

Appendix A – Sub-Catchments of CBD

Sub-Catchment Parameters

Sub-Catchment ID	Area (ha)	Slope (%)	Fraction Impervious	Pern (n*) Pervious	Pern (n*) Impervious	Downstream Node	Reach Length (m)	Reach Slope (m/m)	Reach Width (m)	Reach Manning's n
Cy-1.00	14.37	4.80	0.98	0.060	0.020	Outlet	0.00	0.0000	0.00	0.000
Cy-2.00	12.03	3.73	0.72	0.060	0.020	Cy-1.00	950.00	0.0001	100.00	0.035
Cy-2.00.01	9.65	2.52	0.72	0.060	0.020	Cy-2.00	370.00	0.0001	5.00	0.035
Cy-2.01	0.91	1.61	0.76	0.060	0.020	Cy-2.00	180.00	0.0001	25.00	0.035
Cy-2.01.01	1.51	3.02	0.77	0.060	0.020	Cy-2.01	0.00	0.0000	0.00	0.000
Cy-2.02	2.39	1.65	0.65	0.060	0.020	Cy-2.01	105.00	0.0004	3.50	0.030
Cy-2.03	2.42	0.99	0.50	0.060	0.020	Cy-2.02	75.00	0.0006	3.50	0.030
Cy-2.04	3.05	1.06	0.54	0.060	0.020	Cy-2.03	60.00	0.0042	3.50	0.030
Cy-3.00	7.00	4.95	0.89	0.060	0.020	Cy-2.00	425.00	0.0001	100.00	0.035
Cy-3.00.01	1.16	13.18	0.75	0.060	0.020	Cy-3.00.02	80.00	0.0006	3.50	0.030
Cy-3.00.02	0.70	12.77	0.70	0.060	0.020	Cy-3.00.03	0.00	0.0000	0.00	0.000
Cy-3.00.03	0.76	15.00	0.73	0.060	0.020	Cy-3.00	160.00	0.0001	5.00	0.035
Cy-3.00.04	0.54	14.62	0.72	0.060	0.020	Cy-3.00.03	100.00	0.0001	3.50	0.030
Cy-3.01	1.18	8.04	0.71	0.060	0.020	Cy-3.00	335.00	0.0001	25.00	0.035
Cy-3.02	3.30	15.00	0.67	0.060	0.020	Cy-3.01	175.00	0.0170	3.50	0.030
Cy-3.03	5.03	15.00	0.68	0.060	0.020	Cy-3.02	20.00	0.0340	3.50	0.030
Cy-3.04	1.66	12.77	0.65	0.060	0.020	Cy-3.03	170.00	0.0368	3.50	0.030
Cy-4.00	1.70	8.11	0.78	0.060	0.020	Cy-3.00	315.00	0.0000	100.00	0.035
Cy-4.01	1.18	2.53	0.76	0.060	0.020	Cy-4.00	120.00	0.0001	25.00	0.035
Cy-4.02	2.07	4.87	0.88	0.060	0.020	Cy-4.01	70.00	0.0250	3.50	0.030
Cy-4.03	2.68	4.11	0.63	0.060	0.020	Cy-4.02	135.00	0.0278	3.50	0.030
Cy-4.04	4.22	15.00	0.74	0.060	0.020	Cy-4.03	130.00	0.0346	3.50	0.030
Cy-5.00	3.94	3.71	0.54	0.060	0.020	Cy-4.00	130.00	0.0001	100.00	0.035
Cy-5.00.01	1.31	2.30	0.80	0.060	0.020	Cy-5.00	155.00	0.0001	2.00	0.035
Cy-5.01	1.57	3.03	0.80	0.060	0.020	Cy-5.00	116.00	0.0001	25.00	0.035
Cy-5.01.01	0.44	2.85	0.65	0.060	0.020	Cy-5.01	0.00	0.0000	0.00	0.000
Cy-5.02	2.47	3.54	0.81	0.060	0.020	Cy-5.01	105.00	0.0167	3.50	0.030
Cy-5.02.01	0.54	4.79	0.75	0.060	0.020	Cy-5.02	25.00	0.0010	3.50	0.030
Cy-5.03	1.74	4.77	0.76	0.060	0.020	Cy-5.02	130.00	0.0346	3.50	0.030
Cy-5.04	2.97	13.53	0.71	0.060	0.020	Cy-5.03	145.00	0.0310	3.50	0.030
Cy-6.00	6.37	3.62	0.46	0.060	0.020	Cy-5.00	165.00	0.0001	100.00	0.035
Cy-6.00.01	2.52	1.97	0.76	0.060	0.020	Cy-6.00	255.00	0.0001	25.00	0.035
Cy-6.00.02	2.39	3.70	0.83	0.060	0.020	Cy-6.00.01	280.00	0.0143	3.50	0.030
Cy-6.00.03	0.91	3.18	0.66	0.060	0.020	Cy-6.00.02	25.00	0.0200	3.50	0.030
Cy-6.00.04	3.28	4.63	0.80	0.060	0.020	Cy-6.00.03	150.00	0.0167	3.50	0.030
Cy-6.00.05	8.02	15.00	0.73	0.060	0.020	Cy-6.00.04	140.00	0.0215	3.50	0.030
Cy-6.00.06	2.97	10.48	0.67	0.060	0.020	Cy-6.00.05	130.00	0.0346	3.50	0.030
Cy-6.00.07	4.71	15.00	0.65	0.060	0.020	Cy-6.00.06	135.00	0.0389	3.50	0.030
Cy-6.01	13.76	1.24	0.09	0.060	0.020	Cy-6.00	270.00	0.0083	3.50	0.030
Cy-6.01.01	2.86	1.19	0.64	0.060	0.020	Cy-6.01	0.00	0.0000	0.00	0.000
Cy-6.01.02	2.13	1.69	0.67	0.060	0.020	Cy-6.01.01	50.00	0.0001	3.50	0.030
Cy-6.02	11.60	0.94	0.37	0.060	0.020	Cy-6.01	255.00	0.0001	3.50	0.030
Cy-6.02.01	3.94	1.10	0.51	0.060	0.020	Cy-6.02	450.00	0.0017	3.50	0.030
Cy-6.03	3.63	1.32	0.65	0.060	0.020	Cy-6.02	280.00	0.0018	3.50	0.030
Cy-6.03.01	2.66	1.37	0.60	0.060	0.020	Cy-6.03	90.00	0.0002	3.50	0.030
Cy-6.03.02	2.02	1.28	0.69	0.060	0.020	Cy-6.03	220.00	0.0034	3.50	0.030
Cy-6.04	3.02	1.48	0.17	0.060	0.020	Cy-6.03	230.00	0.0032	3.50	0.030
Cy-6.04.01	2.66	2.60	0.59	0.060	0.020	Cy-6.04	135.00	0.0001	3.50	0.030
Cy-6.04.02	1.52	1.64	0.59	0.060	0.020	Cy-6.04.01	130.00	0.0058	3.50	0.030
Cy-6.05	2.01	3.18	0.58	0.060	0.020	Cy-6.04	230.00	0.0043	3.50	0.030
Cy-6.05.01	1.57	2.07	0.82	0.060	0.020	Cy-6.05	0.00	0.0000	0.00	0.000
Cy-7.00	14.23	2.66	0.76	0.060	0.020	Cy-6.00	255.00	0.0001	100.00	0.035
Cy-7.00.01	20.09	1.29	0.15	0.060	0.020	Cy-7.00	330.00	0.0083	10.00	0.050
Cy-7.01	2.52	3.81	0.79	0.060	0.020	Cy-7.00	320.00	0.0001	25.00	0.035
Cy-7.02	1.94	4.83	0.76	0.060	0.020	Cy-7.01	150.00	0.0267	3.50	0.030
Cy-8.00	4.00	2.46	0.85	0.060	0.020	Cy-7.00	310.00	0.0001	100.00	0.035
Cy-8.01	1.72	4.77	0.65	0.060	0.020	Cy-8.00	145.00	0.0001	50.00	0.035
Cy-8.02	1.48	4.61	0.65	0.060	0.020	Cy-8.01	120.00	0.0231	3.50	0.030
Cy-8.03	1.22	4.40	0.80	0.060	0.020	Cy-8.02	75.00	0.0067	3.50	0.030
Cy-8.04	6.43	15.00	0.32	0.060	0.020	Cy-8.03	210.00	0.0226	3.50	0.030
Cy-9.00	11.56	2.35	0.77	0.060	0.020	Cy-8.00	180.00	0.0001	100.00	0.035
Cy-9.01	4.35	5.69	0.76	0.060	0.020	Cy-9.00	220.00	0.0001	50.00	0.035
Cy-9.02	6.81	15.00	0.74	0.060	0.020	Cy-9.01	140.00	0.0140	3.50	0.030
Hm-1.00	3.00	4.01	0.45	0.060	0.020	Hy-1.00	310.00	0.0015	25.00	0.040
Hm-1.01	5.21	1.30	0.63	0.060	0.020	Hm-1.00	185.00	0.0081	3.50	0.030
Hm-1.02	3.63	1.42	0.40	0.060	0.020	Hm-1.00	185.00	0.0162	3.50	0.030
Hm-10.00	0.44	2.47	0.64	0.060	0.020	Hm-9.00	230.00	0.0001	10.00	0.030
Hm-11.00	4.23	1.65	0.65	0.060	0.020	Hm-10.00	0.00	0.0020	3.50	0.030
Hm-12.00	2.15	1.58	0.64	0.060	0.020	Hm-11.00	95.00	0.0026	3.50	0.030
Hm-13.00	2.18	1.19	0.64	0.060	0.020	Hm-12.00	90.00	0.0012	3.50	0.030
Hm-2.00	3.29	2.55	0.53	0.060	0.020	Hm-1.00	195.00	0.0013	25.00	0.040
Hm-3.00	5.30	2.39	0.27	0.060	0.020	Hm-2.00	110.00	0.0005	25.00	0.040
Hm-3.01	7.22	1.26	0.61	0.060	0.020	Hm-3.00	150.00	0.0050	3.50	0.030
Hm-4.00	7.49	2.67	0.23	0.060	0.020	Hm-3.00	115.00	0.0022	25.00	0.040
Hm-4.01	7.37	1.35	0.66	0.060	0.020	Hm-4.00	325.00	0.0009	3.50	0.040
Hm-4.02	0.95	0.85	0.74	0.060	0.020	Hm-4.01	300.00	0.0025	3.50	0.030
Hm-5.00	4.12	2.62	0.44	0.060	0.020	Hm-4.00	290.00	0.0009	25.00	0.040
Hm-5.01	5.56	1.47	0.68	0.060	0.020	Hm-5.00	95.00	0.0026	3.50	0.030
Hm-5.02	1.32	0.79	0.68	0.060	0.020	Hm-5.01	220.00	0.0068	3.50	0.030
Hm-6.00	0.95	1.03	0.63	0.060	0.020	Hm-5.00	255.00	0.0015	10.00	0.030
Hm-6.01	2.51	1.20	0.65	0.060	0.020	Hm-6.00	30.00	0.0023	3.50	0.030
Hm-6.02	3.91	1.70	0.68	0.060	0.020	Hm-6.01	325.00	0.0023	3.50	0.030

Sub-Catchment ID	Area (ha)	Slope (%)	Fraction Impervious	Pern (n*) Pervious	Pern (n*) Impervious	Downstream Node	Reach Length (m)	Reach Slope (m/m)	Reach Width (m)	Reach Manning's n
Hm-7.00	2.21	1.97	0.65	0.060	0.020	Hm-6.00	0.00	0.0000	0.00	0.000
Hm-7.01	2.15	1.36	0.66	0.060	0.020	Hm-7.00	85.00	0.0088	3.50	0.030
Hm-7.02	2.22	1.80	0.65	0.060	0.020	Hm-7.01	100.00	0.0001	3.50	0.030
Hm-7.03	2.22	1.89	0.65	0.060	0.020	Hm-7.02	95.00	0.0026	3.50	0.030
Hm-7.03.01	3.45	1.11	0.65	0.060	0.020	Hm-7.03	305.00	0.0005	3.50	0.030
Hm-7.03.02	3.00	0.91	0.68	0.060	0.020	Hm-7.03.01	185.00	0.0095	3.50	0.030
Hm-7.03.03	2.63	1.13	0.67	0.060	0.020	Hm-7.03.02	100.00	0.0001	3.50	0.030
Hm-7.03.04	3.56	0.59	0.19	0.060	0.020	Hm-7.03.03	95.00	0.0005	3.50	0.030
Hm-7.03.05	1.11	0.79	0.65	0.060	0.020	Hm-7.03.03	100.00	0.0001	3.50	0.030
Hm-7.03.06	5.10	0.96	0.67	0.060	0.020	Hm-7.03.05	90.00	0.0005	3.50	0.030
Hm-7.03.07	4.07	0.94	0.68	0.060	0.020	Hm-7.03.06	200.00	0.0038	3.50	0.030
Hm-7.04	0.96	1.12	0.65	0.060	0.020	Hm-7.03	100.00	0.0025	3.50	0.030
Hm-7.05	1.34	1.21	0.64	0.060	0.020	Hm-7.04	60.00	0.0083	3.50	0.030
Hm-7.05.01	2.05	1.57	0.63	0.060	0.020	Hm-7.05	0.00	0.0000	0.00	0.000
Hm-7.05.02	4.58	2.83	0.13	0.060	0.020	Hm-7.05.01	220.00	0.0001	3.50	0.030
Hm-7.06	3.94	1.06	0.64	0.060	0.020	Hm-7.05	230.00	0.0001	3.50	0.030
Hm-7.07	2.86	0.72	0.67	0.060	0.020	Hm-7.06	270.00	0.0056	3.50	0.030
Hm-8.00	0.28	2.93	0.52	0.060	0.020	Hm-7.00	52.00	0.0010	3.50	0.030
Hm-9.00	2.35	3.63	0.59	0.060	0.020	Hm-8.00	0.00	0.0000	0.00	0.000
Hp-1.00	7.81	2.49	0.33	0.060	0.020	WE-3.00	215.00	0.0005	50.00	0.035
Hp-1.00.01	4.02	1.30	0.43	0.060	0.020	Hp-1.00	245.00	0.0005	3.50	0.035
Hp-1.01	2.30	2.23	0.38	0.060	0.020	Hp-1.00	245.00	0.0005	10.00	0.035
Hp-1.01.01	3.19	1.69	0.54	0.060	0.020	Hp-1.01	150.00	0.0029	5.00	0.040
Hp-1.01.02	8.29	1.13	0.35	0.060	0.020	Hp-1.01.01	0.00	0.0000	0.00	0.000
Hp-1.02	4.12	1.72	0.28	0.060	0.020	Hp-1.01	175.00	0.0029	10.00	0.040
Hp-1.03	4.95	1.22	0.66	0.060	0.020	Hp-1.02	220.00	0.0091	15.00	0.040
Hp-1.04	4.72	1.26	0.64	0.060	0.020	Hp-1.03	100.00	0.0075	3.50	0.030
Hp-1.05	3.43	1.16	0.65	0.060	0.020	Hp-1.04	105.00	0.0024	3.50	0.030
Hp-2.00	10.24	3.20	0.39	0.060	0.020	Hp-1.00	320.00	0.0005	50.00	0.035
Hp-2.01	12.44	1.18	0.62	0.060	0.020	Hp-2.00	315.00	0.0093	10.00	0.040
Hp-3.00	22.02	3.63	0.28	0.060	0.020	Hp-2.00	545.00	0.0005	50.00	0.035
Hy-1.00	6.06	3.58	0.16	0.060	0.020	WE-8.00	190.00	0.0005	15.00	0.030
Hy-1.00.01	7.97	1.35	0.68	0.060	0.020	Hy-1.00	150.00	0.0100	5.00	0.040
Hy-1.00.02	7.22	1.30	0.72	0.060	0.020	Hy-1.00.01	265.00	0.0001	3.50	0.030
Hy-1.01	7.65	1.54	0.87	0.060	0.020	Hy-1.00	105.00	0.0095	5.00	0.040
Hy-1.02	2.42	1.43	0.85	0.060	0.020	Hy-1.01	360.00	0.0028	3.50	0.030
Hy-1.02.01	1.29	1.22	0.86	0.060	0.020	Hy-1.02	275.00	0.0009	3.50	0.030
Hy-1.03	8.56	1.06	0.67	0.060	0.020	Hy-1.02	190.00	0.0001	3.50	0.030
Hy-2.00	6.60	4.55	0.26	0.060	0.020	Hy-1.00	300.00	0.0005	20.00	0.040
RE-1.00	2.98	2.85	0.39	0.060	0.020	WE-2.00	70.00	0.0050	10.00	0.040
RE-1.00.01	3.86	2.74	0.27	0.060	0.020	RE-1.00	255.00	0.0019	5.00	0.040
RE-1.00.02	2.13	5.63	0.64	0.060	0.020	Cy-9.00	200.00	0.0075	5.00	0.040
RE-1.01	3.45	1.46	0.41	0.060	0.020	RE-1.00	75.00	0.0060	10.00	0.040
RE-1.02	2.98	1.22	0.41	0.060	0.020	RE-1.01	190.00	0.0039	5.00	0.040
RE-10.00	3.13	1.00	0.49	0.060	0.020	RE-9.00	135.00	0.0037	3.50	0.030
RE-2.00	4.04	1.69	0.40	0.060	0.020	RE-1.00	80.00	0.0060	10.00	0.040
RE-3.00	4.63	1.30	0.10	0.060	0.020	RE-2.00	225.00	0.0014	3.50	0.030
RE-3.00.01	4.38	0.98	0.35	0.060	0.020	RE-3.00	215.00	0.0001	3.50	0.030
RE-3.01	6.36	0.79	0.03	0.060	0.020	RE-3.00	50.00	0.0050	3.50	0.030
RE-3.02	3.97	1.17	0.33	0.060	0.020	RE-3.01	250.00	0.0005	3.50	0.030
RE-4.00	4.40	2.26	0.41	0.060	0.020	RE-3.00	270.00	0.0001	3.50	0.030
RE-4.00.01	3.08	0.96	0.45	0.060	0.020	RE-4.00	360.00	0.0014	3.50	0.030
RE-4.01	6.44	1.06	0.55	0.060	0.020	RE-4.00	135.00	0.0005	3.50	0.030
RE-4.02	2.94	1.34	0.60	0.060	0.020	RE-4.01	245.00	0.0031	3.50	0.030
RE-5.00	2.04	0.96	0.60	0.060	0.020	RE-4.00	170.00	0.0029	3.50	0.030
RE-6.00	1.42	1.42	0.42	0.060	0.020	RE-5.00	150.00	0.0017	3.50	0.030
RE-6.01	2.10	0.87	0.63	0.060	0.020	RE-6.00	80.00	0.0031	3.50	0.030
RE-7.00	4.23	0.83	0.60	0.060	0.020	RE-6.00	215.00	0.0034	3.50	0.030
RE-8.00	5.21	1.04	0.60	0.060	0.020	RE-7.00	135.00	0.0019	3.50	0.030
RE-9.00	4.35	1.03	0.58	0.060	0.020	RE-8.00	120.00	0.0001	3.50	0.030
WE-1.00	12.78	3.16	0.80	0.060	0.020	Cy-9.00	300.00	0.0001	75.00	0.035
WE-1.01	3.95	2.38	0.76	0.060	0.020	WE-1.00	500.00	0.0090	3.50	0.030
WE-1.02	18.84	15.00	0.19	0.060	0.020	WE-1.01	160.00	0.0219	3.50	0.030
WE-1.03	19.25	15.00	0.28	0.060	0.020	WE-1.02	200.00	0.0025	3.50	0.030
WE-10.00	5.12	1.83	0.40	0.060	0.020	WE-9.00	550.00	0.0005	7.00	0.035
WE-11.00	4.05	1.98	0.85	0.060	0.020	WE-10.00	0.00	0.0000	0.00	0.000
WE-12.00	4.23	6.26	0.33	0.060	0.020	WE-11.00	0.00	0.0000	0.00	0.000
WE-12.01	3.17	4.31	0.67	0.060	0.020	WE-12.00	395.00	0.0001	5.00	0.035
WE-13.00	6.97	3.46	0.26	0.060	0.020	WE-12.00	355.00	0.0001	30.00	0.035
WE-13.00.01	10.58	1.83	0.67	0.060	0.020	WE-13.00	255.00	0.0029	5.00	0.040
WE-13.01	4.93	2.45	0.65	0.060	0.020	WE-13.00	345.00	0.0087	5.00	0.040
WE-13.02	2.54	1.81	0.70	0.060	0.020	WE-13.01	25.00	0.0005	3.50	0.030
WE-13.02.01	12.66	3.03	0.66	0.060	0.020	WE-13.02	0.00	0.0000	0.00	0.000
WE-13.03	3.08	3.18	0.63	0.060	0.020	WE-13.02	225.00	0.0167	3.50	0.030
WE-13.04	11.52	15.00	0.41	0.060	0.020	WE-13.03	320.00	0.0179	3.50	0.030
WE-14.00	14.79	3.25	0.17	0.060	0.020	WE-13.00	220.00	0.0001	50.00	0.035
WE-14.01	3.48	2.06	0.63	0.060	0.020	WE-14.00	490.00	0.0010	15.00	0.040
WE-14.01.01	3.00	1.17	0.71	0.060	0.020	WE-14.01	105.00	0.0167	3.50	0.030
WE-14.01.02	5.48	1.55	0.59	0.060	0.020	WE-14.01	215.00	0.0023	20.00	0.040
WE-14.02	4.89	1.41	0.72	0.060	0.020	WE-14.01	0.00	0.0000	0.00	0.000
WE-14.03	1.50	1.46	0.64	0.060	0.020	WE-14.02	350.00	0.0036	3.50	0.030
WE-14.04	11.06	2.64	0.58	0.060	0.020	WE-14.03	220.00	0.0125	3.50	0.030
WE-15.00	12.67	3.86	0.40	0.060	0.020	WE-14.00	450.00	0.0001	50.00	0.035
WE-15.01	1.85	1.41	0.65	0.060	0.020	WE-15.00	150.00	0.0100	10.00	0.040

