332	-1.554	0.000	0.02	0.0	572.7	OK
25.002	110	23	90.174	-1.712	0.000	0.02	0.0	570.9	OK
1.034	109	19	90.174	0.308	0.000	0.37	0.0	85.9	SURCHARGED
1.035	34	19	89.985	3.335	0.000	0.77	0.0	56.0	SURCHARGED

M-EC		Page 63
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'ed Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	1	117.714	0.859	0.000	0.07	0.0	5.6	FLOOD RISK
1.001	2	1	117.713	1.004	0.000	0.13	0.0	9.5	FLOOD RISK
1.002	3	1	117.711	1.223	0.000	0.22	0.0	27.8	SURCHARGED
1.003	4	1	117.707	1.360	0.000	0.30	0.0	52.8	SURCHARGED
2.000	36	9	118.550	-0.125	0.000	0.64	0.0	59.1	OK
2.001	37	7	118.503	0.042	0.000	0.72	0.0	74.5	SURCHARGED
2.002	38	7	118.366	0.153	0.000	0.63	0.0	84.9	SURCHARGED
2.003	39	6	118.146	0.798	0.000	0.39	0.0	93.8	SURCHARGED
3.000	44	2	118.273	1.128	0.000	0.21	0.0	16.9	FLOOD RISK
3.001	45	2	118.259	1.276	0.000	0.23	0.0	24.6	FLOOD RISK
3.002	46	2	118.248	1.366	0.000	0.30	0.0	53.6	SURCHARGED
4.000	50	2	118.174	0.888	0.000	0.16	0.0	16.1	SURCHARGED
3.003	47	2	118.163	1.403	0.000	0.23	0.0	71.2	SURCHARGED
3.004	48	2	118.050	1.497	0.000	0.35	0.0	85.7	SURCHARGED
3.005	49	1	118.020	1.555	0.000	0.35	0.0	78.9	SURCHARGED
2.004	40	1	118.019	1.576	0.000	0.47	0.0	163.2	SURCHARGED
2.005	41	1	118.013	1.660	0.000	0.40	0.0	167.8	SURCHARGED
5.000	51	1	117.974	1.087	0.000	0.07	0.0	7.9	SURCHARGED
2.006	42	1	117.972	1.793	0.000	0.41	0.0	169.6	SURCHARGED
2.007	43	1	117.834	1.827	0.000	0.44	0.0	174.4	SURCHARGED
1.004	5	1	117.697	1.849	0.000	0.61	0.0	213.2	SURCHARGED
1.005	6	1	117.640	1.853	0.000	0.38	0.0	233.4	SURCHARGED

M-EC		Page 64
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	1	117.645	0.715	0.000	0.28	0.0	12.4	SURCHARGED
6.001	53	1	117.645	0.952	0.000	0.30	0.0	11.2	SURCHARGED
6.002	54	1	117.643	1.018	0.000	0.24	0.0	17.8	SURCHARGED
6.003	55	1	117.639	1.324	0.000	0.40	0.0	24.4	SURCHARGED
6.004	56	1	117.638	1.382	0.000	0.27	0.0	34.5	SURCHARGED
6.005	57	1	117.634	1.651	0.000	0.13	0.0	29.3	SURCHARGED
1.006	7	1	117.631	2.001	0.000	0.32	0.0	270.6	SURCHARGED
7.000	58	9	118.106	-0.154	0.000	0.22	0.0	8.4	OK
7.001	59	9	117.930	-0.165	0.000	0.16	0.0	19.0	OK
1.007	8	1	117.449	2.108	0.000	0.38	0.0	285.7	SURCHARGED
8.000	60	1	117.361	0.505	0.000	0.27	0.0	10.6	SURCHARGED
8.001	61	1	117.376	0.692	0.000	0.10	0.0	10.8	SURCHARGED
8.002	35	1	117.382	0.954	0.000	0.05	0.0	12.6	SURCHARGED
1.008	10	1	117.400	2.321	0.000	0.88	0.0	291.5	SURCHARGED
9.000	62	9	119.385	-0.167	0.000	0.15	0.0	7.4	OK
9.001	63	9	118.999	-0.193	0.000	0.28	0.0	28.5	OK
9.002	64	9	118.585	-0.221	0.000	0.16	0.0	39.1	OK
9.003	148	1	117.384	1.905	0.000	0.23	0.0	37.3	SURCHARGED
1.009	11	1	117.396	2.336	0.000	0.44	0.0	324.2	SURCHARGED
1.010	12	1	117.391	2.415	0.000	0.88	0.0	328.0	SURCHARGED
1.011	13	1	117.384	2.430	0.000	0.76	0.0	330.1	SURCHARGED
1.012	14	1	117.380	2.459	0.000	0.37	0.0	350.2	SURCHARGED
1.013	15	1	117.357	2.487	0.000	0.77	0.0	350.2	SURCHARGED
1.014	16	1	117.354	2.507	0.000	0.38	0.0	349.9	SURCHARGED
10.000	65	2	117.446	0.077	0.000	0.32	0.0	20.9	SURCHARGED
11.000	136	9	118.064	-0.150	0.000	0.24	0.0	14.6	OK
11.001	137	9	117.763	-0.144	0.000	0.28	0.0	15.8	OK
11.002	138	9	117.508	-0.212	0.000	0.19	0.0	24.6	OK
10.001	66	2	117.428	0.228	0.000	0.25	0.0	54.8	SURCHARGED
10.002	67	2	117.402	0.692	0.000	0.26	0.0	58.2	SURCHARGED
12.000	9	1	117.369	0.085	0.000	0.01	0.0	1.8	SURCHARGED
12.001	75	1	117.368	0.702	0.000	0.14	0.0	11.0	SURCHARGED
12.002	76	1	117.363	0.874	0.000	0.06	0.0	20.5	SURCHARGED
10.003	68	1	117.361	1.042	0.000	0.33	0.0	80.8	SURCHARGED
10.004	69	1	117.355	1.165	0.000	0.28	0.0	89.7	SURCHARGED
10.005	70	1	117.356	1.255	0.000	0.17	0.0	79.8	SURCHARGED
10.006	71	1	117.359	1.311	0.000	0.18	0.0	90.3	SURCHARGED
13.000	147	1	117.350	0.221	0.000	0.06	0.0	4.3	SURCHARGED
13.001	112	1	117.347	0.674	0.000	0.10	0.0	9.6	SURCHARGED
13.002	113	1	117.344	0.854	0.000	0.07	0.0	11.8	SURCHARGED
14.000	114	1	117.353	-0.148	0.000	0.05	0.0	2.7	OK
14.001	115	1	117.351	0.112	0.000	0.09	0.0	5.5	SURCHARGED
14.002	116	1	117.348	0.569	0.000	0.15	0.0	10.4	SURCHARGED
13.003	77	1	117.342	0.939	0.000	0.14	0.0	23.0	SURCHARGED
15.000	134	1	117.347	-0.085	0.000	0.10	0.0	10.3	OK
13.004	135	1	117.342	1.030	0.000	0.16	0.0	38.5	SURCHARGED
13.005	78	1	117.348	1.254	0.000	0.14	0.0	37.3	SURCHARGED
10.007	72	1	117.355	1.379	0.000	0.08	0.0	130.4	SURCHARGED
10.008	73	1	117.361	2.104	0.000	0.06	0.0	125.8	SURCHARGED
10.009	74	1	117.350	2.314	0.000	0.07	0.0	129.8	SURCHARGED

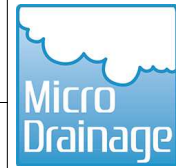
M-EC		Page 65
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	1	117.349	2.479	0.000	0.33	0.0	470.6	SURCHARGED
1.016	18	1	117.347	2.580	0.000	0.27	0.0	470.2	SURCHARGED
16.000	142	9	118.201	-0.098	0.000	0.26	0.0	11.6	OK
16.001	143	1	117.302	1.703	0.000	0.31	0.0	36.7	SURCHARGED
1.017	18a	1	117.299	2.675	0.000	0.32	0.0	521.3	SURCHARGED
1.018	19	1	117.194	2.676	0.000	0.42	0.0	520.5	SURCHARGED
17.000	118	2	117.671	0.288	0.000	0.02	0.0	0.9	SURCHARGED
17.001	119	2	117.671	0.451	0.000	0.10	0.0	4.8	SURCHARGED
17.002	120	2	117.667	0.595	0.000	0.30	0.0	14.9	SURCHARGED
18.000	129	2	117.664	0.007	0.000	0.10	0.0	7.3	SURCHARGED
18.001	130	2	117.657	0.423	0.000	0.13	0.0	9.8	SURCHARGED
17.003	121	2	117.646	0.970	0.000	0.37	0.0	29.5	SURCHARGED
19.000	131	2	117.680	0.139	0.000	0.24	0.0	14.2	SURCHARGED
19.001	132	2	117.659	0.656	0.000	0.43	0.0	18.4	SURCHARGED
19.002	133	2	117.650	0.738	0.000	0.18	0.0	21.3	SURCHARGED
17.004	122	2	117.638	1.065	0.000	0.26	0.0	51.5	SURCHARGED
17.005	123	2	117.545	1.099	0.000	0.29	0.0	58.2	SURCHARGED
20.000	139	9	117.887	-0.173	0.000	0.12	0.0	9.9	OK
20.001	140	2	117.457	0.211	0.000	0.27	0.0	22.2	SURCHARGED
17.006	124	2	117.427	1.108	0.000	0.22	0.0	80.8	SURCHARGED
17.007	125	2	117.302	1.400	0.000	0.13	0.0	68.8	SURCHARGED
17.008	126	1	117.274	1.650	0.000	0.06	0.0	71.2	SURCHARGED
17.009	127	1	117.236	2.205	0.000	0.07	0.0	59.0	SURCHARGED
17.010	128	1	117.213	2.501	0.000	0.06	0.0	61.9	SURCHARGED
1.019	19a	1	117.190	2.725	0.000	0.43	0.0	602.1	SURCHARGED
21.000	98	1	117.089	-0.111	0.000	0.03	0.0	112.3	OK
1.020	20	2	117.128	3.574	0.000	1.89	0.0	158.8	SURCHARGED
1.021	21	1	116.729	3.320	0.000	1.87	0.0	159.1	SURCHARGED
1.022	22	1	116.262	3.041	0.000	1.95	0.0	158.6	SURCHARGED
22.000	79	9	122.641	-0.218	0.000	0.17	0.0	26.4	OK
22.001	80	9	121.860	-0.204	0.000	0.23	0.0	26.4	OK
22.002	81	9	121.452	-0.196	0.000	0.26	0.0	26.3	OK
22.003	82	9	121.239	-0.183	0.000	0.32	0.0	26.3	OK
22.004	83	8	121.021	-0.219	0.000	0.35	0.0	32.6	OK
22.005	84	8	120.972	-0.215	0.000	0.38	0.0	38.8	OK
22.006	85	8	120.857	-0.215	0.000	0.38	0.0	44.9	OK
22.007	86	8	120.598	-0.272	0.000	0.33	0.0	51.0	OK
22.008	87	8	120.512	-0.271	0.000	0.33	0.0	57.1	OK
22.009	88	8	120.322	-0.249	0.000	0.41	0.0	63.2	OK
22.010	89	8	120.233	-0.261	0.000	0.37	0.0	69.3	OK
22.011	90	8	119.925	-0.309	0.000	0.22	0.0	75.2	OK
22.012	91	8	119.454	-0.299	0.000	0.24	0.0	81.2	OK
22.013	92	8	118.944	-0.293	0.000	0.51	0.0	139.8	OK
22.014	93	8	118.847	-0.343	0.000	0.48	0.0	205.2	OK
22.015	94	8	118.724	-0.363	0.000	0.52	0.0	273.9	OK
22.016	95	8	118.538	-0.466	0.000	0.30	0.0	332.3	OK
22.017	96	8	117.926	-0.420	0.000	0.48	0.0	340.5	OK
22.018	97	8	117.692	-0.450	0.000	0.42	0.0	513.6	OK
22.019	98	8	117.105	-0.434	0.000	0.55	0.0	612.0	OK
22.020	99	8	116.964	-0.425	0.000	0.66	0.0	610.2	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	8	116.577	-0.755	0.000	0.18	0.0	609.8	OK
23.000	102	1	116.173	0.023	0.000	0.00	0.0	0.1	SURCHARGED
22.022	101	1	116.173	0.798	0.000	1.71	0.0	134.9	SURCHARGED
1.023	23	1	116.022	2.890	0.000	2.92	0.0	252.4	SURCHARGED
1.024	24	1	114.264	1.338	0.000	2.96	0.0	252.4	SURCHARGED
1.025	25	1	113.062	0.273	0.000	1.19	0.0	252.4	SURCHARGED
24.000	103	9	119.262	-0.263	0.000	0.50	0.0	107.4	OK
24.001	104	8	119.042	-0.350	0.000	0.55	0.0	308.4	OK
24.002	105	8	118.797	-0.346	0.000	0.56	0.0	308.9	OK
24.003	106	8	118.366	-1.781	0.000	0.00	0.0	309.0	OK
24.004	107	8	115.701	-0.846	0.000	0.02	0.0	309.2	OK
1.026	26	8	111.901	-1.007	0.000	0.02	0.0	545.0	OK
1.027	27	8	109.431	-0.316	0.000	0.12	0.0	544.5	OK
1.028	28	8	106.859	-0.332	0.000	0.08	0.0	543.7	OK
1.029	29	8	98.161	-0.316	0.000	0.09	0.0	542.6	OK
1.030	30	8	92.598	-0.784	0.000	0.04	0.0	541.3	OK
1.031	31	8	91.118	-1.132	0.000	0.04	0.0	542.8	OK
1.032	32	23	90.699	-1.424	0.000	0.03	0.0	543.8	OK
1.033	33	17	90.559	0.286	0.000	0.94	0.0	206.8	SURCHARGED
25.000	108	24	90.438	-1.448	0.000	0.02	0.0	355.3	OK
25.001	109	18	90.438	-1.448	0.000	0.01	0.0	353.9	OK
25.002	110	17	90.438	-1.448	0.000	0.01	0.0	352.5	OK
1.034	109	17	90.440	0.574	0.000	0.31	0.0	71.0	SURCHARGED
1.035	34	17	90.238	3.588	0.000	0.80	0.0	57.9	SURCHARGED

M-EC		Page 67
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

Summary Wizard of 180 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

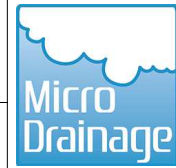
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	3	117.627	0.772	0.000	0.06	0.0	4.5	FLOOD RISK
1.001	2	3	117.626	0.917	0.000	0.10	0.0	7.3	SURCHARGED
1.002	3	3	117.624	1.136	0.000	0.17	0.0	20.6	SURCHARGED
1.003	4	3	117.621	1.274	0.000	0.21	0.0	38.0	SURCHARGED
2.000	36	11	118.521	-0.154	0.000	0.48	0.0	44.1	OK
2.001	37	11	118.318	-0.143	0.000	0.54	0.0	55.6	OK
2.002	38	10	118.073	-0.140	0.000	0.47	0.0	64.2	OK
2.003	39	9	117.987	0.639	0.000	0.29	0.0	70.0	SURCHARGED
3.000	44	5	118.122	0.977	0.000	0.17	0.0	13.6	FLOOD RISK
3.001	45	4	118.113	1.130	0.000	0.18	0.0	18.9	FLOOD RISK
3.002	46	4	118.105	1.223	0.000	0.23	0.0	40.9	SURCHARGED
4.000	50	4	118.059	0.773	0.000	0.11	0.0	11.6	SURCHARGED
3.003	47	4	118.055	1.295	0.000	0.17	0.0	53.3	SURCHARGED
3.004	48	4	117.999	1.446	0.000	0.26	0.0	65.2	SURCHARGED
3.005	49	3	117.977	1.512	0.000	0.29	0.0	65.6	SURCHARGED
2.004	40	3	117.976	1.533	0.000	0.37	0.0	127.2	SURCHARGED
2.005	41	2	117.969	1.616	0.000	0.33	0.0	138.4	SURCHARGED
5.000	51	2	117.887	1.000	0.000	0.05	0.0	6.0	SURCHARGED
2.006	42	2	117.886	1.707	0.000	0.36	0.0	147.7	SURCHARGED
2.007	43	2	117.749	1.742	0.000	0.38	0.0	152.9	SURCHARGED
1.004	5	2	117.612	1.764	0.000	0.55	0.0	190.0	SURCHARGED
1.005	6	2	117.597	1.810	0.000	0.34	0.0	208.1	SURCHARGED

