

CGH02 - Rossett Road, Rossett: Southern Parcel Surface Water (SAB) Details Rev 4.0	Date: 20/10/0023		
	Designed by: CP	Checked by:	Approved By:
	Report Details: Type: Junctions Summary Storm Phase: Surface Network 1		
Betts-Associates: Old Marsh Farm Barns, Welsh Road, Sealand Flintshire, CH5 2LY			





Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S9	Rossett: 100 years: +40 %: 15 mins: Winter	13.194	12.025	12.303	0.278	50.6	0.398	0.000	47.5	30.973	Surcharged
S8	Rossett: 100 years: +40 %: 15 mins: Winter	13.058	12.133	12.424	0.291	42.3	0.417	0.000	38.4	24.162	Surcharged
S7	Rossett: 100 years: +40 %: 15 mins: Winter	13.282	12.377	12.536	0.159	38.8	0.227	0.000	35.4	17.920	OK
S5	Rossett: 100 years: +40 %: 15 mins: Winter	13.123	11.964	12.495	0.531	118.3	1.352	0.000	113.7	95.113	Surcharged
S4	Rossett: 100 years: +40 %: 15 mins: Winter	13.401	12.060	12.632	0.572	76.8	1.456	0.000	80.6	64.196	Surcharged
S3	Rossett: 100 years: +40 %: 15 mins: Winter	13.616	12.138	12.708	0.570	59.1	1.008	0.000	61.9	47.703	Surcharged
S2	Rossett: 100 years: +40 %: 15 mins: Winter	13.520	12.184	12.756	0.572	56.2	1.010	0.000	59.1	47.841	Surcharged
S11	Rossett: 100 years: +40 %: 15 mins: Winter	13.097	11.781	12.175	0.394	71.5	0.696	0.000	69.0	42.243	Surcharged
S10	Rossett: 100 years: +40 %: 15 mins: Winter	12.782	11.940	12.243	0.303	26.7	0.535	0.000	24.0	12.353	Surcharged
S6	Rossett: 100 years: +40 %: 15 mins: Winter	13.013	11.917	12.315	0.398	113.7	1.013	0.000	113.4	94.959	Surcharged
Ex Manhole	Rossett: 100 years: +40 %: 15 mins: Winter	11.258	10.878	10.893	0.015	0.3	0.000	0.000	0.3	0.300	OK
S19HB	Rossett: 100 years: +40 %: 15 mins: Winter	12.500	10.984	11.265	0.281	2.3	0.402	0.000	0.3	0.323	Surcharged
S18 Catchpit	Rossett: 100 years: +40 %: 15 mins: Winter	12.346	11.166	11.376	0.210	60.3	0.301	0.000	58.9	66.881	OK
S17 (Downstream Def)	Rossett: 100 years: +40 %: 15 mins: Winter	12.295	11.195	11.434	0.239	63.0	0.829	0.000	60.3	68.275	OK
S15	Rossett: 100 years: +40 %: 15 mins: Winter	12.374	11.365	11.461	0.096	7.4	0.065	0.000	7.5	7.182	OK
S14	Rossett: 100 years: +40 %: 15 mins: Winter	12.453	11.480	11.547	0.067	7.4	0.045	0.000	7.4	6.761	OK
S13	Rossett: 100 years: +40 %: 15 mins: Winter	12.547	11.593	11.660	0.067	7.4	0.049	0.000	7.4	7.164	OK
S12HB	Rossett: 100 years: +40 %: 15 mins: Winter	12.702	11.616	11.814	0.198	7.4	0.504	0.000	7.4	7.474	OK
S1	Rossett: 100 years: +40 %: 15 mins: Winter	13.518	12.235	12.763	0.528	29.7	0.933	0.000	24.9	20.026	Surcharged
S16	Rossett: 100 years: +40 %: 15 mins: Winter	12.301	11.237	11.455	0.218	36.7	0.147	0.000	37.1	40.957	OK
Catch Pit SA (3)	Rossett: 100 years: +40 %: 240 mins: Winter	13.000	11.866	13.004	1.138	1.8	3.819	3.639	1.8	9.676	Flood

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Catch Pit SA (2)	Rossett: 100 years: +40 %: 120 mins: Winter	13.007	11.866	13.009	1.143	2.3	2.380	2.198	2.1	6.282	Flood
