

## Appendix B. RAFTS Model Data



Riverstone Precinct

Existing Catchment Data

Catchment	Total Area (ha)	Percentage impervious	Impervious Area (ha)	Pervious Area (ha)	Catchment Slope (%)	Pervious Manning's 'n'	Impervious Manning's 'n'
CA01	3.529	5%	0.176	3.353	4.84	0.04	0.025
CA02	6.298	5%	0.315	5.983	5.08	0.04	0.025
CA03	15.124	5%	0.756	14.368	3.27	0.04	0.025
CA04	8.747	5%	0.437	8.31	5.04	0.04	0.025
CA05	18.541	5%	0.927	17.614	5.53	0.04	0.025
CA06	5.994	5%	0.300	5.694	6.61	0.04	0.025
CA07	17.942	5%	0.897	17.045	4.79	0.04	0.025
CA08	8.888	5%	0.444	8.444	6.44	0.04	0.025
CA10	22.056	5%	1.103	20.953	4.19	0.04	0.025
CA11	9.134	5%	0.457	8.677	7.42	0.04	0.025
CA12	22.360	5%	1.118	21.242	5.93	0.04	0.025
CA13	20.215	5%	1.011	19.204	4.77	0.04	0.025
CA14	8.298	5%	0.415	7.883	5.65	0.04	0.025
CA15	24.647	5%	1.232	23.415	3.73	0.04	0.025
CA16	11.017	5%	0.551	10.466	3.36	0.04	0.025
CA17	29.304	5%	1.465	27.839	5.91	0.04	0.025
CA18	28.511	5%	1.426	27.085	5.02	0.04	0.025
CA19	16.465	5%	0.823	15.642	5.17	0.04	0.025
CF01	9.560	27%	2.581	6.979	2.64	0.04	0.025
CF02	23.358	27%	6.307	17.051	4.42	0.04	0.025
CF03	2.414	5%	0.121	2.293	5.08	0.04	0.025
CF04	19.599	27%	5.292	14.307	4.02	0.04	0.025
CF05	9.693	15%	1.454	8.239	5.94	0.04	0.025
CF06	17.718	15%	2.658	15.06	4.52	0.04	0.025
CF07	12.106	15%	1.816	10.29	5.63	0.04	0.025
CF08	13.399	15%	2.010	11.389	3.33	0.04	0.025
CF09	6.703	15%	1.005	5.698	5.48	0.04	0.025
CF10	13.652	15%	2.048	11.604	5.81	0.04	0.025
CF11	13.235	15%	1.985	11.25	6.05	0.04	0.025
CF12	8.168	15%	1.225	6.943	6.26	0.04	0.025
CF13	13.875	25%	3.469	10.406	4.21	0.04	0.025
CF14	18.003	25%	4.501	13.502	4.37	0.04	0.025
CF15	17.692	25%	4.423	13.269	3.64	0.04	0.025
CF16	17.753	25%	4.438	13.315	2.78	0.04	0.025
CF17	7.892	25%	1.973	5.919	4.54	0.04	0.025
CF18	9.436	25%	2.359	7.077	6.83	0.04	0.025
CF19	15.715	25%	3.929	11.786	4.06	0.04	0.025
CF20	7.101	25%	1.775	5.326	6.58	0.04	0.025
CF21	14.261	25%	3.565	10.696	4.82	0.04	0.025
CF22	8.937	35%	3.128	5.809	3.19	0.04	0.025
CF23	10.586	35%	3.705	6.881	4.61	0.04	0.025
CF24	11.419	35%	3.997	7.422	5.69	0.04	0.025
CF25	4.969	35%	1.739	3.23	7.22	0.04	0.025
CF26	21.629	35%	7.570	14.059	4.44	0.04	0.025
CF27	15.441	35%	5.404	10.037	4.46	0.04	0.025
CF28	5.698	35%	1.994	3.704	3.27	0.04	0.025
CF29	12.305	35%	4.307	7.998	4.49	0.04	0.025
CF30	7.751	35%	2.713	5.038	2.64	0.04	0.025
CF31	17.169	35%	6.009	11.16	6.14	0.04	0.025
CF32	4.914	35%	1.720	3.194	4.51	0.04	0.025
CF33	9.943	35%	3.480	6.463	3.77	0.04	0.025
CF34	10.711	35%	3.749	6.962	4.08	0.04	0.025
CF35	17.038	35%	5.963	11.075	4.19	0.04	0.025
CF36	8.166	35%	2.858	5.308	5.98	0.04	0.025
CF37	15.786	35%	5.525	10.261	6.72	0.04	0.025
CF38	8.943	35%	3.130	5.813	8.25	0.04	0.025
CF39	17.140	35%	5.999	11.141	6.3	0.04	0.025
CF40	10.946	35%	3.831	7.115	5.25	0.04	0.025
CF41	13.897	35%	4.864	9.033	5.32	0.04	0.025
CF42	19.066	35%	6.673	12.393	4.63	0.04	0.025
CF43	19.101	30%	5.730	13.371	4.64	0.04	0.025
CF44	9.167	30%	2.750	6.417	6.16	0.04	0.025
CF45	19.116	30%	5.735	13.381	5.86	0.04	0.025
CF46	9.892	25%	2.473	7.419	4.53	0.04	0.025
CF47	16.697	25%	4.174	12.523	5.12	0.04	0.025
CF48	7.395	25%	1.849	5.546	5.04	0.04	0.025
CF49	13.528	25%	3.382	10.146	5.47	0.04	0.025
CF50	9.433	25%	2.358	7.075	5.2	0.04	0.025
CF51	16.625	25%	4.156	12.469	5.4	0.04	0.025
CF52	33.832	25%	8.458	25.374	4.47	0.04	0.025
CF53	6.480	25%	1.620	4.86	4.04	0.04	0.025
CF54	14.500	25%	3.625	10.875	6.17	0.04	0.025
CF55	25.531	25%	6.383	19.148	4.82	0.04	0.025
CF56	5.573	25%	1.393	4.18	4.52	0.04	0.025
CF57	6.995	25%	1.749	5.246	4.18	0.04	0.025
CF58	14.227	25%	3.557	10.67	4.24	0.04	0.025
CF59	9.450	15%	1.420	8.03	3.2	0.04	0.025
SRBR	190.200	18%	34.236	155.964	1.72	0.04	0.025
SRCU	40.900	10%	4.090	36.81	2.04	0.04	0.025
	1269.499		260.283	1009.216			

Riverstone Precinct

Proposed Catchment Data

Catchment	Total Area (ha)	Percentage Impervious	Impervious Area (ha)	Pervious Area (ha)	Slope (%)	Pervious Manning's 'n'	Impervious Manning's 'n'
CA01	3.941	85%	3.349	0.591	3.93	0.035	0.015
CA03	12.826	85%	10.902	1.924	2.44	0.035	0.015
CA04	10.353	81%	8.393	1.960	4.75	0.035	0.015
CA05A	3.388	85%	2.880	0.508	6.52	0.035	0.015
CA05B	15.270	5%	0.764	14.507	5.51	0.035	0.015
CA06	6.028	66%	4.005	2.023	6.61	0.035	0.015
CA07	26.846	5%	1.342	25.503	5.81	0.04	0.025
CA10	17.311	5%	0.866	16.445	4.19	0.04	0.025
CA11	9.146	5%	0.457	8.688	7.42	0.04	0.025
CA12	22.634	5%	1.132	21.502	2.77	0.04	0.025
CA12B	10.033	85%	8.528	1.505	1.2	0.035	0.015
CA13	5.581	85%	4.744	0.837	4.57	0.035	0.015
CA14	19.208	85%	16.327	2.881	4.84	0.035	0.015
CA15	19.435	85%	16.520	2.915	2.12	0.035	0.015
CA16	10.543	85%	8.962	1.581	3.36	0.035	0.015
CA17	11.122	5%	0.556	10.566	5.31	0.04	0.025
CA17B	3.816	85%	3.244	0.572	5.9	0.035	0.015
CA18A	9.268	85%	7.878	1.390	5.01	0.035	0.015
CA18B	11.481	5%	0.574	10.907	5	0.035	0.015
CA19	32.428	85%	27.563	4.864	5.02	0.035	0.015
CA20	10.144	5%	0.507	9.637	5.17	0.04	0.025
CF01	9.561	85%	8.127	1.434	2.64	0.035	0.015
CF02	21.891	85%	18.607	3.284	4.42	0.035	0.015
CF03	2.414	85%	2.052	0.362	5.08	0.035	0.015
CF04	19.599	85%	16.659	2.940	4.02	0.035	0.015
CF05	11.043	85%	9.387	1.656	5.94	0.035	0.015
CF06	10.887	85%	9.254	1.633	4.61	0.035	0.015
CF07	15.476	85%	13.155	2.321	1.00	0.035	0.015
CF08	16.173	85%	13.747	2.426	1.88	0.035	0.015
CF09	21.809	83%	18.079	3.729	6.34	0.035	0.015
CF11	9.537	85%	8.106	1.430	5.95	0.035	0.015
CF12	11.658	85%	9.910	1.749	6.26	0.035	0.015
CF13	13.634	85%	11.589	2.045	4.21	0.035	0.015
CF14	18.002	85%	15.302	2.700	4.37	0.035	0.015
CF15	17.692	85%	15.038	2.654	3.64	0.035	0.015
CF16	17.754	85%	15.091	2.663	2.78	0.035	0.015
CF17	4.816	85%	4.094	0.722	5.03	0.035	0.015
CF18	9.018	85%	7.665	1.353	6.83	0.035	0.015
CF19	16.896	85%	14.362	2.534	4.06	0.035	0.015
CF20	9.903	85%	8.417	1.485	6.58	0.035	0.015
CF21	14.261	85%	12.122	2.139	4.82	0.035	0.015
CF22	3.967	85%	3.372	0.595	2.60	0.035	0.015
CF23	16.515	85%	14.037	2.477	4.37	0.035	0.015
CF24	15.850	85%	13.473	2.378	5.68	0.035	0.015
CF26	21.629	85%	18.385	3.244	4.44	0.035	0.015
CF27	15.441	85%	13.125	2.316	4.46	0.035	0.015
CF28	5.698	85%	4.843	0.855	3.27	0.035	0.015
CF29	12.304	85%	10.459	1.846	4.49	0.035	0.015
CF30	7.750	85%	6.588	1.163	2.64	0.035	0.015
CF31A	6.219	85%	5.286	0.933	4.14	0.035	0.015
CF31B	9.679	85%	8.227	1.452	6.38	0.035	0.015
CF32	4.913	85%	4.176	0.737	4.51	0.035	0.015
CF33	9.943	85%	8.452	1.492	3.77	0.035	0.015
CF34	10.711	85%	9.104	1.607	4.08	0.035	0.015
CF35	17.038	85%	14.482	2.556	4.19	0.035	0.015
CF36	10.986	85%	9.338	1.648	2.05	0.035	0.015
CF37	25.455	85%	21.637	3.818	3.11	0.035	0.015
CF38	7.189	85%	6.111	1.078	6.42	0.035	0.015
CF40	14.511	85%	12.334	2.177	3.74	0.035	0.015
CF41A	6.976	85%	5.929	1.046	7.53	0.035	0.015
CF41B	7.037	85%	5.981	1.055	4.13	0.035	0.015
CF42	19.066	85%	16.206	2.860	4.63	0.035	0.015
CF43	19.101	85%	16.236	2.865	4.64	0.035	0.015
CF44	9.167	85%	7.792	1.375	6.16	0.035	0.015
CF45	19.115	85%	16.248	2.867	5.86	0.035	0.015
CF46	17.134	85%	14.564	2.570	2.13	0.035	0.015
CF47	16.666	85%	14.166	2.500	5.12	0.035	0.015
CF49	17.715	85%	15.058	2.657	5.46	0.035	0.015
CF50	9.882	85%	8.400	1.482	4.38	0.035	0.015
CF51	17.054	85%	14.495	2.558	5.52	0.035	0.015
CF52A	15.741	53%	8.410	7.331	3.89	0.035	0.015
CF52B	17.224	85%	14.641	2.584	4.4	0.035	0.015
CF53	6.049	85%	5.142	0.907	0.82	0.035	0.015
CF54	14.350	85%	12.198	2.153	6.17	0.035	0.015
CF55A	13.350	85%	11.348	2.003	5.02	0.035	0.015
CF55B	3.424	85%	2.910	0.514	3.51	0.035	0.015
CF55C	7.515	25%	1.879	5.636	3.97	0.04	0.025
CF56	5.575	85%	4.739	0.836	4.52	0.035	0.015
CF57	2.397	25%	0.599	1.798	1.26	0.04	0.025
CF58	19.477	25%	4.869	14.608	3.63	0.04	0.025
CF59	9.450	15%	8.030	1.42	3.2	0.035	0.015
SRBR	190.200	18%	34.236	155.964	1.72	0.04	0.025
SRUC	40.900	10%	4.090	36.810	2.04	0.04	0.025
	1263.188		791.848	471.340			



