Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	3958	SCS2yr	5.12	183.27	184.16	183.93	184.27	0.00412	1.43	3.88	6.89	0.54
Draper's	Draper's_E	3958	SCS5yr	6.56	183.27	184.25	184.02	184.38	0.004475	1.61	4.53	7.65	0.58
Draper's	Draper's_E	3958	SCS10yr	7.85	183.27	184.32	184.1	184.48	0.00476	1.76	5.1	8.36	0.6
Draper's	Draper's_E	3958	SCS25yr	9.85	183.27	184.42	184.2	184.43	0.000506	0.62	31.71	61.1	0.2
Draper's	Draper's_E	3958	SCS50yr	11.62	183.27	184.51	184.29	184.52	0.000443	0.61	37.32	62.45	0.19
Draper's	Draper's_E	3958	SCS100yr	13.15	183.27	184.59	184.32	184.6	0.000395	0.61	42.23	64.79	0.18
Draper's	Draper's_E	3958	SCS200yr	15.8	183.27	184.72	184.35	184.73	0.00033	0.59	50.94	68.1	0.17
Draper's	Draper's_E	3958	RSnow100yr	7.78	183.27	184.32	184.1	184.47	0.004749	1.75	5.06	8.32	0.6
Draper's	Draper's_E	3914	SCS2yr	5.12	183.1	183.99	183.79	184.08	0.004281	1.37	4.11	8.02	0.55
Draper's	Draper's_E	3914	SCS5yr	6.56	183.1	184.05	183.87	184.17	0.005076	1.58	4.61	8.32	0.6
Draper's	Draper's_E	3914	SCS10yr	7.85	183.1	184.1	183.94	184.25	0.005827	1.77	4.99	8.48	0.65
Draper's	Draper's_E	3914	SCS25yr	9.85	183.1	184.16	184.03	184.36	0.006933	2.03	5.52	8.84	0.72
Draper's	Draper's_E	3914	SCS50yr	11.62	183.1	184.2	184.1	184.45	0.00808	2.27	5.89	9.15	0.79
Draper's	Draper's_E	3914	SCS100yr	13.15	183.1	184.23	184.16	184.52	0.009006	2.46	6.21	9.41	0.84
Draper's	Draper's_E	3914	SCS200yr	15.8	183.1	184.27	184.26	184.65	0.01102	2.81	6.61	9.73	0.93
Draper's	Draper's_E	3914	RSnow100yr	7.78	183.1	184.09	183.93	184.24	0.005788	1.76	4.97	8.48	0.65
Draper's	Draper's_E	3819	SCS2yr	5.12	182.85	183.61		183.66	0.004292	1.2	8.13	36.76	0.53
Draper's	Draper's_E	3819	SCS5yr	6.56	182.85	183.66		183.71	0.00423	1.26	9.99	38.85	0.53
Draper's	Draper's_E	3819	SCS10yr	7.85	182.85	183.7		183.75	0.00414	1.31	11.61	40.33	0.53
Draper's	Draper's_E	3819	SCS25yr	9.85	182.85	183.76		183.81	0.004145	1.39	13.84	42.66	0.54
Draper's	Draper's_E	3819	SCS50yr	11.62	182.85	183.8		183.85	0.004097	1.44	15.75	43.89	0.54
Draper's	Draper's_E	3819	SCS100yr	13.15	182.85	183.83		183.89	0.004175	1.49	17.12	44.56	0.55
Draper's	Draper's_E	3819	SCS200yr	15.8	182.85	183.89		183.95	0.004151	1.56	19.6	45.75	0.56
Draper's	Draper's_E	3819	RSnow100yr	7.78	182.85	183.7		183.75	0.004139	1.31	11.53	40.25	0.53
Draper's	Draper's_E	3718	SCS2yr	5.12	182.51	183.2	183.13	183.23	0.004119	1.22	9.58	39.13	0.52
Draper's	Draper's_E	3718	SCS5yr	6.56	182.51	183.25	183.16	183.28	0.004188	1.3	11.54	41.66	0.53
Draper's	Draper's_E	3718	SCS10yr	7.85	182.51	183.28		183.32	0.00437	1.38	13.04	43.82	0.55