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 180 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	2	117.609	0.679	0.000	0.20	0.0	9.0	SURCHARGED
6.001	53	2	117.603	0.910	0.000	0.24	0.0	9.0	SURCHARGED
6.002	54	2	117.602	0.977	0.000	0.18	0.0	13.7	SURCHARGED
6.003	55	2	117.597	1.282	0.000	0.29	0.0	17.5	SURCHARGED
6.004	56	2	117.595	1.339	0.000	0.20	0.0	25.1	SURCHARGED
6.005	57	2	117.588	1.605	0.000	0.10	0.0	22.9	SURCHARGED
1.006	7	2	117.586	1.956	0.000	0.29	0.0	239.7	SURCHARGED
7.000	58	11	118.095	-0.165	0.000	0.16	0.0	6.3	OK
7.001	59	11	117.922	-0.173	0.000	0.12	0.0	14.2	OK
1.007	8	2	117.376	2.035	0.000	0.34	0.0	252.4	SURCHARGED
8.000	60	2	117.255	0.399	0.000	0.20	0.0	7.9	SURCHARGED
8.001	61	2	117.328	0.644	0.000	0.08	0.0	8.3	SURCHARGED
8.002	35	2	117.335	0.907	0.000	0.04	0.0	9.6	SURCHARGED
1.008	10	2	117.340	2.261	0.000	0.77	0.0	257.1	SURCHARGED
9.000	62	11	119.377	-0.175	0.000	0.11	0.0	5.5	OK
9.001	63	11	118.984	-0.208	0.000	0.21	0.0	21.3	OK
9.002	64	11	118.574	-0.232	0.000	0.12	0.0	29.1	OK
9.003	148	2	117.342	1.863	0.000	0.17	0.0	27.7	SURCHARGED
1.009	11	2	117.332	2.272	0.000	0.39	0.0	283.4	SURCHARGED
1.010	12	2	117.324	2.348	0.000	0.76	0.0	285.7	SURCHARGED
1.011	13	2	117.317	2.363	0.000	0.66	0.0	285.3	SURCHARGED
1.012	14	2	117.306	2.385	0.000	0.32	0.0	303.6	SURCHARGED
1.013	15	2	117.278	2.408	0.000	0.66	0.0	303.5	SURCHARGED
1.014	16	2	117.272	2.425	0.000	0.33	0.0	303.2	SURCHARGED
10.000	65	5	117.310	-0.059	0.000	0.24	0.0	15.6	OK
11.000	136	11	118.054	-0.160	0.000	0.18	0.0	10.9	OK
11.001	137	11	117.752	-0.155	0.000	0.21	0.0	11.8	OK
11.002	138	11	117.494	-0.225	0.000	0.14	0.0	18.3	OK
10.001	66	4	117.304	0.104	0.000	0.19	0.0	42.2	SURCHARGED
10.002	67	3	117.302	0.592	0.000	0.19	0.0	43.9	SURCHARGED
12.000	9	3	117.289	0.005	0.000	0.01	0.0	1.3	SURCHARGED
12.001	75	3	117.280	0.614	0.000	0.11	0.0	8.5	SURCHARGED
12.002	76	3	117.292	0.803	0.000	0.05	0.0	15.3	SURCHARGED
10.003	68	3	117.302	0.983	0.000	0.25	0.0	61.3	SURCHARGED
10.004	69	3	117.312	1.121	0.000	0.22	0.0	68.6	SURCHARGED
10.005	70	2	117.309	1.208	0.000	0.13	0.0	62.7	SURCHARGED
10.006	71	2	117.307	1.260	0.000	0.14	0.0	71.9	SURCHARGED
13.000	147	3	117.266	0.137	0.000	0.04	0.0	3.2	SURCHARGED
13.001	112	3	117.263	0.590	0.000	0.07	0.0	7.0	SURCHARGED
13.002	113	3	117.269	0.779	0.000	0.05	0.0	8.9	SURCHARGED
14.000	114	11	117.303	-0.198	0.000	0.03	0.0	2.0	OK
14.001	115	3	117.269	0.030	0.000	0.06	0.0	4.1	SURCHARGED
14.002	116	3	117.264	0.486	0.000	0.11	0.0	7.8	SURCHARGED
13.003	77	3	117.281	0.879	0.000	0.10	0.0	17.6	SURCHARGED
15.000	134	8	117.262	-0.170	0.000	0.07	0.0	7.6	OK
13.004	135	3	117.293	0.982	0.000	0.12	0.0	29.1	SURCHARGED
13.005	78	3	117.289	1.194	0.000	0.12	0.0	30.7	SURCHARGED
10.007	72	3	117.282	1.306	0.000	0.06	0.0	102.8	SURCHARGED
10.008	73	2	117.277	2.021	0.000	0.05	0.0	107.6	SURCHARGED
10.009	74	2	117.270	2.233	0.000	0.06	0.0	111.2	SURCHARGED

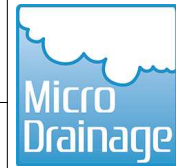
M-EC		Page 69
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 180 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	2	117.265	2.395	0.000	0.28	0.0	403.2	SURCHARGED
1.016	18	2	117.257	2.490	0.000	0.23	0.0	403.6	SURCHARGED
16.000	142	11	118.194	-0.105	0.000	0.19	0.0	8.7	OK
16.001	143	2	117.226	1.627	0.000	0.23	0.0	27.1	SURCHARGED
1.017	18a	2	117.244	2.620	0.000	0.28	0.0	447.3	SURCHARGED
1.018	19	2	117.166	2.648	0.000	0.36	0.0	446.8	SURCHARGED
17.000	118	4	117.377	-0.006	0.000	0.01	0.0	0.7	OK
17.001	119	4	117.376	0.156	0.000	0.08	0.0	3.6	SURCHARGED
17.002	120	4	117.373	0.301	0.000	0.23	0.0	11.3	SURCHARGED
18.000	129	11	117.473	-0.184	0.000	0.08	0.0	5.4	OK
18.001	130	4	117.364	0.130	0.000	0.10	0.0	7.5	SURCHARGED
17.003	121	4	117.354	0.678	0.000	0.29	0.0	23.3	SURCHARGED
19.000	131	10	117.383	-0.158	0.000	0.18	0.0	10.6	OK
19.001	132	4	117.366	0.363	0.000	0.33	0.0	14.0	SURCHARGED
19.002	133	4	117.358	0.445	0.000	0.14	0.0	16.1	SURCHARGED
17.004	122	4	117.347	0.774	0.000	0.20	0.0	40.9	SURCHARGED
17.005	123	3	117.337	0.891	0.000	0.22	0.0	44.4	SURCHARGED
20.000	139	11	117.880	-0.180	0.000	0.09	0.0	7.4	OK
20.001	140	3	117.264	0.018	0.000	0.20	0.0	16.5	SURCHARGED
17.006	124	3	117.237	0.918	0.000	0.17	0.0	60.8	SURCHARGED
17.007	125	3	117.216	1.314	0.000	0.10	0.0	53.0	SURCHARGED
17.008	126	2	117.209	1.586	0.000	0.04	0.0	53.4	SURCHARGED
17.009	127	2	117.179	2.148	0.000	0.06	0.0	50.6	SURCHARGED
17.010	128	2	117.165	2.453	0.000	0.05	0.0	54.2	SURCHARGED
1.019	19a	2	117.152	2.687	0.000	0.37	0.0	518.9	SURCHARGED
21.000	98	2	117.072	-0.128	0.000	0.03	0.0	113.0	OK
1.020	20	1	117.134	3.580	0.000	1.89	0.0	158.9	SURCHARGED
1.021	21	2	116.704	3.295	0.000	1.86	0.0	158.3	SURCHARGED
1.022	22	2	116.235	3.014	0.000	1.94	0.0	158.4	SURCHARGED
22.000	79	11	122.629	-0.230	0.000	0.12	0.0	19.7	OK
22.001	80	11	121.846	-0.218	0.000	0.17	0.0	19.7	OK
22.002	81	11	121.438	-0.210	0.000	0.20	0.0	19.6	OK
22.003	82	11	121.222	-0.200	0.000	0.24	0.0	19.6	OK
22.004	83	11	120.997	-0.243	0.000	0.26	0.0	24.3	OK
22.005	84	11	120.948	-0.240	0.000	0.28	0.0	29.0	OK
22.006	85	11	120.833	-0.239	0.000	0.28	0.0	33.7	OK
22.007	86	11	120.571	-0.299	0.000	0.24	0.0	38.4	OK
22.008	87	11	120.484	-0.298	0.000	0.25	0.0	42.9	OK
22.009	88	11	120.292	-0.279	0.000	0.31	0.0	47.5	OK
22.010	89	11	120.204	-0.289	0.000	0.28	0.0	52.0	OK
22.011	90	11	119.904	-0.329	0.000	0.16	0.0	56.6	OK
22.012	91	11	119.434	-0.320	0.000	0.18	0.0	61.1	OK
22.013	92	11	118.896	-0.341	0.000	0.39	0.0	105.8	OK
22.014	93	11	118.796	-0.395	0.000	0.36	0.0	155.6	OK
22.015	94	11	118.663	-0.425	0.000	0.39	0.0	207.6	OK
22.016	95	11	118.496	-0.508	0.000	0.23	0.0	252.0	OK
22.017	96	11	117.863	-0.483	0.000	0.36	0.0	255.9	OK
22.018	97	11	117.636	-0.506	0.000	0.32	0.0	387.1	OK
22.019	98	11	117.007	-0.532	0.000	0.41	0.0	461.2	OK
22.020	99	11	116.864	-0.525	0.000	0.50	0.0	461.6	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
File storm.mdx


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Summary Wizard of 180 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	11	116.535	-0.797	0.000	0.13	0.0	461.4	OK
23.000	102	3	116.139	-0.011	0.000	0.00	0.0	0.1	OK
22.022	101	3	116.139	0.764	0.000	1.78	0.0	141.0	SURCHARGED
1.023	23	2	115.994	2.862	0.000	2.91	0.0	251.6	SURCHARGED
1.024	24	2	114.249	1.323	0.000	2.95	0.0	251.5	SURCHARGED
1.025	25	2	113.055	0.266	0.000	1.18	0.0	251.5	SURCHARGED
24.000	103	11	119.221	-0.304	0.000	0.37	0.0	80.1	OK
24.001	104	11	118.978	-0.414	0.000	0.41	0.0	231.8	OK
24.002	105	11	118.731	-0.412	0.000	0.42	0.0	230.8	OK
24.003	106	11	118.348	-1.799	0.000	0.00	0.0	231.0	OK
24.004	107	11	115.683	-0.864	0.000	0.01	0.0	231.2	OK
1.026	26	11	111.887	-1.021	0.000	0.02	0.0	467.1	OK
1.027	27	11	109.419	-0.328	0.000	0.10	0.0	467.0	OK
1.028	28	11	106.849	-0.342	0.000	0.06	0.0	466.8	OK
1.029	29	11	98.149	-0.328	0.000	0.08	0.0	466.6	OK
1.030	30	11	92.585	-0.797	0.000	0.03	0.0	466.9	OK
1.031	31	13	91.096	-1.154	0.000	0.03	0.0	467.2	OK
1.032	32	15	90.769	-1.354	0.000	0.03	0.0	467.3	OK
1.033	33	15	90.754	0.481	0.000	0.95	0.0	208.4	SURCHARGED
25.000	108	15	90.638	-1.248	0.000	0.01	0.0	265.2	OK
25.001	109	15	90.638	-1.248	0.000	0.01	0.0	264.1	OK
25.002	110	15	90.638	-1.248	0.000	0.01	0.0	263.0	OK
1.034	109	15	90.642	0.776	0.000	0.28	0.0	64.1	SURCHARGED
1.035	34	15	90.430	3.780	0.000	0.82	0.0	59.4	SURCHARGED

M-EC		Page 71
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	5	117.494	0.639	0.000	0.04	0.0	3.6	SURCHARGED
1.001	2	5	117.494	0.785	0.000	0.08	0.0	5.9	SURCHARGED
1.002	3	5	117.493	1.005	0.000	0.13	0.0	16.1	SURCHARGED
1.003	4	5	117.489	1.142	0.000	0.18	0.0	31.1	SURCHARGED
2.000	36	12	118.504	-0.171	0.000	0.38	0.0	35.4	OK
2.001	37	12	118.298	-0.163	0.000	0.43	0.0	44.7	OK
2.002	38	12	118.041	-0.172	0.000	0.38	0.0	51.7	OK
2.003	39	10	117.897	0.549	0.000	0.24	0.0	56.0	SURCHARGED
3.000	44	9	117.998	0.853	0.000	0.14	0.0	11.0	SURCHARGED
3.001	45	9	117.988	1.005	0.000	0.14	0.0	15.4	SURCHARGED
3.002	46	9	117.980	1.098	0.000	0.19	0.0	33.4	SURCHARGED
4.000	50	8	117.935	0.649	0.000	0.09	0.0	9.4	SURCHARGED
3.003	47	8	117.933	1.173	0.000	0.13	0.0	41.8	SURCHARGED
3.004	48	5	117.909	1.356	0.000	0.22	0.0	53.8	SURCHARGED
3.005	49	7	117.887	1.422	0.000	0.24	0.0	53.3	SURCHARGED
2.004	40	8	117.885	1.442	0.000	0.31	0.0	108.2	SURCHARGED
2.005	41	6	117.878	1.525	0.000	0.28	0.0	117.5	SURCHARGED
5.000	51	5	117.752	0.865	0.000	0.04	0.0	4.9	SURCHARGED
2.006	42	5	117.751	1.572	0.000	0.30	0.0	125.6	SURCHARGED
2.007	43	6	117.618	1.611	0.000	0.33	0.0	130.2	SURCHARGED
1.004	5	5	117.482	1.634	0.000	0.46	0.0	159.9	SURCHARGED
1.005	6	5	117.470	1.683	0.000	0.28	0.0	175.7	SURCHARGED