## Appendix C. Peak Flows from RAFTS



Riverstone Precinct

Peak Total Flows (m<sup>3</sup>/s) - Existing Scenario

	Average Recurrence Interval (ARI)							
	2	5	10	20	50	100	500	PMF
CA01	0.231	0.38	0.52	0.672	0.81	0.967	1.585	5.179
CA02	1.665	2.446	3.031	3.838	4.702	5.591	8.982	35.089
CA03	1.32	1.977	2.449	3.135	3.869	4.574	7.544	28.749
CA04	0.526	0.826	1.058	1.381	1.722	2.053	3.417	11.987
CA05	1.068	1.576	1.989	2.575	3.189	3.804	6.568	24.469
CA06	0.404	0.712	0.912	1.163	1.408	1.688	2.731	8.846
CA07	10.183	15.021	17.697	21.218	25.724	29.782	46.926	193.364
CA08	0.575	0.949	1.218	1.587	1.923	2.309	3.77	12.728
CA10	9.282	13.703	16.177	19.49	23.934	27.779	43.991	173.659
CA11	0.613	1.046	1.333	1.717	2.116	2.503	4.038	13.365
CA12	8.143	12.049	14.202	17.542	21.443	24.962	39.846	151.99
CA13	3.25	4.8	5.639	6.969	8.501	9.939	16.071	61.675
CA14	0.518	0.835	1.088	1.408	1.732	2.066	3.404	11.647
CA15	1.882	2.717	3.25	4.099	5.05	5.97	9.652	38.426
CA16	0.6	0.877	1.07	1.348	1.674	2.04	3.471	13.735
CA17	4.019	5.866	6.994	8.973	10.906	12.757	20.946	78.774
CA18	2.499	3.651	4.484	5.729	7.064	8.348	14.506	54.619
CA19	0.943	1.391	1.733	2.286	2.826	3.369	5.812	21.725
CF01	32.325	45.401	52.844	62.938	74.497	84.776	127.707	553.167
CF02	1.807	2.68	3.209	3.943	4.649	5.414	8.891	29.276
CF03	0.172	0.297	0.378	0.504	0.617	0.718	1.15	3.604
CF04	31.675	44.538	51.85	61.779	73.374	83.525	126.253	551.749
CF05	4.404	6.368	7.452	8.817	10.705	12.346	18.985	77.96
CF06	4.185	6.064	7.105	8.505	10.313	11.916	18.383	73.822
CF07	3.573	5.202	6.119	7.47	8.97	10.409	16.321	61.167
CF08	3.074	4.506	5.354	6.631	7.949	9.178	14.582	51.996
CF09	0.43	0.692	0.9	1.187	1.486	1.773	3.01	9.652
CF10	2.07	2.969	3.649	4.573	5.536	6.408	9.934	35.633
CF11	1.339	2.078	2.61	3.329	4.04	4.744	7.481	26.042
CF12	0.545	0.879	1.133	1.474	1.846	2.226	3.665	11.82
CF13	27.8	39.654	46.835	56.422	67.474	77.099	117.983	492.074
CF14	2.78	4.34	5.299	6.654	8.063	9.532	15.373	55.785
CF15	2.019	3.054	3.671	4.53	5.427	6.405	10.664	40
CF16	1.269	1.812	2.179	2.661	3.105	3.569	5.893	20.259
CF17	26.679	38.57	45.629	55.06	65.786	75.235	115.439	471.769
CF18	26.628	38.51	45.565	54.992	65.697	75.125	115.275	470.997
CF19	26.572	38.445	45.496	54.913	65.571	74.982	115.078	469.948
CF20	26.409	38.23	45.257	54.646	65.251	74.638	114.622	466.704
CF21	26.358	38.168	45.191	54.575	65.149	74.518	114.446	465.581
CF22	26.185	37.942	44.921	54.27	64.775	74.111	113.877	462.013
CF23	1.84	2.825	3.457	4.294	5.154	5.984	9.553	32.816
CF24	1.344	1.955	2.37	2.958	3.554	4.194	6.812	22.327
CF25	0.561	0.848	1.058	1.341	1.57	1.822	2.799	7.825

CF26	25.496	37.03	43.864	53.035	63.225	72.402	111.514	447.574
CF27	1.73	2.454	2.917	3.575	4.157	4.872	7.873	26.289
CF28	0.559	0.823	0.971	1.186	1.419	1.64	2.672	7.707
CF29	1.224	1.759	2.123	2.597	3.031	3.485	5.696	16.452
CF30	24.256	35.472	42.125	50.962	60.562	69.45	107.378	429.773
CF31	24.124	35.283	41.909	50.707	60.236	69.09	106.885	427.955
CF32	23.83	34.904	41.485	50.213	59.602	68.387	105.87	424.184
CF33	23.745	34.8	41.37	50.069	59.401	68.164	105.545	422.6
CF34	2.13	3.203	3.848	4.81	5.638	6.569	10.504	34.012
CF35	1.668	2.377	2.812	3.46	3.961	4.601	7.372	21.8
CF36	22.628	33.339	39.728	48.131	57.002	65.484	101.78	404.046
CF37	1.922	2.944	3.608	4.567	5.406	6.263	10.102	33.409
CF38	0.97	1.51	1.825	2.332	2.706	3.159	4.912	13.77
CF39	21.227	31.543	37.695	45.735	54.064	62.188	97.124	383.375
CF40	1.941	3.017	3.642	4.549	5.329	6.2	9.714	31.069
CF41	1.39	2.051	2.437	3.032	3.491	4.105	6.584	19.091
CF42	21.685	32.119	38.362	46.504	55.033	63.268	98.665	389.782
CF43	19.225	28.866	34.779	42.373	50.352	58.094	90.5	356.832
CF44	2.306	3.547	4.338	5.44	6.59	7.708	12.606	42.981
CF45	1.823	2.709	3.268	4.057	4.894	5.747	9.581	32.987
CF46	20.812	31.031	37.123	45.059	53.268	61.328	95.748	377.596
CF47	16.559	24.87	30.211	36.979	43.782	50.727	79.689	314.967
CF48	16.833	25.224	30.604	37.42	44.317	51.314	80.532	319.029
CF49	4.976	7.585	9.282	11.531	13.563	15.767	25.96	84.842
CF50	0.749	1.152	1.433	1.807	2.175	2.547	4.289	13.185
CF51	1.241	1.949	2.383	2.976	3.542	4.197	6.959	21.976
CF52	2.431	3.567	4.297	5.293	6.138	7.15	11.886	40.285
CF53	15.848	23.867	29.066	35.649	42.185	48.977	77.301	303.865
CF54	12.486	18.136	21.853	26.6	31.03	35.964	56.782	240.783
CF55	11.79	17.039	20.55	25.071	29.224	33.986	53.971	231.246
CF56	10.861	15.213	18.219	22.112	25.578	29.756	47.581	212.74
CF57	10.744	14.753	17.598	21.291	24.564	28.555	45.687	208.522
CF58	1.061	1.598	1.944	2.444	2.86	3.368	5.625	18.423
CF59	0.518	0.767	0.956	1.231	1.506	1.811	3.172	11.934
node1	32.325	45.401	52.844	62.938	74.497	84.776	127.707	553.167
node2	31.277	44.012	51.251	61.08	72.65	82.822	126.009	550.46
OUTLET	39.991	56.415	65.977	78.461	90.296	102.179	153.223	647.669
SRBR	8.852	12.007	14.149	16.887	19.182	22.129	34.667	155.513
SRCU	1.603	2.567	3.062	3.737	4.32	5.033	8.445	38.697

