


David R Murray and Associates LLP		Page 1
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Summary Wizard of 15 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.300
 Region Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840


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

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	3	135.421	0.645	0.000	1.23	29.2	SURCHARGED	
1.001	2	2	133.489	-0.090	0.000	0.65	49.8	OK	
1.002	3	3	132.479	-0.073	0.000	0.77	54.4	OK	
2.000	44	3	132.270	-0.105	0.000	0.55	25.5	OK	
1.003	4	3	132.195	0.013	0.000	1.14	82.1	SURCHARGED	
3.000	46	2	134.415	-0.085	0.000	0.38	9.6	OK	
3.001	47	2	133.878	-0.077	0.000	0.47	15.6	OK	
3.002	48	2	133.279	-0.034	0.000	0.94	34.8	OK	
1.004	5	3	132.079	0.054	0.000	0.78	121.1	SURCHARGED	
1.005	6	3	131.720	0.449	0.000	0.82	128.0	SURCHARGED	
4.000	50	2	134.401	-0.073	0.000	0.51	18.6	OK	
4.001	51	3	132.841	0.097	0.000	0.93	64.8	SURCHARGED	
4.002	52	3	132.121	0.446	0.000	0.90	74.5	SURCHARGED	
4.003	53	3	131.998	0.593	0.000	1.30	80.1	SURCHARGED	
4.004	54	3	131.871	0.544	0.000	0.93	108.2	SURCHARGED	
1.006	7	3	131.374	0.536	0.000	0.96	229.5	SURCHARGED	
1.007	8	3	131.233	0.726	0.000	1.53	230.9	SURCHARGED	
1.008	9	4	131.085	0.647	0.000	1.52	236.9	SURCHARGED	
1.009	10	4	130.936	0.581	0.000	1.61	242.6	SURCHARGED	


Summary Wizard of 15 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
5.000	56	2	131.715	0.315	0.000	1.65		27.3	SURCHARGED
5.001	57	3	131.157	-0.064	0.000	0.83		46.0	OK
1.010	11	4	130.790	0.501	0.000	1.39		293.0	SURCHARGED
1.011	12	4	130.487	0.447	0.000	1.24		286.2	SURCHARGED
1.012	13	4	130.378	0.431	0.000	1.31		286.4	SURCHARGED
1.013	14	5	130.262	0.384	0.000	0.76		285.6	SURCHARGED
6.000	59	2	133.510	0.065	0.000	1.09		18.3	SURCHARGED
6.001	60	2	133.268	0.046	0.000	0.72		40.6	SURCHARGED
7.000	66	2	133.175	-0.025	0.000	0.57		9.6	OK
6.002	61	2	133.134	0.216	0.000	0.86		54.8	SURCHARGED
6.003	62	2	132.897	0.329	0.000	1.11		69.7	SURCHARGED
8.000	68	2	133.921	-0.057	0.000	0.68		26.9	OK
6.004	63	2	131.956	0.141	0.000	1.20		96.6	SURCHARGED
9.000	70	2	131.809	-0.109	0.000	0.51		24.6	OK
6.005	64	2	131.474	-0.091	0.000	0.81		158.3	OK
1.014	15	5	130.095	0.519	0.000	1.28		393.9	SURCHARGED
1.015	16	5	129.970	0.471	0.000	1.07		385.6	SURCHARGED
1.016	17	5	129.712	0.457	0.000	1.33		379.4	SURCHARGED
1.017	18	5	129.580	0.380	0.000	1.27		376.8	SURCHARGED
1.018	19	5	129.443	0.308	0.000	1.56		375.8	SURCHARGED
10.000	72	2	131.865	-0.055	0.000	0.71		12.9	OK
10.001	73	2	131.648	-0.052	0.000	0.74		13.0	OK
1.019	20	5	129.303	0.198	0.000	1.73		377.8	SURCHARGED
1.020	21	5	129.161	0.077	0.000	1.20		379.0	SURCHARGED
1.021	22	5	129.015	0.021	0.000	1.19		378.0	SURCHARGED
11.000	75	2	134.278	-0.100	0.000	0.58		32.8	OK
11.001	76	3	134.050	0.208	0.000	0.56		35.3	SURCHARGED
11.002	77	3	133.956	0.398	0.000	1.07		38.6	SURCHARGED
11.003	78	3	133.837	0.398	0.000	0.90		50.3	SURCHARGED
11.004	79	3	133.541	0.501	0.000	1.08		60.1	SURCHARGED
11.005	80	3	133.266	0.475	0.000	1.41		80.3	SURCHARGED
1.022	23	5	128.788	-0.113	0.000	0.99		430.3	OK
1.023	24	5	128.621	-0.173	0.000	0.89		424.8	OK
12.000	82	2	134.279	-0.029	0.000	0.97		29.3	OK
12.001	83	2	133.530	-0.079	0.000	0.73		67.0	OK
12.002	84	2	131.402	0.205	0.000	2.07		69.7	SURCHARGED
1.024	25	6	128.409	-0.172	0.000	0.90		424.4	OK
1.025	26	6	128.240	-0.146	0.000	0.97		420.6	OK
1.026	27	7	128.127	-0.151	0.000	0.95		419.1	OK
1.027	28	7	127.985	-0.179	0.000	0.83		408.9	OK
1.028	29	7	127.824	-0.058	0.000	1.00		381.2	OK
13.000	86	2	129.776	0.131	0.000	1.11		22.3	SURCHARGED
13.001	87	2	129.204	0.010	0.000	1.03		24.8	SURCHARGED
1.029	30	7	127.633	-0.191	0.000	0.86		381.2	OK
1.030	31	7	127.496	-0.208	0.000	0.82		381.2	OK
1.031	32	7	127.225	-0.311	0.000	0.57		381.1	OK
14.000	89	3	134.075	0.238	0.000	0.92		35.6	SURCHARGED
14.001	90	3	133.676	0.294	0.000	1.37		51.6	SURCHARGED
14.002	91	3	133.254	0.093	0.000	1.66		55.1	SURCHARGED

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150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 15 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	2	129.615	0.098	0.000	1.14		44.0	SURCHARGED
21.006	130	2	126.464	-0.098	0.000	1.00		555.4	OK
28.000	159	3	124.950	0.275	0.000	0.17		66.2	SURCHARGED
28.001	160	3	124.943	0.369	0.000	0.29		126.3	SURCHARGED
21.007	131	3	124.938	0.752	0.000	1.29		542.1	SURCHARGED
21.008	132	3	124.762	0.695	0.000	1.23		546.2	SURCHARGED
21.009	133	3	124.532	0.620	0.000	1.17		546.8	SURCHARGED
29.000	162	2	133.396	-0.067	0.000	0.81		51.8	OK
29.001	163	2	132.432	-0.089	0.000	0.65		79.2	OK
29.002	164	2	129.471	0.210	0.000	1.52		86.5	SURCHARGED
30.000	168	2	131.656	0.320	0.000	1.09		69.9	SURCHARGED
30.001	169	2	129.936	-0.091	0.000	0.80		107.5	OK
29.003	165	2	129.081	-0.092	0.000	0.81		217.6	OK
31.000	171	2	128.320	-0.076	0.000	0.75		38.9	OK
31.001	172	2	127.718	-0.074	0.000	0.75		77.3	OK
29.004	166	2	125.612	0.306	0.000	1.91		311.5	SURCHARGED
21.010	134	4	124.251	0.610	0.000	2.62		766.8	SURCHARGED
21.011	135	4	124.023	0.400	0.000	1.75		762.4	SURCHARGED
21.012	136	5	123.793	0.224	0.000	1.45		749.3	SURCHARGED
1.036	37	5	123.508	0.077	0.000	1.96		1374.9	SURCHARGED
1.037	38	10	123.406	0.011	0.000	1.14		1347.5	SURCHARGED
1.038	39	35	122.685	-0.536	0.000	0.08		99.3	OK
1.039	40	35	122.674	-0.383	0.000	0.05		44.5	OK
1.040	41	11	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 5
150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 30 minute 100 year Winter I+0% for SW1.SWS

