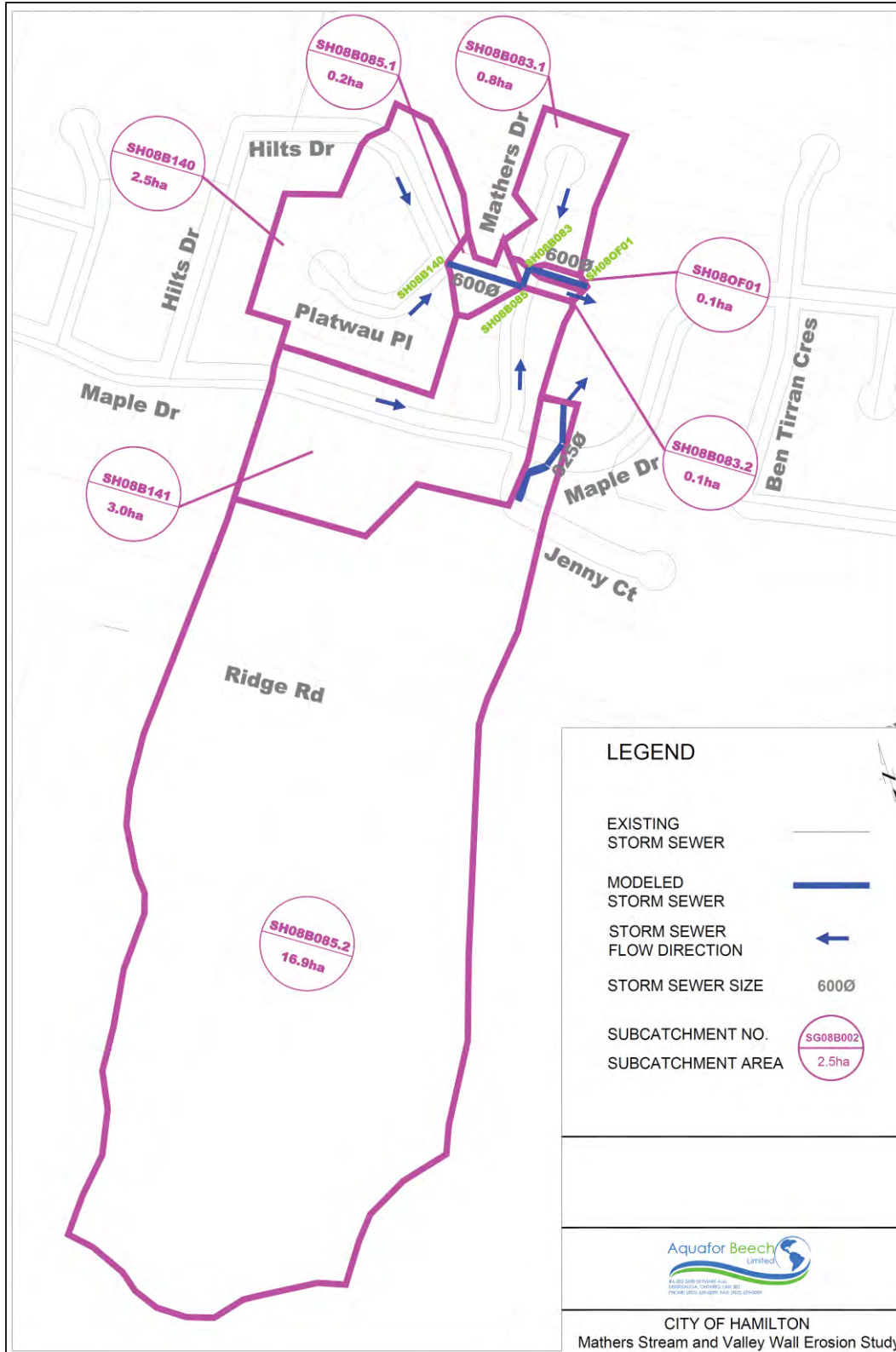


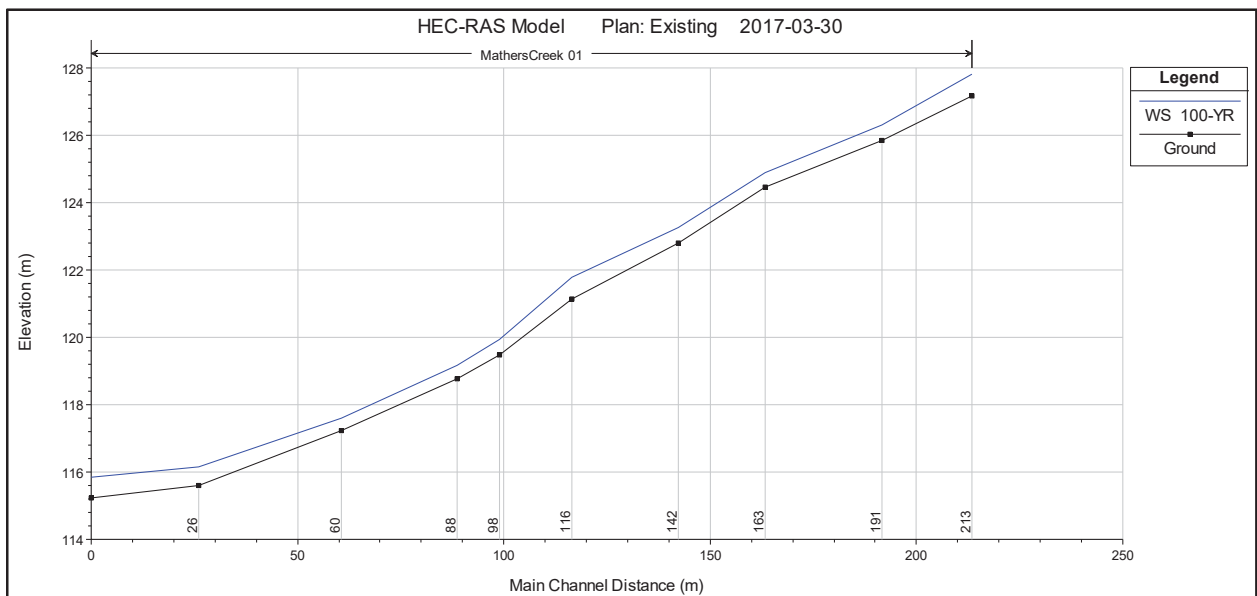
**Appendix B: HEC-RAS Results**



Approximate limits of Mathers Stream subcatchment and municipal sewer infrastructure within the study area



**Locations of Cross Sections within HEC-RAS Model**



**Profile of 100-year Flood Results from HEC-RAS Model**

**Summary of Results from HEC-RAS Model**

River Sta	Profile	Q Total (m <sup>3</sup> /s)	Vel Chnl (m/s)	Vel Total (m/s)	Shear Chan (N/m <sup>2</sup> )	Shear Total (N/m <sup>2</sup> )	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Flow Area (m <sup>2</sup> )
213	2-YR	0.7	1.55	1.55	48.67	48.67	127.5	127.5	127.62	0.45
213	5-YR	1.1	1.77	1.77	58.97	58.97	127.59	127.59	127.75	0.62
213	10-YR	1.4	1.86	1.86	62.79	62.79	127.65	127.65	127.83	0.75
213	25-YR	1.8	1.99	1.99	68.99	68.99	127.72	127.72	127.92	0.9
213	50-YR	2.1	2.07	2.07	72.95	72.95	127.76	127.76	127.98	1.01
213	100-YR	2.4	2.15	2.15	76.59	76.59	127.81	127.81	128.04	1.12
191	2-YR	0.7	3.05	3.05	214.61	214.61	126.06	126.2	126.54	0.23
191	5-YR	1.1	3.42	3.42	247.96	247.96	126.13	126.29	126.72	0.32
191	10-YR	1.4	3.57	3.57	258.59	258.59	126.17	126.36	126.82	0.39
191	25-YR	1.8	3.79	3.78	277.49	264.57	126.22	126.44	126.95	0.48
191	50-YR	2.1	3.91	3.86	285.13	263.02	126.26	126.49	127.04	0.54