Appendix C - Peak Flows from RAFTS

Riverstone Precinct

Peak Total Flows (m<sup>3</sup>/s) - Proposed Scenario

	Average Recurrence Interval (ARI)							
	2	5	10	20	50	100	500	PMF
CA01	0.904	1.167	1.33	1.55	1.706	1.911	2.764	9.219
CA02	3.997	5.203	5.922	6.851	7.598	8.451	12.366	38.719
CA03	3.997	5.203	5.922	6.851	7.598	8.451	12.366	38.719
CA04	2.239	2.906	3.339	3.9	4.278	4.801	7.02	23.62
CA05A	1.124	1.537	1.786	2.108	2.648	3.779	8.242	34.44
CA05B	3.053	4.017	4.6	5.422	6.044	6.846	10.018	34.356
CA06	1.129	1.551	1.819	2.166	2.428	2.73	3.98	13.678
CA07	7.129	10.004	13.107	17.525	21.879	26.433	51.596	200.942
CA10	6.124	8.998	11.932	16.073	20.166	24.325	47.79	188.553
CA11	0.614	1.047	1.334	1.718	2.118	2.505	4.043	16.41
CA12	5.027	7.759	10.503	14.142	17.86	21.585	42.032	169.019
CA12B	9.032	11.861	13.503	15.725	17.643	19.769	28.666	90.315
CA13	1.27	1.652	1.879	2.211	2.418	2.7	3.887	13.023
CA14	8.594	11.265	12.81	14.906	16.642	18.65	27.019	82.821
CA15	21.084	31.55	37.392	46.151	55.188	62.881	94.851	58.005
CA16	2.405	3.092	3.51	4.094	4.363	4.891	7.157	24.077
CA17	2.426	4.309	5.717	7.369	9.161	11.589	23.588	96.418
CA17B	0.886	1.141	1.31	1.547	1.697	1.896	2.721	9.012
CA18A	8.539	11.499	13.252	15.632	17.599	20.04	29.911	101.257
CA18B	0.705	1.116	1.422	1.893	2.334	2.753	4.604	18.366
CA19	7.438	9.633	10.922	12.675	13.865	15.67	23.353	77.836
CA20	0.605	0.941	1.198	1.569	1.972	2.337	3.893	15.568
CF01	30.751	42.065	49.7	58.665	71.14	80.833	120.265	508.737
CF02	4.982	6.431	7.282	8.436	9.093	10.17	14.753	49.981
CF03	0.562	0.72	0.827	0.971	1.07	1.214	1.725	5.704
CF04	4.464	5.746	6.53	7.559	8.128	9.102	13.208	44.616
CF05	8.192	10.845	12.431	14.505	16.59	18.597	26.77	83.188
CF06	8.011	10.612	12.168	14.204	16.198	18.162	26.159	78.453
CF07	7.722	10.246	11.757	13.729	15.552	17.443	25.137	70.728
CF08	6.985	9.241	10.601	12.373	13.881	15.572	22.466	63.873
CF09	4.821	6.288	7.16	8.343	9.121	10.228	14.847	50.064
CF11	3.816	4.967	5.664	6.574	7.301	8.195	11.947	34.335
CF12	2.651	3.433	3.949	4.6	5.013	5.654	8.17	27.082
CF13	8.891	11.618	13.21	15.328	17.218	19.259	27.723	82.905
CF14	8.074	10.505	11.932	13.85	15.48	17.341	25.018	80.761
CF15	6.896	8.837	10.091	11.739	12.558	14.034	19.902	67.73
CF16	4.033	5.195	5.9	6.839	7.3	8.185	11.83	39.673
CF17	24.693	34.218	40.597	47.658	58.245	66.563	100.706	438.652
CF18	24.583	34.119	40.472	47.531	58.06	66.357	100.413	438.632
CF18A	8.539	11.499	13.252	15.632	17.599	20.04	29.911	#N/A
CF19	24.414	33.911	40.236	47.259	57.952	66.215	100.05	438.593
CF20	24.104	33.513	39.787	46.744	57.91	66.17	99.997	438.379

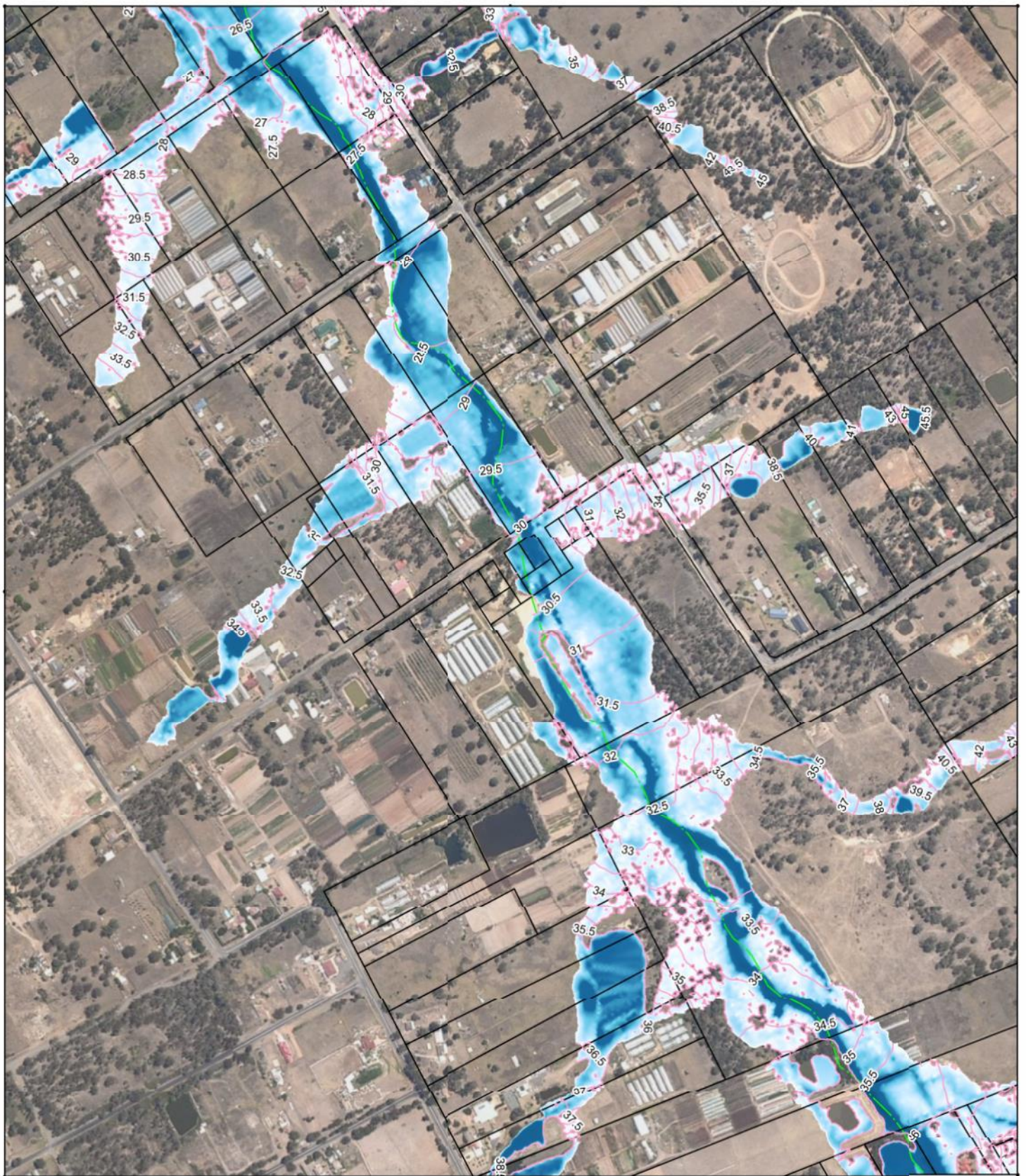
CF21	23.925	33.282	39.525	46.443	57.891	66.15	99.971	438.323
CF22	23.656	32.927	39.164	46.081	57.845	66.1	99.911	438.015
CF23	3.756	4.839	5.515	6.417	6.915	7.752	11.206	37.803
CF24	3.595	4.654	5.326	6.205	6.747	7.563	10.964	36.536
CF26	24.986	35.532	41.934	51.243	61.814	70.258	105.278	444.817
CF27	4.157	5.468	6.229	7.21	7.746	8.683	12.538	42.982
CF28	1.298	1.67	1.903	2.22	2.399	2.692	3.883	13.118
CF29	2.794	3.604	4.115	4.806	5.157	5.811	8.433	28.321
CF30	23.036	34.1	40.283	49.386	59.31	67.472	101.311	421.903
CF31A	2.784	3.692	4.2	4.908	5.429	6.098	8.946	27.627
CF31B	2.219	2.86	3.288	3.832	4.165	4.702	6.856	22.666
CF32	22.372	33.239	39.33	48.415	57.932	65.942	99.176	412.248
CF33	5.734	7.45	8.456	9.807	10.945	12.278	17.708	58.736
CF34	5.158	6.59	7.482	8.768	9.806	11.052	16.151	51.593
CF35	3.876	4.992	5.684	6.604	7.114	7.967	11.528	38.938
CF36	21.084	31.55	37.392	46.151	55.188	62.881	94.851	390.757
CF37	6.546	8.56	9.756	11.243	12.362	13.868	20.007	59.245
CF38	1.655	2.14	2.456	2.868	3.121	3.494	5.124	16.909
CF40	4.793	6.214	7.044	8.152	9.037	10.165	14.839	51.462
CF41A	2.778	3.536	4.042	4.715	5.072	5.698	8.186	27.867
CF41B	1.596	2.07	2.364	2.775	2.992	3.346	4.891	16.26
CF42	20.042	30.201	35.96	44.681	53.355	60.865	91.992	376.002
CF43	17.927	27.456	32.842	40.953	48.659	55.647	84.618	344.622
CF44	6.476	8.363	9.518	11.133	12.399	13.906	20.309	63.449
CF45	5.376	7.188	8.178	9.45	10.197	11.452	16.427	56.445
CF46	19.477	29.475	35.567	44.215	52.701	60.137	90.961	370.484
CF47	15.685	24.448	29.48	36.658	43.423	49.784	76.2	309.546
CF49	9.7	12.864	14.751	17.215	19.528	21.948	32.55	111.98
CF50	5.084	6.621	7.525	8.732	9.737	10.976	16.068	49.957
CF51	3.87	5.001	5.726	6.654	7.239	8.099	11.74	39.266
CF52A	4.654	6.227	7.178	8.464	9.551	10.787	15.851	52.966
CF52B	3.917	5.043	5.753	6.681	7.206	8.075	11.677	39.439
CF53	21.609	29.88	34.796	41.627	47.636	54.283	83.061	305.639
CF54	13.403	18.913	22.397	26.986	31.264	36.113	56.783	240.593
CF55A	12.838	18.168	21.557	26.023	30.02	34.736	54.851	231.148
CF55B	1.126	1.473	1.679	1.961	2.3	2.651	4.209	15.213
CF55C	0.589	0.876	1.076	1.374	1.625	1.923	3.267	12.577
CF56	11.601	16.353	19.411	23.442	26.899	31.204	49.671	213.68
CF57	11.25	15.841	18.818	22.754	26.088	30.299	48.388	209.708
CF58	1.404	2.086	2.471	3.088	3.568	4.225	6.897	26.438
CF59	2.146	2.776	3.148	3.67	3.921	4.375	6.406	21.58
N1	2.086	3.852	5.056	6.477	8.086	10.241	21.39	93.044
node1	30.751	42.065	49.7	58.665	71.14	80.833	120.265	508.737
node2	22.29	33.132	39.207	48.316	57.772	65.763	98.92	410.807
OUTLET	38.112	51.815	60.568	72.231	83.574	95.033	141.701	619.759
SRBR	8.852	12.007	14.149	16.887	19.182	22.129	34.667	155.513
SRCU	1.603	2.567	3.062	3.737	4.32	5.033	8.445	38.697