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 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
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Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.300
 Region Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

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

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	4	135.135	0.359	0.000	1.13	26.9	SURCHARGED	
1.001	2	4	133.478	-0.101	0.000	0.58	44.4	OK	
1.002	3	4	132.465	-0.087	0.000	0.68	48.2	OK	
2.000	44	4	132.256	-0.119	0.000	0.45	21.2	OK	
1.003	4	4	132.119	-0.063	0.000	0.98	70.2	OK	
3.000	46	4	134.408	-0.092	0.000	0.32	8.0	OK	
3.001	47	4	133.869	-0.086	0.000	0.38	12.7	OK	
3.002	48	4	133.261	-0.052	0.000	0.75	27.7	OK	
1.004	5	4	131.910	-0.115	0.000	0.70	107.7	OK	
1.005	6	4	131.571	0.300	0.000	0.76	117.3	SURCHARGED	
4.000	50	4	134.392	-0.082	0.000	0.42	15.4	OK	
4.001	51	4	132.672	-0.072	0.000	0.79	54.8	OK	
4.002	52	4	131.868	0.193	0.000	0.83	68.3	SURCHARGED	
4.003	53	4	131.765	0.360	0.000	1.25	77.2	SURCHARGED	
4.004	54	4	131.678	0.351	0.000	0.84	97.8	SURCHARGED	
1.006	7	4	131.370	0.532	0.000	0.86	206.9	SURCHARGED	
1.007	8	4	131.228	0.721	0.000	1.39	210.4	SURCHARGED	
1.008	9	3	131.133	0.695	0.000	1.39	216.8	SURCHARGED	
1.009	10	3	131.015	0.660	0.000	1.48	222.9	SURCHARGED	

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
5.000	56	4	131.577	0.177	0.000	1.42		23.5	SURCHARGED
5.001	57	4	131.137	-0.084	0.000	0.70		38.9	OK
1.010	11	3	130.892	0.603	0.000	1.31		276.3	SURCHARGED
1.011	12	3	130.564	0.524	0.000	1.16		267.2	SURCHARGED
1.012	13	3	130.455	0.508	0.000	1.23		270.2	SURCHARGED
1.013	14	3	130.341	0.463	0.000	0.72		271.7	SURCHARGED
6.000	59	4	133.411	-0.034	0.000	0.95		15.9	OK
6.001	60	4	133.130	-0.092	0.000	0.64		36.1	OK
7.000	66	4	133.123	-0.077	0.000	0.47		8.0	OK
6.002	61	4	132.913	-0.005	0.000	0.81		51.6	OK
6.003	62	4	132.701	0.133	0.000	1.04		65.7	SURCHARGED
8.000	68	4	133.909	-0.069	0.000	0.57		22.3	OK
6.004	63	4	131.875	0.060	0.000	1.10		88.7	SURCHARGED
9.000	70	4	131.795	-0.123	0.000	0.42		20.6	OK
6.005	64	4	131.455	-0.110	0.000	0.72		139.7	OK
1.014	15	3	130.175	0.599	0.000	1.25		385.7	SURCHARGED
1.015	16	3	130.038	0.539	0.000	1.07		386.3	SURCHARGED
1.016	17	3	129.781	0.526	0.000	1.35		386.7	SURCHARGED
1.017	18	3	129.635	0.435	0.000	1.30		385.6	SURCHARGED
1.018	19	3	129.496	0.360	0.000	1.60		384.0	SURCHARGED
0.000	72	4	131.853	-0.067	0.000	0.59		10.7	OK
0.001	73	4	131.635	-0.065	0.000	0.61		10.7	OK
1.019	20	3	129.354	0.248	0.000	1.78		389.4	SURCHARGED
1.020	21	4	129.207	0.124	0.000	1.25		393.8	SURCHARGED
1.021	22	4	129.056	0.061	0.000	1.23		391.6	SURCHARGED
1.000	75	4	134.263	-0.115	0.000	0.48		27.4	OK
1.001	76	4	133.812	-0.030	0.000	0.52		32.8	OK
1.002	77	4	133.751	0.193	0.000	0.95		34.3	SURCHARGED
1.003	78	4	133.648	0.209	0.000	0.84		46.7	SURCHARGED
1.004	79	4	133.372	0.332	0.000	1.02		56.6	SURCHARGED
1.005	80	4	133.122	0.331	0.000	1.31		74.5	SURCHARGED
1.022	23	4	128.902	0.000	0.000	1.05		455.9	OK
1.023	24	4	128.695	-0.098	0.000	0.94		448.0	OK
2.000	82	4	134.260	-0.048	0.000	0.80		24.2	OK
2.001	83	4	133.510	-0.099	0.000	0.59		54.8	OK
2.002	84	4	131.302	0.105	0.000	1.68		56.6	SURCHARGED
1.024	25	3	128.539	-0.042	0.000	0.95		448.6	OK
1.025	26	3	128.380	-0.006	0.000	1.00		434.1	OK
1.026	27	3	128.219	-0.060	0.000	0.99		434.6	OK
1.027	28	3	128.107	-0.057	0.000	0.89		436.9	OK
1.028	29	5	127.882	0.000	0.000	1.15		437.3	OK
3.000	86	4	129.616	-0.029	0.000	1.00		20.0	OK
3.001	87	4	129.159	-0.035	0.000	0.94		22.7	OK
1.029	30	3	127.688	-0.135	0.000	1.00		441.0	OK
1.030	31	4	127.550						

David R Murray and Associates LLP		Page 8
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl opt.mdx	Designed by Checked by	
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Summary Wizard of 30 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	4	129.469	-0.048	0.000	0.97		37.7	OK
21.006	130	4	126.421	-0.140	0.000	0.89		492.2	OK
28.000	159	4	124.835	0.160	0.000	0.14		55.4	SURCHARGED
28.001	160	4	124.828	0.254	0.000	0.28		122.1	SURCHARGED
21.007	131	4	124.822	0.636	0.000	1.19		496.9	SURCHARGED
21.008	132	4	124.662	0.595	0.000	1.14		509.8	SURCHARGED
21.009	133	4	124.473	0.561	0.000	1.09		509.5	SURCHARGED
29.000	162	4	133.374	-0.089	0.000	0.67		43.1	OK
29.001	163	4	132.414	-0.107	0.000	0.54		66.1	OK
29.002	164	4	129.346	0.085	0.000	1.25		71.1	SURCHARGED
30.000	168	4	131.333	-0.003	0.000	0.99		63.7	OK
30.001	169	4	129.918	-0.109	0.000	0.72		96.6	OK
29.003	165	4	129.059	-0.114	0.000	0.70		187.3	OK
31.000	171	4	128.300	-0.096	0.000	0.62		32.3	OK
31.001	172	4	127.697	-0.095	0.000	0.63		64.5	OK
29.004	166	4	125.490	0.184	0.000	1.64		267.5	SURCHARGED
21.010	134	3	124.260	0.619	0.000	2.47		723.4	SURCHARGED
21.011	135	3	124.080	0.457	0.000	1.66		723.0	SURCHARGED
21.012	136	3	123.895	0.326	0.000	1.39		717.8	SURCHARGED
1.036	37	4	123.646	0.215	0.000	2.04		1436.2	SURCHARGED
1.037	38	8	123.426	0.031	0.000	1.21		1421.1	SURCHARGED
1.038	39	31	122.827	-0.395	0.000	0.09		101.3	OK
1.039	40	31	122.814	-0.242	0.000	0.05		44.5	OK
1.040	41	31	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 9
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl opt.mdx	Designed by Checked by	
XP Solutions Network 2015.1		