Catch Pit SA (1)	Rossett: 100 years: +40 %: 15 mins: Winter	13.106	11.866	12.939	1.073	6.9	0.171	0.000	6.0	2.546	Flood Risk
Catch Pit SA	Rossett: 100 years: +40 %: 15 mins: Winter	13.148	11.866	12.939	1.073	5.3	0.171	0.000	4.4	1.810	Surcharged
Catch Pit (25)	Rossett: 100 years: +40 %: 15 mins: Winter	13.300	11.702	12.350	0.648	14.4	0.103	0.000	12.2	6.819	Surcharged
Plot 55	Rossett: 100 years: +40 %: 15 mins: Winter	12.900	11.949	12.160	0.211	5.5	0.034	0.000	3.7	2.530	Surcharged
Plot 52	Rossett: 100 years: +40 %: 15 mins: Winter	12.763	12.012	12.240	0.228	8.5	0.036	0.000	6.4	3.918	Surcharged
Plot 53-54 (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.762	12.100	12.322	0.222	12.4	0.035	0.000	10.3	6.517	Surcharged
Plot 50-51	Rossett: 100 years: +40 %: 15 mins: Winter	12.850	12.041	12.531	0.490	13.0	0.078	0.000	9.8	6.002	Surcharged
Plot 50-51 (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.850	11.938	12.247	0.309	17.1	0.049	0.000	15.4	9.360	Surcharged
Catch Pit (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.875	11.414	12.083	0.669	15.4	0.106	0.000	15.0	9.310	Surcharged
Catch Pit	Rossett: 100 years: +40 %: 15 mins: Winter	12.927	11.249	12.069	0.820	6.3	0.130	0.000	5.3	2.692	Surcharged
Catch Pit (14)	Rossett: 100 years: +40 %: 15 mins: Winter	12.916	11.254	12.068	0.814	6.2	0.130	0.000	5.2	2.626	Surcharged
Catch Pit (16)	Rossett: 100 years: +40 %: 15 mins: Winter	12.847	11.139	12.069	0.930	7.1	0.148	0.000	6.1	2.920	Surcharged
Catch Pit (17)	Rossett: 100 years: +40 %: 15 mins: Winter	12.795	11.063	12.069	1.006	8.5	0.160	0.000	7.5	3.480	Surcharged
Catch Pit (20)	Rossett: 100 years: +40 %: 15 mins: Winter	12.581	11.013	12.069	1.056	8.5	0.168	0.000	7.5	3.412	Surcharged
Catch Pit (21)	Rossett: 100 years: +40 %: 15 mins: Winter	12.565	10.940	12.069	1.129	7.2	0.179	0.000	6.2	2.747	Surcharged
Catch Pit (22)	Rossett: 100 years: +40 %: 15 mins: Winter	12.459	10.850	12.068	1.218	5.9	0.194	0.000	4.9	2.049	Surcharged
Catch Pit (36)	Rossett: 100 years: +40 %: 15 mins: Winter	12.444	10.826	11.497	0.671	15.0	0.107	0.000	14.1	7.241	Surcharged
Manhole (20)	Rossett: 100 years: +40 %: 15 mins: Winter	12.331	11.453	11.507	0.054	2.4	0.009	0.000	1.5	1.099	OK
Manhole (21)	Rossett: 100 years: +40 %: 15 mins: Winter	12.300	11.600	11.638	0.038	3.7	0.006	0.000	3.7	1.708	OK
Catch Pit (35)	Rossett: 100 years: +40 %: 15 mins: Winter	12.317	11.255	11.499	0.244	14.3	0.039	0.000	13.3	7.508	Surcharged
Plot27-30	Rossett: 100 years: +40 %: 15 mins: Winter	12.300	11.351	11.516	0.165	6.4	0.026	0.000	5.3	3.527	Surcharged
Catch Pit (23)	Rossett: 100 years: +40 %: 15 mins: Winter	12.399	10.943	12.069	1.126	11.6	0.179	0.000	10.6	4.782	Surcharged
Catch Pit (19)	Rossett: 100 years: +40 %: 15 mins: Winter	12.600	10.965	12.069	1.104	9.1	0.176	0.000	8.1	3.659	Surcharged
Catch Pit (18)	Rossett: 100 years: +40 %: 15 mins: Winter	12.610	11.022	12.069	1.047	8.8	0.166	0.000	7.8	3.567	Surcharged