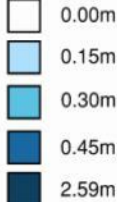



Appendix C - Peak Flows from RAFTS

## Appendix D. Tuflow Results

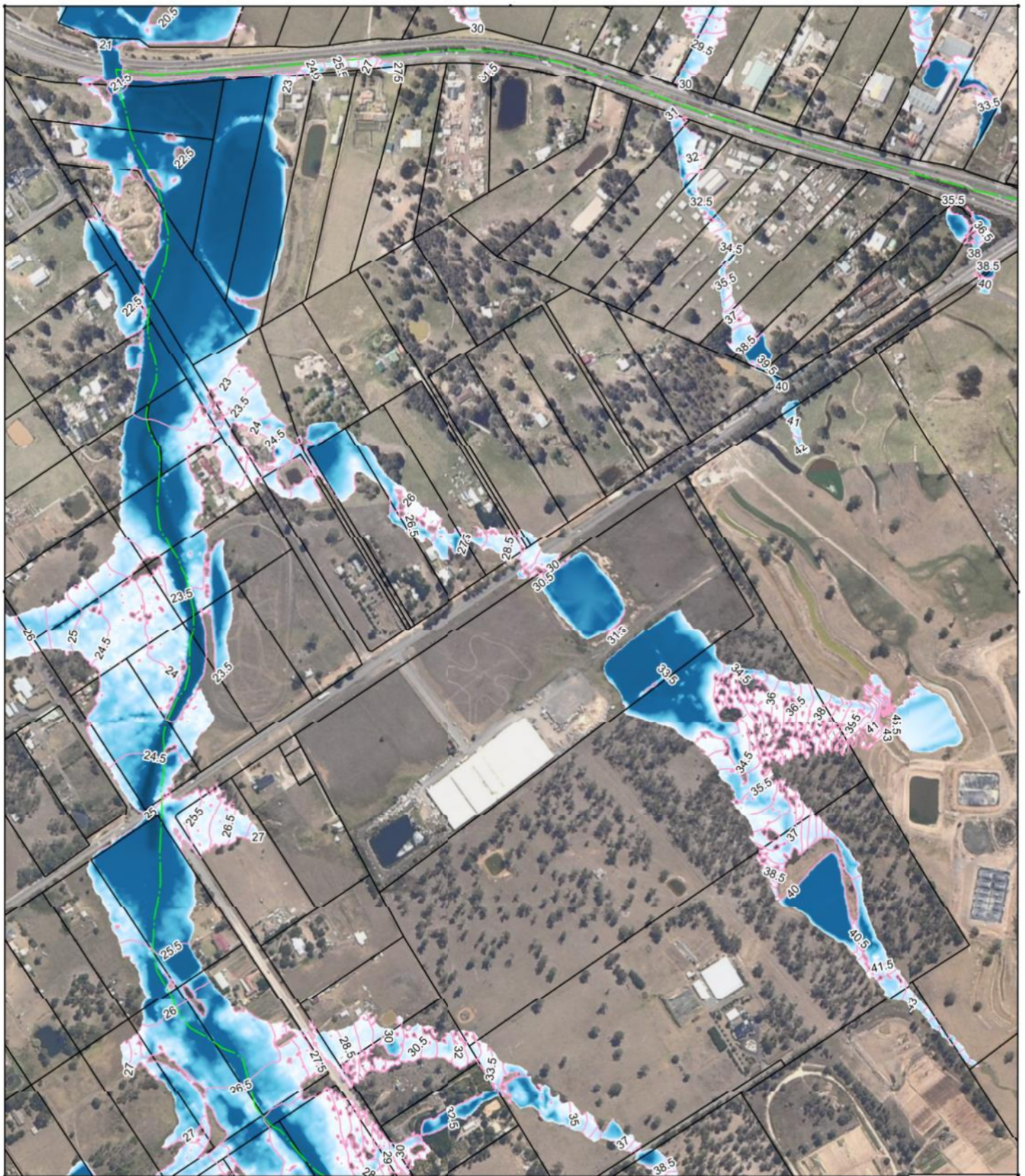



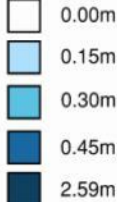

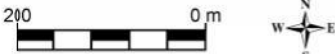




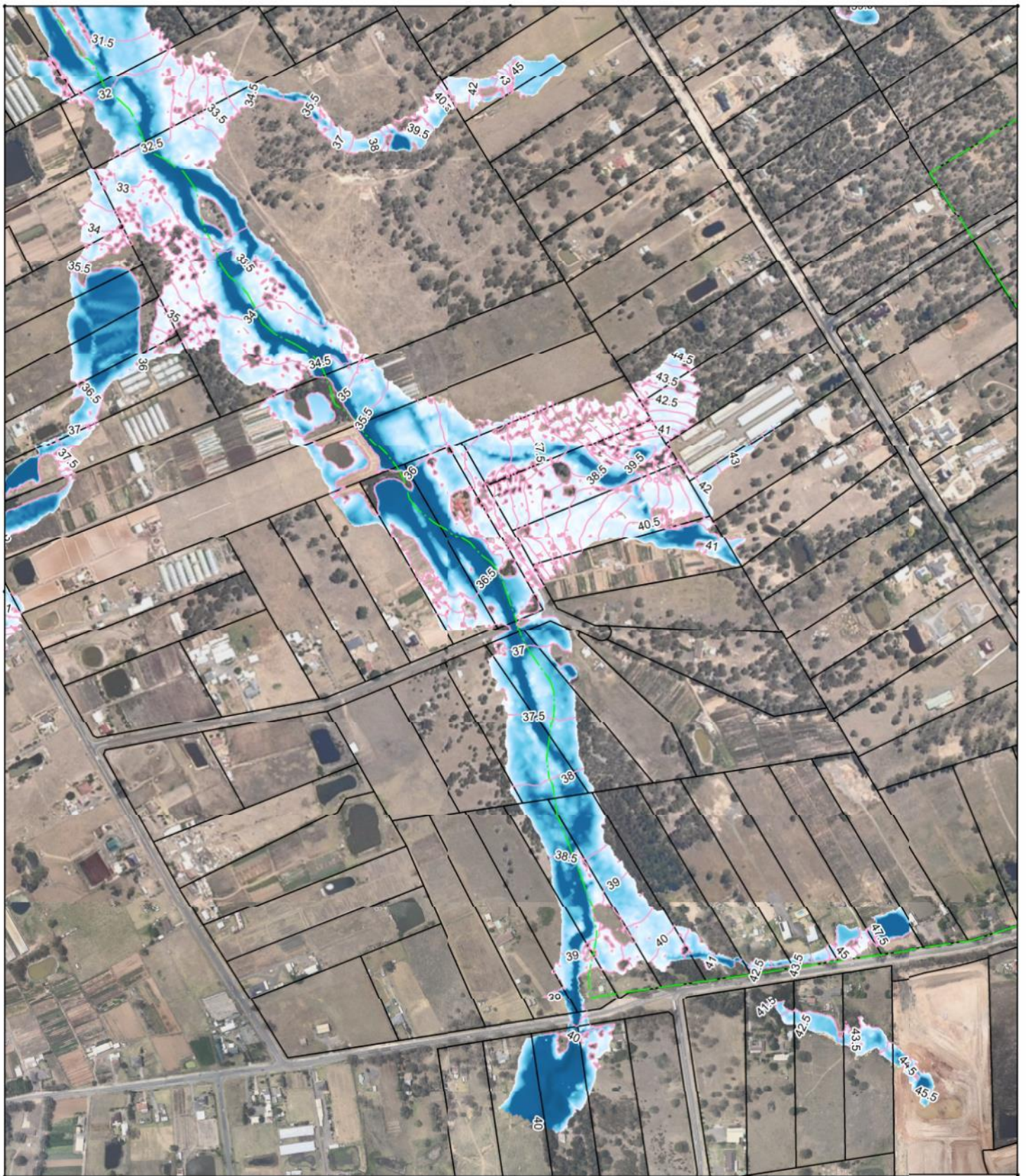
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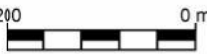