191	100-YR	2.4	4.02	3.94	294.25	264.87	126.29	126.54	127.12	0.61
163	2-YR	0.7	1.48	1.48	47.82	47.82	124.71	124.73	124.83	0.47
163	5-YR	1.1	1.8	1.8	65.61	65.61	124.77	124.8	124.93	0.61
163	10-YR	1.4	2	2	78.34	78.34	124.8	124.84	125	0.7
163	25-YR	1.8	2.24	2.24	94.22	94.22	124.84	124.9	125.09	0.8
163	50-YR	2.1	2.4	2.4	106.43	106.43	124.86	124.94	125.16	0.87
163	100-YR	2.4	2.55	2.55	117.84	117.84	124.89	124.97	125.22	0.94
142	2-YR	0.7	2.94	2.94	217.64	217.64	123.05	123.17	123.49	0.24
142	5-YR	1.1	3.14	3.14	224.21	224.21	123.11	123.25	123.61	0.35
142	10-YR	1.4	3.25	3.25	228.3	228.3	123.15	123.3	123.69	0.43
142	25-YR	1.8	3.39	3.39	234.38	234.38	123.2	123.37	123.78	0.53
142	50-YR	2.1	3.46	3.46	237.25	237.25	123.23	123.41	123.84	0.61
142	100-YR	2.4	3.54	3.54	241.11	241.11	123.26	123.45	123.9	0.68
116	2-YR	0.7	1.63	1.63	57.15	57.15	121.53	121.54	121.67	0.43
116	5-YR	1.1	1.97	1.97	77.66	77.66	121.61	121.64	121.81	0.56
116	10-YR	1.4	1.79	1.79	68.74	68.74	121.7	121.73	121.87	0.78
116	25-YR	1.8	2	2	82.69	82.69	121.74	121.78	121.94	0.9
116	50-YR	2.1	2.14	2.14	93.23	93.23	121.76	121.82	121.99	0.98
116	100-YR	2.4	2.27	2.27	103.03	103.03	121.78	121.85	122.05	1.06
98	2-YR	0.7	3.38	3.38	295.82	295.82	119.72	119.86	120.3	0.21
98	5-YR	1.1	3.59	3.59	303.73	303.73	119.78	119.94	120.43	0.31
98	10-YR	1.4	3.65	3.65	296.92	296.92	119.81	120	120.49	0.38