M-EC		Page 72
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	5	117.485	0.555	0.000	0.16	0.0	7.3	SURCHARGED
6.001	53	5	117.481	0.788	0.000	0.19	0.0	7.0	SURCHARGED
6.002	54	5	117.479	0.854	0.000	0.15	0.0	11.2	SURCHARGED
6.003	55	5	117.472	1.157	0.000	0.24	0.0	14.4	SURCHARGED
6.004	56	5	117.470	1.214	0.000	0.16	0.0	20.7	SURCHARGED
6.005	57	5	117.465	1.482	0.000	0.08	0.0	19.2	SURCHARGED
1.006	7	5	117.463	1.833	0.000	0.24	0.0	202.6	SURCHARGED
7.000	58	12	118.089	-0.171	0.000	0.13	0.0	5.1	OK
7.001	59	12	117.917	-0.178	0.000	0.10	0.0	11.4	OK
1.007	8	5	117.282	1.941	0.000	0.29	0.0	213.4	SURCHARGED
8.000	60	5	117.127	0.271	0.000	0.16	0.0	6.3	SURCHARGED
8.001	61	5	117.137	0.453	0.000	0.06	0.0	6.7	SURCHARGED
8.002	35	5	117.133	0.705	0.000	0.03	0.0	7.8	SURCHARGED
1.008	10	4	117.141	2.062	0.000	0.66	0.0	217.7	SURCHARGED
9.000	62	12	119.372	-0.180	0.000	0.09	0.0	4.4	OK
9.001	63	12	118.973	-0.219	0.000	0.17	0.0	17.1	OK
9.002	64	12	118.568	-0.238	0.000	0.09	0.0	23.4	OK
9.003	148	5	117.136	1.657	0.000	0.14	0.0	22.4	SURCHARGED
1.009	11	4	117.137	2.077	0.000	0.33	0.0	240.2	SURCHARGED
1.010	12	3	117.133	2.157	0.000	0.65	0.0	242.8	SURCHARGED
1.011	13	3	117.128	2.174	0.000	0.56	0.0	242.8	SURCHARGED
1.012	14	3	117.124	2.203	0.000	0.27	0.0	259.0	SURCHARGED
1.013	15	3	117.117	2.247	0.000	0.56	0.0	257.6	SURCHARGED
1.014	16	3	117.114	2.267	0.000	0.28	0.0	257.7	SURCHARGED
10.000	65	10	117.211	-0.158	0.000	0.19	0.0	12.5	OK
11.000	136	12	118.046	-0.168	0.000	0.15	0.0	8.7	OK
11.001	137	12	117.744	-0.163	0.000	0.17	0.0	9.5	OK
11.002	138	12	117.486	-0.233	0.000	0.11	0.0	14.7	OK
10.001	66	7	117.202	0.002	0.000	0.15	0.0	33.9	SURCHARGED
10.002	67	7	117.190	0.481	0.000	0.16	0.0	35.7	SURCHARGED
12.000	9	5	117.184	-0.100	0.000	0.01	0.0	1.1	OK
12.001	75	5	117.184	0.518	0.000	0.09	0.0	6.9	SURCHARGED
12.002	76	5	117.180	0.691	0.000	0.04	0.0	12.2	SURCHARGED
10.003	68	5	117.178	0.859	0.000	0.20	0.0	48.5	SURCHARGED
10.004	69	5	117.145	0.954	0.000	0.18	0.0	55.9	SURCHARGED
10.005	70	5	117.137	1.036	0.000	0.11	0.0	53.3	SURCHARGED
10.006	71	5	117.133	1.086	0.000	0.12	0.0	61.1	SURCHARGED
13.000	147	5	117.150	0.021	0.000	0.04	0.0	2.6	SURCHARGED
13.001	112	5	117.147	0.474	0.000	0.06	0.0	5.7	SURCHARGED
13.002	113	5	117.144	0.654	0.000	0.04	0.0	7.3	SURCHARGED
14.000	114	12	117.301	-0.200	0.000	0.03	0.0	1.6	OK
14.001	115	5	117.153	-0.086	0.000	0.05	0.0	3.3	OK
14.002	116	5	117.149	0.370	0.000	0.09	0.0	6.3	SURCHARGED
13.003	77	5	117.142	0.740	0.000	0.08	0.0	14.2	SURCHARGED
15.000	134	12	117.242	-0.190	0.000	0.06	0.0	6.1	OK
13.004	135	5	117.139	0.827	0.000	0.10	0.0	22.6	SURCHARGED
13.005	78	5	117.133	1.038	0.000	0.09	0.0	24.6	SURCHARGED
10.007	72	5	117.129	1.153	0.000	0.05	0.0	86.7	SURCHARGED
10.008	73	3	117.113	1.857	0.000	0.05	0.0	90.6	SURCHARGED
10.009	74	3	117.109	2.072	0.000	0.05	0.0	93.1	SURCHARGED

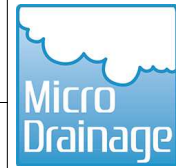
M-EC		Page 73
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	3	117.108	2.238	0.000	0.24	0.0	345.1	SURCHARGED
1.016	18	3	117.104	2.337	0.000	0.20	0.0	345.4	SURCHARGED
16.000	142	12	118.188	-0.111	0.000	0.15	0.0	7.0	OK
16.001	143	3	117.095	1.495	0.000	0.18	0.0	22.0	SURCHARGED
1.017	18a	3	117.095	2.471	0.000	0.24	0.0	383.6	SURCHARGED
1.018	19	3	117.082	2.564	0.000	0.31	0.0	383.4	SURCHARGED
17.000	118	12	117.168	-0.215	0.000	0.01	0.0	0.4	OK
17.001	119	11	117.088	-0.132	0.000	0.06	0.0	2.9	OK
17.002	120	11	117.087	0.015	0.000	0.18	0.0	9.1	SURCHARGED
18.000	129	12	117.468	-0.189	0.000	0.06	0.0	4.4	OK
18.001	130	12	117.080	-0.154	0.000	0.08	0.0	6.0	OK
17.003	121	8	117.092	0.416	0.000	0.24	0.0	19.1	SURCHARGED
19.000	131	12	117.373	-0.168	0.000	0.14	0.0	8.5	OK
19.001	132	10	117.082	0.079	0.000	0.27	0.0	11.3	SURCHARGED
19.002	133	8	117.098	0.185	0.000	0.11	0.0	13.1	SURCHARGED
17.004	122	8	117.091	0.519	0.000	0.16	0.0	33.0	SURCHARGED
17.005	123	8	117.090	0.644	0.000	0.18	0.0	36.5	SURCHARGED
20.000	139	12	117.875	-0.185	0.000	0.07	0.0	5.9	OK
20.001	140	12	117.081	-0.165	0.000	0.16	0.0	13.3	OK
17.006	124	8	117.090	0.770	0.000	0.13	0.0	48.2	SURCHARGED
17.007	125	5	117.088	1.186	0.000	0.08	0.0	44.3	SURCHARGED
17.008	126	4	117.087	1.463	0.000	0.04	0.0	45.2	SURCHARGED
17.009	127	4	117.081	2.050	0.000	0.05	0.0	46.6	SURCHARGED
17.010	128	3	117.079	2.367	0.000	0.04	0.0	49.8	SURCHARGED
1.019	19a	3	117.076	2.611	0.000	0.32	0.0	449.9	SURCHARGED
21.000	98	3	117.030	-0.170	0.000	0.03	0.0	111.5	OK
1.020	20	3	117.066	3.512	0.000	1.87	0.0	156.7	SURCHARGED
1.021	21	3	116.662	3.253	0.000	1.85	0.0	156.9	SURCHARGED
1.022	22	4	116.188	2.967	0.000	1.93	0.0	157.0	SURCHARGED
22.000	79	12	122.622	-0.237	0.000	0.10	0.0	15.8	OK
22.001	80	12	121.837	-0.227	0.000	0.13	0.0	15.8	OK
22.002	81	12	121.427	-0.221	0.000	0.16	0.0	15.8	OK
22.003	82	12	121.211	-0.211	0.000	0.19	0.0	15.8	OK
22.004	83	12	120.983	-0.257	0.000	0.21	0.0	19.6	OK
22.005	84	12	120.933	-0.255	0.000	0.23	0.0	23.3	OK
22.006	85	12	120.818	-0.254	0.000	0.23	0.0	27.1	OK
22.007	86	12	120.556	-0.315	0.000	0.20	0.0	30.8	OK
22.008	87	12	120.469	-0.313	0.000	0.20	0.0	34.6	OK
22.009	88	12	120.273	-0.298	0.000	0.25	0.0	38.3	OK
22.010	89	12	120.187	-0.306	0.000	0.22	0.0	42.1	OK
22.011	90	12	119.891	-0.342	0.000	0.13	0.0	45.8	OK
22.012	91	12	119.419	-0.335	0.000	0.15	0.0	49.5	OK
22.013	92	12	118.867	-0.370	0.000	0.31	0.0	85.6	OK
22.014	93	12	118.764	-0.426	0.000	0.29	0.0	125.5	OK
22.015	94	12	118.627	-0.461	0.000	0.32	0.0	167.4	OK
22.016	95	12	118.471	-0.533	0.000	0.18	0.0	203.2	OK
22.017	96	12	117.824	-0.522	0.000	0.29	0.0	207.3	OK
22.018	97	12	117.600	-0.542	0.000	0.26	0.0	313.4	OK
22.019	98	12	116.946	-0.593	0.000	0.33	0.0	374.0	OK
22.020	99	12	116.802	-0.587	0.000	0.41	0.0	373.7	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Network 2014.1

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	12	116.510	-0.822	0.000	0.11	0.0	373.6	OK
23.000	102	4	116.086	-0.064	0.000	0.00	0.0	0.0	OK
22.022	101	4	116.086	0.711	0.000	1.73	0.0	137.0	SURCHARGED
1.023	23	4	115.945	2.813	0.000	2.89	0.0	250.0	SURCHARGED
1.024	24	4	114.222	1.296	0.000	2.93	0.0	250.0	SURCHARGED
1.025	25	4	113.043	0.254	0.000	1.18	0.0	250.0	SURCHARGED
24.000	103	12	119.195	-0.330	0.000	0.30	0.0	64.4	OK
24.001	104	12	118.940	-0.452	0.000	0.33	0.0	186.3	OK
24.002	105	12	118.694	-0.449	0.000	0.34	0.0	186.4	OK
24.003	106	12	118.334	-1.813	0.000	0.00	0.0	186.4	OK
24.004	107	12	115.671	-0.876	0.000	0.01	0.0	186.4	OK
1.026	26	12	111.879	-1.029	0.000	0.02	0.0	421.8	OK
1.027	27	12	109.412	-0.335	0.000	0.09	0.0	421.8	OK
1.028	28	12	106.844	-0.347	0.000	0.06	0.0	421.9	OK
1.029	29	12	98.142	-0.335	0.000	0.07	0.0	422.0	OK
1.030	30	12	92.574	-0.808	0.000	0.03	0.0	422.3	OK
1.031	31	15	91.083	-1.167	0.000	0.03	0.0	422.4	OK
1.032	32	12	90.880	-1.243	0.000	0.02	0.0	422.4	OK
1.033	33	12	90.864	0.591	0.000	0.94	0.0	207.4	SURCHARGED
25.000	108	12	90.768	-1.118	0.000	0.01	0.0	212.9	OK
25.001	109	12	90.768	-1.118	0.000	0.01	0.0	212.5	OK
25.002	110	12	90.768	-1.118	0.000	0.01	0.0	209.7	OK
1.034	109	12	90.768	0.902	0.000	0.26	0.0	60.3	SURCHARGED
1.035	34	12	90.550	3.900	0.000	0.83	0.0	60.2	SURCHARGED

M-EC		Page 75
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

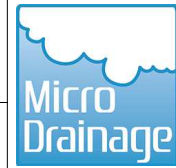
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
Analysis Timestep Fine Inertia Status ON
DTS Status OFF

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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	8	117.340	0.485	0.000	0.03	0.0	2.7	SURCHARGED
1.001	2	8	117.339	0.630	0.000	0.06	0.0	4.4	SURCHARGED
1.002	3	8	117.336	0.848	0.000	0.10	0.0	12.3	SURCHARGED
1.003	4	8	117.332	0.985	0.000	0.13	0.0	23.8	SURCHARGED
2.000	36	15	118.483	-0.192	0.000	0.28	0.0	25.8	OK
2.001	37	15	118.276	-0.185	0.000	0.32	0.0	32.6	OK
2.002	38	15	118.020	-0.193	0.000	0.28	0.0	37.7	OK
2.003	39	13	117.753	0.405	0.000	0.17	0.0	41.1	SURCHARGED
3.000	44	13	117.763	0.618	0.000	0.10	0.0	8.1	SURCHARGED
3.001	45	13	117.759	0.776	0.000	0.11	0.0	11.4	SURCHARGED
3.002	46	13	117.756	0.874	0.000	0.14	0.0	24.6	SURCHARGED
4.000	50	13	117.754	0.468	0.000	0.07	0.0	7.0	SURCHARGED
3.003	47	13	117.752	0.992	0.000	0.11	0.0	33.1	SURCHARGED
3.004	48	13	117.747	1.194	0.000	0.18	0.0	43.4	SURCHARGED
3.005	49	10	117.743	1.278	0.000	0.20	0.0	44.7	SURCHARGED
2.004	40	10	117.741	1.298	0.000	0.24	0.0	84.6	SURCHARGED
2.005	41	9	117.734	1.381	0.000	0.22	0.0	91.6	SURCHARGED
5.000	51	8	117.601	0.714	0.000	0.03	0.0	3.6	SURCHARGED
2.006	42	7	117.600	1.421	0.000	0.23	0.0	97.6	SURCHARGED
2.007	43	7	117.459	1.452	0.000	0.25	0.0	100.9	SURCHARGED
1.004	5	8	117.323	1.475	0.000	0.36	0.0	124.7	SURCHARGED
1.005	6	6	117.317	1.530	0.000	0.22	0.0	136.1	SURCHARGED

Wellington House
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Leics LE67 6HP