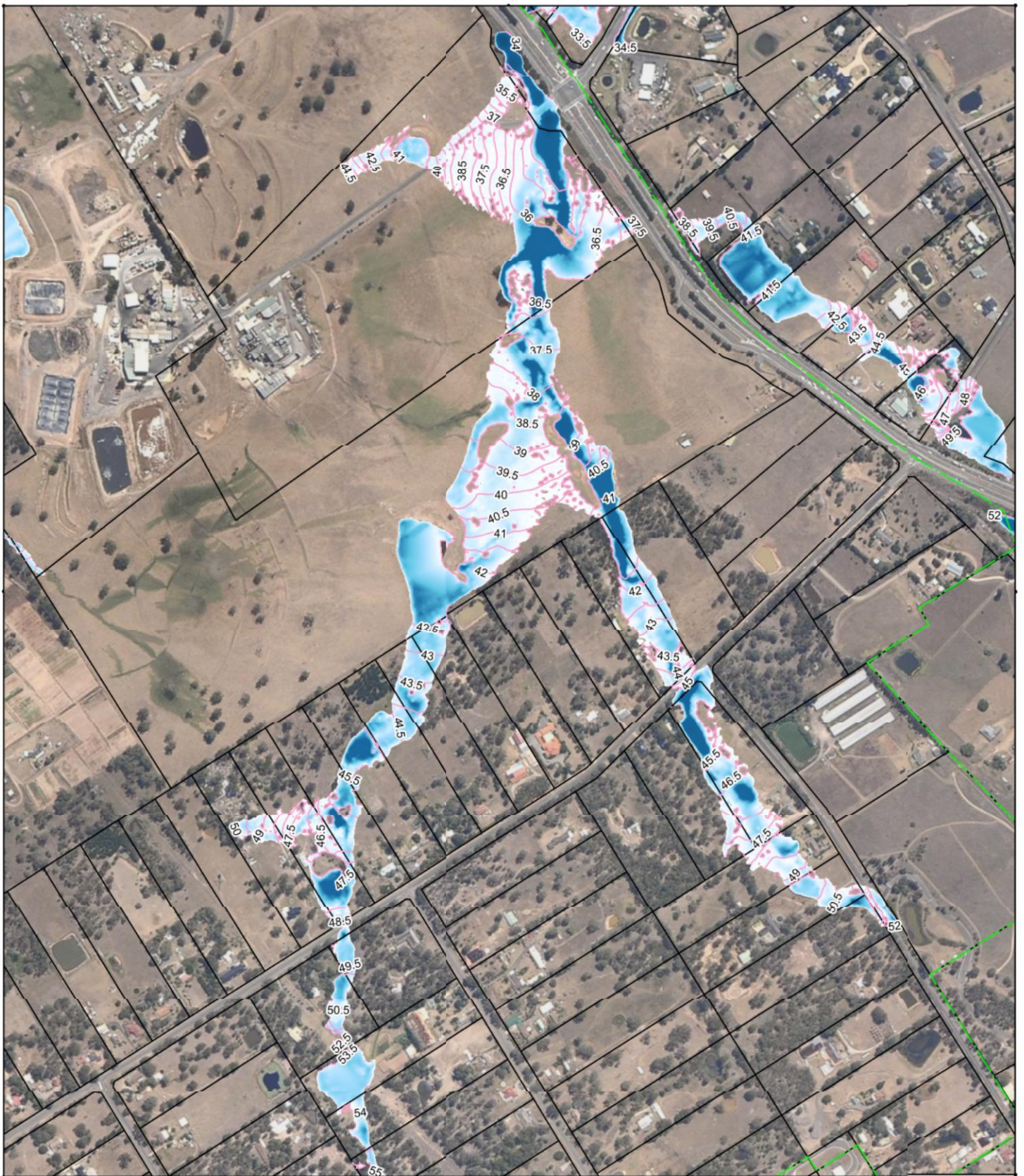
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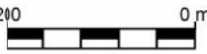

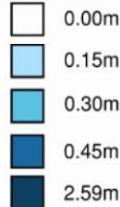





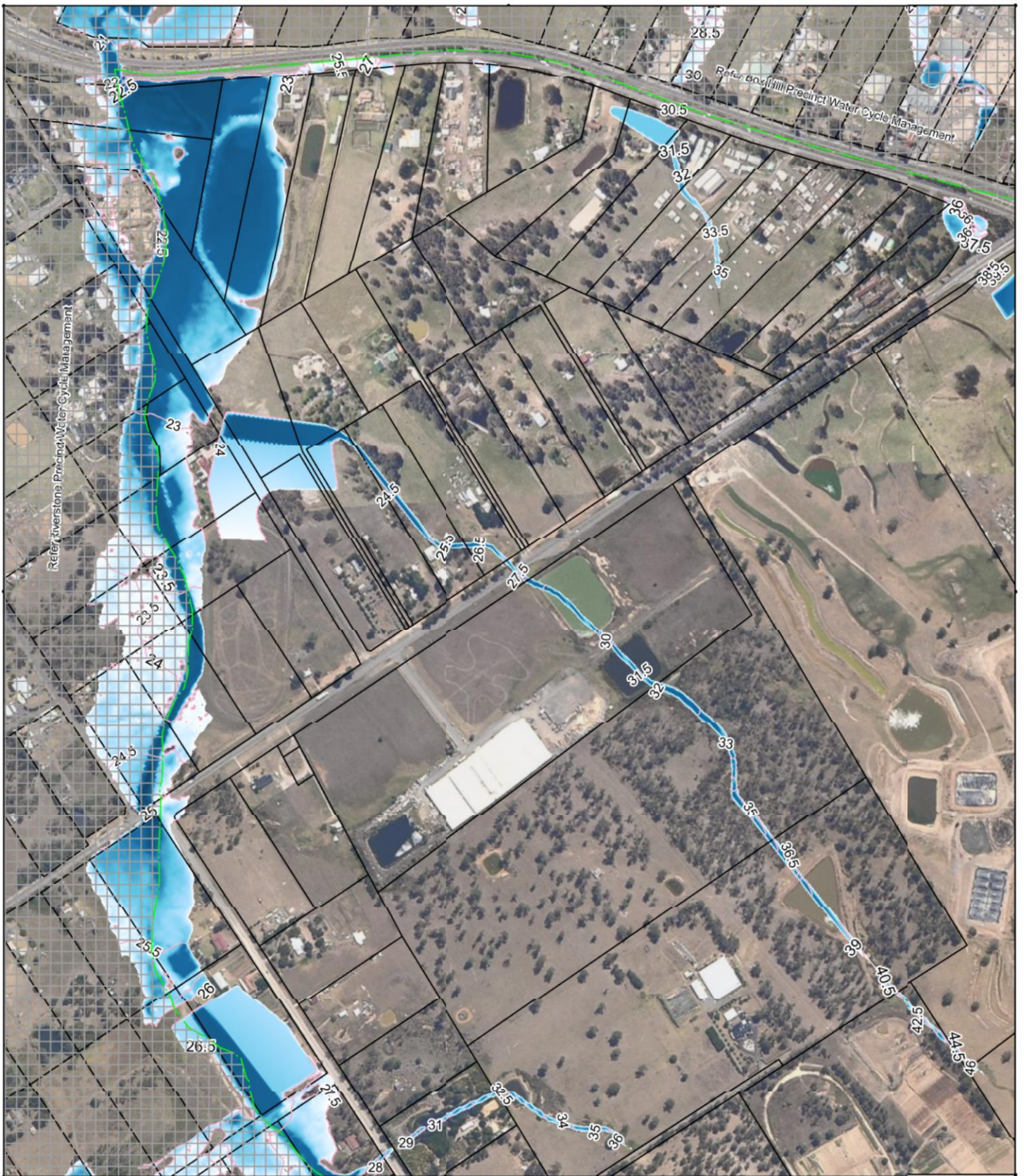
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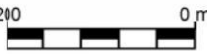

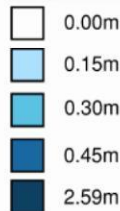





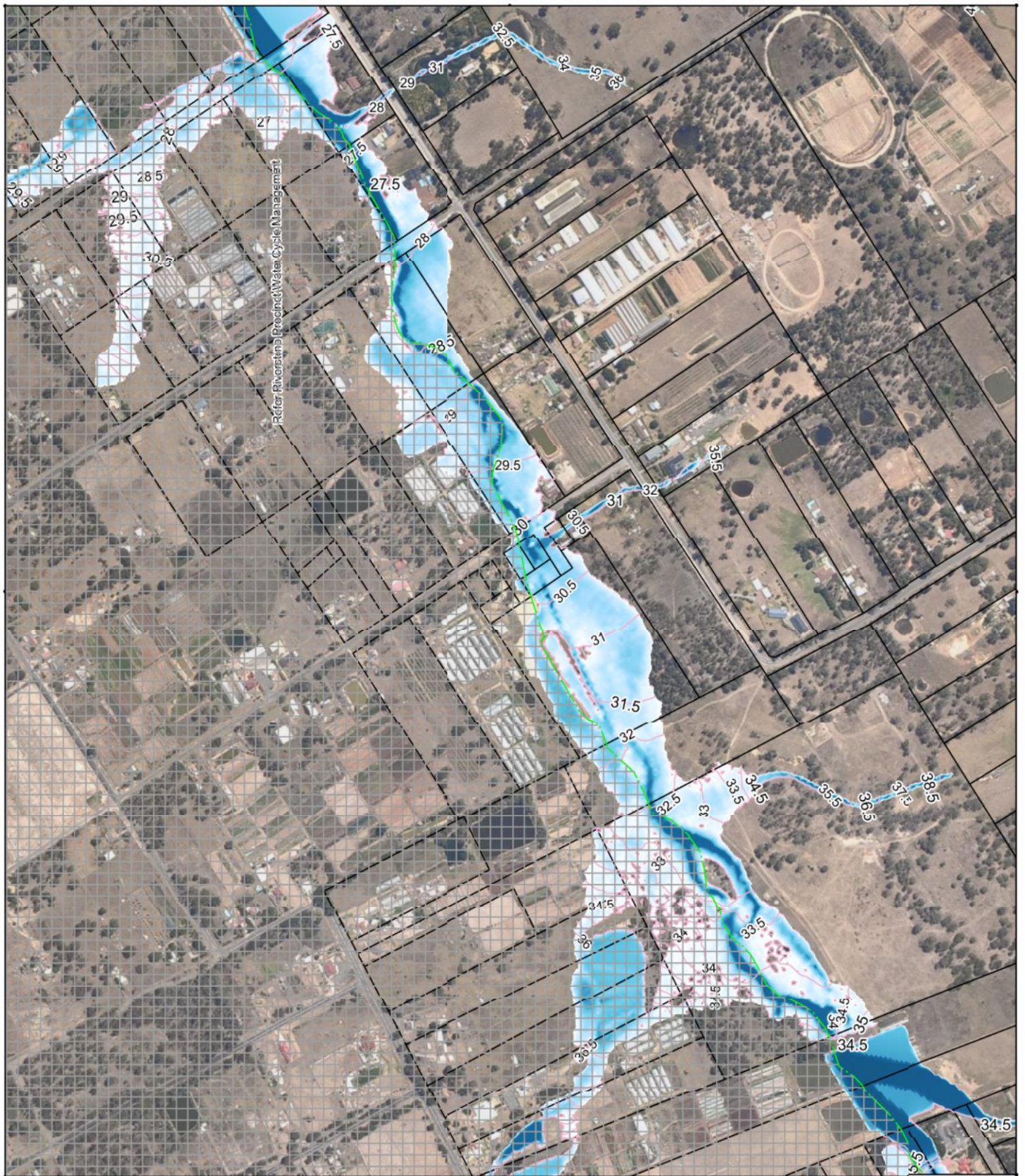
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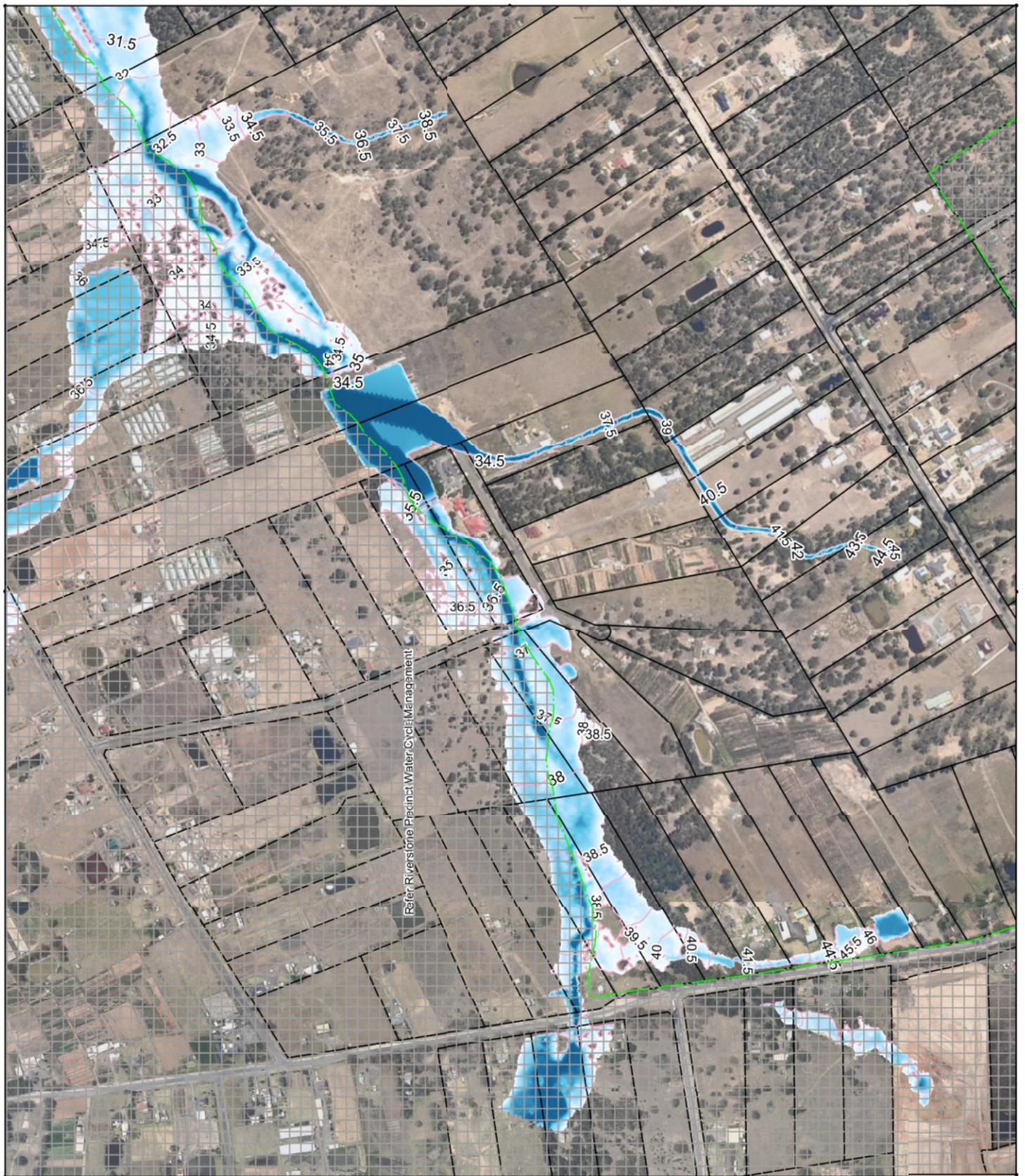
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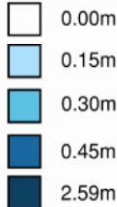