Summary Wizard of 60 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland Cv (Summer) 0.750		
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	8	134.738	-0.038	0.000	0.90		21.4	OK
1.001	2	8	133.460	-0.119	0.000	0.45		34.5	OK
1.002	3	8	132.443	-0.109	0.000	0.53		37.1	OK
2.000	44	8	132.236	-0.139	0.000	0.31		14.7	OK
1.003	4	8	132.074	-0.108	0.000	0.73		52.5	OK
3.000	46	8	134.398	-0.102	0.000	0.22		5.5	OK
3.001	47	8	133.857	-0.098	0.000	0.26		8.8	OK
3.002	48	8	133.240	-0.073	0.000	0.52		19.1	OK
1.004	5	8	131.877	-0.148	0.000	0.51		78.4	OK
1.005	6	8	131.138	-0.133	0.000	0.59		92.0	OK
4.000	50	8	134.379	-0.095	0.000	0.29		10.7	OK
4.001	51	8	132.638	-0.106	0.000	0.55		37.9	OK
4.002	52	8	131.543	-0.132	0.000	0.60		49.7	OK
4.003	53	8	131.342	-0.063	0.000	0.98		60.3	OK
4.004	54	8	131.214	-0.113	0.000	0.71		82.6	OK
1.006	7	8	130.748	-0.090	0.000	0.72		171.6	OK
1.007	8	8	130.667	0.160	0.000	1.16		175.8	SURCHARGED
1.008	9	8	130.571	0.133	0.000	1.17		182.7	SURCHARGED
1.009	10	8	130.459	0.104	0.000	1.26		189.4	SURCHARGED

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Summary Wizard of 60 minute 100 year Winter I+0% for SW1.SWS

			Water	Surcharged	Flooded				
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow (l/s)	Status
5.000	56	8	131.379	-0.021	0.000	1.00		16.6	OK
5.001	57	8	131.109	-0.112	0.000	0.50		27.9	OK
1.010	11	8	130.347	0.058	0.000	1.10		232.2	SURCHARGED
1.011	12	8	130.046	0.006	0.000	1.02		236.2	SURCHARGED
1.012	13	7	129.947	0.000	0.000	1.11		243.8	OK
1.013	14	6	129.818	-0.060	0.000	0.65		246.4	OK
6.000	59	8	133.384	-0.061	0.000	0.66		11.1	OK
6.001	60	8	133.102	-0.120	0.000	0.45		25.0	OK
7.000	66	8	133.109	-0.091	0.000	0.33		5.5	OK
6.002	61	8	132.816	-0.102	0.000	0.58		36.9	OK
6.003	62	8	132.493	-0.075	0.000	0.78		48.9	OK
8.000	68	8	133.893	-0.085	0.000	0.39		15.5	OK
6.004	63	8	131.745	-0.070	0.000	0.82		65.6	OK
9.000	70	8	131.776	-0.142	0.000	0.29		14.3	OK
6.005	64	8	131.420	-0.145	0.000	0.52		102.4	OK
1.014	15	6	129.693	0.117	0.000	1.06		327.6	SURCHARGED
1.015	16	6	129.609	0.111	0.000	0.94		340.1	SURCHARGED
1.016	17	6	129.398	0.143	0.000	1.19		340.0	SURCHARGED
1.017	18	6	129.321	0.121	0.000	1.15		340.7	SURCHARGED
1.018	19	6	129.236	0.101	0.000	1.42		340.8	SURCHARGED
10.000	72	8	131.837	-0.083	0.000	0.41		7.4	OK
10.001	73	8	131.618	-0.082	0.000	0.42		7.4	OK
1.019	20	6	129.176	0.070	0.000	1.59		346.2	SURCHARGED
1.020	21	6	129.120	0.037	0.000	1.11		351.9	SURCHARGED
1.021	22	6	128.996	0.002	0.000	1.11		353.2	SURCHARGED
11.000	75	8	134.242	-0.136	0.000	0.33		19.1	OK
11.001	76	8	133.712	-0.130	0.000	0.37		23.5	OK
11.002	77	8	133.479	-0.079	0.000	0.75		27.2	OK
11.003	78	8	133.353	-0.087	0.000	0.69		38.5	OK
11.004	79	8	133.016	-0.024	0.000	0.83		46.0	OK
11.005	80	8	132.845	0.054	0.000	1.07		60.7	SURCHARGED
1.022	23	6	128.739	-0.162	0.000	0.93		403.0	OK
1.023	24	6	128.606	-0.188	0.000	0.86		411.0	OK
12.000	82	8	134.238	-0.070	0.000	0.55		16.8	OK
12.001	83	8	133.484	-0.125	0.000	0.41		37.9	OK
12.002	84	8	131.208	0.011	0.000	1.16		39.2	SURCHARGED
1.024	25	5	128.461	-0.119	0.000	0.92		436.1	OK
1.025	26	5	128.309	-0.077	0.000	1.00		434.0	OK
1.026	27	4	128.207	-0.072	0.000	0.98		430.1	OK
1.027	28	4	128.100	-0.064	0.000	0.88		430.1	OK
1.028	29	4	127.882	0.000	0.000	1.13		431.3	OK
13.000	86	8	129.587	-0.058	0.000	0.69		13.9	OK
13.001	87	8	129.133	-0.061	0.000	0.65		15.8	OK
1.029	30	4	127.686	-0.137	0.000	0.99		438.9	OK
1.030	31	3	127.550	-0.154	0.000	0.95		442.5	OK
1.031	32	3	127.263	-0.273	0.000	0.66		445.5	OK
14.000	89	8	133.740	-0.097	0.000	0.61		23.7	OK
14.001	90	8	133.397	0.015	0.000	0.99		37.4	SURCHARGED
14.002	91	8	133.179	0.018	0.000	1.23		40.7	SURCHARGED

David R Murray and Associates LLP		Page 12
150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 60 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	8	129.428	-0.089	0.000	0.68		26.1	OK
21.006	130	8	126.342	-0.219	0.000	0.64		355.9	OK
28.000	159	7	124.233	-0.442	0.000	0.10		41.6	OK
28.001	160	7	124.207	-0.367	0.000	0.13		59.4	OK
21.007	131	7	124.186	0.000	0.000	0.93		389.6	OK
21.008	132	7	124.077	0.010	0.000	0.91		404.4	SURCHARGED
21.009	133	7	123.957	0.045	0.000	0.87		405.6	SURCHARGED
29.000	162	8	133.347	-0.116	0.000	0.47		30.1	OK
29.001	163	8	132.392	-0.129	0.000	0.38		46.1	OK
29.002	164	8	129.199	-0.062	0.000	0.88		49.8	OK
30.000	168	8	131.252	-0.084	0.000	0.71		45.4	OK
30.001	169	8	129.880	-0.147	0.000	0.52		69.0	OK
29.003	165	8	129.022	-0.151	0.000	0.49		132.7	OK
31.000	171	8	128.275	-0.121	0.000	0.43		22.6	OK
31.001	172	8	127.671	-0.121	0.000	0.44		44.9	OK
29.004	166	8	125.324	0.018	0.000	1.15		188.4	SURCHARGED
21.010	134	7	123.808	0.167	0.000	1.99		582.1	SURCHARGED
21.011	135	6	123.748	0.125	0.000	1.33		580.4	SURCHARGED
21.012	136	6	123.656	0.087	0.000	1.12		576.3	SURCHARGED
1.036	37	6	123.485	0.054	0.000	1.85		1300.7	SURCHARGED
1.037	38	17	123.395	0.000	0.000	1.10		1295.5	OK
1.038	39	28	122.965	-0.256	0.000	0.07		81.8	OK
1.039	40	26	122.947	-0.109	0.000	0.05		44.5	OK
1.040	41	33	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 13
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File sw1 opt.mdx	Designed by <div></div> Checked by	
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Summary Wizard of 120 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.300
 Region Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