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Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	8	117.337	0.407	0.000	0.12	0.0	5.5	SURCHARGED
6.001	53	8	117.330	0.637	0.000	0.14	0.0	5.2	SURCHARGED
6.002	54	8	117.328	0.703	0.000	0.11	0.0	8.3	SURCHARGED
6.003	55	6	117.322	1.007	0.000	0.17	0.0	10.7	SURCHARGED
6.004	56	6	117.319	1.063	0.000	0.12	0.0	15.4	SURCHARGED
6.005	57	6	117.313	1.330	0.000	0.06	0.0	14.3	SURCHARGED
1.006	7	6	117.310	1.680	0.000	0.19	0.0	156.3	SURCHARGED
7.000	58	15	118.081	-0.179	0.000	0.09	0.0	3.7	OK
7.001	59	15	117.909	-0.186	0.000	0.07	0.0	8.3	OK
1.007	8	6	117.137	1.796	0.000	0.22	0.0	164.4	SURCHARGED
8.000	60	6	116.993	0.137	0.000	0.12	0.0	4.6	SURCHARGED
8.001	61	6	117.006	0.322	0.000	0.05	0.0	5.0	SURCHARGED
8.002	35	6	117.008	0.580	0.000	0.02	0.0	5.9	SURCHARGED
1.008	10	6	117.001	1.922	0.000	0.51	0.0	167.6	SURCHARGED
9.000	62	15	119.364	-0.188	0.000	0.07	0.0	3.2	OK
9.001	63	15	118.961	-0.231	0.000	0.12	0.0	12.5	OK
9.002	64	15	118.557	-0.249	0.000	0.07	0.0	17.1	OK
9.003	148	6	117.003	1.524	0.000	0.10	0.0	16.4	SURCHARGED
1.009	11	6	116.997	1.937	0.000	0.25	0.0	184.0	SURCHARGED
1.010	12	6	116.991	2.015	0.000	0.50	0.0	186.1	SURCHARGED
1.011	13	6	116.986	2.032	0.000	0.43	0.0	186.5	SURCHARGED
1.012	14	6	116.980	2.059	0.000	0.21	0.0	198.0	SURCHARGED
1.013	15	6	116.975	2.105	0.000	0.43	0.0	197.4	SURCHARGED
1.014	16	5	116.972	2.125	0.000	0.21	0.0	196.6	SURCHARGED
10.000	65	15	117.143	-0.226	0.000	0.14	0.0	9.1	OK
11.000	136	15	118.038	-0.176	0.000	0.11	0.0	6.4	OK
11.001	137	15	117.734	-0.173	0.000	0.12	0.0	6.9	OK
11.002	138	15	117.477	-0.242	0.000	0.08	0.0	10.7	OK
10.001	66	13	116.979	-0.221	0.000	0.11	0.0	24.8	OK
10.002	67	10	116.988	0.278	0.000	0.12	0.0	27.1	SURCHARGED
12.000	9	15	116.993	-0.291	0.000	0.01	0.0	0.8	OK
12.001	75	10	116.966	0.300	0.000	0.07	0.0	5.2	SURCHARGED
12.002	76	10	116.980	0.491	0.000	0.03	0.0	9.2	SURCHARGED
10.003	68	10	116.979	0.660	0.000	0.15	0.0	37.2	SURCHARGED
10.004	69	9	116.978	0.787	0.000	0.13	0.0	41.8	SURCHARGED
10.005	70	9	116.973	0.872	0.000	0.08	0.0	38.9	SURCHARGED
10.006	71	9	116.972	0.925	0.000	0.09	0.0	44.7	SURCHARGED
13.000	147	13	116.951	-0.178	0.000	0.03	0.0	1.9	OK
13.001	112	10	116.967	0.294	0.000	0.04	0.0	4.3	SURCHARGED
13.002	113	9	116.974	0.484	0.000	0.03	0.0	5.4	SURCHARGED
14.000	114	15	117.297	-0.204	0.000	0.02	0.0	1.2	OK
14.001	115	15	117.042	-0.197	0.000	0.04	0.0	2.4	OK
14.002	116	10	116.961	0.182	0.000	0.07	0.0	4.6	SURCHARGED
13.003	77	9	116.977	0.574	0.000	0.06	0.0	10.6	SURCHARGED
15.000	134	15	117.237	-0.195	0.000	0.04	0.0	4.5	OK
13.004	135	9	116.977	0.665	0.000	0.08	0.0	17.7	SURCHARGED
13.005	78	9	116.970	0.875	0.000	0.07	0.0	18.7	SURCHARGED
10.007	72	9	116.970	0.994	0.000	0.04	0.0	63.8	SURCHARGED
10.008	73	5	116.970	1.714	0.000	0.03	0.0	62.7	SURCHARGED
10.009	74	5	116.968	1.932	0.000	0.03	0.0	64.9	SURCHARGED

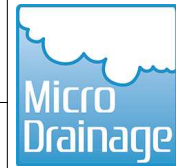
M-EC		Page 77
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	5	116.967	2.097	0.000	0.18	0.0	260.3	SURCHARGED
1.016	18	5	116.962	2.195	0.000	0.15	0.0	260.3	SURCHARGED
16.000	142	15	118.182	-0.117	0.000	0.11	0.0	5.1	OK
16.001	143	5	116.958	1.359	0.000	0.13	0.0	16.0	SURCHARGED
1.017	18a	5	116.955	2.331	0.000	0.18	0.0	288.2	SURCHARGED
1.018	19	5	116.948	2.430	0.000	0.23	0.0	288.1	SURCHARGED
17.000	118	15	117.165	-0.218	0.000	0.01	0.0	0.3	OK
17.001	119	15	117.026	-0.194	0.000	0.05	0.0	2.1	OK
17.002	120	13	116.955	-0.116	0.000	0.13	0.0	6.6	OK
18.000	129	15	117.462	-0.195	0.000	0.04	0.0	3.2	OK
18.001	130	15	117.044	-0.190	0.000	0.06	0.0	4.4	OK
17.003	121	10	116.966	0.290	0.000	0.18	0.0	14.4	SURCHARGED
19.000	131	15	117.365	-0.176	0.000	0.11	0.0	6.2	OK
19.001	132	13	116.958	-0.045	0.000	0.19	0.0	8.2	OK
19.002	133	10	116.971	0.058	0.000	0.08	0.0	9.6	SURCHARGED
17.004	122	10	116.971	0.398	0.000	0.12	0.0	24.8	SURCHARGED
17.005	123	10	116.971	0.525	0.000	0.14	0.0	27.7	SURCHARGED
20.000	139	15	117.868	-0.192	0.000	0.05	0.0	4.3	OK
20.001	140	15	117.072	-0.174	0.000	0.12	0.0	9.7	OK
17.006	124	9	116.963	0.644	0.000	0.11	0.0	38.3	SURCHARGED
17.007	125	9	116.952	1.050	0.000	0.07	0.0	37.7	SURCHARGED
17.008	126	6	116.952	1.328	0.000	0.03	0.0	39.7	SURCHARGED
17.009	127	6	116.945	1.914	0.000	0.05	0.0	40.5	SURCHARGED
17.010	128	5	116.944	2.232	0.000	0.04	0.0	43.0	SURCHARGED
1.019	19a	5	116.943	2.478	0.000	0.24	0.0	339.5	SURCHARGED
21.000	98	5	116.913	-0.287	0.000	0.02	0.0	98.6	OK
1.020	20	5	116.936	3.382	0.000	1.84	0.0	154.4	SURCHARGED
1.021	21	6	116.536	3.127	0.000	1.81	0.0	153.4	SURCHARGED
1.022	22	7	116.072	2.851	0.000	1.88	0.0	153.6	SURCHARGED
22.000	79	15	122.612	-0.247	0.000	0.07	0.0	11.5	OK
22.001	80	15	121.827	-0.237	0.000	0.10	0.0	11.5	OK
22.002	81	15	121.415	-0.233	0.000	0.12	0.0	11.5	OK
22.003	82	15	121.197	-0.225	0.000	0.14	0.0	11.5	OK
22.004	83	15	120.964	-0.276	0.000	0.15	0.0	14.3	OK
22.005	84	15	120.914	-0.273	0.000	0.17	0.0	17.1	OK
22.006	85	15	120.799	-0.273	0.000	0.17	0.0	19.8	OK
22.007	86	15	120.533	-0.337	0.000	0.14	0.0	22.6	OK
22.008	87	15	120.447	-0.336	0.000	0.15	0.0	25.3	OK
22.009	88	15	120.250	-0.321	0.000	0.18	0.0	28.0	OK
22.010	89	15	120.165	-0.329	0.000	0.16	0.0	30.7	OK
22.011	90	15	119.877	-0.357	0.000	0.10	0.0	33.5	OK
22.012	91	15	119.402	-0.351	0.000	0.11	0.0	36.2	OK
22.013	92	15	118.831	-0.405	0.000	0.23	0.0	62.9	OK
22.014	93	15	118.727	-0.464	0.000	0.21	0.0	92.3	OK
22.015	94	15	118.582	-0.506	0.000	0.23	0.0	123.0	OK
22.016	95	15	118.437	-0.567	0.000	0.14	0.0	149.2	OK
22.017	96	15	117.779	-0.567	0.000	0.21	0.0	151.6	OK
22.018	97	15	117.559	-0.583	0.000	0.19	0.0	229.6	OK
22.019	98	15	116.873	-0.666	0.000	0.24	0.0	273.7	OK
22.020	99	15	116.729	-0.660	0.000	0.30	0.0	273.6	OK

Wellington House
 Leicester Road Ibstock
 Leics LE67 6HP

Longford Park
 Bodicote
 Banbury



Date 04.03.14
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Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	15	116.477	-0.855	0.000	0.08	0.0	273.8	OK
23.000	102	13	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	10	115.960	0.585	0.000	1.70	0.0	134.2	SURCHARGED
1.023	23	10	115.831	2.699	0.000	2.85	0.0	246.2	SURCHARGED
1.024	24	10	114.156	1.230	0.000	2.89	0.0	246.2	SURCHARGED
1.025	25	10	113.013	0.224	0.000	1.16	0.0	246.2	SURCHARGED
24.000	103	15	119.165	-0.360	0.000	0.22	0.0	47.0	OK
24.001	104	15	118.892	-0.500	0.000	0.24	0.0	136.4	OK
24.002	105	15	118.645	-0.498	0.000	0.25	0.0	136.2	OK
24.003	106	15	118.315	-1.832	0.000	0.00	0.0	136.2	OK
24.004	107	15	115.658	-0.889	0.000	0.01	0.0	136.1	OK
1.026	26	15	111.869	-1.039	0.000	0.02	0.0	370.8	OK
1.027	27	15	109.403	-0.344	0.000	0.08	0.0	370.8	OK
1.028	28	15	106.835	-0.356	0.000	0.05	0.0	370.9	OK
1.029	29	15	98.133	-0.344	0.000	0.06	0.0	370.9	OK
1.030	30	15	92.560	-0.822	0.000	0.03	0.0	370.9	OK
1.031	31	19	91.068	-1.182	0.000	0.03	0.0	370.8	OK
1.032	32	6	90.970	-1.153	0.000	0.02	0.0	370.7	OK
1.033	33	6	90.954	0.681	0.000	0.88	0.0	193.2	SURCHARGED
25.000	108	6	90.853	-1.033	0.000	0.01	0.0	155.3	OK
25.001	109	6	90.853	-1.033	0.000	0.01	0.0	155.0	OK
25.002	110	6	90.853	-1.033	0.000	0.00	0.0	150.2	OK
1.034	109	6	90.853	0.987	0.000	0.26	0.0	60.8	SURCHARGED
1.035	34	6	90.630	3.980	0.000	0.84	0.0	60.8	SURCHARGED

M-EC		Page 79
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	13	117.186	0.331	0.000	0.03	0.0	2.2	SURCHARGED
1.001	2	13	117.185	0.476	0.000	0.05	0.0	3.8	SURCHARGED
1.002	3	13	117.183	0.695	0.000	0.08	0.0	10.5	SURCHARGED
1.003	4	13	117.180	0.833	0.000	0.11	0.0	20.1	SURCHARGED
2.000	36	17	118.471	-0.204	0.000	0.22	0.0	20.6	OK
2.001	37	17	118.263	-0.198	0.000	0.25	0.0	26.1	OK
2.002	38	17	118.008	-0.205	0.000	0.22	0.0	30.1	OK
2.003	39	15	117.600	0.252	0.000	0.14	0.0	33.9	SURCHARGED
3.000	44	16	117.615	0.470	0.000	0.08	0.0	6.5	SURCHARGED
3.001	45	16	117.609	0.626	0.000	0.09	0.0	9.4	SURCHARGED
3.002	46	16	117.604	0.722	0.000	0.11	0.0	19.7	SURCHARGED
4.000	50	16	117.601	0.315	0.000	0.06	0.0	5.7	SURCHARGED
3.003	47	16	117.599	0.839	0.000	0.08	0.0	26.3	SURCHARGED
3.004	48	16	117.594	1.041	0.000	0.14	0.0	33.8	SURCHARGED
3.005	49	15	117.589	1.124	0.000	0.15	0.0	34.6	SURCHARGED
2.004	40	15	117.587	1.144	0.000	0.19	0.0	65.0	SURCHARGED
2.005	41	14	117.580	1.227	0.000	0.17	0.0	70.9	SURCHARGED
5.000	51	13	117.444	0.557	0.000	0.03	0.0	3.0	SURCHARGED
2.006	42	14	117.443	1.264	0.000	0.18	0.0	76.1	SURCHARGED
2.007	43	13	117.309	1.302	0.000	0.20	0.0	79.2	SURCHARGED
1.004	5	13	117.171	1.323	0.000	0.29	0.0	99.4	SURCHARGED
1.005	6	13	117.167	1.380	0.000	0.18	0.0	108.6	SURCHARGED

M-EC		Page 80
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	12	117.182	0.252	0.000	0.10	0.0	4.4	SURCHARGED
6.001	53	13	117.177	0.484	0.000	0.12	0.0	4.3	SURCHARGED
6.002	54	13	117.175	0.550	0.000	0.09	0.0	6.9	SURCHARGED
6.003	55	12	117.170	0.855	0.000	0.15	0.0	9.1	SURCHARGED
6.004	56	13	117.168	0.912	0.000	0.10	0.0	12.6	SURCHARGED
6.005	57	13	117.163	1.180	0.000	0.05	0.0	12.3	SURCHARGED
1.006	7	13	117.161	1.531	0.000	0.15	0.0	125.1	SURCHARGED
7.000	58	17	118.076	-0.184	0.000	0.08	0.0	2.9	OK
7.001	59	17	117.904	-0.191	0.000	0.06	0.0	6.6	OK
1.007	8	13	116.974	1.633	0.000	0.18	0.0	131.5	SURCHARGED
8.000	60	13	116.819	-0.037	0.000	0.09	0.0	3.7	OK
8.001	61	13	116.830	0.146	0.000	0.04	0.0	4.0	SURCHARGED
8.002	35	13	116.831	0.403	0.000	0.02	0.0	4.8	SURCHARGED
1.008	10	13	116.833	1.754	0.000	0.40	0.0	134.4	SURCHARGED
9.000	62	17	119.360	-0.192	0.000	0.05	0.0	2.6	OK
9.001	63	17	118.954	-0.238	0.000	0.10	0.0	10.0	OK
9.002	64	17	118.551	-0.255	0.000	0.06	0.0	13.6	OK
9.003	148	13	116.827	1.348	0.000	0.08	0.0	13.0	SURCHARGED
1.009	11	13	116.829	1.769	0.000	0.20	0.0	147.6	SURCHARGED
1.010	12	13	116.823	1.847	0.000	0.40	0.0	149.5	SURCHARGED
1.011	13	12	116.819	1.865	0.000	0.34	0.0	149.4	SURCHARGED
1.012	14	11	116.813	1.892	0.000	0.17	0.0	158.9	SURCHARGED
1.013	15	11	116.810	1.940	0.000	0.35	0.0	158.2	SURCHARGED
1.014	16	11	116.806	1.959	0.000	0.17	0.0	157.6	SURCHARGED
10.000	65	17	117.135	-0.234	0.000	0.11	0.0	7.3	OK
11.000	136	17	118.033	-0.181	0.000	0.09	0.0	5.1	OK
11.001	137	17	117.729	-0.178	0.000	0.10	0.0	5.5	OK
11.002	138	17	117.469	-0.250	0.000	0.07	0.0	8.6	OK
10.001	66	17	116.900	-0.300	0.000	0.09	0.0	19.8	OK
10.002	67	13	116.812	0.103	0.000	0.10	0.0	21.8	SURCHARGED
12.000	9	17	116.991	-0.293	0.000	0.00	0.0	0.6	OK
12.001	75	13	116.807	0.141	0.000	0.05	0.0	4.2	SURCHARGED
12.002	76	13	116.815	0.326	0.000	0.02	0.0	7.4	SURCHARGED
10.003	68	13	116.813	0.494	0.000	0.13	0.0	31.0	SURCHARGED
10.004	69	13	116.807	0.616	0.000	0.11	0.0	35.2	SURCHARGED
10.005	70	13	116.804	0.703	0.000	0.07	0.0	34.1	SURCHARGED
10.006	71	12	116.804	0.757	0.000	0.08	0.0	38.7	SURCHARGED
13.000	147	17	116.926	-0.203	0.000	0.02	0.0	1.5	OK
13.001	112	13	116.795	0.122	0.000	0.04	0.0	3.4	SURCHARGED
13.002	113	13	116.806	0.316	0.000	0.03	0.0	4.5	SURCHARGED
14.000	114	17	117.293	-0.208	0.000	0.02	0.0	1.0	OK
14.001	115	17	117.040	-0.199	0.000	0.03	0.0	1.9	OK
14.002	116	13	116.795	0.016	0.000	0.05	0.0	3.7	SURCHARGED
13.003	77	13	116.806	0.403	0.000	0.05	0.0	8.6	SURCHARGED
15.000	134	17	117.234	-0.198	0.000	0.03	0.0	3.6	OK
13.004	135	13	116.802	0.491	0.000	0.06	0.0	14.3	SURCHARGED
13.005	78	13	116.803	0.708	0.000	0.06	0.0	15.1	SURCHARGED
10.007	72	12	116.804	0.829	0.000	0.03	0.0	54.4	SURCHARGED
10.008	73	11	116.802	1.546	0.000	0.03	0.0	57.1	SURCHARGED
10.009	74	11	116.801	1.765	0.000	0.03	0.0	58.9	SURCHARGED