Sub-Catchment ID	Area (ha)	Slope (%)	Fraction Impervious	Pern (n*) Pervious	Pern (n*) Impervious	Downstream Node	Reach Length (m)	Reach Slope (m/m)	Reach Width (m)	Reach Manning's n
WE-2.00	5.47	5.73	0.65	0.060	0.020	WE-1.00	280.00	0.0001	50.00	0.030
WE-2.01	3.25	2.12	0.76	0.060	0.020	WE-2.00	230.00	0.0054	3.50	0.030
WE-2.02	4.10	12.06	0.65	0.060	0.020	WE-2.01	180.00	0.0167	3.50	0.030
WE-3.00	5.97	4.58	0.46	0.060	0.020	WE-2.00	300.00	0.0001	50.00	0.030
WE-4.00	8.08	2.67	0.35	0.060	0.020	WE-3.00	340.00	0.0001	35.00	0.030
WE-4.00.01	1.75	2.57	0.63	0.060	0.020	WE-4.00	480.00	0.0083	3.50	0.030
WE-4.00.02	11.71	15.00	0.16	0.060	0.020	WE-4.00.01	0.00	0.0000	0.00	0.000
WE-4.01	0.46	2.81	0.40	0.060	0.020	WE-4.00	290.00	0.0034	3.50	0.030
WE-4.02	9.65	15.00	0.57	0.060	0.020	WE-4.01	70.00	0.0107	3.50	0.030
WE-5.00	5.29	3.35	0.18	0.060	0.020	WE-4.00	215.00	0.0001	25.00	0.030
WE-6.00	2.21	3.78	0.48	0.060	0.020	WE-5.00	125.00	0.0001	25.00	0.030
WE-6.01	3.19	2.16	0.65	0.060	0.020	WE-6.00	200.00	0.0088	3.50	0.030
WE-6.02	1.00	2.67	0.74	0.060	0.020	WE-6.01	140.00	0.0196	3.50	0.030
WE-6.02.01	4.65	3.76	0.15	0.060	0.020	WE-6.02	115.00	0.0087	3.50	0.030
WE-6.03	3.58	4.61	0.29	0.060	0.020	WE-6.02	95.00	0.0289	5.00	0.040
WE-6.04	7.83	15.00	0.09	0.060	0.020	WE-6.03	280.00	0.0161	15.00	0.040
WE-7.00	2.95	3.95	0.48	0.060	0.020	WE-6.00	95.00	0.0001	25.00	0.030
WE-8.00	1.86	4.95	0.59	0.060	0.020	WE-7.00	135.00	0.0001	25.00	0.030
WE-8.01	2.82	1.83	0.63	0.060	0.020	WE-8.00	80.00	0.0219	3.50	0.030
WE-8.02	2.64	2.21	0.58	0.060	0.020	WE-8.01	130.00	0.0173	3.50	0.030
WE-8.03	0.48	2.95	0.40	0.060	0.020	WE-8.02	120.00	0.0167	3.50	0.030
WE-8.04	2.14	2.51	0.73	0.060	0.020	WE-8.03	30.00	0.0250	3.50	0.030
WE-8.05	1.82	4.19	0.65	0.060	0.020	WE-8.04	130.00	0.0212	3.50	0.030
WE-8.06	1.47	4.77	0.65	0.060	0.020	WE-8.05	120.00	0.0458	3.50	0.030
WE-8.07	0.73	15.00	0.24	0.060	0.020	WE-8.06	96.00	0.0469	3.50	0.030
WE-8.08	0.67	8.24	0.63	0.060	0.020	WE-8.07	0.00	0.0000	0.00	0.000
WE-8.09	2.27	15.00	0.33	0.060	0.020	WE-8.08	105.00	0.0619	3.50	0.030
WE-9.00	16.40	2.01	0.10	0.060	0.020	WE-8.00	205.00	0.0001	25.00	0.035
WE-9.01	4.04	2.24	0.73	0.060	0.020	WE-9.00	580.00	0.0112	5.00	0.040
WE-9.01.01	0.59	3.33	0.50	0.060	0.020	WE-9.01	0.00	0.0000	0.00	0.000
WE-9.02	4.52	3.29	0.66	0.060	0.020	WE-9.01	150.00	0.0083	3.50	0.030
WE-9.03	3.64	6.23	0.65	0.060	0.020	WE-9.02	175.00	0.0171	5.00	0.040
WE-9.04	35.36	15.00	0.04	0.060	0.020	WE-9.03	125.00	0.0340	5.00	0.040

Appendix B – Culvert and Bridge Details

Bridge Details

<i>Branch</i>	<i>Chanage</i>	<i>ID</i>	<i>Soffit (m AHD)</i>	<i>Deck (m AHD)</i>	<i>Width (m)</i>
Ross Ck_Race	15	V8 Supercar	2.5	3.5	16.5
RossCk_Rail	12	Rail Station	2.263	3.863	21.9
RossCk_Aband2	3	Abandoned Rail 2	2.9	3.4	6
RossCk_Aband1	3	Abandoned Rail 1	3.7	4.1	4
RossCk_Victoria	12.5	Victoria Bridge	4.5	6	11.5
RossCk_Denham	15	Denham Street	4.8	6.8	20.5

Culvert Details

<i>Branch</i>	<i>Chanage</i>	<i>ID</i>	<i>Upstream IL (m AHD)</i>	<i>Downstream IL (m AHD)</i>	<i>Length (m AHD)</i>	<i>Manning's 'n'</i>	<i>Nos. of Culverts</i>	<i>Geometry</i>	<i>Diameter (m)</i>	<i>Width (m)</i>	<i>Height (m)</i>
Woolcock_Charters1	18	WoolChart1a	-1.2	-1.255	36	0.018	2	Rectangular		3	2.7
Woolcock_Charters1	18	WoolChar1b	-1.2	-1.255	36	0.018	1	Rectangular		3.6	2.7
Woolcock_Charters2	19.5	WoolChar2	-1.3	-1.33	39	0.018	1	Rectangular		9.2	4.4
Woolcock_Sturt1	28.25	WoolSturt1a	-0.469	-0.598	56.5	0.018	2	Rectangular		3	2.7
Woolcock_Sturt1	28.25	WoolSturt1b	-0.469	-0.598	56.5	0.018	1	Rectangular		3.6	2.8
Woolcock_Sturt2	14.5	WoolSturt2	-1.15	-1.2	29	0.018	1	Rectangular		9.1	4.5
RossCk_Lowths	13.5	Lowths Bridge	-1.533	-1.533	27	0.018	1	Irregular, Level-Width Table			
RossCk_Boundary	13	Boundary St	-0.096	-0.306	22.135	0.02	3	Circular	1.2		
RossCk_Queens1	15.5	Queens RD	0.386	0.377	30	0.02	2	Circular	1.2		

Appendix C – Underground Drainage Details

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
163243	3	RCBC	2.21	1.42	22.68	0.94	0.0	0.9	0.8	0.025	0206A6U	0206A5U
163638	3	RCBC	0.36	0.23	42.01	0.29	0.0	1.2	1.4	0.025	0206A03U	0206A2U
163644	1	RCP	0.73	0.58	6.00	2.41	1.2	0.0	0.0	0.025	0206A3U	0206A003U
164013	1	RCP	-0.14	-0.67	83.84	0.63	1.1	0.0	0.0	0.025	0206A02U	0206A1D
164042	1	RCP	0.17	-0.14	48.58	0.64	1.1	0.0	0.0	0.025	0206A002U	0206A02U
193772	1	RCP	4.29	3.40	60.07	1.47	0.9	0.0	0.0	0.025	0009A6U	0009A5U
193778	1	RCP	5.14	4.60	45.23	1.20	0.9	0.0	0.0	0.025	0009A07U	0009A6U
199518	1	RCP	3.96	2.72	77.14	1.61	0.8	0.0	0.0	0.025	0113A3U	0113A2U
199521	1	RCP	4.42	3.96	28.95	1.59	0.8	0.0	0.0	0.025	0113A4U	0113A3U
199523	1	RCP	5.40	4.42	60.50	1.62	0.8	0.0	0.0	0.025	0113A5U	0113A4U
274883	1	RCP	1.00	0.12	90.50	0.98	1.5	0.0	0.0	0.025	0009A03U	0009AF2U
274883a	1	RCP	1.00	0.74	73.77	0.35	1.5	0.0	0.0	0.025	0009A03U	0009A2U
274885	1	RCP	0.10	-0.40	19.27	2.62	1.5	0.0	0.0	0.025	0009AF2U	0009AF1D
33677	3	RCBC	1.55	1.46	110.99	0.08	0.0	0.9	0.6	0.025	0203A9U	0203A8U
33683	3	RCBC	1.46	1.40	99.89	0.06	0.0	0.9	0.6	0.025	0203A8U	0203A7U
33687	3	RCBC	1.40	1.38	5.70	0.35	0.0	0.9	0.6	0.025	0203A7U	0203A6U
352408	1	RCP	0.10	-0.10	114.80	0.17	1.2	0.0	0.0	0.025	0029A05U	0029A4U
352408_2	1	RCP	0.20	0.10	24.06	0.83	1.2			0.025	0029A5U	0029A05U
35642	1	RCP	1.04	0.15	129.75	0.69	0.9	0.0	0.0	0.025	0243AK2U	0243AK1U
356434	1	RCP	1.05	0.95	16.41	0.61	0.9	0.0	0.0	0.025	0203A03U	0203A2U
35648	1	RCP	0.15	0.11	21.54	0.19	0.9	0.0	0.0	0.025	0243AK1U	0243A9U
35660	3	RCBC	1.58	1.57	33.90	0.03	0.0	0.9	0.6	0.025	0243A18U	0243A17U
35664	3	RCBC	1.57	1.56	3.81	0.26	0.0	0.9	0.6	0.025	0243A17U	0243A16U
35666	3	RCBC	1.56	1.45	13.69	0.80	0.0	0.9	0.6	0.025	0243A16U	0243A15U
35748	1	RCP	1.13	0.55	254.56	0.23	0.9	0.0	0.0	0.025	0249A10U	0249A8U
35758	1	RCP	0.55	0.49	23.66	0.25	1.2	0.0	0.0	0.025	0249A8U	0249A7U
35760	1	RCP	0.49	0.11	169.14	0.22	1.2	0.0	0.0	0.025	0249A7U	0249A6U
35824	1	RCP	6.55	6.15	16.87	2.37	0.8	0.0	0.0	0.025	0206A8U	0206A7U
35867	1	RCP	6.26	6.19	20.80	0.34	0.8	0.0	0.0	0.025	0113A10U	0113A9U
35890	1	RCP	6.82	6.50	21.10	1.51	0.8	0.0	0.0	0.025	0009A10U	0009A8U
35894	1	RCP	6.04	5.99	5.14	0.93	0.8	0.0	0.0	0.025	0009A8U	0009A7U
35896	1	RCP	5.45	5.40	6.41	0.78	0.9	0.0	0.0	0.025	0009A7U	0009A07U
36475	1	RCP	4.42	4.08	31.80	1.07	0.9	0.0	0.0	0.025	0305AA7U	0305A7U
36580	1	RCP	6.26	5.82	41.70	1.06	1.2	0.0	0.0	0.025	0160A4U	0160A3U
36582	1	RCP	5.74	5.65	6.93	1.30	1.2	0.0	0.0	0.025	0160A3U	0160A2U
36592	1	RCP	5.62	-0.16	298.71	1.93	1.2	0.0	0.0	0.025	0160A2U	0160A1D
36797	1	RCP	2.90	2.50	20.10	1.99	1.2	0.0	0.0	0.025	0242JA1U	0242JB2U
36799	1	RCP	2.34	-0.40	116.82	2.35	1.2	0.0	0.0	0.025	0242JB2U	0242J1D
36813	1	RCP	0.07	0.02	46.58	0.11	1.2	0.0	0.0	0.025	0242AD1U	0242A4U
36821	1	RCP	0.02	-0.29	111.81	0.28	1.2	0.0	0.0	0.025	0242A4U	0242A3U
36831	1	RCP	-0.29	-0.37	31.26	0.26	1.2	0.0	0.0	0.025	0242A3U	0242A2U
36833	1	RCP	-0.37	-0.45	27.83	0.29	1.2	0.0	0.0	0.025	0242A2U	0242A1D
36970	1	RCP	4.43	4.43	0.50	0.00	0.9	0.0	0.0	0.025	0305AA8U	0305AA7U
36990	1	RCP	5.13	4.40	58.63	1.25	0.9	0.0	0.0	0.025	0305A10U	0305A9U
36994	1	RCP	4.23	4.23	1.56	0.32	0.9	0.0	0.0	0.025	0305A9U	0305A8U
36998	1	RCP	4.20	4.10	7.77	1.29	0.9	0.0	0.0	0.025	0305A8U	0305A7U
37010	1	RCP	4.08	3.40	47.01	1.45	0.9	0.0	0.0	0.025	0305A7U	0305A6U
37016	1	RCP	3.00	2.00	55.69	1.80	0.9	0.0	0.0	0.025	0305A6U	0305A5U
37018	1	RCP	1.90	1.20	46.94	1.49	0.9	0.0	0.0	0.025	0305A5U	0305A3U
37020	1	RCP	1.23	1.11	30.53	0.40	0.9	0.0	0.0	0.025	0305A5U	0305A4U
37025	1	RCP	1.11	1.05	16.42	0.36	0.9	0.0	0.0	0.025	0305A4U	0305A3U
37036	1	RCP	1.05	-0.20	37.23	3.36	0.9	0.0	0.0	0.025	0305A3U	0305A2U
37038	1	RCP	1.05	-0.20	37.23	3.36	0.9	0.0	0.0	0.025	0305A3U	0305A2U
37039	1	RCP	-0.49	-0.72	62.52	0.37	1.1	0.0	0.0	0.025	0305A2U	0305A1Da
37041	1	RCP	-0.49	-0.72	62.52	0.37	1.1	0.0	0.0	0.025	0305A2U	0305A1D
37042	1	RCP	1.16	0.20	42.73	2.25	1.7	0.0	0.0	0.025	0270A3U	0270A03U
37048	1	RCP	0.19	-0.95	156.01	0.73	1.8	0.0	0.0	0.025	0270A2U	0270A1D
37053	1	RCP	6.19	6.15	11.76	0.34	0.8	0.0	0.0	0.025	0113A9U	0113A7U
375952	1	RCP	-0.31	-0.34	27.44	0.11	1.5	0.0	0.0	0.025	0290A10U	0290A9U
375955	1	RCP	-0.31	-0.34	27.44	0.11	1.5	0.0	0.0	0.025	0290A10U	0290A9U
37770	3	RCBC	1.42	0.73	20.08	3.46	0.0	0.9	0.8	0.025	0206A5U	0206A3U
37780	1	RCP	0.23	0.17	25.03	0.26	1.1	0.0	0.0	0.025	0206A2U	0206A002U
37783	1	RCP	6.15	5.72	48.60	0.89	0.8	0.0	0.0	0.025	0113A7U	0113A6U
37785	1	RCP	5.64	5.59	7.35	0.75	0.8	0.0	0.0	0.025	0113A6U	0113A5U
37793	3	RCBC	2.72	0.97	86.96	2.01	0.0	0.9	1.0	0.025	0113A2U	0113A1D
378368	3	RCBC	0.58	0.36	9.24	2.38	0.0	1.7	1.2	0.025	0206A003U	0206A03U
38161	1	RCP	1.94	1.47	53.64	0.88	1.2	0.0	0.0	0.025	0009A4U	0009A3U
38163	1	RCP	1.16	1.00	32.91	0.49	1.5	0.0	0.0	0.025	0009A3U	0009A03U
38165	1	RCP	0.74	0.02	126.27	0.57	1.8	0.0	0.0	0.025	0009A2U	0009A1D
38381	3	RCBC	14.71	14.02	23.59	2.93	0.0	1.8	1.5	0.025	0270A30U	0270A28U
38383	3	RCBC	14.02	13.88	4.56	3.07	0.0	1.8	1.0	0.025	0270A28U	0270A27U
38385	3	RCBC	13.88	13.14	27.84	2.66	0.0	1.8	1.0	0.025	0270A27U	0270A26U
38387	3	RCBC	13.14	12.53	20.27	3.01	0.0	1.5	1.2	0.025	0270A26U	0270A25U
38389	3	RCBC	12.53	11.61	30.30	3.04	0.0	1.5	1.2	0.025	0270A25U	0270A24U