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Catch Pit (15)	Rossett: 100 years: +40 %: 15 mins: Winter	12.750	11.415	12.068	0.653	5.5	0.104	0.000	5.4	2.483	Surcharged
Manhole (28)	Rossett: 100 years: +40 %: 15 mins: Winter	12.850	12.442	12.740	0.298	4.7	0.047	0.000	2.9	2.155	Flood Risk
Manhole (29)	Rossett: 100 years: +40 %: 15 mins: Winter	12.888	12.346	12.714	0.368	2.9	0.058	0.000	4.6	2.204	Flood Risk
Manhole (30)	Rossett: 100 years: +40 %: 15 mins: Winter	12.986	12.275	12.666	0.391	5.8	0.062	0.000	7.7	4.307	Surcharged
Manhole (31)	Rossett: 100 years: +40 %: 15 mins: Winter	13.007	12.204	12.652	0.448	18.4	0.071	0.000	15.7	12.277	Surcharged
Catch Pit (32)	Rossett: 100 years: +40 %: 15 mins: Winter	13.100	11.687	12.560	0.872	21.2	0.139	0.000	18.8	14.998	Surcharged
Catch Pit (27)	Rossett: 100 years: +40 %: 15 mins: Winter	13.266	11.787	12.635	0.848	7.3	0.135	0.000	4.7	3.602	Surcharged
Manhole (34)	Rossett: 100 years: +40 %: 15 mins: Winter	13.697	12.446	12.788	0.342	7.0	0.054	0.000	3.9	3.231	Surcharged
Catch Pit (30)	Rossett: 100 years: +40 %: 15 mins: Winter	13.665	11.920	12.769	0.849	10.9	0.135	0.000	7.8	6.762	Surcharged
Catch Pit (31)	Rossett: 100 years: +40 %: 15 mins: Winter	13.300	12.006	12.845	0.839	12.6	0.133	0.000	14.5	10.623	Surcharged
Manhole (37)	Rossett: 100 years: +40 %: 15 mins: Winter	13.300	12.503	12.890	0.387	15.6	0.062	0.000	12.6	10.338	Surcharged
Manhole (38)	Rossett: 100 years: +40 %: 15 mins: Winter	13.250	12.548	12.921	0.373	18.9	0.059	0.000	15.6	10.340	Surcharged
Manhole (39)	Rossett: 100 years: +40 %: 15 mins: Winter	13.250	12.616	12.928	0.312	6.3	0.050	0.000	4.0	2.909	Surcharged
Catch Pit (29)	Rossett: 100 years: +40 %: 15 mins: Winter	13.617	11.942	12.960	1.018	26.2	0.162	0.000	25.5	21.081	Surcharged
Manhole (41)	Rossett: 100 years: +40 %: 15 mins: Winter	13.391	12.453	13.115	0.662	23.5	0.105	0.000	21.7	17.910	Surcharged
Manhole (42)	Rossett: 100 years: +40 %: 15 mins: Winter	13.350	12.480	13.182	0.702	29.2	0.112	0.000	21.2	17.266	Flood Risk
Manhole (43)	Rossett: 100 years: +40 %: 15 mins: Winter	13.350	12.611	13.231	0.620	6.0	0.099	0.000	8.2	3.827	Flood Risk
Manhole (44)	Rossett: 100 years: +40 %: 15 mins: Winter	13.425	12.656	13.241	0.585	3.8	0.093	0.000	5.8	3.001	Flood Risk
Manhole (45)	Rossett: 100 years: +40 %: 15 mins: Winter	13.528	12.318	12.665	0.347	8.4	0.055	0.000	5.4	3.900	Surcharged
Catch Pit (28)	Rossett: 100 years: +40 %: 15 mins: Winter	13.497	11.800	12.648	0.848	12.6	0.135	0.000	9.7	7.210	Surcharged
Catch Pit (33)	Rossett: 100 years: +40 %: 15 mins: Winter	13.266	11.704	12.507	0.803	8.4	0.128	0.000	6.4	3.908	Surcharged
Manhole (48)	Rossett: 100 years: +40 %: 15 mins: Winter	13.210	12.313	12.446	0.133	6.4	0.021	0.000	3.1	2.943	Surcharged
Catch Pit (34)	Rossett: 100 years: +40 %: 15 mins: Winter	13.204	11.782	12.435	0.653	9.9	0.104	0.000	7.0	6.203	Surcharged