M-EC		Page 81
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	11	116.801	1.931	0.000	0.15	0.0	212.3	SURCHARGED
1.016	18	11	116.796	2.029	0.000	0.12	0.0	211.7	SURCHARGED
16.000	142	17	118.179	-0.120	0.000	0.09	0.0	4.1	OK
16.001	143	11	116.782	1.182	0.000	0.11	0.0	12.7	SURCHARGED
1.017	18a	11	116.790	2.166	0.000	0.15	0.0	235.3	SURCHARGED
1.018	19	11	116.785	2.267	0.000	0.19	0.0	234.8	SURCHARGED
17.000	118	17	117.164	-0.219	0.000	0.01	0.0	0.3	OK
17.001	119	17	117.023	-0.197	0.000	0.04	0.0	1.7	OK
17.002	120	17	116.895	-0.176	0.000	0.11	0.0	5.3	OK
18.000	129	17	117.459	-0.198	0.000	0.04	0.0	2.5	OK
18.001	130	17	117.040	-0.194	0.000	0.05	0.0	3.5	OK
17.003	121	12	116.782	0.106	0.000	0.14	0.0	11.5	SURCHARGED
19.000	131	17	117.360	-0.181	0.000	0.08	0.0	5.0	OK
19.001	132	17	116.837	-0.166	0.000	0.16	0.0	6.6	OK
19.002	133	12	116.787	-0.126	0.000	0.07	0.0	7.7	OK
17.004	122	12	116.790	0.218	0.000	0.10	0.0	20.3	SURCHARGED
17.005	123	12	116.787	0.342	0.000	0.11	0.0	22.6	SURCHARGED
20.000	139	17	117.864	-0.196	0.000	0.04	0.0	3.5	OK
20.001	140	17	117.067	-0.179	0.000	0.09	0.0	7.7	OK
17.006	124	11	116.783	0.464	0.000	0.08	0.0	30.2	SURCHARGED
17.007	125	11	116.783	0.881	0.000	0.06	0.0	29.1	SURCHARGED
17.008	126	11	116.782	1.158	0.000	0.03	0.0	30.7	SURCHARGED
17.009	127	11	116.780	1.749	0.000	0.04	0.0	31.7	SURCHARGED
17.010	128	11	116.780	2.068	0.000	0.03	0.0	33.8	SURCHARGED
1.019	19a	11	116.780	2.315	0.000	0.20	0.0	277.1	SURCHARGED
21.000	98	10	116.767	-0.433	0.000	0.02	0.0	75.6	OK
1.020	20	11	116.775	3.221	0.000	1.72	0.0	144.2	SURCHARGED
1.021	21	12	116.400	2.991	0.000	1.70	0.0	144.4	SURCHARGED
1.022	22	12	115.948	2.727	0.000	1.77	0.0	144.5	SURCHARGED
22.000	79	17	122.606	-0.253	0.000	0.06	0.0	9.2	OK
22.001	80	17	121.820	-0.244	0.000	0.08	0.0	9.2	OK
22.002	81	17	121.409	-0.239	0.000	0.09	0.0	9.2	OK
22.003	82	17	121.189	-0.233	0.000	0.11	0.0	9.2	OK
22.004	83	17	120.953	-0.287	0.000	0.12	0.0	11.4	OK
22.005	84	17	120.903	-0.285	0.000	0.13	0.0	13.6	OK
22.006	85	17	120.788	-0.284	0.000	0.13	0.0	15.8	OK
22.007	86	17	120.521	-0.349	0.000	0.12	0.0	18.1	OK
22.008	87	17	120.435	-0.348	0.000	0.12	0.0	20.3	OK
22.009	88	17	120.235	-0.336	0.000	0.15	0.0	22.5	OK
22.010	89	17	120.151	-0.342	0.000	0.13	0.0	24.6	OK
22.011	90	17	119.866	-0.368	0.000	0.08	0.0	26.8	OK
22.012	91	17	119.393	-0.360	0.000	0.09	0.0	29.0	OK
22.013	92	17	118.810	-0.427	0.000	0.18	0.0	50.4	OK
22.014	93	17	118.702	-0.488	0.000	0.17	0.0	73.9	OK
22.015	94	17	118.555	-0.532	0.000	0.19	0.0	98.5	OK
22.016	95	17	118.418	-0.586	0.000	0.11	0.0	119.5	OK
22.017	96	17	117.749	-0.597	0.000	0.17	0.0	121.6	OK
22.018	97	17	117.530	-0.612	0.000	0.15	0.0	184.2	OK
22.019	98	17	116.829	-0.710	0.000	0.20	0.0	219.8	OK
22.020	99	17	116.685	-0.704	0.000	0.24	0.0	219.6	OK

M-EC		Page 82
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	17	116.453	-0.879	0.000	0.06	0.0	219.6	OK
23.000	102	14	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	13	115.834	0.459	0.000	1.71	0.0	135.1	SURCHARGED
1.023	23	13	115.711	2.579	0.000	2.80	0.0	242.2	SURCHARGED
1.024	24	13	114.088	1.162	0.000	2.84	0.0	242.1	SURCHARGED
1.025	25	13	112.982	0.193	0.000	1.14	0.0	242.1	SURCHARGED
24.000	103	17	119.146	-0.379	0.000	0.17	0.0	37.6	OK
24.001	104	17	118.865	-0.527	0.000	0.19	0.0	109.1	OK
24.002	105	17	118.619	-0.524	0.000	0.20	0.0	109.1	OK
24.003	106	17	118.305	-1.842	0.000	0.00	0.0	109.1	OK
24.004	107	17	115.651	-0.896	0.000	0.01	0.0	109.1	OK
1.026	26	17	111.864	-1.044	0.000	0.01	0.0	341.9	OK
1.027	27	17	109.398	-0.349	0.000	0.08	0.0	342.0	OK
1.028	28	17	106.829	-0.362	0.000	0.05	0.0	342.0	OK
1.029	29	17	98.129	-0.348	0.000	0.06	0.0	342.1	OK
1.030	30	17	92.552	-0.830	0.000	0.02	0.0	342.2	OK
1.031	31	21	91.059	-1.191	0.000	0.03	0.0	342.2	OK
1.032	32	5	91.024	-1.099	0.000	0.02	0.0	342.2	OK
1.033	33	5	91.005	0.732	0.000	0.80	0.0	176.2	SURCHARGED
25.000	108	5	90.903	-0.983	0.000	0.01	0.0	123.8	OK
25.001	109	5	90.904	-0.982	0.000	0.01	0.0	123.1	OK
25.002	110	5	90.904	-0.982	0.000	0.00	0.0	116.1	OK
1.034	109	5	90.903	1.037	0.000	0.26	0.0	61.2	SURCHARGED
1.035	34	5	90.679	4.029	0.000	0.84	0.0	61.2	SURCHARGED

M-EC		Page 83
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	15	117.060	0.205	0.000	0.02	0.0	1.8	SURCHARGED
1.001	2	16	117.059	0.350	0.000	0.04	0.0	3.1	SURCHARGED
1.002	3	16	117.057	0.569	0.000	0.07	0.0	8.5	SURCHARGED
1.003	4	16	117.054	0.707	0.000	0.09	0.0	16.4	SURCHARGED
2.000	36	19	118.463	-0.212	0.000	0.19	0.0	17.3	OK
2.001	37	19	118.254	-0.207	0.000	0.21	0.0	21.9	OK
2.002	38	19	118.000	-0.213	0.000	0.19	0.0	25.3	OK
2.003	39	18	117.458	0.110	0.000	0.12	0.0	28.5	SURCHARGED
3.000	44	18	117.468	0.323	0.000	0.07	0.0	5.6	SURCHARGED
3.001	45	18	117.465	0.482	0.000	0.07	0.0	8.0	SURCHARGED
3.002	46	18	117.462	0.580	0.000	0.10	0.0	17.4	SURCHARGED
4.000	50	18	117.459	0.173	0.000	0.05	0.0	4.8	SURCHARGED
3.003	47	18	117.457	0.697	0.000	0.07	0.0	22.9	SURCHARGED
3.004	48	18	117.453	0.900	0.000	0.12	0.0	29.4	SURCHARGED
3.005	49	18	117.449	0.984	0.000	0.13	0.0	30.1	SURCHARGED
2.004	40	18	117.447	1.004	0.000	0.16	0.0	56.1	SURCHARGED
2.005	41	16	117.441	1.088	0.000	0.15	0.0	60.6	SURCHARGED
5.000	51	16	117.320	0.433	0.000	0.02	0.0	2.5	SURCHARGED
2.006	42	16	117.319	1.140	0.000	0.16	0.0	64.5	SURCHARGED
2.007	43	15	117.182	1.175	0.000	0.17	0.0	66.6	SURCHARGED
1.004	5	15	117.047	1.199	0.000	0.23	0.0	81.0	SURCHARGED
1.005	6	15	117.043	1.256	0.000	0.14	0.0	89.5	SURCHARGED

M-EC		Page 84
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	15	117.057	0.127	0.000	0.08	0.0	3.7	SURCHARGED
6.001	53	15	117.052	0.359	0.000	0.10	0.0	3.6	SURCHARGED
6.002	54	15	117.050	0.425	0.000	0.08	0.0	5.9	SURCHARGED
6.003	55	15	117.045	0.730	0.000	0.13	0.0	7.7	SURCHARGED
6.004	56	15	117.043	0.787	0.000	0.09	0.0	11.1	SURCHARGED
6.005	57	15	117.038	1.055	0.000	0.04	0.0	10.4	SURCHARGED
1.006	7	15	117.036	1.406	0.000	0.12	0.0	104.0	SURCHARGED
7.000	58	19	118.072	-0.188	0.000	0.06	0.0	2.5	OK
7.001	59	19	117.901	-0.194	0.000	0.05	0.0	5.6	OK
1.007	8	15	116.858	1.517	0.000	0.15	0.0	109.9	SURCHARGED
8.000	60	16	116.700	-0.156	0.000	0.08	0.0	3.1	OK
8.001	61	16	116.698	0.014	0.000	0.03	0.0	3.3	SURCHARGED
8.002	35	16	116.696	0.268	0.000	0.02	0.0	4.1	SURCHARGED
1.008	10	16	116.695	1.616	0.000	0.34	0.0	112.8	SURCHARGED
9.000	62	19	119.357	-0.195	0.000	0.04	0.0	2.2	OK
9.001	63	19	118.949	-0.243	0.000	0.08	0.0	8.4	OK
9.002	64	19	118.547	-0.259	0.000	0.05	0.0	11.5	OK
9.003	148	16	116.696	1.217	0.000	0.07	0.0	10.9	SURCHARGED
1.009	11	16	116.691	1.631	0.000	0.17	0.0	125.0	SURCHARGED
1.010	12	16	116.685	1.709	0.000	0.34	0.0	126.7	SURCHARGED
1.011	13	16	116.680	1.726	0.000	0.29	0.0	127.6	SURCHARGED
1.012	14	16	116.675	1.754	0.000	0.14	0.0	135.9	SURCHARGED
1.013	15	16	116.670	1.800	0.000	0.30	0.0	135.9	SURCHARGED
1.014	16	16	116.666	1.819	0.000	0.15	0.0	135.8	SURCHARGED
10.000	65	19	117.130	-0.239	0.000	0.09	0.0	6.1	OK
11.000	136	19	118.028	-0.186	0.000	0.07	0.0	4.3	OK
11.001	137	19	117.725	-0.182	0.000	0.08	0.0	4.6	OK
11.002	138	19	117.465	-0.255	0.000	0.06	0.0	7.2	OK
10.001	66	19	116.893	-0.307	0.000	0.08	0.0	16.6	OK
10.002	67	16	116.687	-0.022	0.000	0.08	0.0	18.3	OK
12.000	9	19	116.990	-0.294	0.000	0.00	0.0	0.5	OK
12.001	75	15	116.680	0.014	0.000	0.05	0.0	3.5	SURCHARGED
12.002	76	16	116.678	0.189	0.000	0.02	0.0	6.5	SURCHARGED
10.003	68	16	116.678	0.359	0.000	0.11	0.0	25.9	SURCHARGED
10.004	69	16	116.675	0.484	0.000	0.09	0.0	30.0	SURCHARGED
10.005	70	16	116.671	0.570	0.000	0.06	0.0	29.3	SURCHARGED
10.006	71	16	116.669	0.622	0.000	0.07	0.0	33.5	SURCHARGED
13.000	147	19	116.923	-0.206	0.000	0.02	0.0	1.3	OK
13.001	112	15	116.675	0.002	0.000	0.03	0.0	2.9	SURCHARGED
13.002	113	16	116.672	0.182	0.000	0.02	0.0	3.8	SURCHARGED
14.000	114	19	117.290	-0.211	0.000	0.01	0.0	0.8	OK
14.001	115	19	117.038	-0.201	0.000	0.03	0.0	1.6	OK
14.002	116	15	116.675	-0.103	0.000	0.05	0.0	3.1	OK
13.003	77	16	116.673	0.270	0.000	0.04	0.0	7.5	SURCHARGED
15.000	134	19	117.232	-0.200	0.000	0.03	0.0	3.0	OK
13.004	135	16	116.672	0.360	0.000	0.05	0.0	12.3	SURCHARGED
13.005	78	16	116.669	0.574	0.000	0.05	0.0	13.4	SURCHARGED
10.007	72	16	116.667	0.691	0.000	0.03	0.0	46.6	SURCHARGED
10.008	73	16	116.664	1.408	0.000	0.02	0.0	48.8	SURCHARGED
10.009	74	16	116.663	1.626	0.000	0.03	0.0	50.3	SURCHARGED

M-EC		Page 85
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 600 minute 30 year Winter I+0% for STORM.SWS