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
38411	3	RCBC	11.61	10.82	25.13	3.14	0.0	1.5	1.2	0.025	0270A24U	0270A23U
38413	3	RCBC	10.82	10.50	10.32	3.10	0.0	1.5	1.2	0.025	0270A23U	0270A22U
38415	3	RCBC	10.50	9.80	24.55	2.85	0.0	1.6	1.2	0.025	0270A22U	0270A21U
38417	3	RCBC	9.03	7.91	45.15	2.48	0.0	1.5	1.5	0.025	0270A21U	0270A19U
38463	3	RCBC	7.91	7.30	32.96	1.85	0.0	1.5	1.5	0.025	0270A19U	0270A18U
38465	3	RCBC	7.09	6.45	36.33	1.76	0.0	1.5	1.5	0.025	0270A18U	0270A17U
38505	1	RCP	3.59	3.40	13.33	1.43	1.7	0.0	0.0	0.025	0270A12U	0270A11U
38507	1	RCP	3.29	3.20	6.26	1.44	1.7	0.0	0.0	0.025	0270A11U	0270A10U
38511	1	RCP	3.15	3.05	8.47	1.18	1.7	0.0	0.0	0.025	0270A10U	0270A9U
38515	1	RCP	2.95	2.87	5.71	1.40	1.7	0.0	0.0	0.025	0270A9U	0270A8U
38523	1	RCP	2.83	2.58	16.20	1.54	1.7	0.0	0.0	0.025	0270A8U	0270A7U
38533	1	RCP	2.46	2.32	10.71	1.31	1.7	0.0	0.0	0.025	0270A7U	0270A6U
38535	1	RCP	2.23	1.58	45.49	1.43	1.7	0.0	0.0	0.025	0270A6U	0270A5U
38537	1	RCP	1.20	1.19	0.71	1.40	1.7	0.0	0.0	0.025	0270A5U	0270A4U
38544	1	RCP	1.18	1.17	1.02	0.98	1.7	0.0	0.0	0.025	0270A4U	0270A3U
38738	3	RCBC	8.42	7.52	22.23	4.05	0.0	0.9	0.9	0.025	0272A15U	0272A14U
38744	3	RCBC	7.52	7.47	1.24	4.03	0.0	0.9	0.9	0.025	0272A14U	0272A13U
38747	3	RCBC	7.47	7.31	3.82	4.19	0.0	0.9	0.9	0.025	0272A13U	0272A12U
38749	3	RCBC	7.20	5.70	41.98	3.57	0.0	0.9	0.9	0.025	0272A12U	0272A11U
38751	3	RCBC	5.61	5.00	18.05	3.38	0.0	0.9	0.9	0.025	0272A11U	0272A011U
38753	3	RCBC	3.64	3.20	14.43	3.05	0.0	0.9	0.9	0.025	0272A10U	0272A9U
38961	1	RCP	9.85	6.73	108.29	2.88	0.8	0.0	0.0	0.025	0164A7U	0164A6U
38963	1	RCP	6.73	6.17	22.06	2.54	0.8	0.0	0.0	0.025	0164A6U	0164A5U
38969	1	RCP	6.17	4.29	74.12	2.54	0.9	0.0	0.0	0.025	0164A5U	0164A45U
38969_2	1	RCP	4.29	2.90	51.08	2.72	0.9			0.025	0164A45U	0164A4U
38977	3	RCBC	2.90	2.07	22.46	3.70	0.9	0.9	0.9	0.025	0164A4U	0164A3U
38985	3	RCBC	2.07	0.17	85.37	2.22	0.0	1.8	0.6	0.025	0164A3U	0164A1D
39128	1	RCP	4.50	3.89	26.36	2.31	1.1	0.0	0.0	0.025	0078A8U	0078A5U
39146	1	RCP	3.89	2.28	69.45	2.32	1.1	0.0	0.0	0.025	0078A5U	0078A004U
39162	1	RCP	3.89	2.28	69.45	2.32	0.9	0.0	0.0	0.025	0078A5U	0078A004U
39164	1	RCP	1.34	1.26	2.63	3.05	0.9	0.0	0.0	0.025	0078A3U	0078A2U
39170	1	RCP	1.26	-0.73	68.15	2.92	0.9	0.0	0.0	0.025	0078A2U	0078A1D
40392	1	RCP	1.48	1.35	32.20	0.40	1.2	0.0	0.0	0.025	0250A6U	0250A3U
40398	1	RCP	1.35	1.30	14.62	0.34	1.4	0.0	0.0	0.025	0250A3U	0250A2U
40402	1	RCP	1.30	1.24	6.88	0.83	1.4	0.0	0.0	0.025	0250A2U	0250A1D
42043	1	RCP	0.35	0.30	55.98	0.09	0.8	0.0	0.0	0.025	0205C7U	0205C6U
42045	1	RCP	0.30	0.25	54.18	0.09	0.8	0.0	0.0	0.025	0205C6U	0205C5U
42049	1	RCP	0.25	0.20	22.82	0.22	0.8	0.0	0.0	0.025	0205C5U	0205C4U
42053	1	RCP	0.20	0.15	141.30	0.04	0.8	0.0	0.0	0.025	0205C4U	0205C3U
42061	1	RCP	0.15	0.11	38.63	0.10	1.2	0.0	0.0	0.025	0205C3U	0205C2U
42063	1	RCP	0.11	0.10	14.31	0.07	1.2	0.0	0.0	0.025	0205C2U	0205C1D
42068	1	RCP	0.11	0.00	63.27	0.17	1.7	0.0	0.0	0.025	0205D4U	0205D3U
42070	1	RCP	0.00	-0.08	50.84	0.16	1.7	0.0	0.0	0.025	0205D3U	0205D2U
42074	1	RCP	-0.08	-0.22	10.55	1.33	1.7	0.0	0.0	0.025	0205D2U	0205D1D
42081	1	RCP	0.30	0.20	12.58	0.79	0.9	0.0	0.0	0.025	0205B5U	0205B4U
42085	1	RCP	0.20	0.06	40.68	0.34	0.9	0.0	0.0	0.025	0205B4U	0205B3U
42093	1	RCP	0.06	0.01	19.32	0.26	0.9	0.0	0.0	0.025	0205B3U	0205B2U
42095	1	RCP	0.01	-0.14	13.60	1.10	0.9	0.0	0.0	0.025	0205B2U	0205B1D
42117	1	RCP	1.16	1.13	25.20	0.12	1.1	0.0	0.0	0.025	0290A23U	0290A22U
42119	1	RCP	1.46	1.43	23.71	0.13	0.9	0.0	0.0	0.025	0290AZW2U	0290AZW1U
42121	1	RCP	1.33	1.23	82.42	0.12	0.9	0.0	0.0	0.025	0290AZW1U	0290A22U
42123	1	RCP	0.85	0.77	50.42	0.16	1.2	0.0	0.0	0.025	0290A22U	0290A21U
42127	1	RCP	0.77	0.58	43.59	0.44	1.2	0.0	0.0	0.025	0290A21U	0290A20U
42133	1	RCP	0.53	0.47	50.00	0.12	1.4	0.0	0.0	0.025	0290A20U	0290A19U
42139	1	RCP	0.45	0.36	61.72	0.15	1.4	0.0	0.0	0.025	0290A19U	0290A18U
42143	1	RCP	0.36	0.36	4.06	0.00	1.4	0.0	0.0	0.025	0290A18U	0290A17U
42147	1	RCP	0.36	0.20	21.11	0.76	1.4	0.0	0.0	0.025	0290A17U	0290A16U
42165	1	RCP	0.70	0.68	13.92	0.14	1.1	0.0	0.0	0.025	0290AU2U	0290AU1U
42169	1	RCP	0.68	0.62	80.10	0.07	1.1	0.0	0.0	0.025	0290AU1U	0290A16U
42205	1	RCP	1.14	1.08	67.02	0.09	1.2	0.0	0.0	0.025	0290AV2U	0290AV1U
42207	1	RCP	1.06	1.00	65.00	0.09	1.2	0.0	0.0	0.025	0290AV1U	0290A16U
42209	1	RCP	0.14	0.11	42.26	0.07	1.5	0.0	0.0	0.025	0290A16U	0290A15U
42212	3	RCBC	-0.88	-0.96	64.98	0.12	0.0	3.6	2.1	0.025	0290A2U	0290A1U
42212_2	3	RCBC	-0.96	-1.09	121.19	0.11		3.6	2.1	0.025	0290A1U	0290A1D
42216	1	RCP	0.11	0.07	47.42	0.08	1.5	0.0	0.0	0.025	0290A15U	0290A14U
42223	1	RCP	0.07	0.05	35.29	0.06	1.5	0.0	0.0	0.025	0290A14U	0290A13U
42228	1	RCP	0.05	0.02	42.93	0.07	1.5	0.0	0.0	0.025	0290A13U	0290A12U
42235	1	RCP	0.02	-0.01	37.80	0.08	1.5	0.0	0.0	0.025	0290A12U	0290A11U
42242	1	RCP	-0.01	-0.01	13.45	0.00	1.5	0.0	0.0	0.025	0290A11U	0290A10U
42252	1	RCP	-0.34	-0.36	38.73	0.05	1.8	0.0	0.0	0.025	0290A9U	0290A8U
42257	1	RCP	-0.36	-0.38	33.91	0.06	1.8	0.0	0.0	0.025	0290A8U	0290A7U
42262	1	RCP	-0.38	-0.41	60.02	0.05	1.8	0.0	0.0	0.025	0290A7U	0290A6U
42269	1	RCP	-0.41	-0.44	57.17	0.05	1.8	0.0	0.0	0.025	0290A6U	0290A06U
42274	1	RCP	-0.44	-0.46	29.72	0.07	1.8	0.0	0.0	0.025	0290A06U	0290A5U

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
42299	3	RCBC	1.04	0.90	50.77	0.28	0.0	0.6	0.6	0.025	0290AD6U	0290AD5U
42305	3	RCBC	0.81	0.61	117.03	0.17	0.0	0.9	0.8	0.025	0290AD5U	0290AD4U
42309	3	RCBC	0.43	0.37	101.04	0.06	0.0	1.2	0.9	0.025	0290AD4U	0290AD3U
42313	1	RCP	0.22	0.21	8.00	0.12	1.2	0.0	0.0	0.025	0290AD3U	0290AD2U
42325	1	RCP	0.07	-0.20	62.36	0.43	1.4	0.0	0.0	0.025	0290AD2U	0290AD1U
42329	1	RCP	-0.30	-0.40	26.00	0.38	1.4	0.0	0.0	0.025	0290AD1U	0290A5U
42331	1	RCP	-0.46	-0.63	31.60	0.54	1.8	0.0	0.0	0.025	0290A5U	0290A4U
42336	1	RCP	-0.63	-0.72	18.80	0.48	1.8	0.0	0.0	0.025	0290A4U	0290A3U
42341	1	RCP	-0.72	-0.88	30.00	0.53	1.8	0.0	0.0	0.025	0290A3U	0290A2U
42354	1	RCP	0.32	0.28	37.26	0.11	1.1	0.0	0.0	0.025	0290AA6U	0290AA5U
42358	1	RCP	0.28	0.26	11.64	0.17	1.1	0.0	0.0	0.025	0290AA5U	0290AA4U
42362	1	RCP	0.26	0.20	15.66	0.38	1.1	0.0	0.0	0.025	0290AA4U	0290AA3U
42366	1	RCP	0.08	-0.14	22.20	0.99	1.4	0.0	0.0	0.025	0290AA3U	0290AA2U
42370	1	RCP	-0.29	-0.31	17.00	0.12	1.5	0.0	0.0	0.025	0290AA2U	0290AA1U
42378	1	RCP	0.25	0.21	16.80	0.24	1.1	0.0	0.0	0.025	0290AAB2U	0290AAB1U
42382	1	RCP	-0.11	-0.14	5.56	0.54	1.4	0.0	0.0	0.025	0290AAB1U	0290AA1U
42386	1	RCP	-0.31	-0.33	16.94	0.12	1.5	0.0	0.0	0.025	0290AA1U	0290A2U
42392	3	RCBC	1.38	1.36	19.97	0.10	0.0	0.9	0.6	0.025	0203A6U	0203A5U
42396	3	RCBC	1.36	1.35	10.43	0.10	0.0	0.9	0.6	0.025	0203A5U	0203AH1U
42400	3	RCBC	1.35	1.34	7.87	0.13	0.0	0.9	0.6	0.025	0203AH1U	0203A4U
42402	3	RCBC	1.34	1.25	81.81	0.11	0.0	0.9	0.6	0.025	0203A4U	0203A3U
42406	3	RCBC	1.25	1.15	32.08	0.31	0.0	0.9	0.6	0.025	0203A3U	0203A03U
42416	1	RCP	0.95	0.85	31.00	0.32	0.9	0.0	0.0	0.025	0203A2U	0203A1D
42432	1	RCP	0.11	0.02	67.93	0.13	1.2	0.0	0.0	0.025	0249A6U	0249A5U
42434	1	RCP	0.02	-0.01	25.14	0.12	1.2	0.0	0.0	0.025	0249A5U	0249A4U
42436	1	RCP	-0.01	-0.04	30.65	0.10	1.2	0.0	0.0	0.025	0249A4U	0249A3U
42438	1	RCP	-0.04	-0.08	28.72	0.14	1.2	0.0	0.0	0.025	0249A3U	0249A2U
42440	1	RCP	-0.08	-0.11	23.34	0.13	1.2	0.0	0.0	0.025	0249A2U	0249A1D
42716	1	RCP	1.23	1.15	32.11	0.25	0.9	0.0	0.0	0.025	0290AZR5U	0290AZR4U
42720	1	RCP	0.97	0.87	50.71	0.20	1.1	0.0	0.0	0.025	0290AZR4U	0290AZR3U
42722	1	RCP	0.79	0.72	15.78	0.44	1.1	0.0	0.0	0.025	0290AZR3U	0290AZR2U
42726	1	RCP	0.72	0.68	43.38	0.09	1.1	0.0	0.0	0.025	0290AZR2U	0290AZR1U
42728	1	RCP	0.65	0.54	57.50	0.19	1.1	0.0	0.0	0.025	0290AZR1U	0290A10U
42817	3	RCBC	0.50	0.40	78.98	0.13	0.0	0.9	0.6	0.025	0287A4U	0287A3U
42821	3	RCBC	0.40	0.33	58.80	0.12	0.0	1.2	0.8	0.025	0287A3U	0287A2U
42823	3	RCBC	0.33	0.23	45.98	0.22	0.0	1.2	0.8	0.025	0287A2U	0287A1D
42839	1	RCP	0.53	0.25	85.79	0.32	0.9	0.0	0.0	0.025	0111A3U	0111A2U
42841	1	RCP	0.23	0.23	10.52	0.00	0.9	0.0	0.0	0.025	0111A2U	0111A1D
42929	1	RCP	1.16	1.14	9.63	0.21	0.9	0.0	0.0	0.025	0243A15U	0243A14U
42931	1	RCP	1.13	1.11	36.21	0.06	0.9	0.0	0.0	0.025	0243A14U	0243A13U
42935	1	RCP	1.08	0.99	71.80	0.13	0.9	0.0	0.0	0.025	0243A13U	0243A12U
42957	1	RCP	0.42	0.41	16.14	0.06	1.4	0.0	0.0	0.025	0243A12U	0243A11U
42961	1	RCP	0.41	0.40	30.59	0.03	1.4	0.0	0.0	0.025	0243A11U	0243A10U
42965	1	RCP	0.40	0.34	90.57	0.07	1.4	0.0	0.0	0.025	0243A10U	0243A9U
42967	1	RCP	0.11	-0.03	72.15	0.19	1.7	0.0	0.0	0.025	0243A9U	0243A8U
42971	1	RCP	-0.03	-0.04	42.99	0.02	1.4	0.0	0.0	0.025	0243A8U	0243A7U
42999	1	RCP	1.31	1.10	67.54	0.31	0.9	0.0	0.0	0.025	0243AH1U	0243A7U
43001	1	RCP	-0.06	-0.06	11.31	0.00	1.4	0.0	0.0	0.025	0243A7U	0243A6U
43005	1	RCP	-0.06	-0.11	136.38	0.04	1.4	0.0	0.0	0.025	0243A6U	0243A5U
43019	1	RCP	-0.11	-0.11	7.03	0.00	1.4	0.0	0.0	0.025	0243A5U	0243A4U
43023	1	RCP	-0.11	-0.15	100.65	0.04	1.5	0.0	0.0	0.025	0243A4U	0243A3U
43027	1	RCP	-0.15	-0.27	109.13	0.11	1.5	0.0	0.0	0.025	0243A3U	0243A2U
43051	1	RCP	1.68	1.12	62.82	0.89	0.9	0.0	0.0	0.025	0243AA4U	0243AA3U
43053	1	RCP	1.12	1.03	9.51	0.95	0.9	0.0	0.0	0.025	0243AA3U	0243AA2U
43057	1	RCP	1.03	0.42	68.77	0.89	0.9	0.0	0.0	0.025	0243AA2U	0243AA1U
43061	1	RCP	0.42	-0.27	78.45	0.88	0.9	0.0	0.0	0.025	0243AA1U	0243A2U
43065	1	RCP	-0.27	-0.29	40.17	0.05	1.7	0.0	0.0	0.025	0243A2U	0243A02U
43423	1	RCP	0.65	0.40	41.27	0.61	0.6	0.0	0.0	0.025	0029A07U	0029A007U
43425	1	RCP	0.27	0.20	115.91	0.06	1.2	0.0	0.0	0.025	0029A6U	0029A5U
43442	3	RCBC	1.79	1.70	11.39	0.79		2.4	0.5	0.025	0029AC10U	0029AC9U
43449	3	RCBC	1.52	1.51	9.67	0.10	0.0	1.4	0.8	0.025	0029AC7U	0029AC6U
43453	3	RCBC	1.51	1.48	23.38	0.13	0.0	1.4	0.8	0.025	0029AC6U	0029AC5U
43455	3	RCBC	1.48	1.45	35.64	0.08	0.0	1.4	0.8	0.025	0029AC5U	0029AC4U
43461	3	RCBC	1.45	1.40	22.82	0.22	0.0	1.4	0.8	0.025	0029AC4U	0029AC3U
43469	1	RCP	1.40	0.30	152.23	0.72	1.2	0.0	0.0	0.025	0029AC3U	0029A5U
43471	1	RCP	0.10	-0.10	114.80	0.17	1.2	0.0	0.0	0.025	0029A05U	0029A4U
43471_2	1	RCP	0.20	0.10	24.06	0.42	1.2			0.025	0029A5U	0029A05U
43476	1	RCP	-0.10	-0.20	88.93	0.11	1.2	0.0	0.0	0.025	0029A4U	0029A3U
43479	1	RCP	-0.20	-0.35	209.21	0.07	1.2	0.0	0.0	0.025	0029A3U	0029A2U
43479_2	1	RCP	-0.20	-0.35	209.21	0.07	1.2			0.025	0029A3U	0029A2U
43540	1	RCP	1.02	0.75	103.39	0.26	0.6	0.0	0.0	0.025	0029AA3U	0029AA2U
43542	1	RCP	0.75	0.33	112.78	0.37	0.9	0.0	0.0	0.025	0029AA2U	0029AA1U
43544	1	RCP	0.33	0.30	120.47	0.02	1.1	0.0	0.0	0.025	0029AA1U	0029A5U
43605	1	RCP	1.27	0.70	100.90	0.56	0.9	0.0	0.0	0.025	0039A7U	0039A6U