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

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	11	134.708	-0.068	0.000	0.58		13.8	OK
1.001	2	11	133.436	-0.143	0.000	0.29		22.2	OK
1.002	3	11	132.417	-0.135	0.000	0.34		23.9	OK
2.000	44	11	132.218	-0.157	0.000	0.20		9.4	OK
1.003	4	11	132.027	-0.155	0.000	0.47		33.7	OK
3.000	46	11	134.387	-0.113	0.000	0.14		3.5	OK
3.001	47	11	133.846	-0.109	0.000	0.17		5.6	OK
3.002	48	11	133.222	-0.091	0.000	0.33		12.2	OK
1.004	5	11	131.842	-0.183	0.000	0.33		50.3	OK
1.005	6	11	131.099	-0.172	0.000	0.38		59.1	OK
4.000	50	11	134.368	-0.106	0.000	0.19		6.8	OK
4.001	51	11	132.610	-0.134	0.000	0.35		24.2	OK
4.002	52	11	131.504	-0.171	0.000	0.38		31.7	OK
4.003	53	11	131.278	-0.127	0.000	0.63		38.6	OK
4.004	54	11	131.169	-0.158	0.000	0.45		53.1	OK
1.006	7	11	130.605	-0.233	0.000	0.47		112.8	OK
1.007	8	11	130.362	-0.145	0.000	0.77		116.1	OK
1.008	9	11	130.298	-0.140	0.000	0.78		121.5	OK
1.009	10	11	130.222	-0.133	0.000	0.84		126.6	OK

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Summary Wizard of 120 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
27.000	157	11	129.395	-0.122	0.000	0.43		16.7	OK
21.006	130	11	126.271	-0.291	0.000	0.41		229.2	OK
28.000	159	11	124.121	-0.554	0.000	0.07		27.0	OK
28.001	160	11	124.012	-0.562	0.000	0.07		29.4	OK
21.007	131	11	123.936	-0.250	0.000	0.64		265.9	OK
21.008	132	11	123.830	-0.237	0.000	0.63		279.7	OK
21.009	133	11	123.728	-0.184	0.000	0.61		286.3	OK
29.000	162	11	133.322	-0.141	0.000	0.30		19.3	OK
29.001	163	11	132.371	-0.150	0.000	0.24		29.5	OK
29.002	164	11	129.157	-0.104	0.000	0.56		31.9	OK
30.000	168	11	131.218	-0.118	0.000	0.46		29.2	OK
30.001	169	11	129.846	-0.181	0.000	0.33		44.4	OK
29.003	165	11	128.989	-0.184	0.000	0.32		85.3	OK
31.000	171	11	128.251	-0.145	0.000	0.28		14.5	OK
31.001	172	11	127.648	-0.144	0.000	0.28		28.8	OK
29.004	166	11	125.145	-0.161	0.000	0.74		120.9	OK
21.010	134	11	123.653	0.012	0.000	1.38		404.0	SURCHARGED
21.011	135	17	123.623	0.000	0.000	0.93		403.9	OK
21.012	136	10	123.569	0.000	0.000	0.79		405.5	OK
1.036	37	24	123.431	0.000	0.000	1.41		991.2	OK
1.037	38	24	123.173	-0.222	0.000	0.84		988.4	OK
1.038	39	18	123.088	-0.133	0.000	0.06		67.2	OK
1.039	40	18	123.059	0.002	0.000	0.05		44.5	SURCHARGED
1.040	41	28	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 17
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl_opt.mdx	Designed by Checked by	
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Summary Wizard of 180 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland Cv (Summer) 0.750		
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	14	134.695	-0.081	0.000	0.44		10.5	OK
1.001	2	14	133.425	-0.154	0.000	0.22		16.8	OK
1.002	3	14	132.404	-0.148	0.000	0.26		18.1	OK
2.000	44	14	132.208	-0.167	0.000	0.15		7.1	OK
1.003	4	14	132.006	-0.176	0.000	0.36		25.6	OK
3.000	46	14	134.383	-0.117	0.000	0.11		2.7	OK
3.001	47	14	133.841	-0.114	0.000	0.13		4.3	OK
3.002	48	14	133.214	-0.099	0.000	0.25		9.3	OK
1.004	5	14	131.826	-0.199	0.000	0.25		38.2	OK
1.005	6	14	131.081	-0.190	0.000	0.29		44.8	OK
4.000	50	14	134.361	-0.113	0.000	0.14		5.2	OK
4.001	51	14	132.597	-0.147	0.000	0.26		18.3	OK
4.002	52	14	131.485	-0.190	0.000	0.29		24.1	OK
4.003	53	14	131.251	-0.154	0.000	0.48		29.3	OK
4.004	54	14	131.148	-0.179	0.000	0.34		40.3	OK
1.006	7	14	130.573	-0.265	0.000	0.36		85.6	OK
1.007	8	14	130.309	-0.198	0.000	0.58		88.2	OK
1.008	9	14	130.244	-0.194	0.000	0.59		92.3	OK
1.009	10	14	130.167	-0.188	0.000	0.64		96.3	OK

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Summary Wizard of 180 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
27.000	157	14	129.380	-0.137	0.000	0.33		12.7	OK
21.006	130	14	126.237	-0.325	0.000	0.31		173.4	OK
28.000	159	14	124.103	-0.572	0.000	0.05		20.5	OK
28.001	160	14	123.996	-0.578	0.000	0.05		22.4	OK
21.007	131	14	123.851	-0.335	0.000	0.48		201.5	OK
21.008	132	21	123.725	-0.342	0.000	0.48		212.8	OK
21.009	133	27	123.584	-0.328	0.000	0.47		219.1	OK
29.000	162	14	133.311	-0.152	0.000	0.23		14.6	OK
29.001	163	14	132.361	-0.160	0.000	0.18		22.4	OK
29.002	164	14	129.138	-0.123	0.000	0.43		24.2	OK
30.000	168	14	131.202	-0.134	0.000	0.35		22.2	OK
30.001	169	14	129.829	-0.198	0.000	0.25		33.7	OK
29.003	165	14	128.972	-0.201	0.000	0.24		64.8	OK
31.000	171	14	128.241	-0.155	0.000	0.21		11.0	OK
31.001	172	14	127.637	-0.155	0.000	0.21		21.8	OK
29.004	166	14	125.097	-0.209	0.000	0.56		91.8	OK
21.010	134	28	123.462	-0.179	0.000	1.06		309.0	OK
21.011	135	27	123.403	-0.220	0.000	0.71		308.7	OK
21.012	136	27	123.351	-0.218	0.000	0.60		309.8	OK
1.036	37	27	123.284	-0.147	0.000	1.10		775.9	OK
1.037	38	23	123.263	-0.131	0.000	0.66		775.4	OK
1.038	39	17	123.156	-0.065	0.000	0.05		61.4	OK
1.039	40	17	123.108	0.051	0.000	0.05		44.5	SURCHARGED
1.040	41	30	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 21
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl_opt.mdx	Designed by Checked by	
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Summary Wizard of 240 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details


Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	16	134.688	-0.088	0.000	0.36		8.6	OK
1.001	2	16	133.418	-0.161	0.000	0.18		13.8	OK
1.002	3	16	132.397	-0.155	0.000	0.21		14.8	OK
2.000	44	16	132.203	-0.172	0.000	0.12		5.8	OK
1.003	4	16	131.992	-0.190	0.000	0.29		21.0	OK
3.000	46	16	134.380	-0.120	0.000	0.09		2.2	OK
3.001	47	16	133.837	-0.118	0.000	0.11		3.5	OK
3.002	48	16	133.209	-0.104	0.000	0.20		7.6	OK
1.004	5	16	131.816	-0.209	0.000	0.20		31.2	OK
1.005	6	16	131.069	-0.202	0.000	0.24		36.7	OK
4.000	50	16	134.358	-0.116	0.000	0.12		4.2	OK
4.001	51	16	132.590	-0.154	0.000	0.22		15.0	OK
4.002	52	16	131.474	-0.201	0.000	0.24		19.7	OK
4.003	53	16	131.235	-0.170	0.000	0.39		24.0	OK
4.004	54	16	131.135	-0.192	0.000	0.28		33.0	OK
1.006	7	16	130.553	-0.285	0.000	0.29		70.1	OK
1.007	8	16	130.279	-0.228	0.000	0.48		72.2	OK
1.008	9	16	130.214	-0.224	0.000	0.48		75.6	OK
1.009	10	16	130.137	-0.218	0.000	0.53		78.9	OK

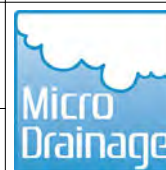
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150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 240 minute 100 year Winter I+0% for SW1.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
5.000	56	16	131.316	-0.084	0.000	0.40		6.7	OK
5.001	57	16	131.064	-0.157	0.000	0.20		11.1	OK
1.010	11	16	130.054	-0.235	0.000	0.46		97.5	OK
1.011	12	16	129.762	-0.278	0.000	0.43		100.1	OK
1.012	13	16	129.676	-0.270	0.000	0.48		104.1	OK
1.013	14	16	129.543	-0.334	0.000	0.29		107.7	OK
6.000	59	16	133.347	-0.098	0.000	0.26		4.4	OK
6.001	60	16	133.060	-0.162	0.000	0.18		9.9	OK
7.000	66	16	133.086	-0.114	0.000	0.13		2.2	OK
6.002	61	16	132.766	-0.152	0.000	0.23		14.6	OK
6.003	62	16	132.428	-0.140	0.000	0.31		19.4	OK
8.000	68	16	133.867	-0.111	0.000	0.16		6.1	OK
6.004	63	16	131.678	-0.137	0.000	0.32		26.0	OK
9.000	70	16	131.744	-0.174	0.000	0.12		5.7	OK
6.005	64	16	131.357	-0.208	0.000	0.21		40.7	OK
1.014	15	16	129.270	-0.306	0.000	0.48		149.0	OK
1.015	16	16	129.175	-0.324	0.000	0.44		157.2	OK
1.016	17	16	129.001	-0.254	0.000	0.55		158.3	OK
1.017	18	16	128.959	-0.241	0.000	0.54		159.0	OK
1.018	19	16	128.917	-0.218	0.000	0.66		159.4	OK
10.000	72	16	131.810	-0.110	0.000	0.16		3.0	OK
10.001	73	16	131.591	-0.109	0.000	0.17		3.0	OK
1.019	20	16	128.893	-0.213	0.000	0.74		162.5	OK
1.020	21	16	128.792	-0.291	0.000	0.53		166.1	OK
1.021	22	16	128.703	-0.291	0.000	0.52		167.2	OK
11.000	75	16	134.207	-0.171	0.000	0.13		7.6	OK
11.001	76	16	133.674	-0.168	0.000	0.15		9.3	OK
11.002	77	16	133.417	-0.141	0.000	0.30		10.8	OK
11.003	78	16	133.294	-0.145	0.000	0.28		15.4	OK
11.004	79	16	132.905	-0.135	0.000	0.34		18.7	OK
11.005	80	16	132.670	-0.121	0.000	0.44		24.9	OK
1.022	23	16	128.542	-0.360	0.000	0.45		194.2	OK
1.023	24	16	128.422	-0.372	0.000	0.42		199.8	OK
12.000	82	16	134.205	-0.103	0.000	0.22		6.7	OK
12.001	83	16	133.444	-0.165	0.000	0.16		15.0	OK
12.002	84	16	131.079	-0.118	0.000	0.46		15.5	OK
1.024	25	16	128.228	-0.353	0.000	0.46		219.2	OK
1.025	26	16	128.054	-0.332	0.000	0.51		222.7	OK
1.026	27	16	127.945	-0.334	0.000	0.51		223.6	OK
1.027	28	16	127.814	-0.350	0.000	0.47		230.6	OK
1.028	29	16	127.588	-0.295	0.000	0.61		231.9	OK
13.000	86	16	129.548	-0.097	0.000	0.28		5.5	OK
13.001	87	16	129.096	-0.098	0.000	0.26		6.3	OK
1.029	30	16	127.503	-0.321	0.000	0.54		239.6	OK
1.030	31	16	127.377	-0.327	0.000	0.53		244.5	OK
1.031	32	16	127.145	-0.391	0.000	0.37		249.5	OK
14.000	89	16	133.687	-0.150	0.000	0.25		9.5	OK
14.001	90	16	133.257	-0.125	0.000	0.41		15.5	OK
14.002	91	16	133.049	-0.111	0.000	0.51		16.9	OK

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
15.000	100	16	136.538	-0.088	0.000	0.35		6.5	OK
15.001	101	16	135.748	-0.078	0.000	0.46		11.2	OK
16.000	105	16	133.227	-0.162	0.000	0.18		10.3	OK
16.001	106	16	132.635	-0.118	0.000	0.46		17.6	OK
15.002	102	16	132.266	-0.142	0.000	0.55		29.3	OK
15.003	103	16	132.221	-0.152	0.000	0.49		34.5	OK
14.003	92	16	131.970	-0.182	0.000	0.53		56.4	OK
14.004	93	16	131.789	-0.254	0.000	0.39		63.1	OK
14.005	94	16	131.696	-0.242	0.000	0.44		69.0	OK
14.006	95	16	131.565	-0.284	0.000	0.29		80.7	OK
14.007	96	16	131.141	-0.342	0.000	0.13		86.3	OK
17.000	108	16	132.290	-0.166	0.000	0.16		10.2	OK
17.001	109	16	131.757	-0.158	0.000	0.19		13.3	OK
17.002	110	16	131.049	-0.128	0.000	0.39		26.0	OK
17.003	111	16	129.887	-0.198	0.000	0.25		28.2	OK
17.004	112	16	129.610	-0.145	0.000	0.53		29.7	OK
17.005	113	16	129.559	-0.151	0.000	0.49		36.5	OK
18.000	117	16	129.357	-0.106	0.000	0.19		3.3	OK
19.000	119	16	131.374	-0.113	0.000	0.14		4.2	OK
17.006	114	16	128.935	-0.171	0.000	0.57		44.0	OK
17.007	115	16	128.852	-0.238	0.000	0.29		50.7	OK
14.008	97	16	128.348	-0.219	0.000	0.52		136.9	OK
14.009	98	16	128.068	-0.283	0.000	0.30		143.1	OK
1.032	33	16	126.597	-0.392	0.000	0.37		386.5	OK
1.033	34	16	125.914	-0.396	0.000	0.36		389.7	OK
20.000	121	16	127.936	-0.098	0.000	0.26		10.1	OK
20.001	122	16	126.189	-0.082	0.000	0.42		12.8	OK
1.034	35	16	125.140	-0.347	0.000	0.51		408.5	OK
1.035	36	16	125.016	-0.228	0.000	0.87		408.3	OK
21.000	124	16	133.299	-0.106	0.000	0.19		5.8	OK
21.001	125	16	131.977	-0.164	0.000	0.17		17.4	OK
21.002	126	16	129.472	-0.224	0.000	0.15		29.9	OK
21.003	127	16	126.587	-0.220	0.000	0.36		37.9	OK
22.000	138	16	134.995	-0.105	0.000	0.20		4.8	OK
22.001	139	16	133.736	-0.158	0.000	0.19		17.7	OK
23.000	144	16	135.583	-0.117	0.000	0.11		2.6	OK
23.001	145	16	134.624	-0.097	0.000	0.27		9.9	OK
24.000	148	16	134.854	-0.101	0.000	0.23		7.6	OK
23.002	146	16	132.879	-0.152	0.000	0.23		23.9	OK
22.002	140	16	131.050	-0.203	0.000	0.23		46.5	OK
22.003	141	16	129.690	-0.196	0.000	0.27		49.4	OK
22.004	142	16	129.082	-0.193	0.000	0.28		50.8	OK
21.004	128	16	126.447	-0.219	0.000	0.41		93.2	OK
25.000	150	16	136.585	-0.090	0.000	0.34		5.8	OK