<b>Title</b> <b>Riverstone East ILP</b> <b>50% AEP Proposed Flood</b> <b>Flood Level</b>			 <b>Mott MacDonald</b>		<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; background-color: white; margin-right: 5px;"></span> 0.00m</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; margin-right: 5px;"></span> 0.15m</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: cyan; margin-right: 5px;"></span> 0.30m</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: blue; margin-right: 5px;"></span> 0.45m</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: darkblue; margin-right: 5px;"></span> 2.59m</li> </ul>			
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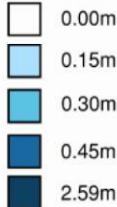
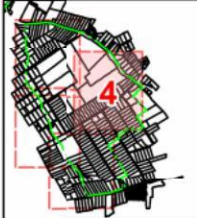






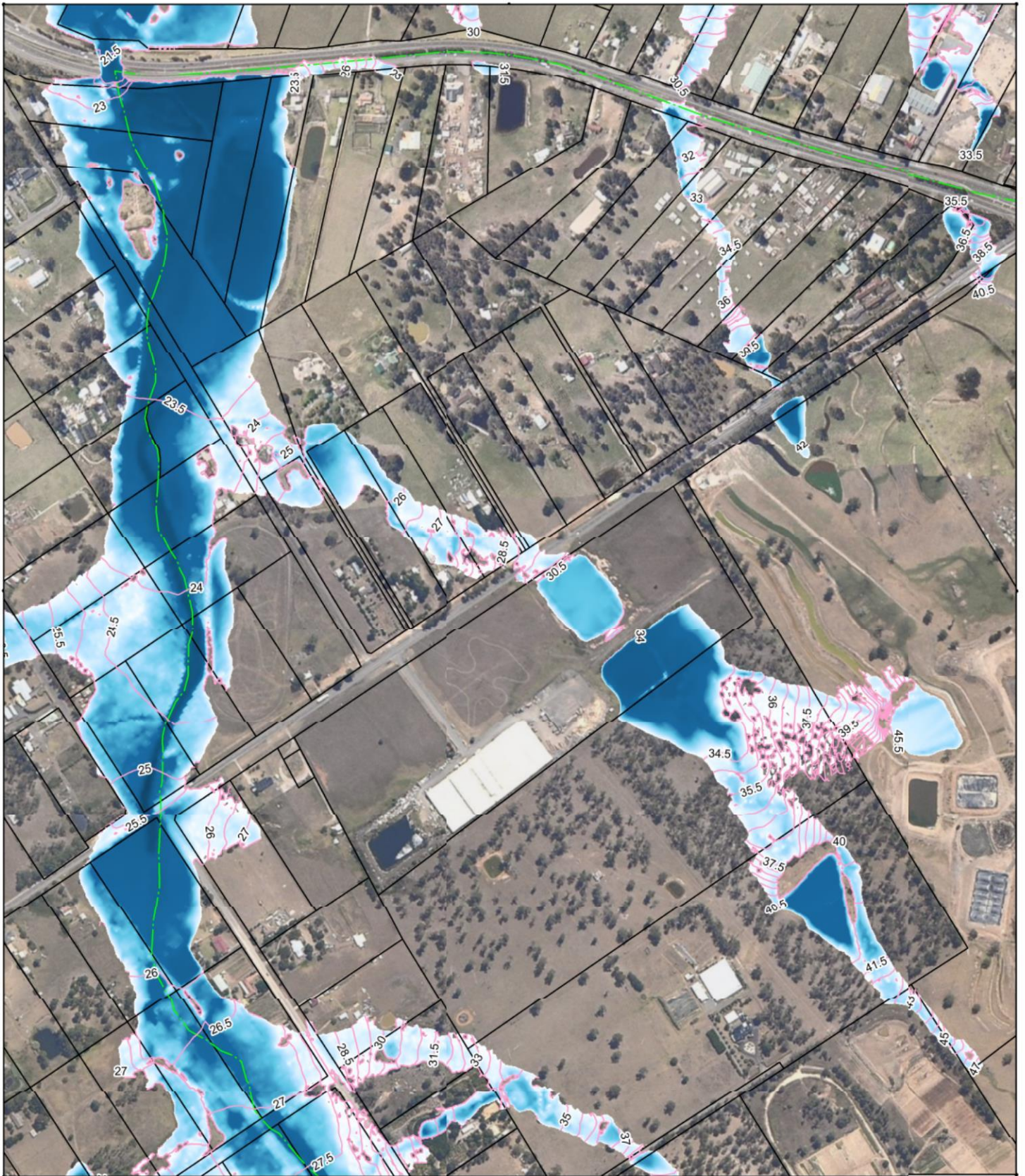
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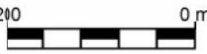

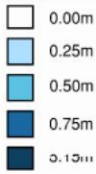





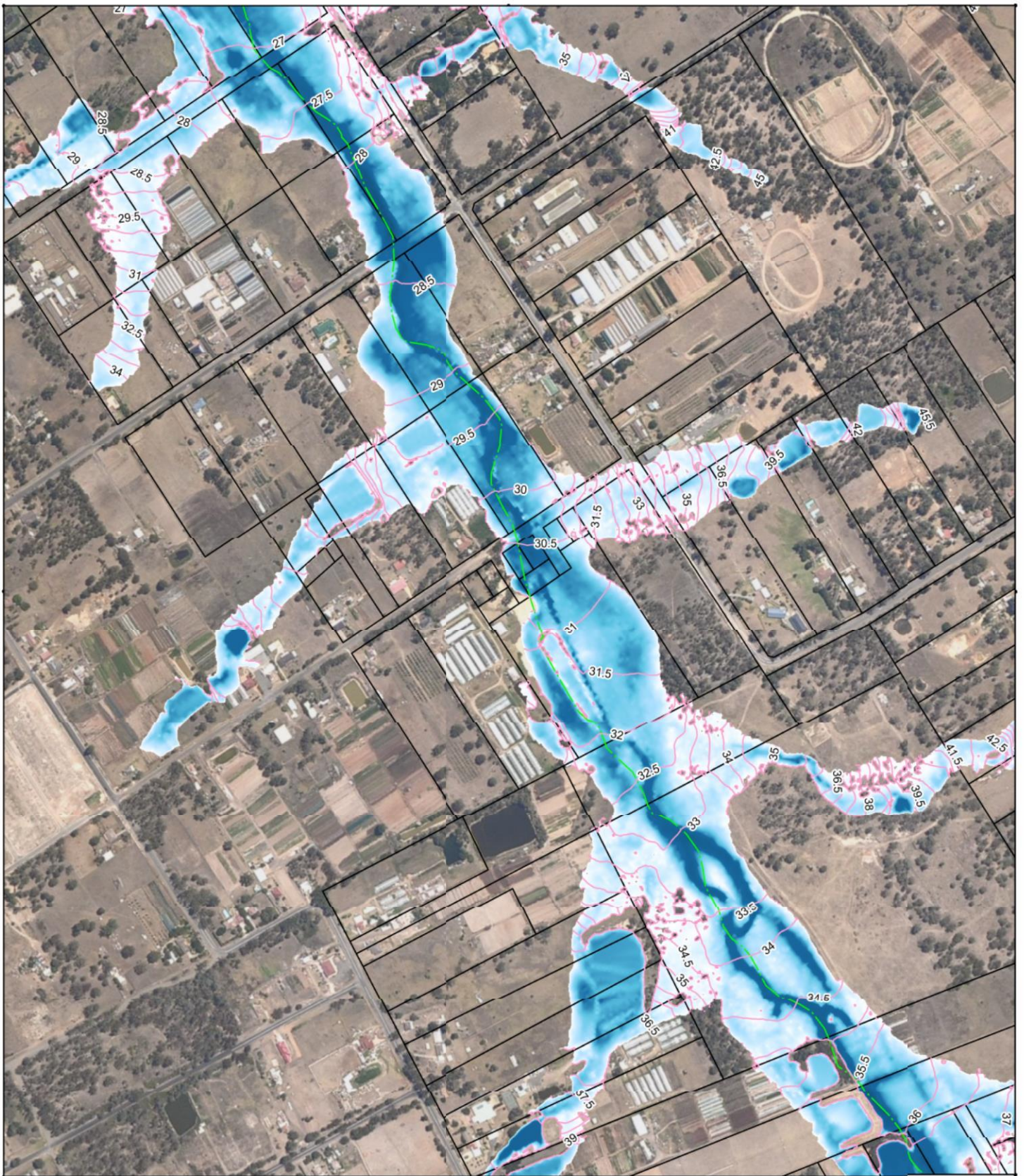
<b>Title</b> <b>Rivestone East ILP</b> <b>50% AEP Proposed Flood</b> <b>Flood Level</b>			 <b>Mott MacDonald</b>					
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<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>	
16/01/2015	GL	GL	CA	1:8000	RE_PRL_2yr_360m_D	FI	B	