Draper's	Draper's_E	3718	SCS25yr	9.85	182.51	183.33		183.38	0.004414	1.46	15.44	47.1	0.56
Draper's	Draper's_E	3718	SCS50yr	11.62	182.51	183.37		183.42	0.004502	1.53	17.31	48.47	0.57
Draper's	Draper's_E	3718	SCS100yr	13.15	182.51	183.41		183.45	0.004476	1.57	18.96	49.52	0.57
Draper's	Draper's_E	3718	SCS200yr	15.8	182.51	183.46		183.51	0.004543	1.65	21.66	53.22	0.58
Draper's	Draper's_E	3718	RSnow100yr	7.78	182.51	183.28		183.32	0.00437	1.38	12.95	43.73	0.55
Draper's	Draper's_E	3634	SCS2yr	5.12	182.26	182.86	182.77	182.89	0.004167	1.01	8.63	37.33	0.5
Draper's	Draper's_E	3634	SCS5yr	6.56	182.26	182.9	182.79	182.94	0.004178	1.09	10.43	40.64	0.51
Draper's	Draper's_E	3634	SCS10yr	7.85	182.26	182.95	182.83	182.98	0.003884	1.12	12.3	42.61	0.5
Draper's	Draper's_E	3634	SCS25yr	9.85	182.26	183	182.86	183.04	0.003855	1.19	14.6	44.66	0.51
Draper's	Draper's_E	3634	SCS50yr	11.62	182.26	183.06	182.89	183.1	0.00332	1.18	17.53	47.88	0.48
Draper's	Draper's_E	3634	SCS100yr	13.15	182.26	183.1	182.91	183.14	0.003336	1.23	19.15	49.76	0.49
Draper's	Draper's_E	3634	SCS200yr	15.8	182.26	183.16	182.96	183.2	0.00307	1.26	22.61	53.3	0.48
Draper's	Draper's_E	3634	RSnow100yr	7.78	182.26	182.95	182.83	182.98	0.003881	1.11	12.22	42.55	0.5
Draper's	Draper's_E	3535	SCS2yr	5.12	181.94	182.61	182.45	182.62	0.001906	0.81	12.66	46	0.36
Draper's	Draper's_E	3535	SCS5yr	6.56	181.94	182.68	182.48	182.7	0.001574	0.81	16.3	49.76	0.33
Draper's	Draper's_E	3535	SCS10yr	7.85	181.94	182.71	182.5	182.73	0.001792	0.89	17.94	53.2	0.36
Draper's	Draper's_E	3535	SCS25yr	9.85	181.94	182.8	182.53	182.82	0.00143	0.87	23.1	64.65	0.32
Draper's	Draper's_E	3535	SCS50yr	11.62	181.94	182.87	182.56	182.89	0.001458	0.93	28.08	73.71	0.33
Draper's	Draper's_E	3535	SCS100yr	13.15	181.94	182.87	182.56	182.89	0.001967	1.08	27.44	73.36	0.39
Draper's	Draper's_E	3535	SCS200yr	15.8	181.94	182.99	182.62	183.01	0.001351	0.98	37.76	91.29	0.33
Draper's	Draper's_E	3535	RSnow100yr	7.78	181.94	182.71	182.5	182.73	0.001802	0.89	17.79	52.62	0.36
Draper's	Draper's_E	3431	SCS2yr	5.12	181.82	182.46	182.25	182.47	0.0011	0.63	19.62	72.05	0.27
Draper's	Draper's_E	3431	SCS5yr	6.56	181.82	182.6	182.27	182.6	0.000571	0.52	30.5	90.46	0.2
Draper's	Draper's_E	3431	SCS10yr	7.85	181.82	182.61	182.3	182.61	0.000756	0.61	31.42	91.51	0.23
Draper's	Draper's_E	3431	SCS25yr	9.85	181.82	182.72	182.33	182.73	0.000523	0.56	43.01	102.86	0.2
Draper's	Draper's_E	3431	SCS50yr	11.62	181.82	182.81	182.35	182.81	0.000445	0.55	51.4	106.3	0.19