David R Murray and Associates LLP		Page 25
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl_opt.mdx	Designed by Checked by	
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Summary Wizard of 360 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details


Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	20	134.679	-0.097	0.000	0.27		6.4	OK
1.001	2	20	133.409	-0.170	0.000	0.13		10.3	OK
1.002	3	20	132.386	-0.166	0.000	0.16		11.1	OK
2.000	44	20	132.196	-0.179	0.000	0.09		4.4	OK
1.003	4	20	131.977	-0.205	0.000	0.22		15.7	OK
3.000	46	20	134.375	-0.125	0.000	0.07		1.6	OK
3.001	47	20	133.833	-0.122	0.000	0.08		2.6	OK
3.002	48	20	133.202	-0.111	0.000	0.15		5.7	OK
1.004	5	20	131.803	-0.222	0.000	0.15		23.5	OK
1.005	6	20	131.056	-0.215	0.000	0.18		27.5	OK
4.000	50	20	134.354	-0.120	0.000	0.09		3.2	OK
4.001	51	20	132.579	-0.165	0.000	0.16		11.2	OK
4.002	52	20	131.460	-0.215	0.000	0.18		14.8	OK
4.003	53	20	131.215	-0.190	0.000	0.29		18.0	OK
4.004	54	20	131.120	-0.207	0.000	0.21		24.8	OK
1.006	7	20	130.530	-0.308	0.000	0.22		52.6	OK
1.007	8	20	130.245	-0.262	0.000	0.36		54.2	OK
1.008	9	20	130.178	-0.260	0.000	0.36		56.8	OK
1.009	10	20	130.101	-0.254	0.000	0.39		59.3	OK

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150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 480 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	22	134.673	-0.103	0.000	0.22		5.2	OK
1.001	2	22	133.403	-0.176	0.000	0.11		8.4	OK
1.002	3	22	132.380	-0.172	0.000	0.13		9.1	OK
2.000	44	22	132.191	-0.184	0.000	0.08		3.6	OK
1.003	4	22	131.967	-0.215	0.000	0.18		12.8	OK
3.000	46	22	134.372	-0.128	0.000	0.05		1.3	OK
3.001	47	22	133.830	-0.125	0.000	0.06		2.1	OK
3.002	48	22	133.198	-0.115	0.000	0.12		4.6	OK
1.004	5	22	131.795	-0.230	0.000	0.12		19.1	OK
1.005	6	22	131.046	-0.225	0.000	0.14		22.4	OK
4.000	50	22	134.350	-0.124	0.000	0.07		2.6	OK
4.001	51	22	132.573	-0.171	0.000	0.13		9.2	OK
4.002	52	22	131.451	-0.224	0.000	0.15		12.0	OK
4.003	53	22	131.204	-0.201	0.000	0.24		14.7	OK
4.004	54	22	131.110	-0.217	0.000	0.17		20.2	OK
1.006	7	22	130.515	-0.323	0.000	0.18		42.8	OK
1.007	8	22	130.224	-0.283	0.000	0.29		44.1	OK
1.008	9	22	130.158	-0.280	0.000	0.30		46.2	OK
1.009	10	22	130.080	-0.275	0.000	0.32		48.2	OK

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.0000	56	22	131.300	-0.100	0.000	0.25	4.1	OK
5.001	57	22	131.048	-0.173	0.000	0.12	6.8	OK
1.010	11	22	130.002	-0.287	0.000	0.28	59.7	OK
1.011	12	22	129.701	-0.339	0.000	0.27	61.3	OK
1.012	13	22	129.614	-0.332	0.000	0.29	63.8	OK
1.013	14	22	129.500	-0.378	0.000	0.18	66.1	OK
6.000	59	22	133.335	-0.110	0.000	0.16	2.7	OK
6.001	60	22	133.046	-0.176	0.000	0.11	6.1	OK
7.000	66	22	133.078	-0.122	0.000	0.08	1.3	OK
6.002	61	22	132.749	-0.169	0.000	0.14	8.9	OK
6.003	62	22	132.409	-0.159	0.000	0.19	11.8	OK
8.000	68	22	133.859	-0.119	0.000	0.10	3.7	OK
6.004	63	22	131.658	-0.157	0.000	0.20	15.9	OK
9.000	70	22	131.732	-0.186	0.000	0.07	3.5	OK
6.005	64	22	131.336	-0.229	0.000	0.13	24.9	OK
1.014	15	22	129.199	-0.377	0.000	0.30	91.5	OK
1.015	16	22	129.109	-0.390	0.000	0.27	96.6	OK
1.016	17	22	128.907	-0.348	0.000	0.34	97.5	OK
1.017	18	22	128.861	-0.339	0.000	0.33	98.0	OK
1.018	19	22	128.815	-0.320	0.000	0.41	98.2	OK
10.000	72	22	131.801	-0.119	0.000	0.10	1.8	OK
10.001	73	22	131.582	-0.118	0.000	0.10	1.8	OK
1.019	20	22	128.790	-0.315	0.000	0.46	100.2	OK
1.020	21	22	128.717	-0.366	0.000	0.32	102.5	OK
1.021	22	22	128.628	-0.366	0.000	0.32	103.2	OK
11.000	75	22	134.195	-0.183	0.000	0.08	4.6	OK
11.001	76	22	133.662	-0.180	0.000	0.09	5.7	OK
11.002	77	22	133.398	-0.160	0.000	0.18	6.6	OK
11.003	78	22	133.276	-0.163	0.000	0.17	9.4	OK
11.004	79	22	132.884	-0.156	0.000	0.21	11.4	OK
11.005	80	22	132.645	-0.146	0.000	0.27	15.2	OK
1.022	23	22	128.467	-0.434	0.000	0.28	120.2	OK
1.023	24	22	128.351	-0.443	0.000	0.26	123.8	OK
12.000	82	22	134.194	-0.114	0.000	0.13	4.1	OK
12.001	83	22	133.431	-0.178	0.000	0.10	9.2	OK
12.002	84	22	131.053	-0.144	0.000	0.28	9.5	OK
1.024	25	22	128.152	-0.429	0.000	0.29	136.1	OK
1.025	26	22	127.972	-0.414	0.000	0.32	138.5	OK
1.026	27	22	127.864	-0.415	0.000	0.32	139.0	OK
1.027	28	22	127.737	-0.427	0.000	0.29	143.7	OK
1.028	29	22	127.494	-0.388	0.000	0.38	144.5	OK
13.000	86	22	129.536	-0.109	0.000	0.17	3.4	OK
13.001	87	22	129.084	-0.110	0.000	0.16	3.8	OK
1.029	30	22	127.419	-0.405	0.000	0.34	149.7	OK
1.030	31	22	127.295	-0.409	0.000	0.33	153.0	OK
1.031	32	22	127.080	-0.456	0.000	0.23	156.3	OK
14.000	89	22	133.670	-0.167	0.000	0.15	5.8	