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
43611	1	RCP	1.47	0.70	98.13	0.78	0.9	0.0	0.0	0.025	0039AD1U	0039A6U
43619	1	RCP	0.70	0.23	91.80	0.51	1.2	0.0	0.0	0.025	0039A6U	0039A5U
43621	1	RCP	0.23	0.23	9.69	0.00	1.2	0.0	0.0	0.025	0039A5U	0039A4U
43626	1	RCP	0.23	0.23	9.74	0.00	0.9	0.0	0.0	0.025	0039A5U	0039B4U
43647	1	RCP	0.15	-0.07	87.50	0.25	1.4	0.0	0.0	0.025	0039A3U	0039A2U
43649	1	RCP	-0.07	-0.09	52.94	0.04	1.4	0.0	0.0	0.025	0039A2U	0039A1D
43652	1	RCP	0.15	-0.07	89.11	0.25	1.1	0.0	0.0	0.025	0039B3U	0039B2U
43654	1	RCP	-0.07	-0.09	45.46	0.04	1.1	0.0	0.0	0.025	0039B2U	0039B1D
43685	1	RCP	1.05	0.25	158.94	0.50	0.9	0.0	0.0	0.025	0168A2U	0168A1D
44600	1	RCP	0.38	0.06	44.63	0.72	0.9	0.0	0.0	0.025	0311A5U	0311A4U
44606	1	RCP	0.06	-0.12	24.32	0.74	0.9	0.0	0.0	0.025	0311A4U	0311A3U
44608	1	RCP	-0.12	-0.17	6.12	0.82	0.9	0.0	0.0	0.025	0311A3U	0311A2U
44610	1	RCP	-0.17	-0.41	33.89	0.71	0.9	0.0	0.0	0.025	0311A2U	0311A1D
46397	1	RCP	-0.29	-0.32	91.05	0.03	1.7	0.0	0.0	0.025	0243A02U	0243A1D
48780	3	RCBC	-0.50	-0.73	56.97	0.40	0.0	0.6	0.6	0.025	0115E2U	0115E1D
51068	1	RCP	1.82	-0.47	205.07	1.12	0.9	0.0	0.0	0.025	0177A2U	0177A1D
51070	1	RCP	2.51	1.82	61.88	1.12	0.9	0.0	0.0	0.025	0177A3U	0177A2U
51072	1	RCP	2.90	2.51	34.29	1.14	0.9	0.0	0.0	0.025	0177A4U	0177A3U
51074	1	RCP	3.73	2.90	72.10	1.15	0.8	0.0	0.0	0.025	0177A5U	0177A4U
51076	1	RCP	3.80	3.73	6.33	1.11	0.6	0.0	0.0	0.025	0177A6U	0177A5U
52071	3	RCBC	1.54	1.52	23.43	0.09	0.0	1.5	0.8	0.025	0029AC08U	0029AC7U
52075	3	RCBC	1.54	1.54	3.92	0.00	0.0	1.5	0.8	0.025	0029AC8U	0029AC08U
52077	3	RCBC	1.57	1.54	40.39	0.07	0.0	1.5	0.8	0.025	0029AC09U	0029AC8U
52079	3	RCBC	1.68	1.58	16.05	0.62	0.0	1.5	0.8	0.025	0029AC9U	0029AC09U
56969	3	RCBC	4.88	3.90	30.77	3.19	0.0	0.9	0.9	0.025	0272A011U	0272A10U
57155	1	RCP	0.20	0.19	31.20	0.05	1.8	0.0	0.0	0.025	0270A03U	0270A2U
58286	1	RCP	5.17	4.44	68.01	1.07	0.9	0.0	0.0	0.025	0305AA9U	0305AA8U
58326	1	RCP	0.23	0.15	115.97	0.07	1.4	0.0	0.0	0.025	0039A4U	0039A3U
58328	1	RCP	0.23	0.15	116.34	0.07	0.9	0.0	0.0	0.025	0039B4U	0039B3U
61921	1	RCP	4.80	0.50	101.92	4.22	0.9	0.0	0.0	0.025	0026A4U	0026A2U
86108	1	RCP	2.28	2.17	5.35	2.06	0.9	0.0	0.0	0.025	0078A004U	0078A04U
86113	1	RCP	2.17	1.34	40.20	2.06	0.9	0.0	0.0	0.025	0078A04U	0078A3U
86187	1	RCP	1.26	0.78	60.87	0.79	0.9	0.0	0.0	0.025	0115J9U	0115J8U
86188	1	RCP	1.26	0.78	60.87	0.79	0.9	0.0	0.0	0.025	0115J9U	0115J8U
86214	1	RCP	0.78	0.62	18.13	0.88	1.2	0.0	0.0	0.025	0115J8U	0115J7U
86215	1	RCP	0.78	0.62	18.13	0.88	1.2	0.0	0.0	0.025	0115J8U	0115J7U
86258	1	RCP	0.62	0.59	9.01	0.33	1.2	0.0	0.0	0.025	0115J7U	0115J5U
86259	1	RCP	0.62	0.59	9.01	0.33	1.2	0.0	0.0	0.025	0115J7U	0115J5U
86261	1	RCP	0.59	0.53	7.35	0.82	1.2	0.0	0.0	0.025	0115J5U	0115J4U
86262	1	RCP	0.59	0.53	7.35	0.82	1.2	0.0	0.0	0.025	0115J5U	0115J4U
86265	1	RCP	0.53	0.49	7.21	0.56	1.2	0.0	0.0	0.025	0115J4U	0115J3U
86266	1	RCP	0.53	0.49	7.21	0.56	1.2	0.0	0.0	0.025	0115J4U	0115J3U
86269	1	RCP	0.65	0.50	6.52	2.30	1.2	0.0	0.0	0.025	0115J3U	0115H2U
86270	1	RCP	0.65	0.50	6.52	2.30	1.2	0.0	0.0	0.025	0115J3U	0115H2U
86274	1	RCP	0.95	0.65	21.67	1.38	1.2	0.0	0.0	0.025	0115H3U	0115H2U
86277	1	RCP	0.95	0.65	21.67	1.38	1.2	0.0	0.0	0.025	0115H3U	0115H2U
86279	1	RCP	1.10	1.05	7.51	0.67	1.2	0.0	0.0	0.025	0115H4U	0115H3U
86281	1	RCP	1.10	1.05	7.51	0.67	1.2	0.0	0.0	0.025	0115H4U	0115H3U
86283	1	RCP	1.34	1.25	9.33	0.96	1.2	0.0	0.0	0.025	0115H6U	0115H4U
86285	1	RCP	1.34	1.25	9.33	0.96	1.2	0.0	0.0	0.025	0115H6U	0115H4U
86300	3	RCBC	0.65	0.57	18.95	0.42	0.0	2.4	0.8	0.025	0115H2U	0115H1D
86310	1	RCP	0.49	0.41	8.06	0.99	1.1	0.0	0.0	0.025	0115J3U	Node_Flinders
86312	1	RCP	0.49	0.41	8.06	0.99	1.1	0.0	0.0	0.025	0115J3U	Node_Flinders
86314	1	RCP	0.41	0.31	11.63	0.86	1.5	0.0	0.0	0.025	Node_Flinders	0115J1D
86316	1	RCP	1.49	1.34	23.71	0.63	1.1	0.0	0.0	0.025	0115HB1U	0115H6U
86317	1	RCP	1.49	1.34	23.71	0.63	1.1	0.0	0.0	0.025	0115HB1U	0115H6U
86321	1	RCP	1.61	1.49	10.37	1.16	1.1	0.0	0.0	0.025	0115HB2U	0115HB1U
86322	1	RCP	1.61	1.49	10.37	1.16	1.1	0.0	0.0	0.025	0115HB2U	0115HB1U
86358	1	RCP	0.31	0.24	10.06	0.68	0.9	0.0	0.0	0.025	0115G2U	0115G1D
86359	1	RCP	0.31	0.24	10.06	0.69	0.9	0.0	0.0	0.025	0115G2U	0115G1Da
AA	3	RCBC	14.89	14.71	6.22	2.89	0.0	1.8	1.5	0.025	0270A031U	0270A30U
CC	3	RCBC	15.68	14.89	26.52	2.98	0.0	1.8	1.5	0.025	0270A0031U	0270A031U
Link_101	1	RCP	0.40	0.27	28.92	0.45	0.6			0.025	0029A007U	0029A6U
Link_110	1	RCP	6.15	2.21	167.65	2.35	0.8	0.0	0.0	0.025	0206A7U	0206A6U
Link_122	1	RCP	2.90	2.83	10.80	0.65	1.2			0.025	Flinders 1/1	Flinders 1/2
Link_123	1	RCP	2.83	2.76	9.55	0.73	1.2			0.025	Flinders 1/2	Flinders 1/3
Link_124	1	RCP	2.76	2.69	11.14	0.63	1.2			0.025	Flinders 1/3	Flinders 1/4
Link_125	1	RCP	2.69	2.59	9.55	1.05	1.2			0.025	Flinders 1/4	Flinders 1/5
Link_126	1	RCP	2.59	2.48	19.81	0.56	1.2			0.025	Flinders 1/5	Flinders 1/6
Link_127	1	RCP	2.48	2.33	26.31	0.57	1.2			0.025	Flinders 1/6	Flinders 1/7
Link_128	1	RCP	2.33	2.06	47.62	0.57	1.2			0.025	Flinders 1/7	Flinders 1/8

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
Link_129	1	RCP	2.06	1.24	50.04	1.64	1.2			0.025	Flinders 1/8	Flinders 1/9
Link_130	1	RCP	1.24	1.13	19.74	0.56	1.2			0.025	Flinders 1/9	Flinders 1/10
Link_131	3	RCBC	1.70	0.75	66.04	1.44		3.0	1.2	0.025	Flinders 1/10	Flinders 1/12
Link_132	3	RCBC	0.50	-0.08	31.11	1.86		3.0	1.2	0.025	Flinders 1/12	Flinders 1/13
Link_133	1	RCP	-0.18	-0.25	12.45	0.56	1.2	3.0	1.2	0.025	Node_142	Flinders 1/Out
Link_134	1	RCP	2.90	2.83	10.80	0.65	1.2			0.025	Flinders 1/1	Flinders 1/2
Link_135	1	RCP	2.83	2.76	9.55	0.73	1.2			0.025	Flinders 1/2	Flinders 1/3
Link_136	1	RCP	2.76	2.69	11.14	0.63	1.2			0.025	Flinders 1/3	Flinders 1/4
Link_137	1	RCP	2.69	2.59	9.55	1.05	1.2			0.025	Flinders 1/4	Flinders 1/5
Link_138	1	RCP	2.59	2.48	19.81	0.56	1.2			0.025	Flinders 1/5	Flinders 1/6
Link_139	1	RCP	2.48	2.33	26.31	0.57	1.2			0.025	Flinders 1/6	Flinders 1/7
Link_140	1	RCP	2.33	2.06	47.62	0.57	1.2			0.025	Flinders 1/7	Flinders 1/8
Link_141	1	RCP	2.06	1.24	50.04	1.64	1.2			0.025	Flinders 1/8	Flinders 1/9
Link_142	1	RCP	1.24	1.13	19.74	0.56	1.2			0.025	Flinders 1/9	Flinders 1/10
Link_143	3	RCBC	2.50	2.20	7.59	3.95		1.2	0.9	0.025	Flinders 2/1	Flinders 1/10
Link_144	3	RCBC	3.05	2.70	9.23	3.79		0.9	0.9	0.025	0272A9U	Flinders 2/1
Link_147	1	RCP	0.95	0.60	11.17	3.13	0.4			0.025	0272A02U	Flinders 1/12
Link_148	1	RCP	2.07	1.65	1.61	26.08	0.9			0.025	0164A3U	0164A1U
Link_193	1	RCP	1.25	0.76	46.99	1.04	1.4			0.025	0242J3U	0242J2U
Link_194	1	RCP	0.76	0.47	65.71	0.44	1.5			0.025	0242J2U	JonesSt2
Link_198	1	RCP	0.45	0.20	12.76	0.50	0.9			0.025	0272A2U	0272A3U
Link_199	1	RCP	10.03	9.86	23.94	0.71	0.8			0.025	0164A7U	0164A9U
Link_200	1	RCP	12.48	10.02	64.62	3.81	0.9			0.025	0164A10U	0164A9U
Link_201	1	RCP	13.64	12.48	53.85	2.15	0.6			0.025	0164A11U	0164A10U
Link_202	1	RCP	14.32	13.64	18.32	3.71	0.6			0.025	0164A12U	0164A11U
Link_204	3	RCBC	19.73	18.66	24.38	4.39		1.0	0.6	0.025	0164A14U	0164A13U
Link_205	1	RCP	18.66	15.00	17.24	21.23	0.4			0.025	0164A13U	0164A12U
Link_206	3	RCBC	18.66	10.02	121.09	7.14	0.9	1.1	0.9	0.025	0164A13U	0164A9U
Link_208	3	RCBC	19.90	17.70	68.49	5.58		1.8	0.6	0.025	0270A32U	0270A000031U
Link_211	3	RCBC	28.57	22.40	31.63	9.55		1.2	0.9	0.025	0270A35U	0270A34U
Link_212	3	RCBC	22.40	19.90	49.84	8.17		1.8	0.6	0.025	0270A34U	0270A32U
Link_213	3	RCBC	6.19	6.00	18.99	1.23	0.9	1.5	1.8	0.025	0270A17U	Stanley1.2
Link_214	1	RCP	5.80	5.25	38.68	1.46	1.7			0.025	Stanley1.2	Stanley1.3
Link_215	1	RCP	4.75	3.90	46.20	1.55	1.7			0.025	Stanley1.3	Stanley1.4
Link_216	1	RCP	3.90	3.84	10.29	0.86	1.2			0.025	Stanley1.4	Stanley1.5
Link_217	1	RCP	3.77	3.59	28.20	0.70	1.7			0.025	Stanley1.5	0270A12U
Link_218	1	RCP	3.90	3.84	10.67	0.86	1.2			0.025	Stanley1.4	Stanley1.5
Link_223	1	RCP	2.59	2.49	14.91	0.72	0.5			0.025	0122BH1U	FlindersSimInlet
Link_224	1	RCP	2.56	2.55	16.52	0.05	0.6			0.025	0122BG2U	0122BG1U
Link_225	1	RCP	2.55	2.54	19.04	0.05	0.6			0.025	0122BG1U	Node_134
Link_226	1	RCP	2.54	2.38	5.36	3.08	0.6			0.025	Node_134	FlindersSimInlet
Link_227	3	RCBC	2.38	2.18	6.62	2.95		0.6	0.6	0.025	FlindersSimInlet	Node_137
Link_228	1	RCP	2.18	0.76	53.11	2.67	0.6			0.025	Node_137	0122BB1U
Link_229	1	RCP	0.76	0.36	13.73	2.91	0.6			0.025	0122BB1U	0122BA1U
Link_230	1	RCP	0.36	-0.30	22.48	2.94	0.6			0.025	0122BA1U	FlindersStMalleast_Outlet
Link_232	3	RCBC	-0.08	-0.18	20.15	0.50		3.0	1.2	0.025	Flinders 1/13	Node_142
Link_233	1	RCP	-0.18	-0.25	11.22	0.62	1.2			0.025	Node_142	Flinders 1/Out B
Link_236	1	RCP	0.66	0.52	7.84	0.28	0.9			0.025	0272A4U	0272A5U
Link_237	1	RCP	0.52	0.40	6.36	0.24	0.9			0.025	0272A3U	0272A4U
Link_238	1	RCP	0.16	0.10	8.28	0.12	0.9			0.025	VictoriaBridgeOutletSouth	0272A2U
Link_239	1	RCP	19.70	14.75	104.98	4.72	0.6			0.025	Node_150	Node_151
Link_240	1	RCP	14.75	13.00	27.37	6.39	0.6			0.025	Node_151	Node_152
Link_241	1	RCP	11.69	10.87	24.83	3.30	0.6			0.025	Node_162	Node_153
Link_242	1	RCP	10.87	9.53	40.53	3.31	0.6			0.025	Node_153	Node_154
Link_243	1	RCP	9.53	8.03	45.44	3.30	0.6			0.025	Node_154	Node_155
Link_244	1	RCP	8.03	6.56	44.90	3.27	0.6			0.025	Node_155	Node_156
Link_245	1	RCP	6.56	5.66	16.87	5.33	0.6			0.025	Node_156	Node_157
Link_246	1	RCP	5.66	4.89	19.15	4.02	0.6			0.025	Node_157	Node_158
Link_247	1	RCP	4.89	4.31	15.49	3.74	0.6			0.025	Node_158	Node_159
Link_248	1	RCP	4.32	2.93	32.26	4.31	0.6			0.025	Node_159	Node_160
Link_249	1	RCP	2.93	1.77	32.76	3.54	0.6			0.025	Node_160	Node_161
Link_250	1	RCP	2.12	1.93	16.51	1.15	0.6			0.025	Node_161	Flinders 1/10
Link_251	1	RCP	2.12	1.93	16.22	1.17	0.6			0.025	Node_161	Flinders 1/10
Link_252	1	RCP	12.21	11.69	15.62	3.33	0.6			0.025	Node_152	Node_162
Link_265	1	RCP	0.24	0.18	11.18	0.55	1.3	0.0	0.0	0.025	0115G2U	0115G1D
Link_266	1	RCP	-0.72	-0.81	23.65	0.38	1.5	0.0	0.0	0.025	0305A2U	0305A1D

MUID	Type No	Conduit Type	U/S Level (m AHD)	D/S Level (m AHD)	Length (m)	Slope	Diameter (m)	Width (m)	Height (m)	Mannings 'n'	From Node	To Node
Link_3	1	RCP	0.50	-0.43	62.81	1.48	0.8			0.025	0026A2U	0026A1D
Link_4	1	RCP	3.05	2.90	18.55	0.81	0.9			0.025	0009A5U	0009A05U
Link_5	1	RCP	2.71	2.40	22.79	1.36	0.9			0.025	0009A05U	0009A4U
REst_Out1	1	RCP	-0.40	-0.60	110.78	0.18	1.2	1.2	0.6	0.025	0029A2U	0029A0D
REst_Out2	1	RCP	-0.40	-0.60	112.72	0.18	1.2	1.2	0.6	0.025	0029A2U	0029A0Da
T	1	RCP	0.21	-0.30	25.87	1.97	0.9	0.0	0.0	0.025	0164A01U	0164B1D
X	3	RCBC	16.30	15.95	10.89	3.21	0.0	1.8	1.5	0.025	0270A000031U	0270A00031U
Y	1	RCP	1.34	0.21	57.30	1.97	0.9	0.0	0.0	0.025	0164A1U	0164A01U
Z	3	RCBC	15.95	15.68	9.26	2.91	0.0	1.8	1.5	0.025	0270A00031U	0270A0031U