Draper's	Draper's_E	3431	SCS100yr	13.15	181.82	182.75	182.37	182.76	0.000771	0.7	46.07	103.74	0.24
Draper's	Draper's_E	3431	SCS200yr	15.8	181.82	182.92	182.4	182.93	0.00043	0.59	64.38	110.14	0.19
Draper's	Draper's_E	3431	RSnow100yr	7.78	181.82	182.6	182.3	182.61	0.000764	0.61	31.08	91.12	0.24
Draper's	Draper's_E	3329	SCS2yr	5.12	181.61	182.45	181.87	182.45	0.00006	0.18	77.49	288.08	0.07
Draper's	Draper's_E	3329	SCS5yr	6.56	181.61	182.59	181.89	182.59	0.000041	0.17	103.72	405.98	0.06
Draper's	Draper's_E	3329	SCS10yr	7.85	181.61	182.6	181.89	182.6	0.000056	0.2	105.22	413.37	0.07
Draper's	Draper's_E	3329	SCS25yr	9.85	181.61	182.72	181.92	182.72	0.000047	0.2	130.74	501.08	0.06
Draper's	Draper's_E	3329	SCS50yr	11.62	181.61	182.8	181.92	182.8	0.000044	0.2	148.22	526.42	0.06
Draper's	Draper's_E	3329	SCS100yr	13.15	181.61	182.74	181.96	182.74	0.000073	0.25	136.08	512.13	0.08
Draper's	Draper's_E	3329	SCS200yr	15.8	181.61	182.92	181.98	182.92	0.000026	0.16	296.55	544.32	0.05
Draper's	Draper's_E	3329	RSnow100yr	7.78	181.61	182.59	181.89	182.59	0.000057	0.2	104.42	409.32	0.07
Draper's	Draper's_E	3237	SCS2yr	5.12	181.48	182.45	181.75	182.45	0.000066	0.21	32.55	102.6	0.07
Draper's	Draper's_E	3237	SCS5yr	6.56	181.48	182.58	181.78	182.58	0.000049	0.2	53.37	115.8	0.06
Draper's	Draper's_E	3237	SCS10yr	7.85	181.48	182.59	181.81	182.59	0.000069	0.23	53.97	116.07	0.08
Draper's	Draper's_E	3237	SCS25yr	9.85	181.48	182.71	181.85	182.71	0.000061	0.24	68.4	121.21	0.07
Draper's	Draper's_E	3237	SCS50yr	11.62	181.48	182.79	181.89	182.79	0.00006	0.25	78.42	126.18	0.07
Draper's	Draper's_E	3237	SCS100yr	13.15	181.48	182.73	181.91	182.73	0.000099	0.31	70.93	122.27	0.09
Draper's	Draper's_E	3237	SCS200yr	15.8	181.48	182.91	181.95	182.92	0.000071	0.29	94.59	143.01	0.08
Draper's	Draper's_E	3237	RSnow100yr	7.78	181.48	182.58	181.81	182.59	0.000069	0.23	53.52	115.87	0.08
Draper's	Draper's_E	3134	SCS2yr	5.12	181.34	182.42	181.77	182.43	0.000319	0.49	13.39	48.67	0.16
Draper's	Draper's_E	3134	SCS5yr	6.56	181.34	182.56	181.85	182.57	0.000315	0.53	19.79	100.48	0.16
Draper's	Draper's_E	3134	SCS10yr	7.85	181.34	182.56	181.9	182.57	0.000457	0.64	19.52	99.67	0.2
Draper's	Draper's_E	3134	SCS25yr	9.85	181.34	182.69	181.97	182.7	0.000209	0.47	42.13	149.62	0.14
Draper's	Draper's_E	3134	SCS50yr	11.62	181.34	182.78	182.02	182.78	0.000158	0.43	55.07	155.34	0.12
Draper's	Draper's_E	3134	SCS100yr	13.15	181.34	182.71	182.06	182.72	0.000343	0.6	43.81	150.79	0.17
Draper's	Draper's_E	3134	SCS200yr	15.8	181.34	182.9	182.13	182.91	0.000135	0.42	74.7	169.35	0.11