David R Murray and Associates LLP		Page 33
150-156 St Johns Road Edinburgh RH12 8AY		
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Summary Wizard of 600 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details


Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	26	134.670	-0.106	0.000	0.19		4.4	OK
1.001	2	26	133.400	-0.179	0.000	0.09		7.2	OK
1.002	3	26	132.376	-0.176	0.000	0.11		7.7	OK
2.000	44	26	132.187	-0.188	0.000	0.06		3.0	OK
1.003	4	26	131.960	-0.222	0.000	0.15		10.9	OK
3.000	46	26	134.370	-0.130	0.000	0.05		1.1	OK
3.001	47	26	133.827	-0.128	0.000	0.05		1.8	OK
3.002	48	26	133.195	-0.118	0.000	0.11		3.9	OK
1.004	5	26	131.790	-0.235	0.000	0.11		16.3	OK
1.005	6	26	131.041	-0.230	0.000	0.12		19.1	OK
4.000	50	26	134.348	-0.126	0.000	0.06		2.2	OK
4.001	51	26	132.569	-0.175	0.000	0.11		7.8	OK
4.002	52	26	131.445	-0.230	0.000	0.12		10.2	OK
4.003	53	26	131.196	-0.209	0.000	0.20		12.5	OK
4.004	54	26	131.103	-0.224	0.000	0.15		17.2	OK
1.006	7	26	130.504	-0.334	0.000	0.15		36.4	OK
1.007	8	26	130.210	-0.297	0.000	0.25		37.5	OK
1.008	9	26	130.143	-0.295	0.000	0.25		39.4	OK
1.009	10	26	130.064	-0.291	0.000	0.27		41.1	OK


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David R Murray and Associates LLP		Page 36
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File sw1 opt.mdx	Designed by <div></div> Checked by	
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Network 2015.1

Summary Wizard of 600 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	26	129.348	-0.169	0.000	0.14		5.4	OK
21.006	130	26	126.163	-0.398	0.000	0.13		74.0	OK
28.000	159	26	124.071	-0.604	0.000	0.02		8.7	OK
28.001	160	26	123.967	-0.607	0.000	0.02		9.5	OK
21.007	131	29	123.728	-0.458	0.000	0.21		86.1	OK
21.008	132	23	123.708	-0.359	0.000	0.20		91.2	OK
21.009	133	21	123.681	-0.231	0.000	0.20		94.1	OK
29.000	162	26	133.285	-0.178	0.000	0.10		6.2	OK
29.001	163	26	132.338	-0.183	0.000	0.08		9.5	OK
29.002	164	26	129.100	-0.161	0.000	0.18		10.3	OK
30.000	168	26	131.168	-0.168	0.000	0.15		9.4	OK
30.001	169	26	129.792	-0.235	0.000	0.11		14.4	OK
29.003	165	26	128.937	-0.236	0.000	0.10		27.6	OK
31.000	171	26	128.216	-0.180	0.000	0.09		4.7	OK
31.001	172	26	127.612	-0.180	0.000	0.09		9.3	OK
29.004	166	26	125.005	-0.301	0.000	0.24		39.1	OK
21.010	134	15	123.641	0.000	0.000	0.46		133.2	OK
21.011	135	21	123.623	0.000	0.000	0.31		133.3	OK
21.012	136	22	123.567	-0.002	0.000	0.26		134.4	OK
1.036	37	20	123.431	0.000	0.000	0.50		353.0	OK
1.037	38	14	123.395	0.000	0.000	0.30		351.8	OK
1.038	39	9	123.292	0.070	0.000	0.07		79.5	SURCHARGED
1.039	40	11	123.331	0.275	0.000	0.05		44.5	SURCHARGED
1.040	41	14	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 37
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File sw1 opt.mdx	Designed by <div></div> Checked by	
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Summary Wizard of 720 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.300
 Region Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

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


Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	28	134.666	-0.110	0.000	0.16		3.9	OK
1.001	2	28	133.397	-0.182	0.000	0.08		6.3	OK
1.002	3	28	132.374	-0.178	0.000	0.10		6.8	OK
2.000	44	28	132.184	-0.191	0.000	0.06		2.7	OK
1.003	4	28	131.954	-0.228	0.000	0.13		9.6	OK
3.000	46	28	134.369	-0.131	0.000	0.04		1.0	OK
3.001	47	28	133.826	-0.129	0.000	0.05		1.6	OK
3.002	48	28	133.194	-0.119	0.000	0.09		3.4	OK
1.004	5	28	131.786	-0.239	0.000	0.09		14.2	OK
1.005	6	28	131.036	-0.235	0.000	0.11		16.7	OK
4.000	50	28	134.346	-0.128	0.000	0.05		1.9	OK
4.001	51	28	132.566	-0.178	0.000	0.10		6.8	OK
4.002	52	28	131.441	-0.234	0.000	0.11		9.0	OK
4.003	53	28	131.190	-0.215	0.000	0.18		10.9	OK
4.004	54	28	131.098	-0.229	0.000	0.13		15.0	OK
1.006	7	28	130.497	-0.341	0.000	0.13		31.9	OK
1.007	8	28	130.200	-0.307	0.000	0.22		32.9	OK
1.008	9	28	130.132	-0.306	0.000	0.22		34.5	OK
1.009	10	28	130.054	-0.301	0.000	0.24		36.0	OK

David R Murray and Associates LLP		Page 40
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl opt.mdx	Designed by Checked by	
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Summary Wizard of 720 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	28	129.344	-0.173	0.000	0.12		4.7	OK
21.006	130	28	126.155	-0.406	0.000	0.12		64.9	OK
28.000	159	28	124.067	-0.608	0.000	0.02		7.7	OK
28.001	160	28	123.959	-0.615	0.000	0.02		8.3	OK
21.007	131	28	123.734	-0.452	0.000	0.18		75.5	OK
21.008	132	22	123.713	-0.354	0.000	0.18		80.0	OK
21.009	133	20	123.684	-0.228	0.000	0.18		82.5	OK
29.000	162	28	133.282	-0.181	0.000	0.09		5.5	OK
29.001	163	28	132.334	-0.187	0.000	0.07		8.3	OK
29.002	164	28	129.096	-0.165	0.000	0.16		9.0	OK
30.000	168	28	131.164	-0.172	0.000	0.13		8.3	OK
30.001	169	28	129.789	-0.238	0.000	0.09		12.6	OK
29.003	165	28	128.933	-0.240	0.000	0.09		24.2	OK
31.000	171	28	128.213	-0.183	0.000	0.08		4.1	OK
31.001	172	28	127.609	-0.183	0.000	0.08		8.1	OK
29.004	166	28	124.995	-0.311	0.000	0.21		34.3	OK
21.010	134	18	123.641	0.000	0.000	0.40		116.8	OK
21.011	135	19	123.623	0.000	0.000	0.27		116.9	OK
21.012	136	20	123.567	-0.002	0.000	0.23		117.9	OK
1.036	37	18	123.431	0.000	0.000	0.44		310.0	OK
1.037	38	15	123.395	0.000	0.000	0.26		308.7	OK
1.038	39	8	123.298	0.077	0.000	0.07		83.6	SURCHARGED
1.039	40	9	123.354	0.298	0.000	0.05		44.5	SURCHARGED
1.040	41	13	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 41
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl_opt.mdx	Designed by Checked by	
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Summary Wizard of 960 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details


Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	31	134.662	-0.114	0.000	0.13		3.2	OK
1.001	2	31	133.392	-0.187	0.000	0.07		5.1	OK
1.002	3	31	132.368	-0.184	0.000	0.08		5.5	OK
2.000	44	31	132.181	-0.194	0.000	0.05		2.2	OK
1.003	4	31	131.947	-0.235	0.000	0.11		7.8	OK
3.000	46	31	134.368	-0.132	0.000	0.03		0.8	OK
3.001	47	31	133.824	-0.131	0.000	0.04		1.3	OK
3.002	48	31	133.190	-0.123	0.000	0.08		2.8	OK
1.004	5	31	131.779	-0.246	0.000	0.07		11.6	OK
1.005	6	31	131.031	-0.240	0.000	0.09		13.6	OK
4.000	50	31	134.344	-0.130	0.000	0.04		1.6	OK
4.001	51	31	132.561	-0.183	0.000	0.08		5.5	OK
4.002	52	31	131.435	-0.240	0.000	0.09		7.3	OK
4.003	53	31	131.180	-0.225	0.000	0.14		8.9	OK
4.004	54	31	131.091	-0.236	0.000	0.10		12.2	OK
1.006	7	31	130.486	-0.352	0.000	0.11		25.9	OK
1.007	8	31	130.185	-0.322	0.000	0.18		26.7	OK
1.008	9	31	130.118	-0.320	0.000	0.18		28.0	OK
1.009	10	31	130.039	-0.316	0.000	0.19		29.2	OK

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David R Murray and Associates LLP		Page 44
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File sw1 opt.mdx	Designed by <div></div> Checked by	
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Summary Wizard of 960 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	31	129.339	-0.178	0.000	0.10		3.8	OK
21.006	130	31	126.145	-0.417	0.000	0.09		52.7	OK
28.000	159	31	124.055	-0.620	0.000	0.02		6.2	OK
28.001	160	31	123.948	-0.626	0.000	0.02		6.8	OK
21.007	131	30	123.721	-0.465	0.000	0.15		61.3	OK
21.008	132	24	123.703	-0.364	0.000	0.15		64.9	OK
21.009	133	22	123.678	-0.234	0.000	0.14		67.0	OK
29.000	162	31	133.277	-0.186	0.000	0.07		4.4	OK
29.001	163	31	132.330	-0.191	0.000	0.06		6.8	OK
29.002	164	31	129.089	-0.172	0.000	0.13		7.3	OK
30.000	168	31	131.159	-0.177	0.000	0.10		6.7	OK
30.001	169	31	129.782	-0.245	0.000	0.08		10.2	OK
29.003	165	31	128.926	-0.247	0.000	0.07		19.6	OK
31.000	171	31	128.208	-0.188	0.000	0.06		3.3	OK
31.001	172	31	127.604	-0.188	0.000	0.06		6.6	OK
29.004	166	31	124.980	-0.326	0.000	0.17		27.8	OK
21.010	134	20	123.641	0.000	0.000	0.32		94.8	OK
21.011	135	22	123.623	0.000	0.000	0.22		94.9	OK
21.012	136	21	123.567	-0.002	0.000	0.19		95.7	OK
1.036	37	12	123.431	0.000	0.000	0.36		251.8	OK
1.037	38	12	123.395	0.000	0.000	0.21		250.6	SURCHARGED
1.038	39	10	123.290	0.068	0.000	0.07		77.9	SURCHARGED
1.039	40	10	123.335	0.279	0.000	0.05		44.5	SURCHARGED
1.040	41	2	122.093	-0.914	0.000	0.04		44.5	OK

David R Murray and Associates LLP		Page 45
150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File swl_opt.mdx	Designed by Checked by	
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Summary Wizard of 1440 minute 100 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details


Rainfall Model	FSR	Ratio R	0.300
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

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

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	35	134.657	-0.119	0.000	0.10		2.4	OK
1.001	2	35	133.386	-0.193	0.000	0.05		3.8	OK
1.002	3	35	132.362	-0.190	0.000	0.06		4.1	OK
2.000	44	35	132.177	-0.198	0.000	0.03		1.6	OK
1.003	4	35	131.938	-0.244	0.000	0.08		5.8	OK
3.000	46	35	134.366	-0.134	0.000	0.02		0.6	OK
3.001	47	35	133.822	-0.133	0.000	0.03		1.0	OK
3.002	48	35	133.186	-0.127	0.000	0.06		2.1	OK
1.004	5	35	131.770	-0.255	0.000	0.06		8.6	OK
1.005	6	35	131.021	-0.250	0.000	0.07		10.1	OK
4.000	50	35	134.341	-0.133	0.000	0.03		1.2	OK
4.001	51	35	132.554	-0.190	0.000	0.06		4.1	OK
4.002	52	35	131.425	-0.250	0.000	0.07		5.4	OK
4.003	53	35	131.170	-0.235	0.000	0.11		6.6	OK
4.004	54	35	131.082	-0.245	0.000	0.08		9.1	OK
1.006	7	35	130.473	-0.365	0.000	0.08		19.3	OK
1.007	8	35	130.165	-0.342	0.000	0.13		19.9	OK
1.008	9	35	130.098	-0.340	0.000	0.13		20.9	OK
1.009	10	35	130.018	-0.337	0.000	0.14		21.8	OK

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150-156 St Johns Road Edinburgh RH12 8AY		
Date 21/09/2015 12:25 File sw1 opt.mdx	Designed by <div></div> Checked by	
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Summary Wizard of 1440 minute 100 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	35	129.332	-0.185	0.000	0.07		2.9	OK
21.006	130	35	126.128	-0.434	0.000	0.07		39.2	OK
28.000	159	35	124.041	-0.634	0.000	0.01		4.6	OK
28.001	160	35	123.935	-0.639	0.000	0.01		5.0	OK
21.007	131	35	123.663	-0.523	0.000	0.11		45.6	OK
21.008	132	31	123.610	-0.457	0.000	0.11		48.3	OK
21.009	133	25	123.601	-0.311	0.000	0.11		49.9	OK
29.000	162	35	133.271	-0.192	0.000	0.05		3.3	OK
29.001	163	35	132.325	-0.196	0.000	0.04		5.0	OK
29.002	164	35	129.083	-0.178	0.000	0.10		5.5	OK
30.000	168	35	131.153	-0.183	0.000	0.08		5.0	OK
30.001	169	35	129.773	-0.254	0.000	0.06		7.6	OK
29.003	165	35	128.918	-0.255	0.000	0.05		14.6	OK
31.000	171	35	128.202	-0.194	0.000	0.05		2.5	OK
31.001	172	35	127.598	-0.194	0.000	0.05		4.9	OK
29.004	166	35	124.962	-0.344	0.000	0.13		20.7	OK
21.010	134	25	123.587	-0.054	0.000	0.24		70.6	OK
21.011	135	25	123.571	-0.052	0.000	0.16		70.7	OK
21.012	136	25	123.515	-0.055	0.000	0.14		71.3	OK
1.036	37	15	123.431	0.000	0.000	0.27		188.1	OK
1.037	38	13	123.395	0.000	0.000	0.16		187.3	OK
1.038	39	13	123.252	0.030	0.000	0.06		65.9	SURCHARGED
1.039	40	14	123.288	0.232	0.000	0.05		44.5	SURCHARGED
1.040	41	6	122.093	-0.914	0.000	0.04		44.5	OK