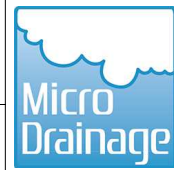
PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	16	116.662	1.792	0.000	0.13	0.0	182.0	SURCHARGED
1.016	18	16	116.656	1.889	0.000	0.11	0.0	182.0	SURCHARGED
16.000	142	19	118.176	-0.123	0.000	0.08	0.0	3.4	OK
16.001	143	16	116.663	1.063	0.000	0.09	0.0	10.6	SURCHARGED
1.017	18a	16	116.651	2.027	0.000	0.13	0.0	202.3	SURCHARGED
1.018	19	16	116.645	2.127	0.000	0.16	0.0	202.2	SURCHARGED
17.000	118	19	117.163	-0.220	0.000	0.00	0.0	0.2	OK
17.001	119	19	117.021	-0.199	0.000	0.03	0.0	1.4	OK
17.002	120	19	116.892	-0.180	0.000	0.09	0.0	4.5	OK
18.000	129	19	117.457	-0.200	0.000	0.03	0.0	2.1	OK
18.001	130	19	117.038	-0.196	0.000	0.04	0.0	2.9	OK
17.003	121	16	116.662	-0.014	0.000	0.12	0.0	9.7	OK
19.000	131	19	117.355	-0.186	0.000	0.07	0.0	4.2	OK
19.001	132	19	116.831	-0.171	0.000	0.13	0.0	5.5	OK
19.002	133	17	116.667	-0.246	0.000	0.05	0.0	6.5	OK
17.004	122	15	116.659	0.087	0.000	0.09	0.0	17.2	SURCHARGED
17.005	123	15	116.657	0.211	0.000	0.10	0.0	19.1	SURCHARGED
20.000	139	19	117.862	-0.198	0.000	0.04	0.0	2.9	OK
20.001	140	19	117.063	-0.183	0.000	0.08	0.0	6.5	OK
17.006	124	15	116.654	0.335	0.000	0.07	0.0	26.5	SURCHARGED
17.007	125	15	116.648	0.746	0.000	0.05	0.0	24.6	SURCHARGED
17.008	126	15	116.645	1.021	0.000	0.02	0.0	26.0	SURCHARGED
17.009	127	14	116.643	1.612	0.000	0.03	0.0	26.8	SURCHARGED
17.010	128	14	116.641	1.929	0.000	0.03	0.0	28.5	SURCHARGED
1.019	19a	14	116.640	2.175	0.000	0.17	0.0	238.1	SURCHARGED
21.000	98	14	116.631	-0.569	0.000	0.01	0.0	56.1	OK
1.020	20	14	116.633	3.079	0.000	1.74	0.0	146.1	SURCHARGED
1.021	21	16	116.273	2.864	0.000	1.72	0.0	146.2	SURCHARGED
1.022	22	17	115.825	2.604	0.000	1.79	0.0	146.2	SURCHARGED
22.000	79	19	122.601	-0.258	0.000	0.05	0.0	7.7	OK
22.001	80	19	121.814	-0.250	0.000	0.07	0.0	7.7	OK
22.002	81	19	121.403	-0.245	0.000	0.08	0.0	7.7	OK
22.003	82	19	121.184	-0.238	0.000	0.10	0.0	7.7	OK
22.004	83	19	120.946	-0.294	0.000	0.10	0.0	9.6	OK
22.005	84	19	120.896	-0.292	0.000	0.11	0.0	11.5	OK
22.006	85	19	120.780	-0.292	0.000	0.11	0.0	13.3	OK
22.007	86	19	120.514	-0.356	0.000	0.10	0.0	15.2	OK
22.008	87	19	120.427	-0.356	0.000	0.10	0.0	17.0	OK
22.009	88	19	120.225	-0.346	0.000	0.12	0.0	18.9	OK
22.010	89	19	120.142	-0.351	0.000	0.11	0.0	20.7	OK
22.011	90	19	119.858	-0.376	0.000	0.06	0.0	22.6	OK
22.012	91	19	119.384	-0.370	0.000	0.07	0.0	24.5	OK
22.013	92	19	118.793	-0.443	0.000	0.16	0.0	42.4	OK
22.014	93	19	118.685	-0.505	0.000	0.14	0.0	62.2	OK
22.015	94	19	118.535	-0.553	0.000	0.16	0.0	82.9	OK
22.016	95	19	118.406	-0.598	0.000	0.09	0.0	100.6	OK
22.017	96	19	117.728	-0.618	0.000	0.14	0.0	102.4	OK
22.018	97	19	117.511	-0.631	0.000	0.13	0.0	155.0	OK
22.019	98	19	116.801	-0.738	0.000	0.17	0.0	185.0	OK
22.020	99	19	116.657	-0.732	0.000	0.20	0.0	184.9	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury

Date 04.03.14
File storm.mdx

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Micro Drainage

Network 2014.1

Summary Wizard of 600 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	19	116.437	-0.895	0.000	0.05	0.0	184.9	OK
23.000	102	12	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	18	115.720	0.345	0.000	1.62	0.0	128.0	SURCHARGED
1.023	23	17	115.597	2.465	0.000	2.76	0.0	238.5	SURCHARGED
1.024	24	18	114.028	1.102	0.000	2.80	0.0	238.5	SURCHARGED
1.025	25	18	112.954	0.165	0.000	1.12	0.0	238.5	SURCHARGED
24.000	103	19	119.133	-0.392	0.000	0.15	0.0	31.6	OK
24.001	104	19	118.844	-0.548	0.000	0.16	0.0	91.6	OK
24.002	105	19	118.597	-0.546	0.000	0.17	0.0	91.6	OK
24.003	106	19	118.298	-1.849	0.000	0.00	0.0	91.6	OK
24.004	107	19	115.645	-0.902	0.000	0.00	0.0	91.6	OK
1.026	26	19	111.860	-1.048	0.000	0.01	0.0	322.7	OK
1.027	27	19	109.395	-0.352	0.000	0.07	0.0	322.7	OK
1.028	28	19	106.825	-0.366	0.000	0.04	0.0	322.7	OK
1.029	29	19	98.125	-0.352	0.000	0.05	0.0	322.8	OK
1.030	30	19	92.547	-0.835	0.000	0.02	0.0	322.9	OK
1.031	31	14	91.089	-1.161	0.000	0.02	0.0	322.9	OK
1.032	32	3	91.065	-1.058	0.000	0.02	0.0	323.0	OK
1.033	33	3	91.045	0.772	0.000	0.76	0.0	168.0	SURCHARGED
25.000	108	4	90.943	-0.943	0.000	0.00	0.0	103.4	OK
25.001	109	4	90.943	-0.943	0.000	0.00	0.0	102.3	OK
25.002	110	4	90.944	-0.942	0.000	0.00	0.0	93.6	OK
1.034	109	4	90.944	1.078	0.000	0.27	0.0	61.4	SURCHARGED
1.035	34	4	90.717	4.067	0.000	0.85	0.0	61.4	SURCHARGED

M-EC		Page 87
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	19	116.916	0.061	0.000	0.02	0.0	1.6	SURCHARGED
1.001	2	19	116.915	0.206	0.000	0.04	0.0	2.8	SURCHARGED
1.002	3	19	116.913	0.425	0.000	0.06	0.0	7.7	SURCHARGED
1.003	4	19	116.911	0.564	0.000	0.08	0.0	14.7	SURCHARGED
2.000	36	21	118.456	-0.219	0.000	0.16	0.0	15.0	OK
2.001	37	21	118.247	-0.214	0.000	0.18	0.0	19.0	OK
2.002	38	21	117.993	-0.220	0.000	0.16	0.0	21.9	OK
2.003	39	20	117.339	-0.009	0.000	0.10	0.0	24.8	OK
3.000	44	20	117.357	0.212	0.000	0.06	0.0	4.9	SURCHARGED
3.001	45	20	117.356	0.373	0.000	0.07	0.0	7.1	SURCHARGED
3.002	46	20	117.352	0.470	0.000	0.09	0.0	15.0	SURCHARGED
4.000	50	20	117.348	0.062	0.000	0.04	0.0	4.2	SURCHARGED
3.003	47	20	117.342	0.582	0.000	0.06	0.0	20.1	SURCHARGED
3.004	48	20	117.340	0.787	0.000	0.10	0.0	24.8	SURCHARGED
3.005	49	20	117.320	0.855	0.000	0.11	0.0	25.3	SURCHARGED
2.004	40	20	117.318	0.875	0.000	0.14	0.0	48.1	SURCHARGED
2.005	41	19	117.281	0.928	0.000	0.13	0.0	52.3	SURCHARGED
5.000	51	19	117.176	0.289	0.000	0.02	0.0	2.3	SURCHARGED
2.006	42	19	117.175	0.996	0.000	0.13	0.0	55.2	SURCHARGED
2.007	43	19	117.039	1.032	0.000	0.14	0.0	54.2	SURCHARGED
1.004	5	19	116.903	1.055	0.000	0.19	0.0	67.6	SURCHARGED
1.005	6	19	116.899	1.112	0.000	0.12	0.0	74.2	SURCHARGED

M-EC		Page 88
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	19	116.913	-0.017	0.000	0.07	0.0	3.2	OK
6.001	53	18	116.908	0.215	0.000	0.09	0.0	3.2	SURCHARGED
6.002	54	18	116.906	0.281	0.000	0.07	0.0	5.2	SURCHARGED
6.003	55	19	116.902	0.587	0.000	0.11	0.0	7.0	SURCHARGED
6.004	56	19	116.899	0.643	0.000	0.08	0.0	9.7	SURCHARGED
6.005	57	19	116.894	0.911	0.000	0.04	0.0	9.6	SURCHARGED
1.006	7	19	116.892	1.262	0.000	0.10	0.0	86.0	SURCHARGED
7.000	58	21	118.069	-0.191	0.000	0.06	0.0	2.1	OK
7.001	59	21	117.899	-0.196	0.000	0.04	0.0	4.8	OK
1.007	8	19	116.710	1.369	0.000	0.12	0.0	90.2	SURCHARGED
8.000	60	21	116.669	-0.187	0.000	0.07	0.0	2.7	OK
8.001	61	19	116.550	-0.134	0.000	0.03	0.0	2.9	OK
8.002	35	19	116.549	0.121	0.000	0.01	0.0	3.6	SURCHARGED
1.008	10	19	116.547	1.468	0.000	0.28	0.0	93.0	SURCHARGED
9.000	62	21	119.355	-0.197	0.000	0.04	0.0	1.9	OK
9.001	63	21	118.944	-0.248	0.000	0.07	0.0	7.2	OK
9.002	64	21	118.544	-0.262	0.000	0.04	0.0	9.9	OK
9.003	148	19	116.546	1.067	0.000	0.06	0.0	9.4	SURCHARGED
1.009	11	19	116.543	1.483	0.000	0.14	0.0	103.4	SURCHARGED
1.010	12	19	116.536	1.560	0.000	0.28	0.0	104.9	SURCHARGED
1.011	13	19	116.532	1.578	0.000	0.24	0.0	105.5	SURCHARGED
1.012	14	19	116.527	1.606	0.000	0.12	0.0	112.9	SURCHARGED
1.013	15	19	116.523	1.653	0.000	0.25	0.0	112.8	SURCHARGED
1.014	16	19	116.519	1.672	0.000	0.12	0.0	112.7	SURCHARGED
10.000	65	21	117.126	-0.243	0.000	0.08	0.0	5.3	OK
11.000	136	21	118.025	-0.189	0.000	0.06	0.0	3.7	OK
11.001	137	21	117.721	-0.186	0.000	0.07	0.0	4.0	OK
11.002	138	21	117.461	-0.258	0.000	0.05	0.0	6.3	OK
10.001	66	21	116.887	-0.313	0.000	0.07	0.0	14.4	OK
10.002	67	19	116.536	-0.173	0.000	0.07	0.0	15.9	OK
12.000	9	21	116.989	-0.295	0.000	0.00	0.0	0.5	OK
12.001	75	18	116.533	-0.133	0.000	0.04	0.0	3.0	OK
12.002	76	18	116.531	0.042	0.000	0.02	0.0	5.6	SURCHARGED
10.003	68	18	116.530	0.211	0.000	0.10	0.0	23.2	SURCHARGED
10.004	69	18	116.526	0.335	0.000	0.08	0.0	26.3	SURCHARGED
10.005	70	18	116.523	0.422	0.000	0.05	0.0	26.0	SURCHARGED
10.006	71	18	116.522	0.474	0.000	0.06	0.0	29.0	SURCHARGED
13.000	147	21	116.920	-0.209	0.000	0.02	0.0	1.1	OK
13.001	112	18	116.527	-0.146	0.000	0.03	0.0	2.5	OK
13.002	113	18	116.526	0.036	0.000	0.02	0.0	3.4	SURCHARGED
14.000	114	21	117.288	-0.213	0.000	0.01	0.0	0.7	OK
14.001	115	21	117.037	-0.202	0.000	0.02	0.0	1.4	OK
14.002	116	21	116.582	-0.196	0.000	0.04	0.0	2.7	OK
13.003	77	18	116.525	0.123	0.000	0.04	0.0	6.6	SURCHARGED
15.000	134	21	117.231	-0.201	0.000	0.02	0.0	2.6	OK
13.004	135	18	116.524	0.212	0.000	0.05	0.0	10.9	SURCHARGED
13.005	78	18	116.521	0.427	0.000	0.04	0.0	11.8	SURCHARGED
10.007	72	18	116.520	0.544	0.000	0.02	0.0	41.0	SURCHARGED
10.008	73	19	116.517	1.261	0.000	0.02	0.0	42.9	SURCHARGED
10.009	74	19	116.516	1.479	0.000	0.02	0.0	44.3	SURCHARGED

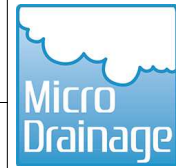
M-EC		Page 89
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 720 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	19	116.515	1.645	0.000	0.11	0.0	154.4	SURCHARGED
1.016	18	19	116.510	1.743	0.000	0.09	0.0	154.3	SURCHARGED
16.000	142	21	118.174	-0.125	0.000	0.07	0.0	3.0	OK
16.001	143	19	116.514	0.915	0.000	0.08	0.0	9.1	SURCHARGED
1.017	18a	19	116.505	1.881	0.000	0.11	0.0	172.1	SURCHARGED
1.018	19	19	116.500	1.982	0.000	0.14	0.0	172.0	SURCHARGED
17.000	118	21	117.162	-0.221	0.000	0.00	0.0	0.2	OK
17.001	119	21	117.019	-0.201	0.000	0.03	0.0	1.2	OK
17.002	120	21	116.888	-0.183	0.000	0.08	0.0	3.9	OK
18.000	129	21	117.456	-0.201	0.000	0.03	0.0	1.9	OK
18.001	130	21	117.036	-0.198	0.000	0.03	0.0	2.5	OK
17.003	121	19	116.519	-0.157	0.000	0.10	0.0	8.4	OK
19.000	131	21	117.352	-0.189	0.000	0.06	0.0	3.6	OK
19.001	132	21	116.828	-0.175	0.000	0.11	0.0	4.8	OK
19.002	133	21	116.654	-0.258	0.000	0.05	0.0	5.6	OK
17.004	122	18	116.517	-0.055	0.000	0.07	0.0	14.9	OK
17.005	123	18	116.510	0.064	0.000	0.09	0.0	17.0	SURCHARGED
20.000	139	21	117.861	-0.199	0.000	0.03	0.0	2.5	OK
20.001	140	21	117.059	-0.187	0.000	0.07	0.0	5.6	OK
17.006	124	18	116.506	0.187	0.000	0.06	0.0	23.2	SURCHARGED
17.007	125	18	116.501	0.600	0.000	0.04	0.0	21.8	SURCHARGED
17.008	126	18	116.499	0.876	0.000	0.02	0.0	22.2	SURCHARGED
17.009	127	18	116.498	1.467	0.000	0.03	0.0	22.9	SURCHARGED
17.010	128	18	116.496	1.785	0.000	0.02	0.0	24.4	SURCHARGED
1.019	19a	18	116.496	2.031	0.000	0.15	0.0	203.9	SURCHARGED
21.000	98	17	116.490	-0.710	0.000	0.01	0.0	50.6	OK
1.020	20	18	116.490	2.936	0.000	1.70	0.0	142.5	SURCHARGED
1.021	21	19	116.144	2.735	0.000	1.68	0.0	142.9	SURCHARGED
1.022	22	20	115.711	2.490	0.000	1.76	0.0	143.1	SURCHARGED
22.000	79	21	122.598	-0.261	0.000	0.04	0.0	6.7	OK
22.001	80	21	121.810	-0.254	0.000	0.06	0.0	6.7	OK
22.002	81	21	121.398	-0.250	0.000	0.07	0.0	6.7	OK
22.003	82	21	121.179	-0.243	0.000	0.08	0.0	6.7	OK
22.004	83	21	120.941	-0.299	0.000	0.09	0.0	8.3	OK
22.005	84	21	120.891	-0.297	0.000	0.10	0.0	9.9	OK
22.006	85	21	120.775	-0.297	0.000	0.10	0.0	11.5	OK
22.007	86	21	120.507	-0.363	0.000	0.08	0.0	13.1	OK
22.008	87	21	120.421	-0.362	0.000	0.09	0.0	14.8	OK
22.009	88	21	120.218	-0.353	0.000	0.11	0.0	16.4	OK
22.010	89	21	120.136	-0.357	0.000	0.10	0.0	18.0	OK
22.011	90	21	119.852	-0.382	0.000	0.06	0.0	19.6	OK
22.012	91	21	119.377	-0.376	0.000	0.06	0.0	21.2	OK
22.013	92	21	118.782	-0.455	0.000	0.13	0.0	36.8	OK
22.014	93	21	118.673	-0.517	0.000	0.13	0.0	53.9	OK
22.015	94	21	118.520	-0.567	0.000	0.14	0.0	71.9	OK
22.016	95	21	118.394	-0.610	0.000	0.08	0.0	87.2	OK
22.017	96	21	117.714	-0.632	0.000	0.12	0.0	88.8	OK
22.018	97	21	117.499	-0.643	0.000	0.11	0.0	134.4	OK
22.019	98	21	116.776	-0.763	0.000	0.14	0.0	160.4	OK
22.020	99	21	116.632	-0.757	0.000	0.17	0.0	160.3	OK