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0009AF1D	Outlet	-0.50	1.25	1.50
0078A1D	Outlet	-0.73	1.71	0.90
0205B1D	Outlet	-0.14	2.00	0.90
0249A1D	Outlet	-0.11	2.06	1.20
0305A1D	Outlet	-0.81	0.81	1.49
0039B1D	Outlet	-0.09	2.38	1.05
0168A1D	Outlet	0.25	1.20	0.90
0206A1D	Outlet	-0.67	1.80	1.05
0205C1D	Outlet	0.10	1.40	1.20
0205D1D	Outlet	-0.22	1.60	1.65
0039A1D	Outlet	-0.09	2.27	1.35
0164B1D	Outlet	-0.31	3.00	0.90
0177A1D	Outlet	-0.47	0.70	0.90
0250A1D	Outlet	1.24	2.60	1.35
0242A1D	Outlet	-0.45	1.92	1.20
0242J1D	Outlet	-0.50	3.77	1.20
0113A1D	Outlet	0.97	2.90	0.90
0009A1D	Outlet	0.02	3.57	1.80
0164A1D	Outlet	0.17	3.00	1.80
0203A1D	Outlet	0.85	2.65	0.90
Flinders 1/Out B	Outlet	-0.25	2.64	1.20
0026A1D	Outlet	-0.43	2.08	0.75
0029A0D	Outlet	-0.60	2.25	1.20
FlindersStMallEast _Outlet	Outlet	-0.30	0.30	0.60
0311A1D	Outlet	-0.42	0.50	0.90
0270A1D	Outlet	-0.95	1.84	1.80
VictoriaBridgeOutl etSouth	Outlet	0.10	1.00	0.90
0290A1D	Outlet	-1.09	2.60	3.60
0160A1D	Outlet	-0.16	3.64	1.20
0115H1D	Outlet	0.57	1.86	2.40
Flinders 1/Out	Outlet	-0.25	2.64	1.20
JonesSt2	Outlet	0.47	3.47	1.50
0029A0Da	Outlet	-0.60	2.25	1.20
0115J1D	Outlet	0.31	3.00	1.49
0115E1D	Outlet	-0.73	1.26	0.60
0115G1D	Outlet	0.18	2.20	1.27
0287A1D	Outlet	0.23	3.18	1.20
0111A1D	Outlet	0.23	1.74	0.90
0243A1D	Outlet	-0.32	1.50	1.65
0206A2U	Manhole/ Inlet	0.23	3.91	1.20
0270A26U	Manhole/ Inlet	13.14	15.47	1.80
0206A002U	Manhole/ Inlet	0.17	3.37	1.05
0270A27U	Manhole/ Inlet	13.88	16.86	1.80
0270A03U	Manhole/ Inlet	0.20	3.15	1.80
0206A03U	Manhole/ Inlet	0.36	3.69	1.65
0270A24U	Manhole/ Inlet	11.61	15.01	1.50

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0270A25U	Manhole/ Inlet	12.53	14.25	1.50
0164A7U	Manhole/ Inlet	9.85	13.17	0.75
0270A23U	Manhole/ Inlet	10.82	14.52	1.50
0078A5U	Manhole/ Inlet	3.89	6.56	1.05
0009A05U	Manhole/ Inlet	2.71	4.97	0.90
0203A5U	Manhole/ Inlet	1.36	2.91	0.90
0305A8U	Manhole/ Inlet	4.20	5.58	0.90
0290A11U	Manhole/ Inlet	-0.01	2.48	1.50
0250A2U	Manhole/ Inlet	1.24	3.25	1.35
0270A22U	Manhole/ Inlet	10.50	12.75	1.60
0270A11U	Manhole/ Inlet	3.29	6.01	1.65
0270A8U	Manhole/ Inlet	2.83	5.72	1.65
0270A9U	Manhole/ Inlet	2.95	5.79	1.65
0270A4U	Manhole/ Inlet	1.18	4.20	1.65
0009A6U	Manhole/ Inlet	4.29	6.40	0.90
0270A3U	Manhole/ Inlet	1.16	4.20	1.65
0203AH1U	Manhole/ Inlet	1.35	2.70	0.90
0270A5U	Manhole/ Inlet	1.20	4.20	1.65
0115HB2U	Manhole/ Inlet	1.61	3.25	1.05
0270A10U	Manhole/ Inlet	3.15	5.96	1.65
0206A003U	Manhole/ Inlet	0.58	3.46	1.65
0164A6U	Manhole/ Inlet	6.73	8.44	0.75
0009A10U	Manhole/ Inlet	6.82	9.52	0.75
0009A8U	Manhole/ Inlet	6.04	9.61	0.75
0115E2U	Manhole/ Inlet	-0.73	3.28	0.60
0164A5U	Manhole/ Inlet	6.17	8.16	0.90
0177A4U	Manhole/ Inlet	2.90	4.84	0.90
0305AA8U	Manhole/ Inlet	4.43	5.59	0.90
0177A3U	Manhole/ Inlet	2.51	3.78	0.90
0270A7U	Manhole/ Inlet	2.46	5.45	1.65
0270A30U	Manhole/ Inlet	14.71	17.30	1.80
0206A3U	Manhole/ Inlet	0.73	3.77	1.20
0026A4U	Manhole/ Inlet	4.80	6.01	0.90
0290A16U	Manhole/ Inlet	0.14	3.65	1.50
0290AZR5U	Manhole/ Inlet	1.23	2.88	0.90
0039A6U	Manhole/ Inlet	0.70	4.22	1.20
0039B2U	Manhole/ Inlet	-0.08	2.29	1.05
0039A2U	Manhole/ Inlet	-0.08	2.18	1.35
0249A5U	Manhole/ Inlet	0.02	3.39	1.20
0290AAB2U	Manhole/ Inlet	0.25	2.07	1.05
0249A3U	Manhole/ Inlet	-0.04	2.80	1.20
0290AAB1U	Manhole/ Inlet	-0.14	2.01	1.35
0009A5U	Manhole/ Inlet	3.05	5.07	0.90
0272A13U	Manhole/ Inlet	7.47	8.65	0.90
0272A14U	Manhole/ Inlet	7.52	8.65	0.90
0305A9U	Manhole/ Inlet	4.23	5.58	0.90
0113A10U	Manhole/ Inlet	6.26	8.73	0.75
0113A2U	Manhole/ Inlet	2.72	5.63	0.90

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0160A2U	Manhole/ Inlet	5.62	7.62	1.20
0029A4U	Manhole/ Inlet	-0.25	2.77	1.20
0249A4U	Manhole/ Inlet	-0.01	3.82	1.20
0290AV1U	Manhole/ Inlet	1.00	3.21	1.20
0290A21U	Manhole/ Inlet	0.77	3.78	1.20
0305A4U	Manhole/ Inlet	1.11	2.70	0.90
0164A4U	Manhole/ Inlet	2.90	4.55	0.90
0164A3U	Manhole/ Inlet	2.07	2.67	1.80
0009A4U	Manhole/ Inlet	1.94	4.55	1.20
0026A2U	Manhole/ Inlet	0.50	3.90	0.90
0205D4U	Manhole/ Inlet	0.11	2.13	1.65
0078A2U	Manhole/ Inlet	1.26	3.47	0.90
0290AD3U	Manhole/ Inlet	0.22	2.39	1.20
0305A6U	Manhole/ Inlet	2.78	5.22	0.90
0270A28U	Manhole/ Inlet	14.02	16.74	1.80
0290AV2U	Manhole/ Inlet	1.08	3.30	1.20
0206A02U	Manhole/ Inlet	-0.14	3.61	1.05
0206A6U	Manhole/ Inlet	2.21	4.15	0.90
0206A5U	Manhole/ Inlet	1.42	4.00	0.90
0009A07U	Manhole/ Inlet	5.14	9.60	0.90
0272A10U	Manhole/ Inlet	3.64	4.83	0.90
0242JA1U	Manhole/ Inlet	2.90	4.75	1.20
0290A19U	Manhole/ Inlet	0.45	3.63	1.35
0305A7U	Manhole/ Inlet	4.08	5.74	0.90
Stanley1.4	Manhole/ Inlet	3.90	7.55	1.65
0243A8U	Manhole/ Inlet	-0.03	3.42	1.65
0243A6U	Manhole/ Inlet	-0.06	2.99	1.35
0029AA3U	Manhole/ Inlet	1.02	2.45	0.60
0290A17U	Manhole/ Inlet	0.36	3.36	1.35
0290A18U	Manhole/ Inlet	0.36	3.52	1.35
0290A12U	Manhole/ Inlet	0.02	2.43	1.50
0270A34U	Manhole/ Inlet	22.40	23.51	1.80
0203A7U	Manhole/ Inlet	1.38	2.53	0.90
Stanley1.3	Manhole/ Inlet	4.75	9.41	1.65
0122BH1U	Manhole/ Inlet	2.59	3.82	0.45
Stanley1.5	Manhole/ Inlet	3.77	7.10	1.65
0290A13U	Manhole/ Inlet	0.05	2.47	1.50
0290A14U	Manhole/ Inlet	0.07	2.61	1.50
0290A15U	Manhole/ Inlet	0.11	3.12	1.50
0290AD1U	Manhole/ Inlet	-0.30	1.92	1.35
0203A6U	Manhole/ Inlet	1.38	2.79	0.90
0203A8U	Manhole/ Inlet	1.46	2.19	0.90
0272A2U	Manhole/ Inlet	0.16	2.49	0.90
Stanley1.2	Manhole/ Inlet	5.80	9.18	1.65
0029A3U	Manhole/ Inlet	-0.25	2.71	1.20
0270A21U	Manhole/ Inlet	9.03	12.34	1.60
0242J2U	Manhole/ Inlet	0.76	3.51	1.50
0242J3U	Manhole/ Inlet	1.25	3.64	1.35

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0270A32U	Manhole/ Inlet	19.90	21.14	1.80
0270A35U	Manhole/ Inlet	28.57	29.77	1.20
0164A9U	Manhole/ Inlet	10.02	13.73	1.05
0164A10U	Manhole/ Inlet	12.48	15.16	0.90
0113A4U	Manhole/ Inlet	4.42	6.19	0.75
0243A4U	Manhole/ Inlet	-0.11	3.32	1.50
0242A3U	Manhole/ Inlet	-0.29	2.84	1.20
FlindersSimInlet	Manhole/ Inlet	2.37	3.96	0.60
0029AC6U	Manhole/ Inlet	1.51	2.80	1.35
0243A11U	Manhole/ Inlet	0.41	2.89	1.35
0243A14U	Manhole/ Inlet	1.13	2.71	0.90
0164A11U	Manhole/ Inlet	13.64	17.86	0.60
0164A12U	Manhole/ Inlet	14.33	18.61	0.60
0164A13U	Manhole/ Inlet	18.66	19.77	1.05
0164A14U	Manhole/ Inlet	19.73	20.31	1.00
0290A06U	Manhole/ Inlet	-0.44	2.18	1.80
0205D3U	Manhole/ Inlet	0.00	2.96	1.65
Node_156	Manhole/ Inlet	6.56	8.12	0.60
0272A3U	Manhole/ Inlet	0.40	2.75	0.90
0078A8U	Manhole/ Inlet	4.50	7.32	1.05
0272A02U	Manhole/ Inlet	0.95	2.69	0.90
Node_150	Manhole/ Inlet	19.70	20.67	0.60
Node_151	Manhole/ Inlet	14.75	15.83	0.60
Node_152	Manhole/ Inlet	12.21	14.38	0.60
Node_153	Manhole/ Inlet	10.87	12.88	0.60
0203A9U	Manhole/ Inlet	1.55	2.22	0.90
Node_155	Manhole/ Inlet	8.03	9.40	0.60
Node_142	Manhole/ Inlet	-0.18	3.00	3.00
Node_157	Manhole/ Inlet	5.66	7.44	0.60
Node_158	Manhole/ Inlet	4.89	6.69	0.60
Node_159	Manhole/ Inlet	4.31	6.06	0.60
Node_160	Manhole/ Inlet	2.93	4.71	0.60
0311A3U	Manhole/ Inlet	-0.12	3.31	0.90
Node_161	Manhole/ Inlet	1.76	4.17	0.60
Node_162	Manhole/ Inlet	11.69	13.97	0.60
Node_178	Manhole/ Inlet	0.24	2.53	1.27
Node_154	Manhole/ Inlet	9.53	11.18	0.60
0249A8U	Manhole/ Inlet	0.55	2.68	1.20
Node_134	Manhole/ Inlet	2.54	3.82	0.60
0122BG1U	Manhole/ Inlet	2.49	3.69	0.60
0122BG2U	Manhole/ Inlet	2.56	3.76	0.60
Node_137	Manhole/ Inlet	2.18	2.67	0.60
0290A6U	Manhole/ Inlet	-0.41	2.18	1.80
0290A7U	Manhole/ Inlet	-0.38	2.32	1.80
0290A8U	Manhole/ Inlet	-0.36	2.26	1.80
0290A3U	Manhole/ Inlet	-0.72	2.13	1.80
0272A4U	Manhole/ Inlet	0.52	2.75	0.90
0249A6U	Manhole/ Inlet	0.11	3.94	1.20

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0272A5U	Manhole/ Inlet	0.66	2.59	0.90
0270A19U	Manhole/ Inlet	7.91	9.65	1.50
0122BB1U	Manhole/ Inlet	0.76	2.50	0.60
0122BA1U	Manhole/ Inlet	0.36	2.68	0.60
0242JB2U	Manhole/ Inlet	2.34	4.40	1.20
0164A45U	Manhole/ Inlet	4.29	5.83	0.90
0290A1U	Manhole/ Inlet	-0.96	2.50	3.60
0029AC10U	Manhole/ Inlet	1.79	2.50	2.40
Node_179	Manhole/ Inlet	-0.72	1.87	1.49
0290A4U	Manhole/ Inlet	-0.63	2.06	1.80
0177A2U	Manhole/ Inlet	1.82	3.42	0.90
0290AA2U	Manhole/ Inlet	-0.29	1.91	1.50
0115J7U	Manhole/ Inlet	0.62	3.33	1.20
0242A4U	Manhole/ Inlet	0.02	2.63	1.20
0029AA2U	Manhole/ Inlet	0.69	2.74	0.90
0029A2U	Manhole/ Inlet	-0.58	3.18	1.20
0243A10U	Manhole/ Inlet	0.40	2.92	1.35
0243A12U	Manhole/ Inlet	0.42	2.86	1.35
0243A13U	Manhole/ Inlet	1.08	2.71	0.90
0115J9U	Manhole/ Inlet	1.26	3.20	0.90
0290AZR3U	Manhole/ Inlet	0.79	2.98	1.05
0115H2U	Manhole/ Inlet	0.65	3.12	2.40
0243A5U	Manhole/ Inlet	-0.11	3.32	1.35
0243A2U	Manhole/ Inlet	-0.27	3.66	1.65
0243AA4U	Manhole/ Inlet	1.68	3.42	0.90
0243A3U	Manhole/ Inlet	-0.15	3.44	1.50
0249A10U	Manhole/ Inlet	1.13	1.92	0.90
0290AD2U	Manhole/ Inlet	0.07	2.39	1.35
0290A5U	Manhole/ Inlet	-0.46	2.13	1.80
0290AD5U	Manhole/ Inlet	0.81	1.96	0.90
0243A15U	Manhole/ Inlet	1.16	2.70	0.90
0115G2U	Manhole/ Inlet	0.30	2.73	0.90
0272A15U	Manhole/ Inlet	8.42	9.34	0.90
0205C2U	Manhole/ Inlet	0.11	2.46	1.20
0205C3U	Manhole/ Inlet	0.15	2.63	1.20
0205D2U	Manhole/ Inlet	-0.08	2.54	1.65
0243AA2U	Manhole/ Inlet	1.03	3.39	0.90
0243A02U	Manhole/ Inlet	-0.29	3.58	1.65
0270A18U	Manhole/ Inlet	7.09	9.54	1.50
0305AA9U	Manhole/ Inlet	5.16	6.46	0.90
0115J8U	Manhole/ Inlet	0.78	3.25	1.20
0078A04U	Manhole/ Inlet	2.17	4.06	0.90
0290AA3U	Manhole/ Inlet	0.08	1.95	1.35
0115H6U	Manhole/ Inlet	1.34	3.32	1.20
0115HB1U	Manhole/ Inlet	1.49	3.24	1.05
0115J3U	Manhole/ Inlet	0.49	3.13	1.20
0115J4U	Manhole/ Inlet	0.53	3.19	1.20
0078A004U	Manhole/ Inlet	2.28	4.07	1.05