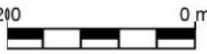

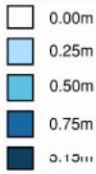





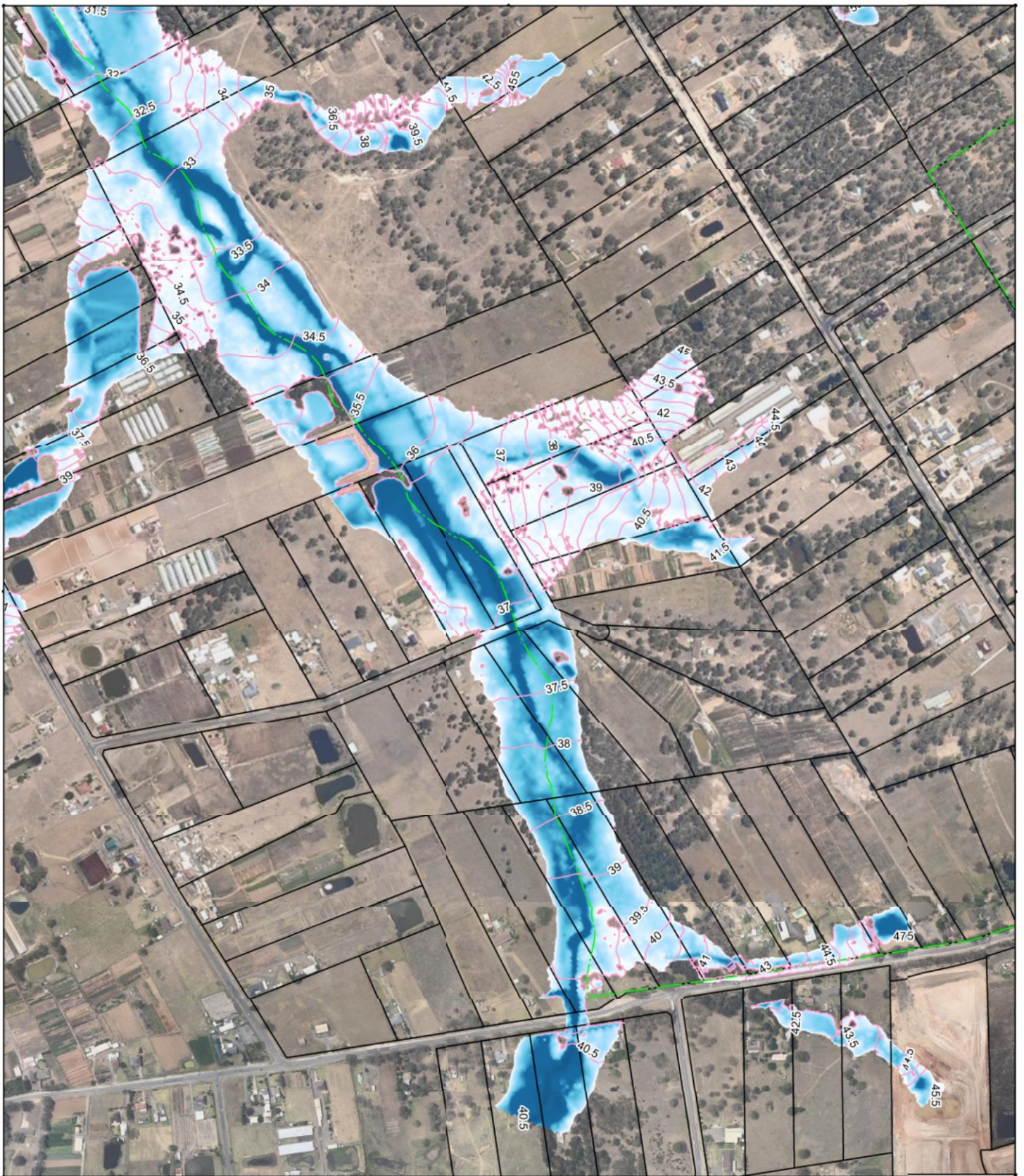
<b>Title</b> <b>Riverstone East ILP</b> <b>1% AEP Existing Flood</b> <b>Flood Depth</b>				  					
<small>WALBURN &amp; PARTNERS PTY LIMITED, PLAN 120/140/200          This document is issued for the party which commissioned it and for specific purposes connected with the project only. It should not be relied upon by any other party or used for any other purpose.          We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing an error or omission which is due to an error or omission in data supplied to us by other parties.</small>									
<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>		
16/01/2015	GL	GL	CA	1:8000	RE_EXL_100yr_120m_D	FI	B		


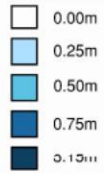







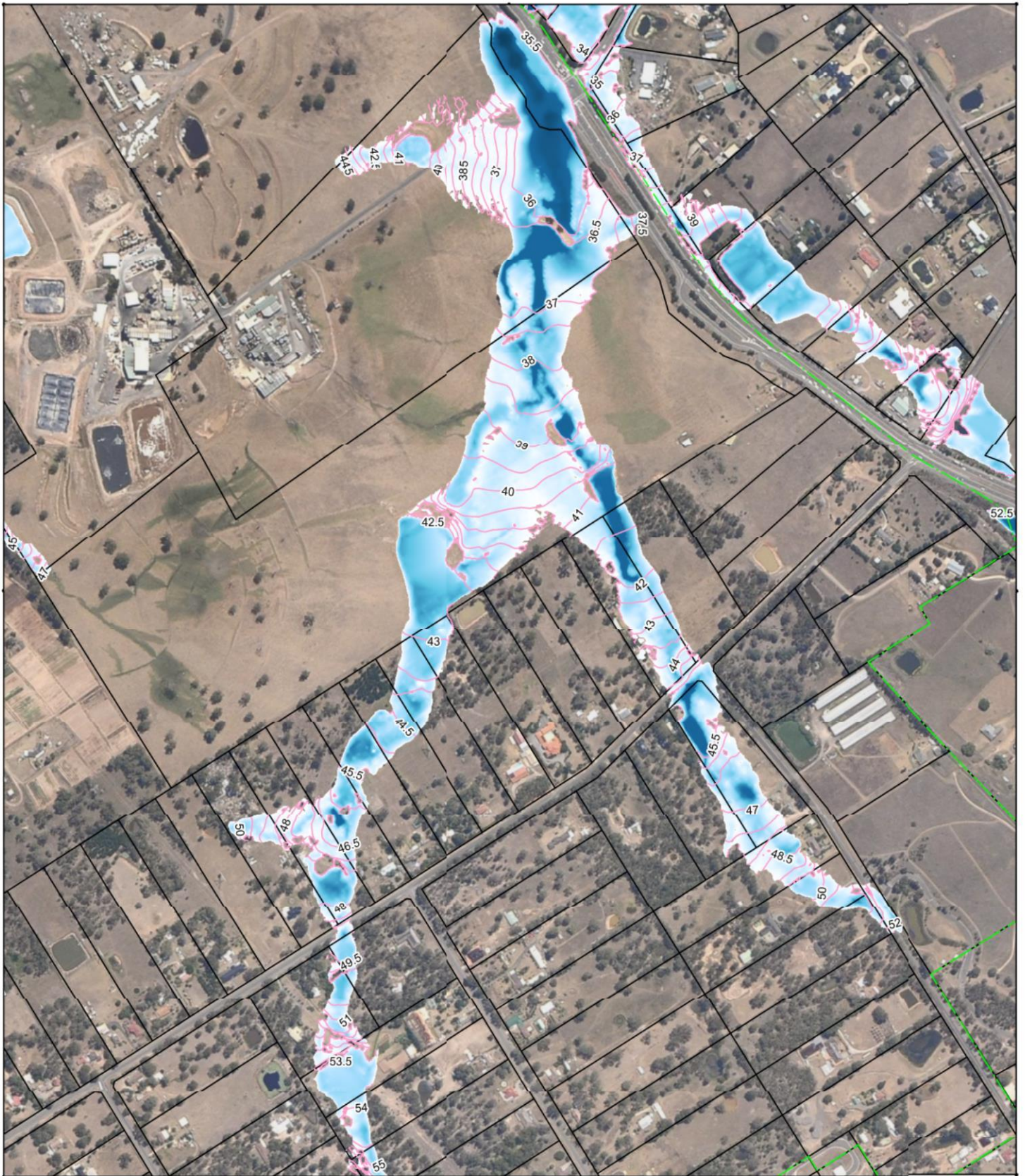
<b>Title</b> <b>Riverstone East ILP</b> <b>1% AEP Existing Flood</b> <b>Flood Depth</b>			  					
<small>WALBAMILLARU PISHIRIRI PTY LIMITED, PLAN 120/120/200</small> <small>This document is issued for the party which commissioned it and for specific purposes connected with the project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing an error or omission which is due to an error or omission in data supplied to us by other parties.</small>	<b>Date</b> <b>16/01/2015</b>	<b>Drawn</b> <b>GL</b>	<b>Checked</b> <b>GL</b>	<b>Approved</b> <b>CA</b>	<b>Scale at A4</b> <b>1:8000</b>	<b>Drawing Number</b> <b>RE_EXL_100yr_120m_D</b>	<b>Status</b> <b>FI</b>	<b>Rev</b> <b>B</b>