Catch Pit SA (4)	Rossett: 100 years: +40 %: 15 mins: Winter	13.500	12.073	13.104	1.031	7.8	0.164	0.000	7.0	3.057	Surcharged
Catch Pit SA (5)	Rossett: 100 years: +40 %: 15 mins: Winter	13.505	12.063	13.106	1.043	4.8	0.166	0.000	4.1	1.632	Surcharged

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Catch Pit SA (6)	Rossett: 100 years: +40 %: 15 mins: Winter	13.572	12.094	13.106	1.012	5.3	0.161	0.000	4.6	1.902	Surcharged
Catch Pit SA (7)	Rossett: 100 years: +40 %: 15 mins: Winter	13.600	12.071	13.106	1.035	6.8	0.164	0.000	6.0	2.561	Surcharged
Catch Pit SA (8)	Rossett: 100 years: +40 %: 15 mins: Winter	13.700	12.126	13.104	0.978	7.1	0.156	0.000	6.3	2.809	Surcharged
Catch Pit SA (9)	Rossett: 100 years: +40 %: 15 mins: Winter	13.700	12.123	13.104	0.981	5.0	0.156	0.000	4.3	1.811	Surcharged
Manhole	Rossett: 100 years: +40 %: 15 mins: Winter	13.400	12.835	13.293	0.458	6.3	0.073	0.000	3.8	2.912	Flood Risk
Manhole (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.761	11.990	12.297	0.307	25.9	0.266	0.000	23.7	13.726	Surcharged
Manhole (2)	Rossett: 100 years: +40 %: 15 mins: Winter	12.752	11.950	12.275	0.325	37.8	0.281	0.000	35.7	20.258	Surcharged
Manhole (3)	Rossett: 100 years: +40 %: 15 mins: Winter	12.898	11.844	12.159	0.315	43.9	0.273	0.000	42.0	26.340	Surcharged
Manhole (4)	Rossett: 100 years: +40 %: 15 mins: Winter	12.725	11.675	12.084	0.409	42.0	0.354	0.000	40.9	25.596	Surcharged
Simple Junction	Rossett: 100 years: +40 %: 15 mins: Winter		11.920	12.232	0.312	42.1			40.1	24.167	Surcharged
Plot 53-54	Rossett: 100 years: +40 %: 15 mins: Winter	12.800	12.279	12.374	0.095	5.5	0.015	0.000	3.8	2.550	OK
Plot27-30 (1)	Rossett: 100 years: +40 %: 1440 mins: Winter	12.100	11.685	12.110	0.425	0.5	10.437	10.371	0.1	8.720	Flood
Plot27-30 (2)	Rossett: 100 years: +40 %: 1440 mins: Winter	12.100	11.597	12.110	0.513	0.9	10.447	10.367	0.3	24.366	Flood
Plot27-30 (3)	Rossett: 100 years: +40 %: 15 mins: Winter	12.205	11.564	11.619	0.055	3.7	0.009	0.000	3.6	1.762	OK
Plot27-30 (4)	Rossett: 100 years: +40 %: 15 mins: Winter	12.301	11.364	11.522	0.158	7.5	0.025	0.000	6.4	3.540	Surcharged
Road Gully (1)	Rossett: 100 years: +40 %: 1440 mins: Winter	12.080	11.630	12.111	0.481	1.9	31.085	31.014	0.6	25.122	Flood
Road Gully	Rossett: 100 years: +40 %: 1440 mins: Winter	12.080	11.630	12.111	0.481	1.8	31.068	30.996	0.6	23.536	Flood
Highway Drain (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.190	11.454	11.672	0.218	19.5	0.189	0.000	17.9	9.704	Surcharged
Highway Drain	Rossett: 100 years: +40 %: 15 mins: Winter	12.280	11.557	11.606	0.049	10.5	0.043	0.000	10.3	4.910	OK
Gully	Rossett: 100 years: +40 %: 1440 mins: Winter	12.010	11.560	12.111	0.551	7.0	101.066	100.994	0.5	20.070	Flood
IC Plot 53 (1)	Rossett: 100 years: +40 %: 15 mins: Winter	12.650	12.350	12.389	0.039	1.5	0.006	0.000	1.5	0.712	OK
IC Plot 53	Rossett: 100 years: +40 %: 15 mins: Winter	12.650	12.350	12.386	0.036	1.3	0.006	0.000	1.3	0.619	OK