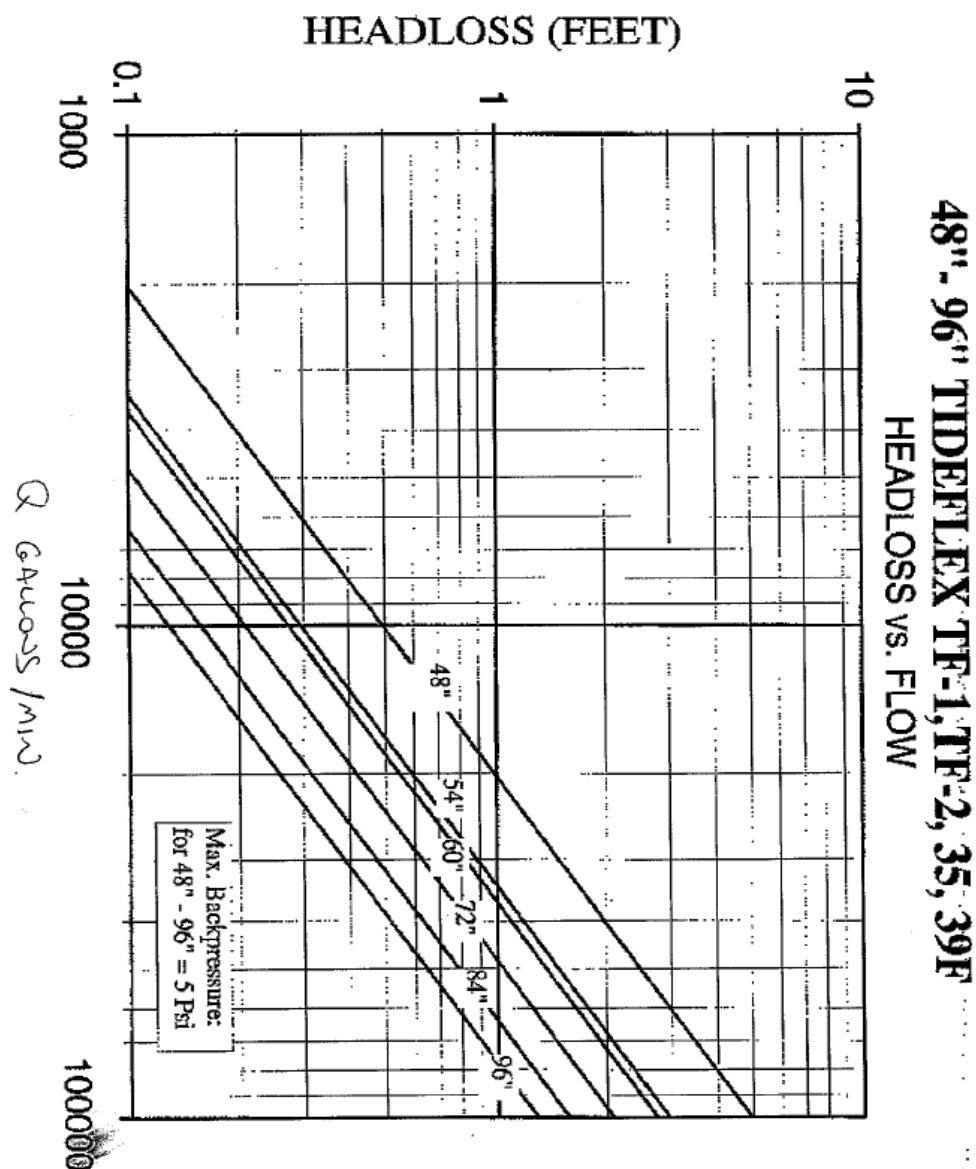
<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0115J5U	Manhole/ Inlet	0.59	3.12	1.20
0115H4U	Manhole/ Inlet	0.98	3.11	1.20
0115H3U	Manhole/ Inlet	0.66	3.09	1.20
0078A3U	Manhole/ Inlet	1.34	3.52	0.90
Flinders 1/4	Manhole/ Inlet	2.69	5.32	2.40
0290A2U	Manhole/ Inlet	-0.88	2.13	3.60
0111A2U	Manhole/ Inlet	0.23	3.33	0.90
0287A2U	Manhole/ Inlet	0.23	3.59	1.20
0287A4U	Manhole/ Inlet	0.50	3.06	0.90
Node_Flinders	Manhole/ Inlet	0.41	3.13	1.49
0029A007U	Manhole/ Inlet	0.40	2.52	1.20
0206A7U	Manhole/ Inlet	6.15	8.16	1.20
Flinders 1/1	Manhole/ Inlet	2.90	5.48	2.40
0243AA3U	Manhole/ Inlet	1.12	3.62	0.90
Flinders 1/3	Manhole/ Inlet	2.76	5.35	2.40
0243AA1U	Manhole/ Inlet	0.42	3.75	0.90
Flinders 1/5	Manhole/ Inlet	2.59	5.22	2.40
Flinders 1/6	Manhole/ Inlet	2.48	5.39	2.40
Flinders 1/7	Manhole/ Inlet	2.33	4.90	2.40
Flinders 1/8	Manhole/ Inlet	2.06	4.55	2.40
Flinders 1/9	Manhole/ Inlet	1.24	4.10	2.40
Flinders 1/10	Manhole/ Inlet	1.13	4.12	3.00
Flinders 1/12	Manhole/ Inlet	0.27	2.88	3.00
Flinders 1/13	Manhole/ Inlet	-0.08	2.83	3.00
Flinders 1/2	Manhole/ Inlet	2.83	5.46	2.40
0290AD6U	Manhole/ Inlet	1.04	2.02	0.60
0290AA4U	Manhole/ Inlet	0.26	2.03	1.05
0290AA5U	Manhole/ Inlet	0.28	2.10	1.05
0290AZR4U	Manhole/ Inlet	0.97	3.09	1.05
0311A5U	Manhole/ Inlet	0.38	2.84	0.90
0242A2U	Manhole/ Inlet	-0.37	2.62	1.20
0290AZR1U	Manhole/ Inlet	0.54	2.57	1.05
0290A10U	Manhole/ Inlet	-0.31	2.55	1.50
0290A9U	Manhole/ Inlet	-0.34	2.38	1.80
0111A3U	Manhole/ Inlet	0.53	3.63	0.90
0203A03U	Manhole/ Inlet	0.78	2.78	0.90
0205B4U	Manhole/ Inlet	0.04	2.71	0.90
0242AD1U	Manhole/ Inlet	0.07	2.65	1.20
0029A5U	Manhole/ Inlet	-0.05	2.22	1.20
0029AA1U	Manhole/ Inlet	0.33	3.35	1.05
0243A9U	Manhole/ Inlet	0.11	3.41	1.65
0243AK1U	Manhole/ Inlet	0.15	3.41	0.90
0243AK2U	Manhole/ Inlet	1.04	3.29	0.90
0243A7U	Manhole/ Inlet	-0.06	3.08	1.35
0243AH1U	Manhole/ Inlet	1.31	2.72	0.90
0203A2U	Manhole/ Inlet	0.66	2.80	0.90
0029A07U	Manhole/ Inlet	0.65	2.68	0.60
0009A2U	Manhole/ Inlet	0.74	4.50	1.80

<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0243A17U	Manhole/ Inlet	1.57	2.73	0.90
0205C7U	Manhole/ Inlet	0.11	2.31	0.75
0205C6U	Manhole/ Inlet	0.11	2.08	0.75
0249A7U	Manhole/ Inlet	0.49	2.61	1.20
0029A05U	Manhole/ Inlet	-0.05	2.01	1.20
0029AC3U	Manhole/ Inlet	1.40	2.63	1.35
0029AC5U	Manhole/ Inlet	1.48	2.59	1.35
0164A1U	Manhole/ Inlet	1.34	2.67	0.90
0029A6U	Manhole/ Inlet	0.27	2.26	1.20
0164A01U	Manhole/ Inlet	0.21	2.42	0.90
0206A8U	Manhole/ Inlet	6.55	8.74	0.75
0177A5U	Manhole/ Inlet	3.73	5.86	0.75
0113A9U	Manhole/ Inlet	6.19	8.41	0.75
0113A7U	Manhole/ Inlet	6.15	8.46	0.75
0113A6U	Manhole/ Inlet	5.64	6.94	0.75
0113A3U	Manhole/ Inlet	3.96	5.65	0.75
0113A5U	Manhole/ Inlet	5.40	6.98	0.75
0290AD4U	Manhole/ Inlet	0.43	2.45	1.20
0029AC9U	Manhole/ Inlet	1.57	2.47	2.40
0250A6U	Manhole/ Inlet	1.48	3.51	1.20
0029AC4U	Manhole/ Inlet	1.45	2.51	1.35
0160A3U	Manhole/ Inlet	5.62	7.50	1.20
0305A10U	Manhole/ Inlet	5.13	6.50	0.90
0290AZR2U	Manhole/ Inlet	0.72	2.71	1.05
0160A4U	Manhole/ Inlet	6.26	8.34	1.20
0270A00031U	Manhole/ Inlet	15.95	17.92	1.80
0270A0031U	Manhole/ Inlet	15.68	18.18	1.80
0270A031U	Manhole/ Inlet	14.89	17.49	1.80
0203A3U	Manhole/ Inlet	1.25	2.59	0.90
0290AZW2U	Manhole/ Inlet	1.46	3.23	0.90
0009A3U	Manhole/ Inlet	1.16	4.39	1.50
0177A6U	Manhole/ Inlet	3.80	6.09	0.60
0272A12U	Manhole/ Inlet	7.20	8.26	0.90
Flinders 2/1	Manhole/ Inlet	1.96	4.22	1.20
0290AU1U	Manhole/ Inlet	0.62	3.11	1.05
0205C4U	Manhole/ Inlet	0.11	2.25	0.75
0205C5U	Manhole/ Inlet	0.11	2.36	0.75
0029AC08U	Manhole/ Inlet	1.54	2.61	1.50
0272A011U	Manhole/ Inlet	4.88	5.98	0.90
0270A00031U	Manhole/ Inlet	16.30	19.02	1.80
0305AA7U	Manhole/ Inlet	4.42	5.54	0.90
0270A17U	Manhole/ Inlet	6.19	9.42	1.50
0039A7U	Manhole/ Inlet	1.27	4.44	0.90
0270A12U	Manhole/ Inlet	3.59	6.26	1.65
0203A4U	Manhole/ Inlet	1.34	2.67	0.90
0272A11U	Manhole/ Inlet	5.61	6.78	0.90
0272A9U	Manhole/ Inlet	3.05	4.51	0.90
0290A20U	Manhole/ Inlet	0.53	3.91	1.35

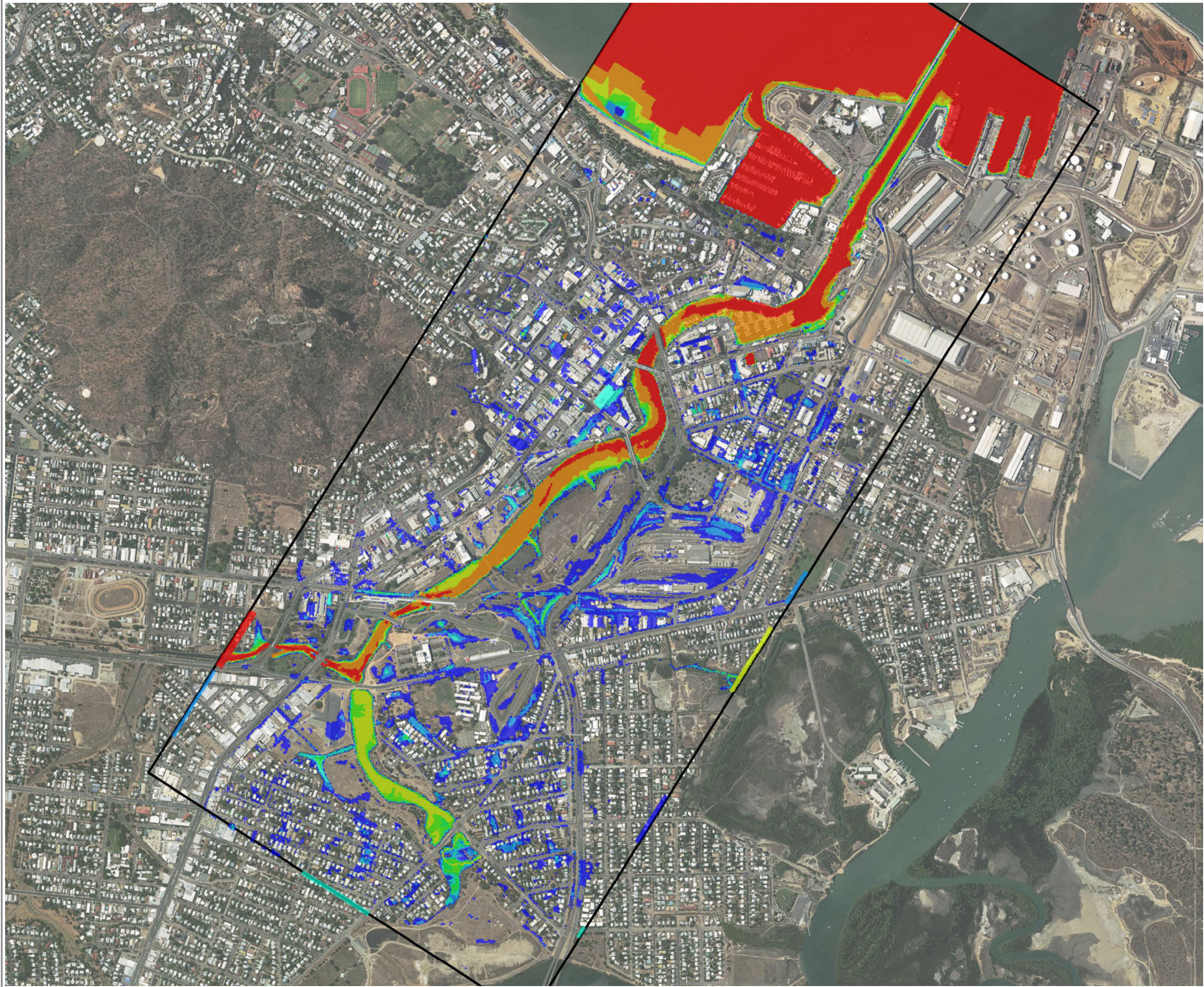
<i>Node ID</i>	<i>Type</i>	<i>Invert Level (m AHD)</i>	<i>Ground Level (m AHD)</i>	<i>Diameter (m)</i>
0168A2U	Manhole/ Inlet	1.05	2.63	0.90
0290A22U	Manhole/ Inlet	0.85	4.16	1.20
0311A2U	Manhole/ Inlet	-0.17	3.35	0.90
0290A23U	Manhole/ Inlet	1.16	4.43	1.05
0270A6U	Manhole/ Inlet	2.22	5.16	1.65
0290AU2U	Manhole/ Inlet	0.68	3.09	1.05
0290AZW1U	Manhole/ Inlet	1.23	3.27	0.90
0305A2U	Manhole/ Inlet	-0.49	2.96	1.05
0305A3U	Manhole/ Inlet	1.05	3.31	0.90
0205B5U	Manhole/ Inlet	0.04	2.26	0.90
0205B3U	Manhole/ Inlet	0.00	2.37	0.90
0205B2U	Manhole/ Inlet	-0.14	2.53	0.90
0039B4U	Manhole/ Inlet	0.23	3.36	0.90
0287A3U	Manhole/ Inlet	0.40	3.06	1.20
0009A03U	Manhole/ Inlet	1.00	4.18	1.50
0009AF2U	Manhole/ Inlet	0.10	3.78	1.50
0290AA1U	Manhole/ Inlet	-0.31	2.06	1.50
0290AA6U	Manhole/ Inlet	0.32	2.17	1.05
0249A2U	Manhole/ Inlet	-0.08	2.61	1.20
0250A3U	Manhole/ Inlet	1.25	3.70	1.35
0305A5U	Manhole/ Inlet	1.23	4.32	0.90
0029AC8U	Manhole/ Inlet	1.54	2.62	1.50
0039AD1U	Manhole/ Inlet	1.47	3.67	0.90
0243A18U	Manhole/ Inlet	1.58	2.86	0.90
0029AC7U	Manhole/ Inlet	1.52	2.57	1.50
0029AC09U	Manhole/ Inlet	1.57	2.72	1.50
0311A4U	Manhole/ Inlet	0.06	2.74	0.90
0039B3U	Manhole/ Inlet	0.15	2.51	1.05
0039A3U	Manhole/ Inlet	0.15	2.53	1.35
0009A7U	Manhole/ Inlet	5.35	9.60	0.90
0270A2U	Manhole/ Inlet	0.19	2.78	1.80
0039A5U	Manhole/ Inlet	0.23	3.34	1.20
0039A4U	Manhole/ Inlet	0.23	3.36	1.35
0243A16U	Manhole/ Inlet	1.56	2.63	0.90

<i>Tideflex Locations</i>	<i>Number of Tideflex</i>	<i>Diameter (mm)</i>	<i>Applied in the Model</i>
Adjacent to Victoria Bridge	2	1200	Implemented according to the "Headloss VS Flow" relationship presented below.
Flinders Street east (at carpark)	1	1200	
Wickham Street	1	900	Applied as a non-return valve only due to the non-availability of Headloss VS Flow relationship.
Samphire Drive	3	1970	Implemented according to the "Headloss VS Flow" relationship presented below.
Reid Park	2	1200	

Headloss VS Flow Relationship applied in Tideflex:



Appendix D – Flood Maps



CBD Hydraulic Model

2 Y ARI

Figure D-1.1

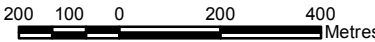
LEGEND

Water Depth (m)

- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 25
- ModelDomain



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

2 Y ARI

Figure D-1.2

LEGEND

Flood Level (m AHD)

	<2		7.5 - 8
	2 - 2.5		8 - 8.5
	2.5 - 3		8.5 - 9
	3 - 3.5		9 - 9.5
	3.5 - 4		9.5 - 10
	4 - 4.5		10 - 10.5
	4.5 - 5		10.5 - 11
	5 - 5.5		11 - 11.5
	5.5 - 6		11.5 - 12
	6 - 6.5		12 - 12.5
	6.5 - 7		>12.5
	7 - 7.5		



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

2 Y ARI

Figure D-1.3

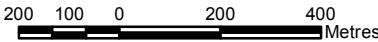
LEGEND

Flow Velocity (m/s)

-  <0.25
-  0.25 - 0.5
-  0.5 - 0.75
-  0.75 - 1
-  1 - 1.25
-  1.25 - 1.5
-  1.5 - 1.75
-  1.75 - 2
-  2 - 3
-  >3
-  ModelDomain