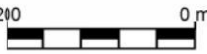

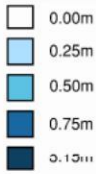
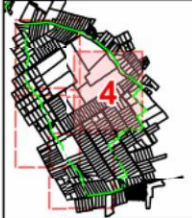




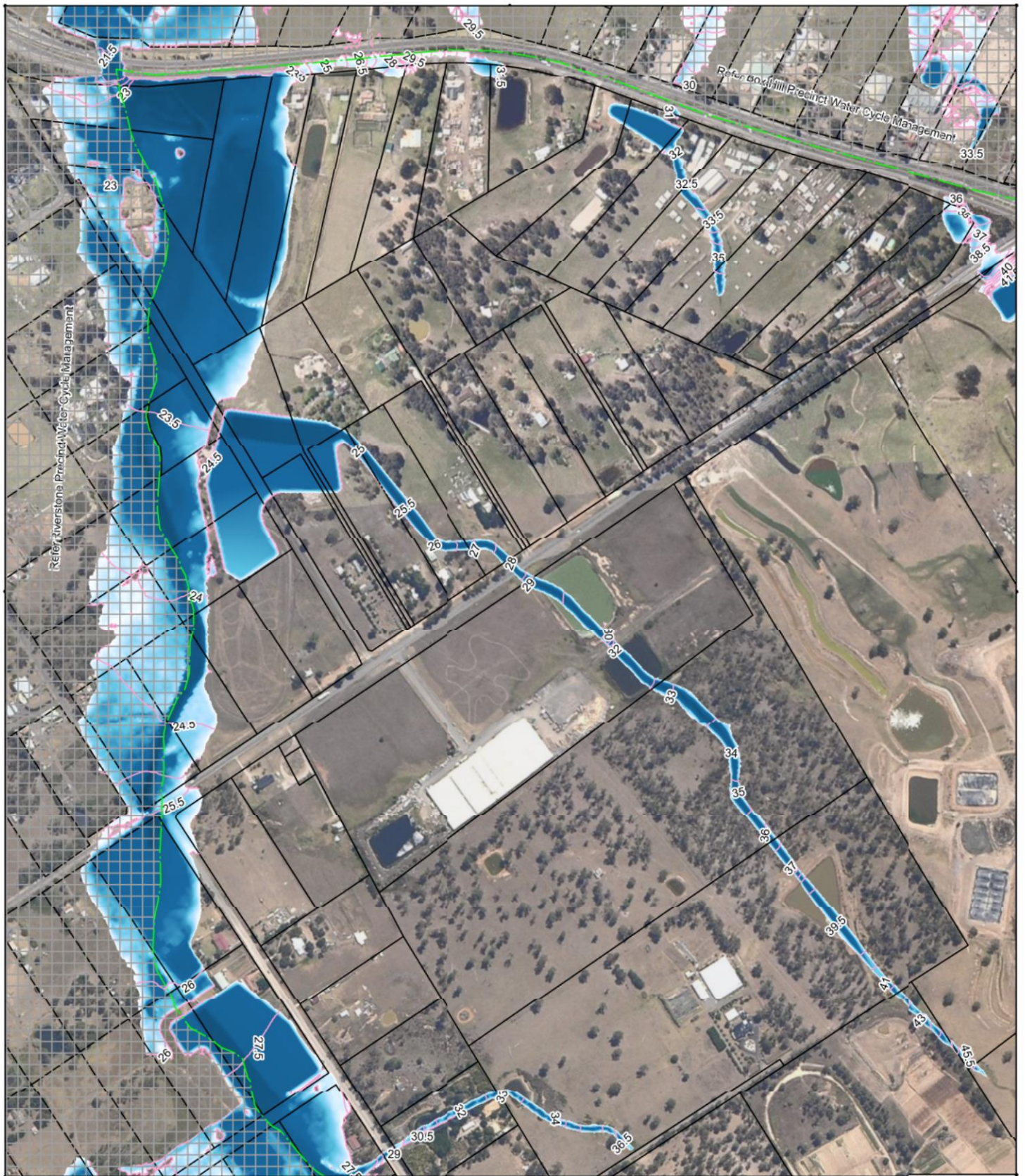
<b>Title</b> <b>Riverstone East ILP</b> <b>1% AEP Existing Flood</b> <b>Flood Depth</b>				 <b>Mott MacDonald</b>					
<small>WALSH &amp; PARTNERS ENGINEERS PTY LIMITED, PLAN 120/120/200          This document is issued for the party which commissioned it and for specific purposes connected with the project only. It should not be relied upon by any other party or used for any other purpose.          We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing an error or omission which is due to an error or omission in data supplied to us by other parties.</small>				 210 0 m		 N S E W			
<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>		
16/01/2015	GL	GL	CA	1:8000	RE_EXL_100yr_120m_D	FI	B		


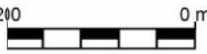

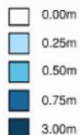





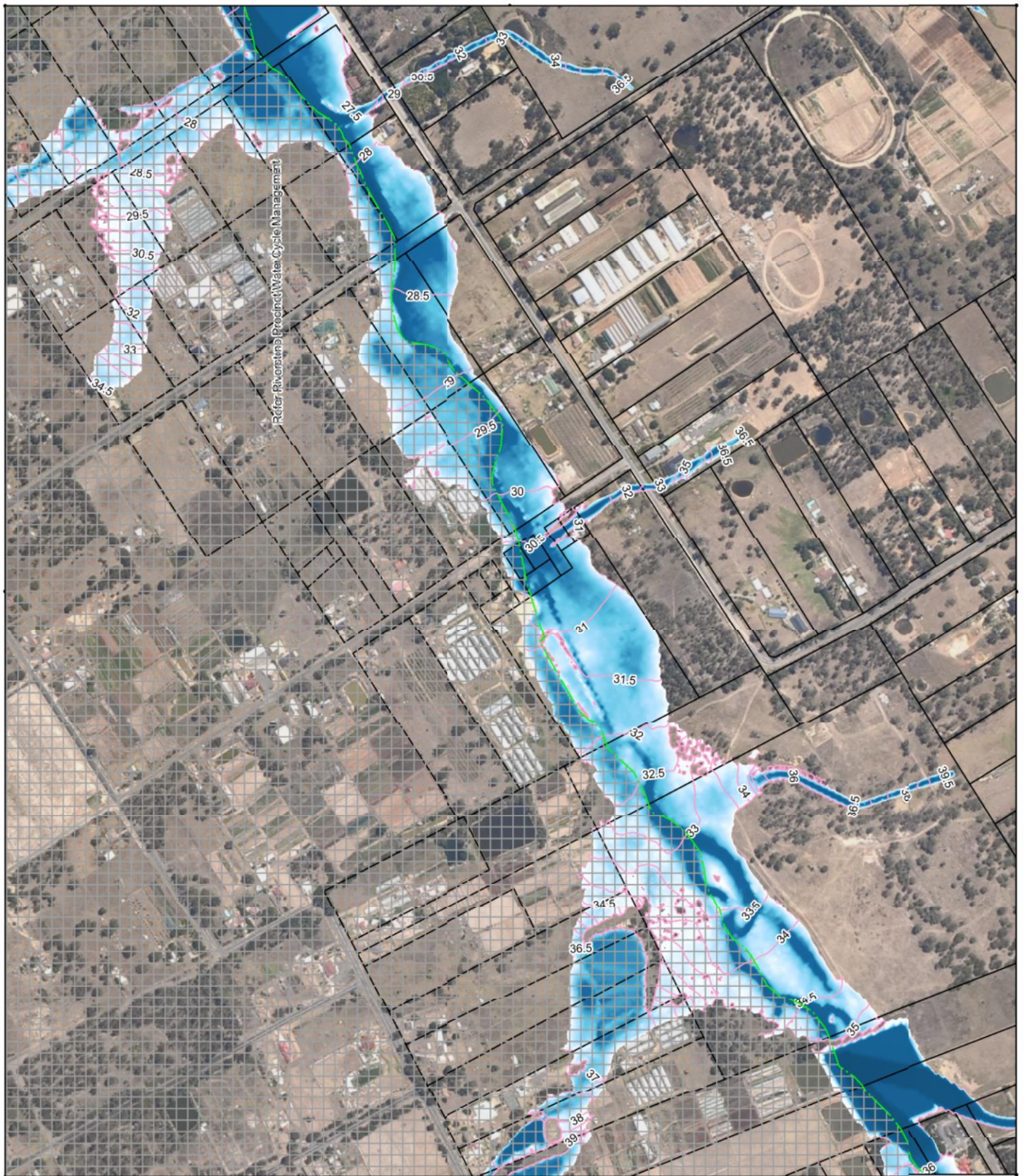
<b>Title</b> <b>Rivestone East ILP</b> <b>1% AEP Existing Flood</b> <b>Flood Depth</b>			  					
<small>WALBROOK CONSULTING ENGINEERS PTY LIMITED, P/L 1204 1204 2000          This document is issued for the party which commissioned it and for specific purposes connected with the project only. It should not be relied upon by any other party or used for any other purpose.          We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing an error or omission which is due to an error or omission in data supplied to us by other parties.</small>								
<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>	
16/01/2015	GL	GL	CA	1:8000	RE_EXL_100yr_120m_D	FI	B	


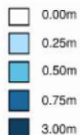







<b>Title</b> <b>Riverstone East ILP</b> <b>1% AEP Proposed Flood</b> <b>Flood Depth</b>				  					
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<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>		
16/01/2015	GL	GL	CA	1:8000	RE_PRL_100yr_120m_D	FI	B		





<b>Title</b> <b>Riverstone East ILP</b> <b>1% AEP Proposed Flood</b> <b>Flood Depth</b>			 <b>Mott MacDonald</b>					
<small>WALBERRILL ROAD PROJECT PTY LIMITED, PLAN 120/120/200          This document is issued for the party which commissioned it and for specific purposes connected with the project only. It should not be relied upon by any other party or used for any other purpose.          We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing an error or omission which is due to an error or omission in data supplied to us by other parties.</small>								
<b>Date</b>	<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>	<b>Scale at A4</b>	<b>Drawing Number</b>	<b>Status</b>	<b>Rev</b>	
16/01/2015	GL	GL	CA	1:8000	RE_PRL_100yr_120m_D	FI	B	