98	25-YR	1.8	3.71	3.71	291.61	291.61	119.86	120.06	120.56	0.49
98	50-YR	2.1	3.74	3.74	287.26	287.26	119.9	120.09	120.61	0.56
98	100-YR	2.4	3.78	3.78	286.65	286.65	119.93	120.13	120.66	0.63
88	2-YR	0.7	1.64	1.64	62.67	62.67	119.04	119.09	119.17	0.43
88	5-YR	1.1	2.01	2.01	88.44	88.44	119.08	119.13	119.29	0.55
88	10-YR	1.4	2.26	2.26	107.45	107.45	119.1	119.18	119.36	0.62
88	25-YR	1.8	2.53	2.53	129.12	129.12	119.13	119.23	119.46	0.71
88	50-YR	2.1	2.72	2.72	146.42	146.42	119.15	119.27	119.53	0.77
88	100-YR	2.4	2.89	2.89	161.84	161.84	119.17	119.3	119.6	0.83
60	2-YR	0.7	1.82	1.82	80.31	80.31	117.43	117.48	117.6	0.38
60	5-YR	1.1	2.04	2.04	92.72	92.72	117.48	117.54	117.69	0.54
60	10-YR	1.4	2.18	2.18	100.79	100.79	117.51	117.58	117.75	0.64
60	25-YR	1.8	2.36	2.36	111.85	111.85	117.55	117.63	117.83	0.76
60	50-YR	2.1	2.45	2.45	117.35	117.35	117.57	117.66	117.88	0.86
60	100-YR	2.4	2.56	2.56	124.46	124.46	117.6	117.69	117.93	0.94
26	2-YR	0.7	1.12	1.12	24.21	24.21	116.02	115.95	116.09	0.63
26	5-YR	1.1	1.32	1.32	31.91	31.91	116.11	116.03	116.2	0.83
26	10-YR	1.4	1.47	1.47	38.45	38.45	116.16	116.09	116.27	0.95
26	25-YR	1.8	1.42	1.42	37.36	36.41	116.25	116.15	116.36	1.27
26	50-YR	2.1	2.4	2.4	103.75	103.75	116.13	116.23	116.42	0.87
26	100-YR	2.4	2.5	2.5	110.53	110.53	116.16	116.27	116.48	0.96
0	2-YR	0.7	1.39	1.39	40.62	40.62	115.61	115.61	115.7	0.5
0	5-YR	1.1	1.54	1.54	46.97	46.97	115.68	115.68	115.8	0.72
0	10-YR	1.4	1.59	1.59	48.76	48.76	115.73	115.73	115.86	0.88
0	25-YR	1.8	1.68	1.68	52.43	52.43	115.79	115.79	115.93	1.07
0	50-YR	2.1	1.75	1.75	55.96	55.96	115.82	115.82	115.97	1.2
0	100-YR	2.4	1.8	1.8	57.98	57.98	115.85	115.85	116.02	1.33