SCALE: 1:15,000 @A3

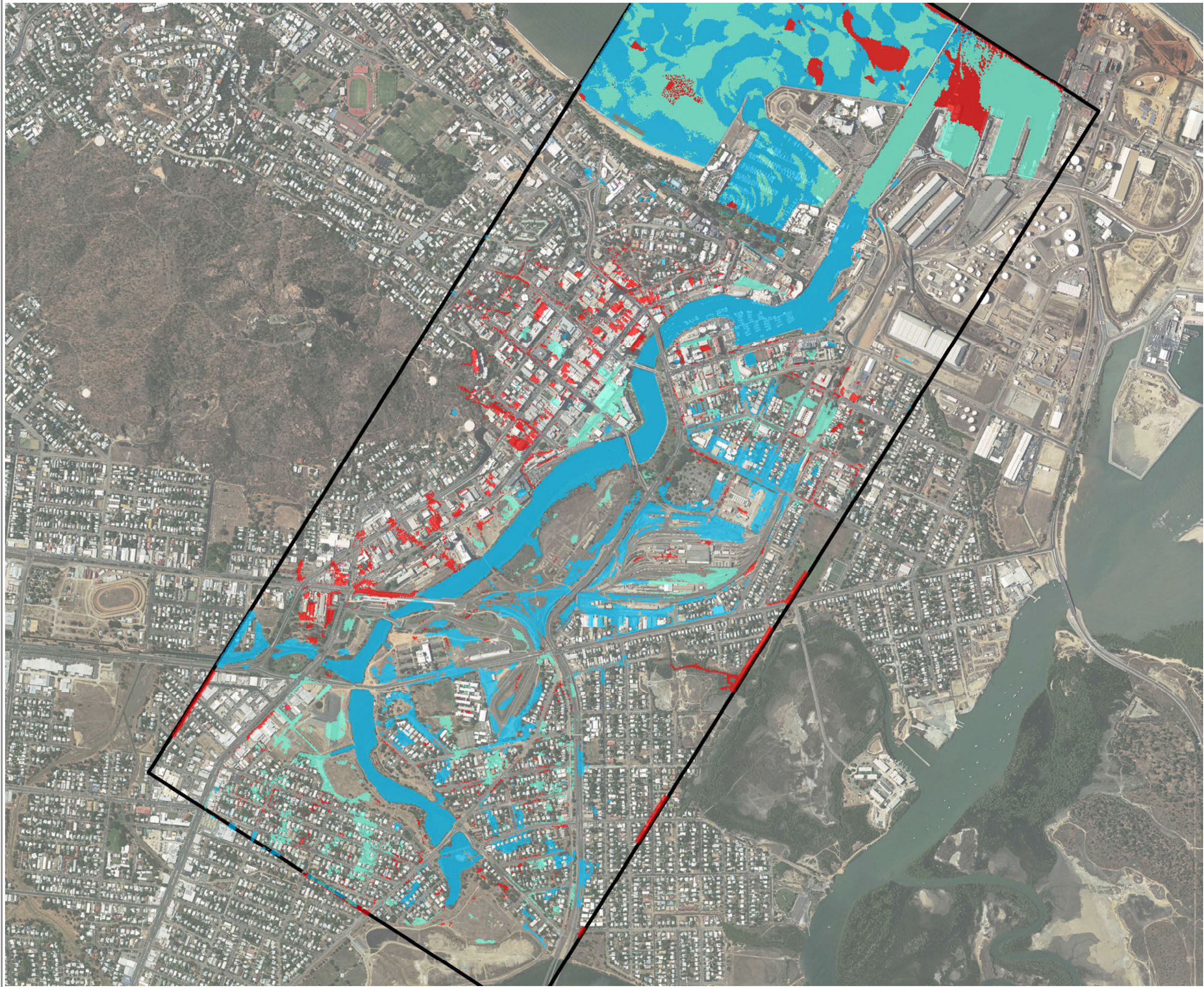


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CBD Hydraulic Model

**Critical Storm Duration
(2 Year ARI)
Figure D-1.4**

LEGEND

**Critical Storm
Durations (hour)**

- 1 h
- 12 h
- 18 h
- Model Domain



SCALE: 1:15,000 @A3

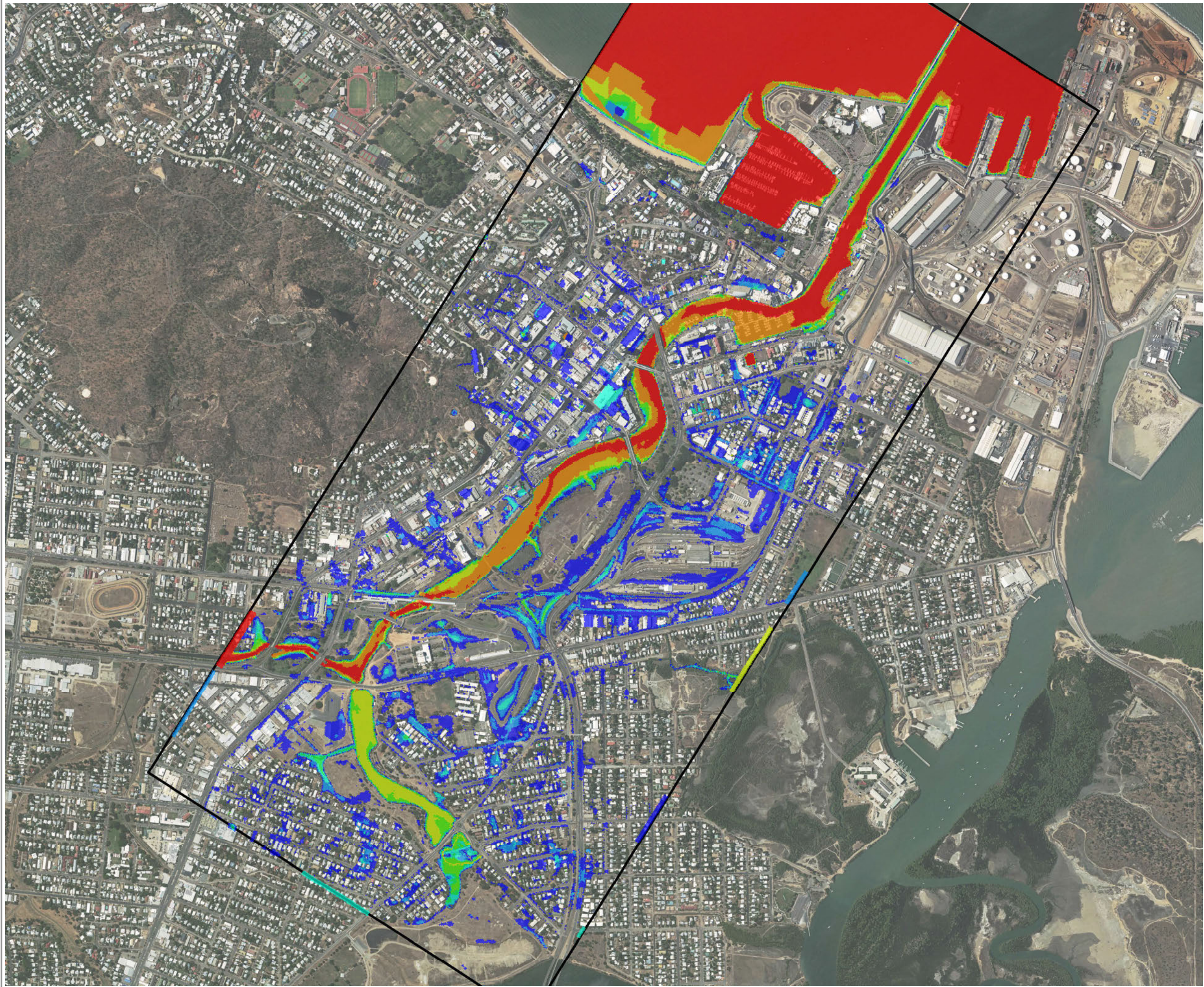
200 100 0 200 400
Metres

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CBD Hydraulic Model

5 Y ARI

Figure D-2.1

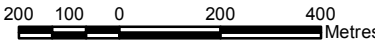
LEGEND

Water Depth (m)

- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 25
- ModelDomain



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

5 Y ARI

Figure D-2.2

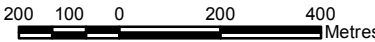
LEGEND

Flood Level (m AHD)

	<2		7.5 - 8
	2 - 2.5		8 - 8.5
	2.5 - 3		8.5 - 9
	3 - 3.5		9 - 9.5
	3.5 - 4		9.5 - 10
	4 - 4.5		10 - 10.5
	4.5 - 5		10.5 - 11
	5 - 5.5		11 - 11.5
	5.5 - 6		11.5 - 12
	6 - 6.5		12 - 12.5
	6.5 - 7		>12.5
	7 - 7.5		



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

5 Y ARI

Figure D-2.3

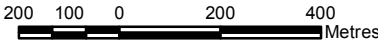
LEGEND

Flow Velocity (m/s)

-  <0.25
-  0.25 - 0.5
-  0.5 - 0.75
-  0.75 - 1
-  1 - 1.25
-  1.25 - 1.5
-  1.5 - 1.75
-  1.75 - 2
-  2 - 3
-  >3
-  ModelDomain



SCALE: 1:15,000 @A3

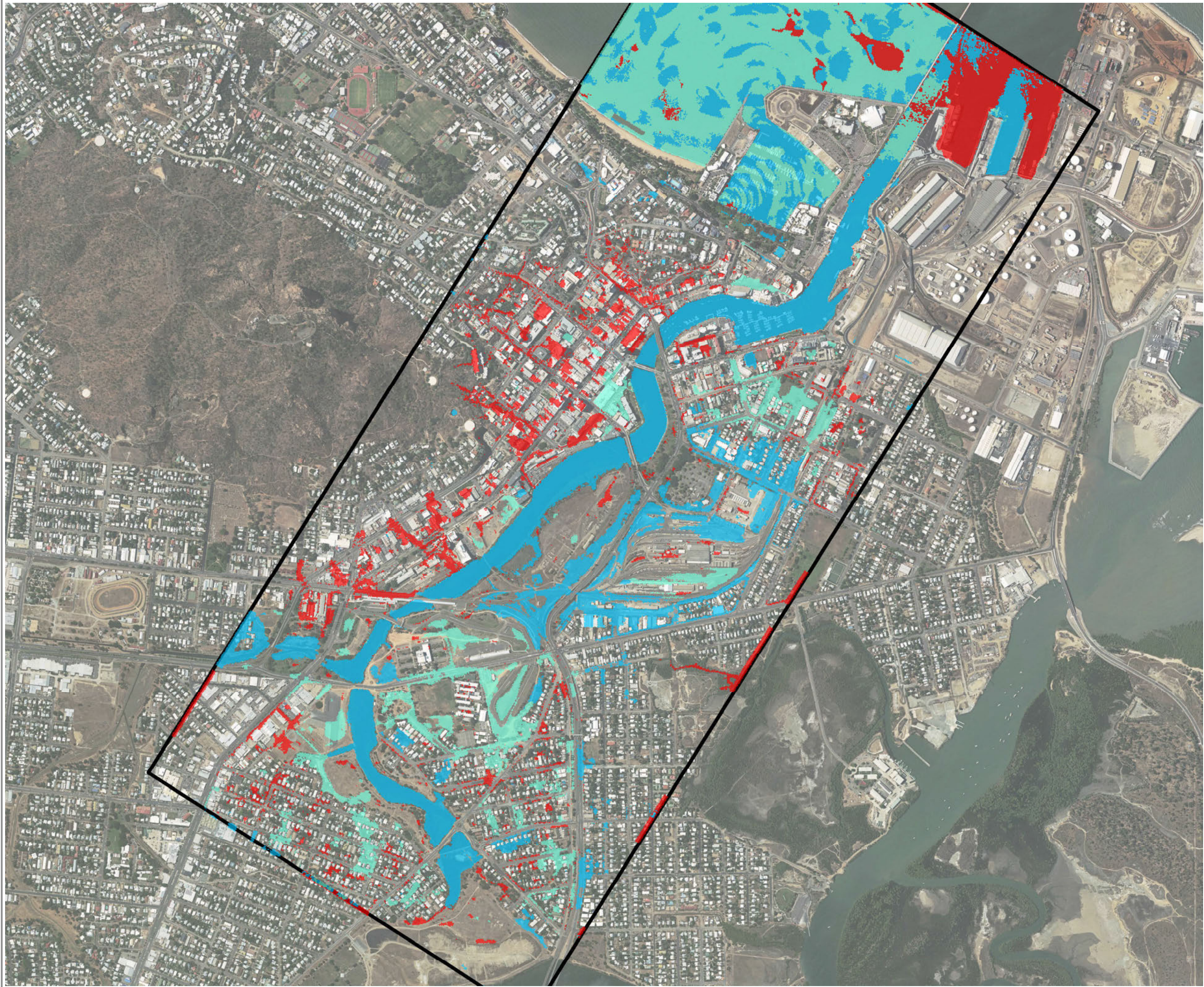


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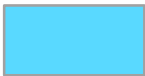
CBD Hydraulic Model

**Critical Storm Duration
(5 Year ARI)
Figure D-2.4**

LEGEND

**Critical Storm
Durations (hour)**

CBD_5yEnv_T

-  1 h
-  12 h
-  18 h
-  Model Domain



SCALE: 1:15,000 @A3

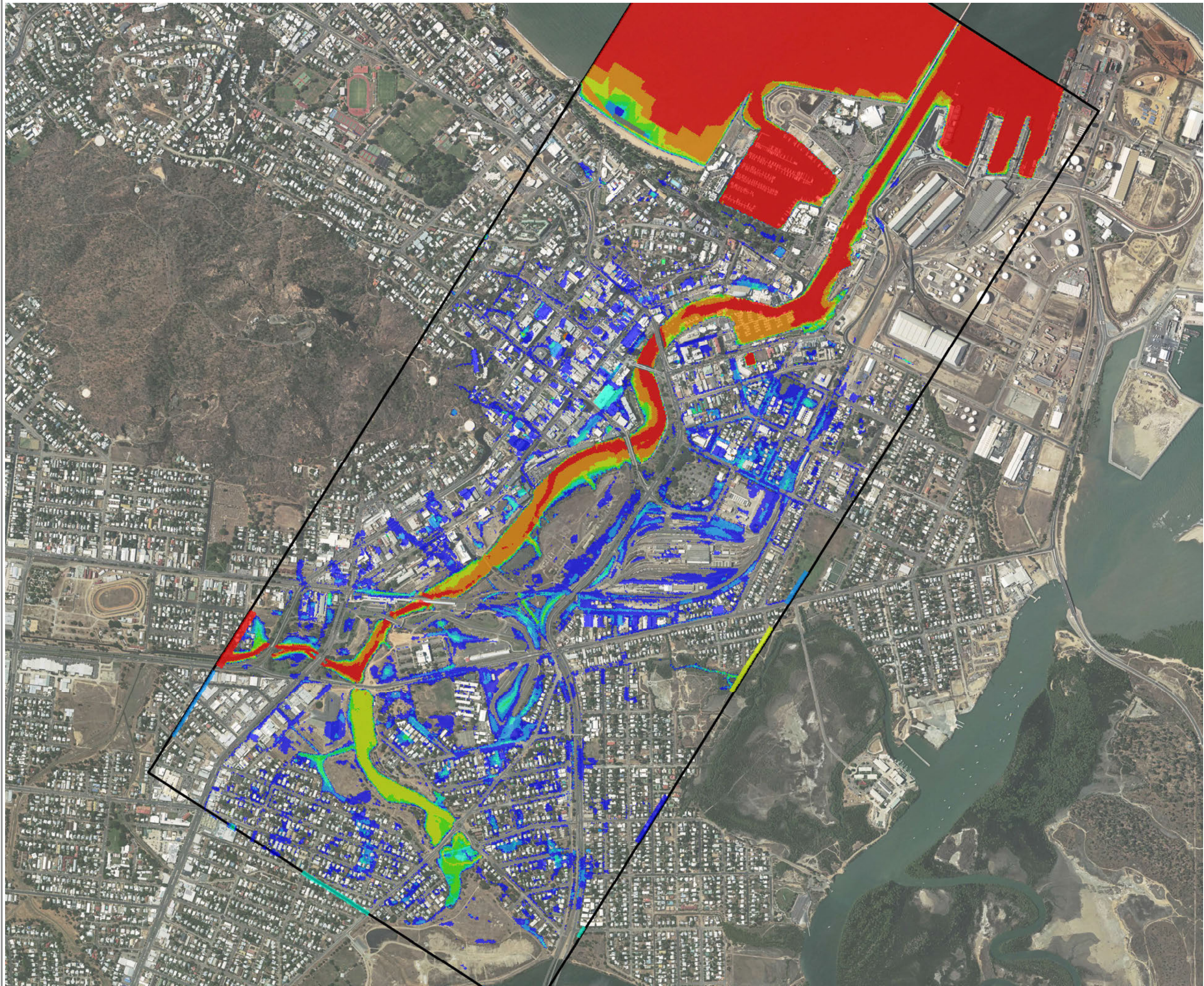
200 100 0 200 400
Metres

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CBD Hydraulic Model

10 Y ARI

Figure D-3.1

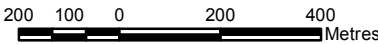
LEGEND

Water Depth (m)

- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 25
- ModelDomain



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

10 Y ARI

Figure D-3.2

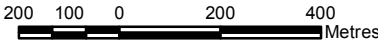
LEGEND

Flood Level (m AHD)

	<2		7.5 - 8
	2 - 2.5		8 - 8.5
	2.5 - 3		8.5 - 9
	3 - 3.5		9 - 9.5
	3.5 - 4		9.5 - 10
	4 - 4.5		10 - 10.5
	4.5 - 5		10.5 - 11
	5 - 5.5		11 - 11.5
	5.5 - 6		11.5 - 12
	6 - 6.5		12 - 12.5
	6.5 - 7		>12.5
	7 - 7.5		



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CBD Hydraulic Model

10 Y ARI

Figure D-3.3

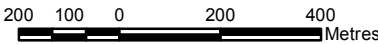
LEGEND

Flow Velocity (m/s)

-  <0.25
-  0.25 - 0.5
-  0.5 - 0.75
-  0.75 - 1
-  1 - 1.25
-  1.25 - 1.5
-  1.5 - 1.75
-  1.75 - 2
-  2 - 3
-  >3
-  ModelDomain