Wellington House
Leicester Road Ibstock
Leics LE67 6HP

Longford Park
Bodicote
Banbury



Date 04.03.14
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Summary Wizard of 720 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	21	116.426	-0.906	0.000	0.05	0.0	160.3	OK
23.000	102	10	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	20	115.614	0.239	0.000	1.60	0.0	126.2	SURCHARGED
1.023	23	20	115.491	2.359	0.000	2.72	0.0	234.9	SURCHARGED
1.024	24	20	113.970	1.044	0.000	2.76	0.0	234.9	SURCHARGED
1.025	25	20	112.928	0.139	0.000	1.11	0.0	234.9	SURCHARGED
24.000	103	21	119.123	-0.402	0.000	0.13	0.0	27.4	OK
24.001	104	21	118.829	-0.563	0.000	0.14	0.0	79.4	OK
24.002	105	21	118.582	-0.561	0.000	0.14	0.0	79.4	OK
24.003	106	21	118.292	-1.855	0.000	0.00	0.0	79.4	OK
24.004	107	21	115.638	-0.909	0.000	0.00	0.0	79.4	OK
1.026	26	21	111.858	-1.050	0.000	0.01	0.0	308.6	OK
1.027	27	21	109.391	-0.356	0.000	0.07	0.0	308.6	OK
1.028	28	21	106.823	-0.368	0.000	0.04	0.0	308.6	OK
1.029	29	21	98.122	-0.355	0.000	0.05	0.0	308.7	OK
1.030	30	21	92.543	-0.839	0.000	0.02	0.0	308.8	OK
1.031	31	10	91.114	-1.136	0.000	0.02	0.0	308.8	OK
1.032	32	2	91.089	-1.034	0.000	0.02	0.0	308.8	OK
1.033	33	2	91.068	0.795	0.000	0.71	0.0	157.0	SURCHARGED
25.000	108	2	90.969	-0.917	0.000	0.00	0.0	89.2	OK
25.001	109	2	90.970	-0.916	0.000	0.00	0.0	88.1	OK
25.002	110	2	90.970	-0.916	0.000	0.00	0.0	80.3	OK
1.034	109	2	90.970	1.104	0.000	0.27	0.0	61.6	SURCHARGED
1.035	34	2	90.741	4.091	0.000	0.85	0.0	61.6	SURCHARGED

M-EC		Page 91
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water	Flooded		Pipe		Status	
			Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	22	116.652	-0.203	0.000	0.02	0.0	1.3	OK
1.001	2	22	116.651	-0.058	0.000	0.03	0.0	2.2	OK
1.002	3	22	116.649	0.161	0.000	0.05	0.0	6.3	SURCHARGED
1.003	4	22	116.647	0.300	0.000	0.07	0.0	12.2	SURCHARGED
2.000	36	22	118.447	-0.228	0.000	0.13	0.0	12.0	OK
2.001	37	22	118.237	-0.224	0.000	0.15	0.0	15.1	OK
2.002	38	22	117.984	-0.229	0.000	0.13	0.0	17.5	OK
2.003	39	22	117.106	-0.242	0.000	0.08	0.0	19.8	OK
3.000	44	22	116.969	-0.176	0.000	0.05	0.0	3.9	OK
3.001	45	22	116.966	-0.017	0.000	0.05	0.0	5.7	OK
3.002	46	22	116.958	0.076	0.000	0.07	0.0	12.4	SURCHARGED
4.000	50	22	117.087	-0.199	0.000	0.03	0.0	3.3	OK
3.003	47	22	116.953	0.193	0.000	0.05	0.0	16.6	SURCHARGED
3.004	48	22	116.949	0.396	0.000	0.08	0.0	20.9	SURCHARGED
3.005	49	22	116.944	0.479	0.000	0.09	0.0	21.1	SURCHARGED
2.004	40	22	116.943	0.500	0.000	0.12	0.0	40.2	SURCHARGED
2.005	41	22	116.934	0.581	0.000	0.10	0.0	43.7	SURCHARGED
5.000	51	22	116.910	0.023	0.000	0.02	0.0	1.8	SURCHARGED
2.006	42	22	116.908	0.729	0.000	0.11	0.0	46.6	SURCHARGED
2.007	43	22	116.772	0.765	0.000	0.12	0.0	46.6	SURCHARGED
1.004	5	22	116.640	0.792	0.000	0.17	0.0	57.4	SURCHARGED
1.005	6	22	116.636	0.849	0.000	0.10	0.0	63.4	SURCHARGED

M-EC		Page 92
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	22	116.740	-0.190	0.000	0.06	0.0	2.6	OK
6.001	53	22	116.645	-0.048	0.000	0.07	0.0	2.6	OK
6.002	54	22	116.643	0.018	0.000	0.06	0.0	4.2	SURCHARGED
6.003	55	22	116.639	0.324	0.000	0.09	0.0	5.7	SURCHARGED
6.004	56	22	116.637	0.381	0.000	0.07	0.0	8.2	SURCHARGED
6.005	57	22	116.632	0.649	0.000	0.03	0.0	8.0	SURCHARGED
1.006	7	22	116.630	1.000	0.000	0.09	0.0	74.6	SURCHARGED
7.000	58	22	118.065	-0.195	0.000	0.04	0.0	1.7	OK
7.001	59	22	117.896	-0.199	0.000	0.03	0.0	3.9	OK
1.007	8	22	116.448	1.107	0.000	0.10	0.0	78.1	SURCHARGED
8.000	60	22	116.665	-0.191	0.000	0.05	0.0	2.1	OK
8.001	61	22	116.414	-0.270	0.000	0.02	0.0	2.3	OK
8.002	35	22	116.286	-0.142	0.000	0.01	0.0	2.9	OK
1.008	10	22	116.285	1.206	0.000	0.24	0.0	80.0	SURCHARGED
9.000	62	22	119.353	-0.199	0.000	0.03	0.0	1.5	OK
9.001	63	22	118.938	-0.254	0.000	0.06	0.0	5.8	OK
9.002	64	22	118.541	-0.265	0.000	0.03	0.0	7.9	OK
9.003	148	22	116.284	0.804	0.000	0.05	0.0	7.4	SURCHARGED
1.009	11	22	116.281	1.221	0.000	0.12	0.0	86.9	SURCHARGED
1.010	12	22	116.275	1.299	0.000	0.23	0.0	87.2	SURCHARGED
1.011	13	22	116.271	1.317	0.000	0.19	0.0	84.5	SURCHARGED
1.012	14	22	116.266	1.345	0.000	0.09	0.0	89.4	SURCHARGED
1.013	15	22	116.262	1.392	0.000	0.19	0.0	87.0	SURCHARGED
1.014	16	22	116.258	1.411	0.000	0.09	0.0	85.8	SURCHARGED
10.000	65	22	117.118	-0.251	0.000	0.06	0.0	4.2	OK
11.000	136	22	118.021	-0.193	0.000	0.05	0.0	3.0	OK
11.001	137	22	117.717	-0.191	0.000	0.06	0.0	3.2	OK
11.002	138	22	117.457	-0.262	0.000	0.04	0.0	5.0	OK
10.001	66	22	116.880	-0.320	0.000	0.05	0.0	11.5	OK
10.002	67	22	116.391	-0.318	0.000	0.06	0.0	12.7	OK
12.000	9	22	116.988	-0.296	0.000	0.00	0.0	0.4	OK
12.001	75	22	116.401	-0.265	0.000	0.03	0.0	2.4	OK
12.002	76	22	116.307	-0.182	0.000	0.01	0.0	4.6	OK
10.003	68	22	116.306	-0.013	0.000	0.08	0.0	19.1	OK
10.004	69	22	116.265	0.074	0.000	0.07	0.0	22.3	SURCHARGED
10.005	70	22	116.262	0.161	0.000	0.05	0.0	21.8	SURCHARGED
10.006	71	22	116.261	0.213	0.000	0.05	0.0	24.6	SURCHARGED
13.000	147	22	116.917	-0.212	0.000	0.01	0.0	0.9	OK
13.001	112	22	116.403	-0.270	0.000	0.02	0.0	2.0	OK
13.002	113	22	116.267	-0.223	0.000	0.02	0.0	2.7	OK
14.000	114	22	117.286	-0.215	0.000	0.01	0.0	0.6	OK
14.001	115	22	117.033	-0.206	0.000	0.02	0.0	1.1	OK
14.002	116	22	116.580	-0.199	0.000	0.03	0.0	2.1	OK
13.003	77	22	116.267	-0.136	0.000	0.03	0.0	5.3	OK
15.000	134	22	117.228	-0.204	0.000	0.02	0.0	2.1	OK
13.004	135	22	116.266	-0.046	0.000	0.04	0.0	9.0	OK
13.005	78	22	116.260	0.166	0.000	0.04	0.0	9.9	SURCHARGED
10.007	72	22	116.259	0.283	0.000	0.02	0.0	34.6	SURCHARGED
10.008	73	22	116.256	1.000	0.000	0.02	0.0	37.5	SURCHARGED
10.009	74	22	116.255	1.219	0.000	0.02	0.0	38.4	SURCHARGED

M-EC		Page 93
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	22	116.254	1.384	0.000	0.08	0.0	118.3	SURCHARGED
1.016	18	22	116.249	1.482	0.000	0.07	0.0	118.3	SURCHARGED
16.000	142	22	118.171	-0.128	0.000	0.05	0.0	2.4	OK
16.001	143	22	116.253	0.654	0.000	0.06	0.0	7.7	SURCHARGED
1.017	18a	22	116.245	1.621	0.000	0.08	0.0	131.7	SURCHARGED
1.018	19	22	116.240	1.722	0.000	0.11	0.0	131.6	SURCHARGED
17.000	118	22	117.161	-0.222	0.000	0.00	0.0	0.1	OK
17.001	119	22	117.018	-0.202	0.000	0.02	0.0	1.0	OK
17.002	120	22	116.883	-0.189	0.000	0.06	0.0	3.1	OK
18.000	129	22	117.454	-0.203	0.000	0.02	0.0	1.5	OK
18.001	130	22	117.034	-0.200	0.000	0.03	0.0	2.0	OK
17.003	121	22	116.434	-0.242	0.000	0.08	0.0	6.7	OK
19.000	131	22	117.348	-0.193	0.000	0.05	0.0	2.9	OK
19.001	132	22	116.823	-0.180	0.000	0.09	0.0	3.8	OK
19.002	133	22	116.650	-0.263	0.000	0.04	0.0	4.5	OK
17.004	122	22	116.255	-0.318	0.000	0.06	0.0	12.0	OK
17.005	123	22	116.252	-0.194	0.000	0.07	0.0	13.7	OK
20.000	139	22	117.859	-0.201	0.000	0.02	0.0	2.0	OK
20.001	140	22	117.055	-0.192	0.000	0.05	0.0	4.5	OK
17.006	124	22	116.248	-0.071	0.000	0.05	0.0	19.0	OK
17.007	125	22	116.241	0.339	0.000	0.03	0.0	18.3	SURCHARGED
17.008	126	22	116.239	0.615	0.000	0.02	0.0	18.3	SURCHARGED
17.009	127	22	116.237	1.207	0.000	0.02	0.0	18.1	SURCHARGED
17.010	128	22	116.236	1.524	0.000	0.02	0.0	18.8	SURCHARGED
1.019	19a	22	116.235	1.770	0.000	0.11	0.0	156.1	SURCHARGED
21.000	98	22	116.229	-0.971	0.000	0.01	0.0	29.1	OK
1.020	20	22	116.229	2.675	0.000	1.64	0.0	137.7	SURCHARGED
1.021	21	22	115.913	2.504	0.000	1.62	0.0	137.7	SURCHARGED
1.022	22	22	115.524	2.303	0.000	1.69	0.0	137.7	SURCHARGED
22.000	79	22	122.595	-0.264	0.000	0.03	0.0	5.4	OK
22.001	80	22	121.805	-0.259	0.000	0.05	0.0	5.4	OK
22.002	81	22	121.392	-0.256	0.000	0.05	0.0	5.4	OK
22.003	82	22	121.172	-0.250	0.000	0.07	0.0	5.4	OK
22.004	83	22	120.931	-0.309	0.000	0.07	0.0	6.6	OK
22.005	84	22	120.881	-0.307	0.000	0.08	0.0	7.9	OK
22.006	85	22	120.766	-0.306	0.000	0.08	0.0	9.2	OK
22.007	86	22	120.496	-0.374	0.000	0.07	0.0	10.5	OK
22.008	87	22	120.409	-0.373	0.000	0.07	0.0	11.8	OK
22.009	88	22	120.209	-0.363	0.000	0.08	0.0	13.1	OK
22.010	89	22	120.125	-0.368	0.000	0.08	0.0	14.3	OK
22.011	90	22	119.844	-0.389	0.000	0.04	0.0	15.6	OK
22.012	91	22	119.368	-0.385	0.000	0.05	0.0	16.9	OK
22.013	92	22	118.767	-0.470	0.000	0.11	0.0	29.3	OK
22.014	93	22	118.658	-0.533	0.000	0.10	0.0	43.0	OK
22.015	94	22	118.501	-0.586	0.000	0.11	0.0	57.4	OK
22.016	95	22	118.376	-0.628	0.000	0.06	0.0	69.6	OK
22.017	96	22	117.694	-0.652	0.000	0.10	0.0	70.8	OK
22.018	97	22	117.481	-0.661	0.000	0.09	0.0	107.2	OK
22.019	98	22	116.743	-0.796	0.000	0.11	0.0	128.0	OK
22.020	99	22	116.598	-0.791	0.000	0.14	0.0	127.9	OK