Draper's	Draper's_E	3134	RSnow100yr	7.78	181.34	182.55	181.89	182.57	0.000455	0.64	19.28	98.17	0.2
Draper's	Draper's_E	3087	SCS2yr	5.12	181.39	182.42	181.72	182.42	0.000076	0.24	37.15	76.42	0.08
Draper's	Draper's_E	3087	SCS5yr	6.56	181.39	182.56	181.77	182.56	0.000064	0.24	48.29	82.36	0.07
Draper's	Draper's_E	3087	SCS10yr	7.85	181.39	182.56	181.8	182.56	0.000093	0.29	47.99	82.16	0.09
Draper's	Draper's_E	3087	SCS25yr	9.85	181.39	182.69	181.86	182.69	0.000085	0.3	59.39	91.57	0.09
Draper's	Draper's_E	3087	SCS50yr	11.62	181.39	182.77	181.9	182.78	0.000088	0.31	67.65	107.09	0.09
Draper's	Draper's_E	3087	SCS100yr	13.15	181.39	182.7	181.94	182.7	0.000147	0.39	60.17	92.2	0.11
Draper's	Draper's_E	3087	SCS200yr	15.8	181.39	182.9	181.95	182.9	0.000099	0.35	86.33	153.61	0.1
Draper's	Draper's_E	3087	RSnow100yr	7.78	181.39	182.56	181.8	182.56	0.000093	0.28	47.67	81.96	0.09
Draper's	Draper's_E	3035	SCS2yr	5.12	181.42	182.34	182	182.41	0.002426	1.18	4.7	47.97	0.42
Draper's	Draper's_E	3035	SCS5yr	6.56	181.42	182.47	182.08	182.55	0.002358	1.28	5.74	59.71	0.43
Draper's	Draper's_E	3035	SCS10yr	7.85	181.42	182.54	182.15	182.55	0.000602	0.68	25.06	78.66	0.22
Draper's	Draper's_E	3035	SCS25yr	9.85	181.42	182.68	182.25	182.69	0.000414	0.62	38.68	117.1	0.19
Draper's	Draper's_E	3035	SCS50yr	11.62	181.42	182.76	182.33	182.77	0.000318	0.57	49.25	125.82	0.16
Draper's	Draper's_E	3035	SCS100yr	13.15	181.42	182.67	182.4	182.69	0.000752	0.83	38.34	116.59	0.25
Draper's	Draper's_E	3035	SCS200yr	15.8	181.42	182.89	182.48	182.89	0.000209	0.49	72.26	168.12	0.14
Draper's	Draper's_E	3035	RSnow100yr	7.78	181.42	182.54	182.15	182.55	0.000608	0.68	24.75	77.35	0.22
Draper's	Draper's_E	2980	SCS2yr	5.12	181.08	182.06	181.87	182.21	0.005429	1.74	3.28	5.67	0.62
Draper's	Draper's_E	2980	SCS5yr	6.56	181.08	182.18	181.99	182.35	0.00531	1.89	4.17	8.67	0.62
Draper's	Draper's_E	2980	SCS10yr	7.85	181.08	182.31	182.04	182.47	0.004502	1.89	5.4	11.02	0.59
Draper's	Draper's_E	2980	SCS25yr	9.85	181.08	182.48	182.26	182.62	0.003541	1.86	7.95	17.64	0.53
Draper's	Draper's_E	2980	SCS50yr	11.62	181.08	182.58	182.35	182.72	0.003342	1.9	9.84	21.4	0.53
Draper's	Draper's_E	2980	SCS100yr	13.15	181.08	182.66	182.37	182.67	0.000206	0.49	45.93	178.78	0.13
Draper's	Draper's_E	2980	SCS200yr	15.8	181.08	182.58	182.58	182.84	0.006205	2.58	9.82	21.37	0.72
Draper's	Draper's_E	2980	RSnow100yr	7.78	181.08	182.3	182.04	182.46	0.004471	1.88	5.37	10.98	0.59

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Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	2917	SCS2yr	7.55	180.91	181.77	181.58	181.88	0.004847	1.51	5.38	9.68	0.58