SCALE: 1:15,000 @A3

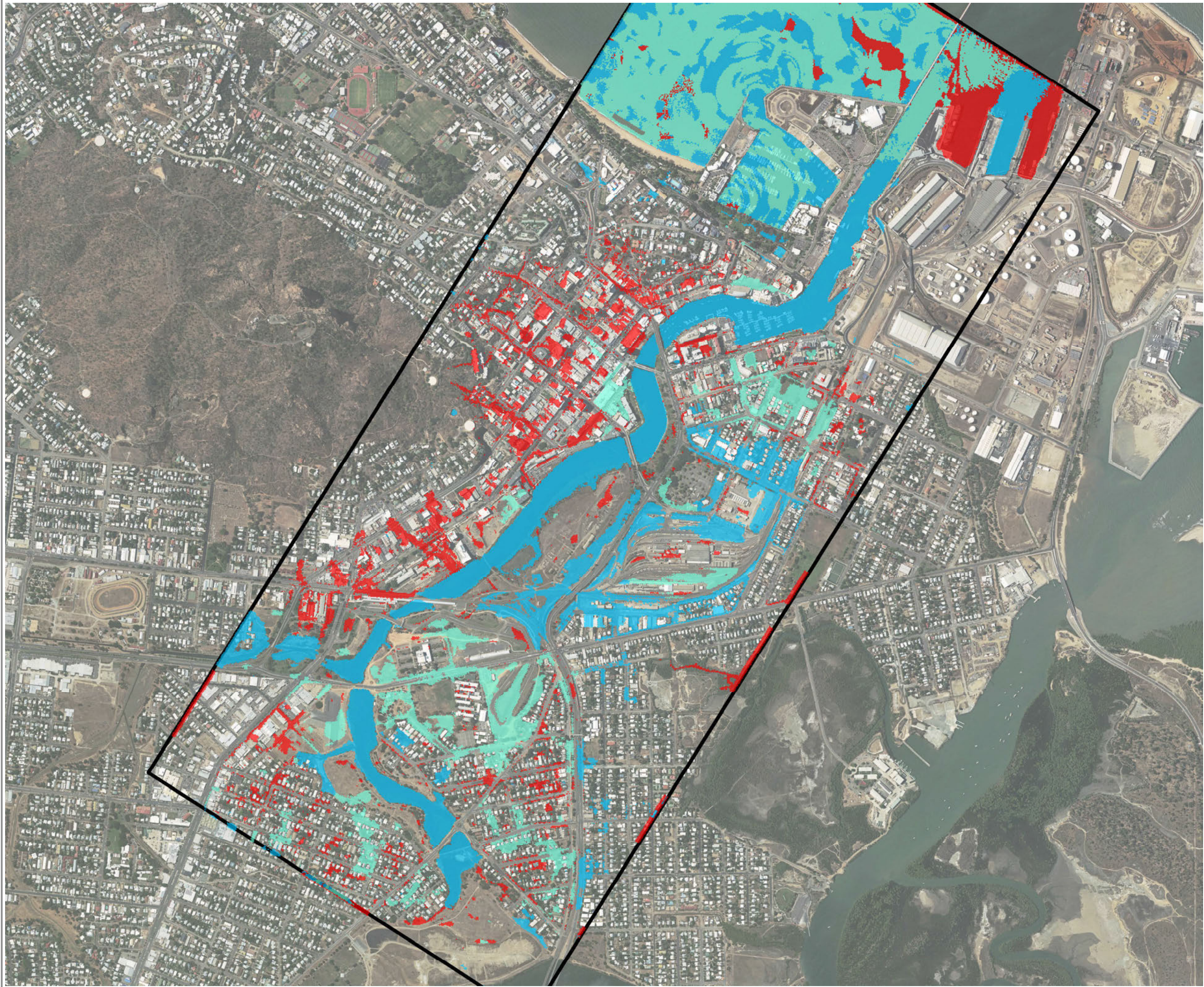


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CBD Hydraulic Model

**Critical Storm Duration
(10 Year ARI)
Figure D-3.4**

LEGEND

**Critical Storm
Durations (hour)**

-  1 h
-  12 h
-  18 h
-  Model Domain



SCALE: 1:15,000 @A3

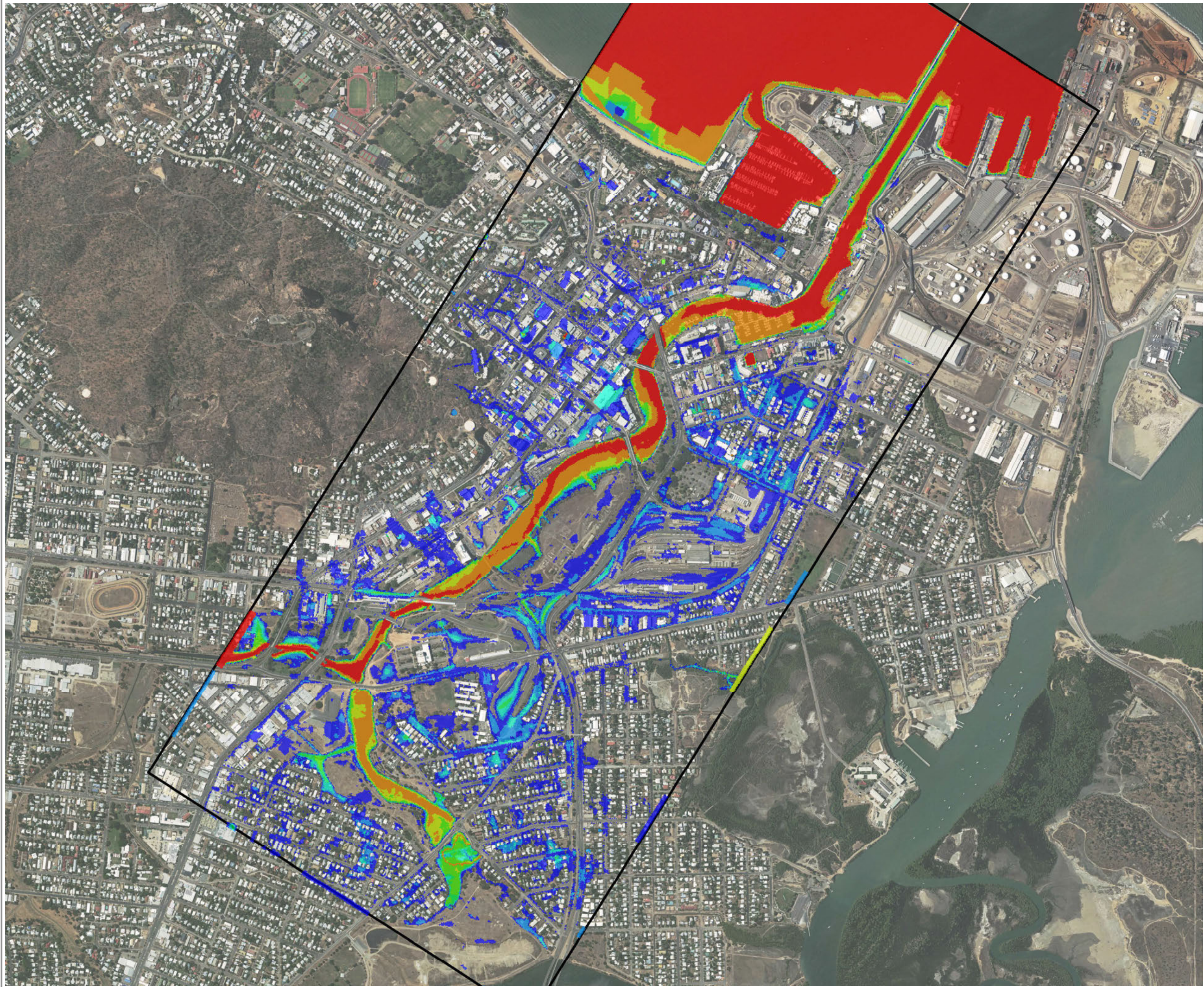
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Metres

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CBD Hydraulic Model

20 Y ARI

Figure D-4.1

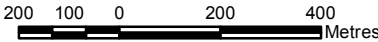
LEGEND

Water Depth (m)

- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 25
- ModelDomain



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

20 Y ARI

Figure D-4.2

LEGEND

Flood Level (m AHD)

	<2		7.5 - 8
	2 - 2.5		8 - 8.5
	2.5 - 3		8.5 - 9
	3 - 3.5		9 - 9.5
	3.5 - 4		9.5 - 10
	4 - 4.5		10 - 10.5
	4.5 - 5		10.5 - 11
	5 - 5.5		11 - 11.5
	5.5 - 6		11.5 - 12
	6 - 6.5		12 - 12.5
	6.5 - 7		>12.5
	7 - 7.5		



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

20 Y ARI

Figure D-4.3

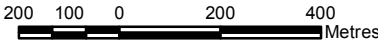
LEGEND

Flow Velocity (m/s)

-  <0.25
-  0.25 - 0.5
-  0.5 - 0.75
-  0.75 - 1
-  1 - 1.25
-  1.25 - 1.5
-  1.5 - 1.75
-  1.75 - 2
-  2 - 3
-  >3
-  ModelDomain



SCALE: 1:15,000 @A3

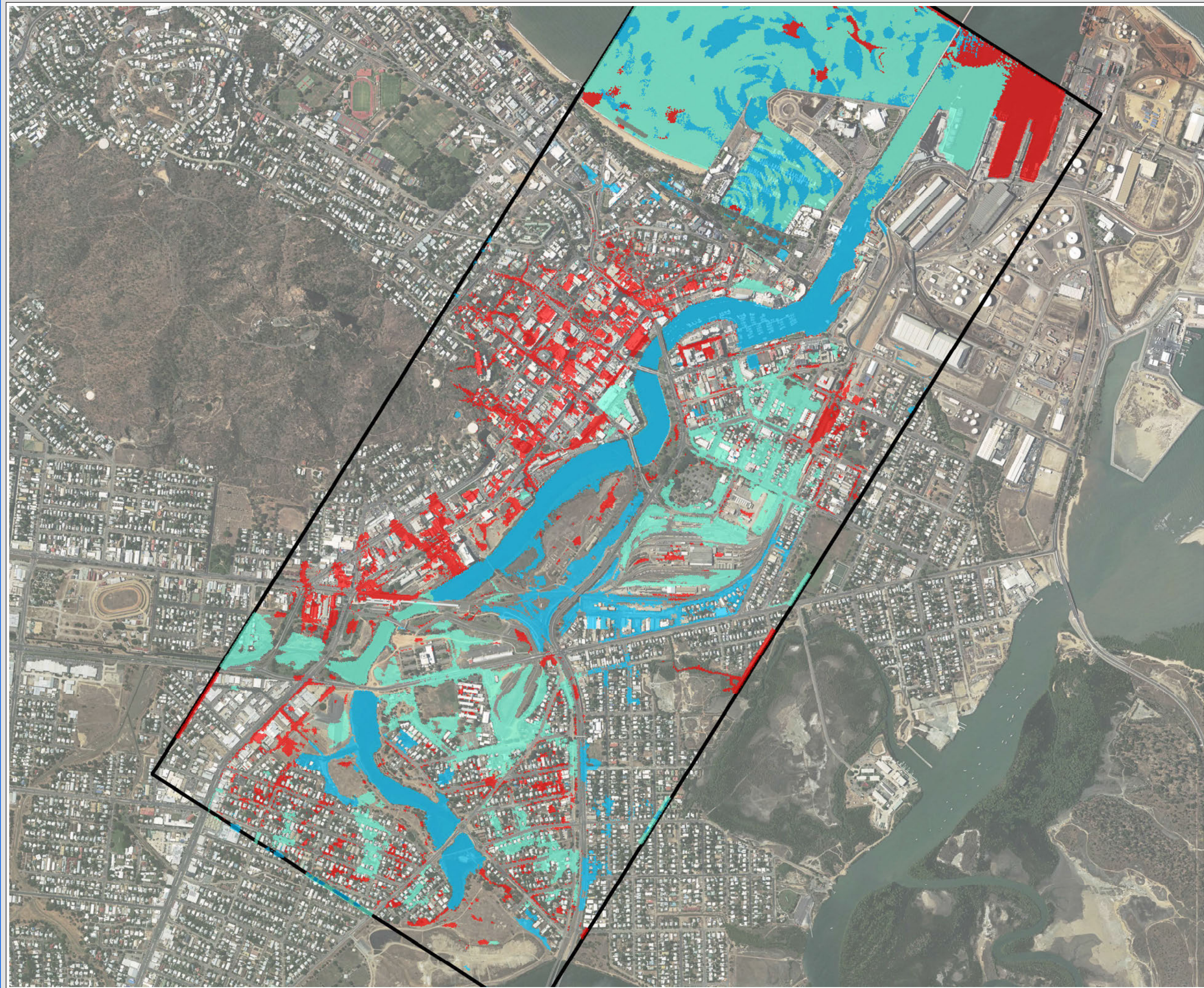


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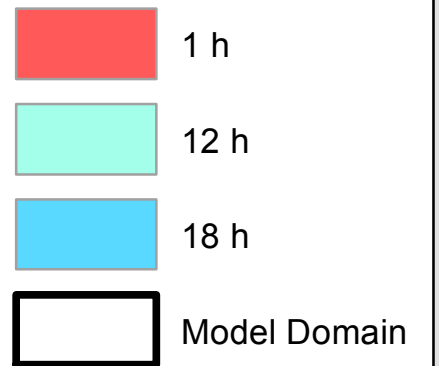


CBD Hydraulic Model

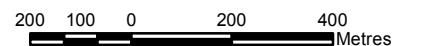
**Critical Storm Duration
(20 Year ARI)
Figure D-4.4**

LEGEND

Critical Storm Durations (hour)



SCALE: 1:15,000 @A3

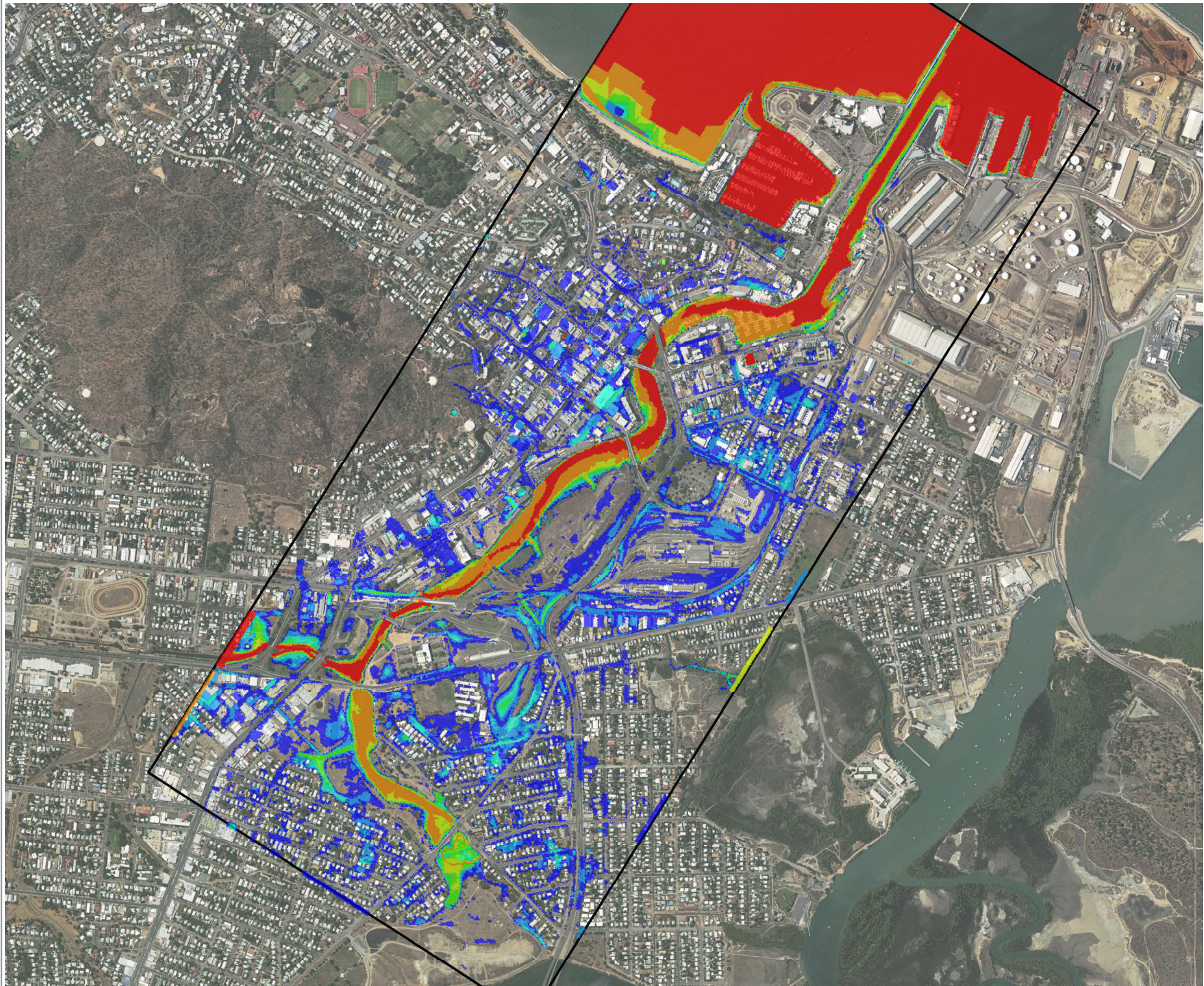


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CBD Hydraulic Model

50 Y ARI

Figure D-5.1

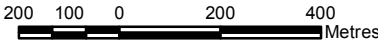
LEGEND

Water Depth (m)

- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 25
- ModelDomain

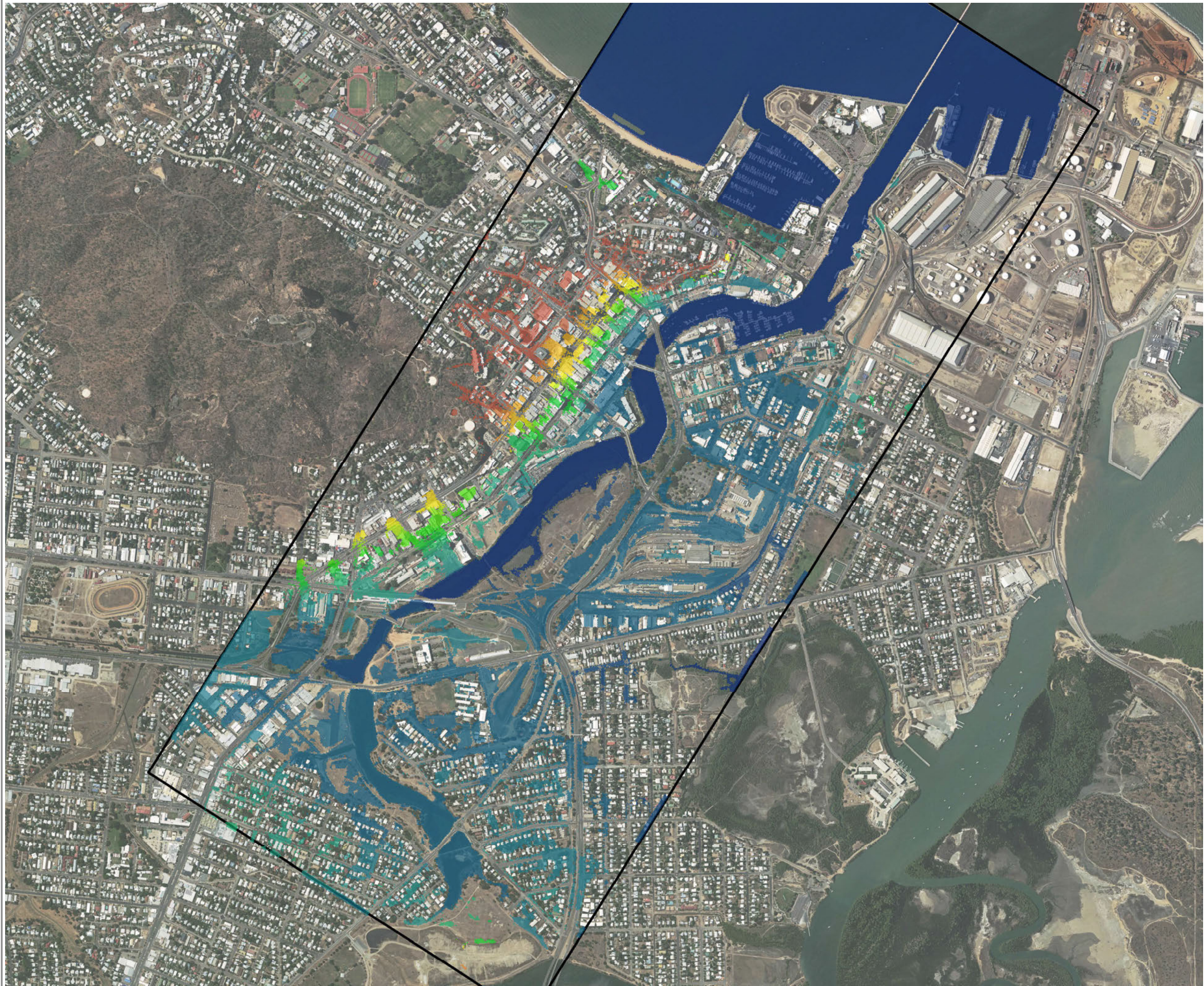


SCALE: 1:15,000 @A3



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CBD Hydraulic Model

50 Y ARI

Figure D-5.2

LEGEND

Flood Level (m AHD)

	<2		7.5 - 8
	2 - 2.5		8 - 8.5
	2.5 - 3		8.5 - 9
	3 - 3.5		9 - 9.5
	3.5 - 4		9.5 - 10
	4 - 4.5		10 - 10.5
	4.5 - 5		10.5 - 11
	5 - 5.5		11 - 11.5
	5.5 - 6		11.5 - 12
	6 - 6.5		12 - 12.5
	6.5 - 7		>12.5
	7 - 7.5		



SCALE: 1:15,000 @A3



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CBD Hydraulic Model

50 Y ARI

Figure D-5.3

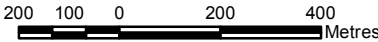
LEGEND

Flow Velocity (m/s)

- <0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.25
- 1.25 - 1.5
- 1.5 - 1.75
- 1.75 - 2
- 2 - 3
- >3
- ModelDomain



SCALE: 1:15,000 @A3



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