M-EC		Page 94
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	22	116.411	-0.921	0.000	0.04	0.0	127.9	OK
23.000	102	11	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	22	115.455	0.080	0.000	1.50	0.0	118.4	SURCHARGED
1.023	23	22	115.329	2.197	0.000	2.65	0.0	229.3	SURCHARGED
1.024	24	22	113.879	0.953	0.000	2.69	0.0	229.3	SURCHARGED
1.025	25	22	112.887	0.098	0.000	1.08	0.0	229.3	SURCHARGED
24.000	103	22	119.111	-0.414	0.000	0.10	0.0	21.8	OK
24.001	104	22	118.809	-0.583	0.000	0.11	0.0	63.3	OK
24.002	105	22	118.561	-0.582	0.000	0.12	0.0	63.3	OK
24.003	106	22	118.280	-1.867	0.000	0.00	0.0	63.3	OK
24.004	107	22	115.630	-0.917	0.000	0.00	0.0	63.3	OK
1.026	26	22	111.854	-1.054	0.000	0.01	0.0	288.1	OK
1.027	27	22	109.386	-0.361	0.000	0.06	0.0	288.2	OK
1.028	28	22	106.818	-0.373	0.000	0.04	0.0	288.2	OK
1.029	29	22	98.117	-0.360	0.000	0.05	0.0	288.2	OK
1.030	30	22	92.537	-0.845	0.000	0.02	0.0	288.3	OK
1.031	31	9	91.118	-1.132	0.000	0.02	0.0	288.4	OK
1.032	32	1	91.096	-1.027	0.000	0.02	0.0	288.4	OK
1.033	33	1	91.079	0.806	0.000	0.70	0.0	153.9	SURCHARGED
25.000	108	1	90.992	-0.894	0.000	0.00	0.0	70.3	OK
25.001	109	1	90.991	-0.895	0.000	0.00	0.0	68.2	OK
25.002	110	1	90.990	-0.896	0.000	0.00	0.0	62.2	OK
1.034	109	1	90.989	1.123	0.000	0.27	0.0	61.7	SURCHARGED
1.035	34	1	90.760	4.110	0.000	0.85	0.0	61.7	SURCHARGED

M-EC		Page 95
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 4.000
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 4
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 0.408
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 19.700 Cv (Winter) 0.840

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


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	Rank	Water		Flooded		Pipe		Status
			Level (m)	Surched Depth (m)	Volume (m ³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.000	1	24	116.572	-0.283	0.000	0.01	0.0	0.9	OK
1.001	2	24	116.440	-0.269	0.000	0.02	0.0	1.6	OK
1.002	3	24	116.159	-0.329	0.000	0.04	0.0	4.6	OK
1.003	4	24	116.026	-0.321	0.000	0.05	0.0	8.9	OK
2.000	36	24	118.437	-0.238	0.000	0.09	0.0	8.7	OK
2.001	37	24	118.226	-0.235	0.000	0.11	0.0	11.0	OK
2.002	38	24	117.974	-0.239	0.000	0.09	0.0	12.7	OK
2.003	39	24	117.095	-0.253	0.000	0.06	0.0	14.4	OK
3.000	44	24	116.881	-0.264	0.000	0.04	0.0	2.8	OK
3.001	45	24	116.655	-0.328	0.000	0.04	0.0	4.2	OK
3.002	46	24	116.497	-0.385	0.000	0.05	0.0	9.0	OK
4.000	50	24	117.084	-0.202	0.000	0.02	0.0	2.4	OK
3.003	47	24	116.301	-0.459	0.000	0.04	0.0	12.1	OK
3.004	48	24	116.113	-0.440	0.000	0.06	0.0	15.6	OK
3.005	49	24	115.998	-0.467	0.000	0.07	0.0	15.9	OK
2.004	40	24	115.992	-0.451	0.000	0.09	0.0	30.3	OK
2.005	41	24	115.971	-0.382	0.000	0.08	0.0	33.0	OK
5.000	51	24	116.674	-0.213	0.000	0.01	0.0	1.3	OK
2.006	42	24	115.949	-0.230	0.000	0.08	0.0	35.3	OK
2.007	43	24	115.916	-0.091	0.000	0.09	0.0	36.5	OK
1.004	5	24	115.864	0.016	0.000	0.13	0.0	45.2	SURCHARGED
1.005	6	24	115.837	0.050	0.000	0.08	0.0	50.0	SURCHARGED

M-EC		Page 96
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1


Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
6.000	52	24	116.734	-0.196	0.000	0.04	0.0	1.9	OK
6.001	53	24	116.501	-0.192	0.000	0.05	0.0	1.9	OK
6.002	54	24	116.364	-0.261	0.000	0.04	0.0	3.1	OK
6.003	55	24	116.066	-0.249	0.000	0.07	0.0	4.2	OK
6.004	56	24	115.933	-0.323	0.000	0.05	0.0	6.0	OK
6.005	57	24	115.833	-0.150	0.000	0.03	0.0	6.0	OK
1.006	7	24	115.830	0.200	0.000	0.07	0.0	59.3	SURCHARGED
7.000	58	24	118.061	-0.199	0.000	0.03	0.0	1.2	OK
7.001	59	24	117.893	-0.202	0.000	0.02	0.0	2.8	OK
1.007	8	24	115.652	0.311	0.000	0.08	0.0	62.6	SURCHARGED
8.000	60	24	116.660	-0.196	0.000	0.04	0.0	1.6	OK
8.001	61	24	116.406	-0.278	0.000	0.02	0.0	1.7	OK
8.002	35	24	116.140	-0.288	0.000	0.01	0.0	2.1	OK
1.008	10	24	115.489	0.410	0.000	0.19	0.0	64.3	SURCHARGED
9.000	62	24	119.350	-0.202	0.000	0.02	0.0	1.1	OK
9.001	63	24	118.931	-0.261	0.000	0.04	0.0	4.2	OK
9.002	64	24	118.537	-0.269	0.000	0.02	0.0	5.8	OK
9.003	148	24	115.489	0.010	0.000	0.04	0.0	5.7	SURCHARGED
1.009	11	24	115.486	0.426	0.000	0.10	0.0	70.7	SURCHARGED
1.010	12	24	115.481	0.505	0.000	0.19	0.0	71.6	SURCHARGED
1.011	13	24	115.477	0.523	0.000	0.16	0.0	70.9	SURCHARGED
1.012	14	24	115.473	0.552	0.000	0.08	0.0	74.8	SURCHARGED
1.013	15	24	115.469	0.599	0.000	0.16	0.0	73.8	SURCHARGED
1.014	16	24	115.466	0.619	0.000	0.08	0.0	72.5	SURCHARGED
10.000	65	24	117.110	-0.259	0.000	0.05	0.0	3.1	OK
11.000	136	24	118.016	-0.198	0.000	0.04	0.0	2.1	OK
11.001	137	24	117.711	-0.196	0.000	0.04	0.0	2.3	OK
11.002	138	24	117.452	-0.267	0.000	0.03	0.0	3.6	OK
10.001	66	24	116.872	-0.328	0.000	0.04	0.0	8.3	OK
10.002	67	24	116.383	-0.327	0.000	0.04	0.0	9.2	OK
12.000	9	24	116.987	-0.297	0.000	0.00	0.0	0.3	OK
12.001	75	24	116.397	-0.269	0.000	0.02	0.0	1.8	OK
12.002	76	24	115.990	-0.499	0.000	0.01	0.0	3.4	OK
10.003	68	24	115.875	-0.444	0.000	0.06	0.0	13.9	OK
10.004	69	24	115.678	-0.512	0.000	0.05	0.0	16.5	OK
10.005	70	24	115.486	-0.615	0.000	0.03	0.0	16.5	OK
10.006	71	24	115.478	-0.569	0.000	0.04	0.0	18.9	OK
13.000	147	24	116.913	-0.216	0.000	0.01	0.0	0.6	OK
13.001	112	24	116.394	-0.279	0.000	0.02	0.0	1.4	OK
13.002	113	24	116.066	-0.424	0.000	0.01	0.0	2.0	OK
14.000	114	24	117.283	-0.218	0.000	0.01	0.0	0.4	OK
14.001	115	24	117.028	-0.211	0.000	0.01	0.0	0.8	OK
14.002	116	24	116.577	-0.202	0.000	0.02	0.0	1.6	OK
13.003	77	24	115.999	-0.404	0.000	0.02	0.0	3.9	OK
15.000	134	24	117.222	-0.210	0.000	0.01	0.0	1.5	OK
13.004	135	24	115.911	-0.401	0.000	0.03	0.0	6.5	OK
13.005	78	24	115.627	-0.467	0.000	0.03	0.0	7.4	OK
10.007	72	24	115.474	-0.501	0.000	0.02	0.0	27.2	OK
10.008	73	24	115.464	0.208	0.000	0.01	0.0	25.4	SURCHARGED
10.009	74	24	115.463	0.427	0.000	0.01	0.0	26.0	SURCHARGED

M-EC		Page 97
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage	Network 2014.1	

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	O'flow (l/s)	Pipe Flow (l/s)	Status
1.015	17	24	115.462	0.592	0.000	0.07	0.0	93.9	SURCHARGED
1.016	18	24	115.458	0.691	0.000	0.05	0.0	90.9	SURCHARGED
16.000	142	24	118.168	-0.131	0.000	0.04	0.0	1.7	OK
16.001	143	24	115.462	-0.138	0.000	0.05	0.0	5.7	OK
1.017	18a	24	115.453	0.829	0.000	0.06	0.0	100.7	SURCHARGED
1.018	19	24	115.449	0.931	0.000	0.08	0.0	100.7	SURCHARGED
17.000	118	24	117.161	-0.222	0.000	0.00	0.0	0.1	OK
17.001	119	24	117.012	-0.208	0.000	0.02	0.0	0.7	OK
17.002	120	24	116.877	-0.194	0.000	0.05	0.0	2.2	OK
18.000	129	24	117.448	-0.209	0.000	0.01	0.0	1.1	OK
18.001	130	24	117.030	-0.204	0.000	0.02	0.0	1.5	OK
17.003	121	24	116.424	-0.252	0.000	0.06	0.0	4.9	OK
19.000	131	24	117.343	-0.198	0.000	0.04	0.0	2.1	OK
19.001	132	24	116.815	-0.188	0.000	0.07	0.0	2.8	OK
19.002	133	24	116.645	-0.267	0.000	0.03	0.0	3.2	OK
17.004	122	24	116.182	-0.390	0.000	0.04	0.0	8.7	OK
17.005	123	24	116.060	-0.386	0.000	0.05	0.0	9.9	OK
20.000	139	24	117.854	-0.206	0.000	0.02	0.0	1.5	OK
20.001	140	24	117.050	-0.196	0.000	0.04	0.0	3.3	OK
17.006	124	24	115.926	-0.394	0.000	0.04	0.0	13.8	OK
17.007	125	24	115.453	-0.449	0.000	0.03	0.0	13.8	OK
17.008	126	24	115.451	-0.173	0.000	0.01	0.0	14.6	OK
17.009	127	24	115.447	0.416	0.000	0.02	0.0	14.7	SURCHARGED
17.010	128	24	115.446	0.734	0.000	0.01	0.0	15.4	SURCHARGED
1.019	19a	24	115.445	0.980	0.000	0.09	0.0	118.8	SURCHARGED
21.000	98	23	116.000	-1.200	0.000	0.00	0.0	0.0	OK
1.020	20	24	115.439	1.885	0.000	1.41	0.0	118.6	SURCHARGED
1.021	21	24	115.150	1.741	0.000	1.39	0.0	118.5	SURCHARGED
1.022	22	24	114.809	1.588	0.000	1.45	0.0	118.4	SURCHARGED
22.000	79	24	122.591	-0.268	0.000	0.02	0.0	3.9	OK
22.001	80	24	121.799	-0.265	0.000	0.03	0.0	3.9	OK
22.002	81	24	121.386	-0.262	0.000	0.04	0.0	3.9	OK
22.003	82	24	121.164	-0.258	0.000	0.05	0.0	3.9	OK
22.004	83	24	120.920	-0.320	0.000	0.05	0.0	4.8	OK
22.005	84	24	120.870	-0.318	0.000	0.06	0.0	5.8	OK
22.006	85	24	120.754	-0.318	0.000	0.06	0.0	6.7	OK
22.007	86	24	120.484	-0.387	0.000	0.05	0.0	7.6	OK
22.008	87	24	120.397	-0.386	0.000	0.05	0.0	8.5	OK
22.009	88	24	120.193	-0.378	0.000	0.06	0.0	9.5	OK
22.010	89	24	120.111	-0.382	0.000	0.06	0.0	10.4	OK
22.011	90	24	119.836	-0.397	0.000	0.03	0.0	11.3	OK
22.012	91	24	119.359	-0.394	0.000	0.04	0.0	12.3	OK
22.013	92	24	118.747	-0.489	0.000	0.08	0.0	21.3	OK
22.014	93	24	118.635	-0.556	0.000	0.07	0.0	31.2	OK
22.015	94	24	118.477	-0.611	0.000	0.08	0.0	41.7	OK
22.016	95	24	118.357	-0.647	0.000	0.05	0.0	50.5	OK
22.017	96	24	117.666	-0.680	0.000	0.07	0.0	51.5	OK
22.018	97	24	117.452	-0.690	0.000	0.06	0.0	77.9	OK
22.019	98	24	116.707	-0.832	0.000	0.08	0.0	93.0	OK
22.020	99	24	116.561	-0.828	0.000	0.10	0.0	93.0	OK

M-EC		Page 98
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote Banbury	
Date 04.03.14 File storm.mdx	Designed by DWM Checked by	
Micro Drainage		Network 2014.1

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Rank	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.021	100	24	116.396	-0.936	0.000	0.03	0.0	92.9	OK
23.000	102	9	116.000	-0.150	0.000	0.00	0.0	0.0	OK
22.022	101	24	115.375	0.000	0.000	1.08	0.0	85.2	OK
1.023	23	24	114.638	1.506	0.000	2.30	0.0	198.7	SURCHARGED
1.024	24	24	113.519	0.593	0.000	2.33	0.0	198.7	SURCHARGED
1.025	25	24	112.700	-0.089	0.000	0.94	0.0	198.7	OK
24.000	103	24	119.093	-0.432	0.000	0.07	0.0	15.9	OK
24.001	104	24	118.785	-0.607	0.000	0.08	0.0	46.0	OK
24.002	105	24	118.538	-0.605	0.000	0.08	0.0	46.0	OK
24.003	106	24	118.268	-1.879	0.000	0.00	0.0	46.0	OK
24.004	107	24	115.619	-0.928	0.000	0.00	0.0	46.0	OK
1.026	26	24	111.845	-1.063	0.000	0.01	0.0	239.8	OK
1.027	27	24	109.375	-0.372	0.000	0.05	0.0	239.8	OK
1.028	28	24	106.809	-0.382	0.000	0.03	0.0	239.9	OK
1.029	29	24	98.106	-0.371	0.000	0.04	0.0	240.0	OK
1.030	30	24	92.523	-0.859	0.000	0.02	0.0	240.2	OK
1.031	31	17	91.077	-1.173	0.000	0.02	0.0	240.3	OK
1.032	32	4	91.058	-1.065	0.000	0.01	0.0	240.1	OK
1.033	33	4	91.043	0.770	0.000	0.63	0.0	137.5	SURCHARGED
25.000	108	3	90.951	-0.935	0.000	0.00	0.0	50.3	OK
25.001	109	3	90.949	-0.937	0.000	0.00	0.0	48.3	OK
25.002	110	3	90.948	-0.938	0.000	0.00	0.0	43.7	OK
1.034	109	3	90.946	1.080	0.000	0.27	0.0	61.5	SURCHARGED
1.035	34	3	90.719	4.069	0.000	0.85	0.0	61.5	SURCHARGED