Draper's	Draper's_E	2917	SCS5yr	9.71	180.91	181.8	181.67	181.97	0.006845	1.85	5.69	9.91	0.69
Draper's	Draper's_E	2917	SCS10yr	11.68	180.91	181.81	181.74	182.04	0.009193	2.17	5.84	10.01	0.81
Draper's	Draper's_E	2917	SCS25yr	14.71	180.91	181.84	181.84	182.18	0.012655	2.62	6.15	10.2	0.95
Draper's	Draper's_E	2917	SCS50yr	17.39	180.91	181.93	181.93	182.29	0.011979	2.74	7.07	10.81	0.94
Draper's	Draper's_E	2917	SCS100yr	19.72	180.91	182	182	182.38	0.011846	2.86	7.78	11.32	0.95
Draper's	Draper's_E	2917	SCS200yr	23.73	180.91	182.06	182.06	182.28	0.007497	2.38	13.46	26.54	0.76
Draper's	Draper's_E	2917	RSnow100yr	11.63	180.91	181.81	181.74	182.04	0.009126	2.17	5.84	10.01	0.8
Draper's	Draper's_E	2867	SCS2yr	7.55	180.39	181.8	181.07	181.81	0.000305	0.58	14.26	16.28	0.16
Draper's	Draper's_E	2867	SCS5yr	9.71	180.39	181.85	181.13	181.87	0.000436	0.71	15.11	17.58	0.2
Draper's	Draper's_E	2867	SCS10yr	11.68	180.39	181.89	181.18	181.91	0.00056	0.82	15.8	18.55	0.22
Draper's	Draper's_E	2867	SCS25yr	14.71	180.39	181.95	181.26	181.99	0.000743	0.97	17.02	20.68	0.26
Draper's	Draper's_E	2867	SCS50yr	17.39	180.39	181.98	181.33	182.02	0.000737	0.98	21.18	45.24	0.26
Draper's	Draper's_E	2867	SCS100yr	19.72	180.39	182.01	181.38	182.05	0.000843	1.06	22.68	49.45	0.28
Draper's	Draper's_E	2867	SCS200yr	23.73	180.39	182.07	181.46	182.11	0.000941	1.15	25.34	54.06	0.29
Draper's	Draper's_E	2867	RSnow100yr	11.63	180.39	181.89	181.18	181.91	0.000557	0.81	15.79	18.53	0.22
Draper's	Draper's_E	2850	SCS2yr	7.55	180.06	181.8	180.96	181.8	0.000117	0.39	28.61	57.34	0.1
Draper's	Draper's_E	2850	SCS5yr	9.71	180.06	181.85	181.04	181.86	0.000144	0.45	31.77	62.89	0.11
Draper's	Draper's_E	2850	SCS10yr	11.68	180.06	181.89	181.12	181.9	0.000164	0.49	34.33	64.33	0.12
Draper's	Draper's_E	2850	SCS25yr	14.71	180.06	181.96	181.26	181.97	0.000181	0.52	38.63	66.67	0.13
Draper's	Draper's_E	2850	SCS50yr	17.39	180.06	181.99	181.38	182	0.000216	0.58	40.64	68.89	0.14
Draper's	Draper's_E	2850	SCS100yr	19.72	180.06	182.02	181.45	182.04	0.000236	0.61	42.89	71.05	0.15
Draper's	Draper's_E	2850	SCS200yr	23.73	180.06	182.07	181.45	182.09	0.000268	0.66	46.67	77.1	0.16
Draper's	Draper's_E	2850	RSnow100yr	11.63	180.06	181.89	181.12	181.9	0.000164	0.48	34.28	64.3	0.12
Draper's	Draper's_E	2841		Bridge									
Draper's	Draper's_E	2833	SCS2yr	7.55	180.06	181.32	181.09	181.39	0.001915	1.13	6.57	16.75	0.37
Draper's	Draper's_E	2833	SCS5yr	9.71	180.06	181.37	181.16	181.46	0.002341	1.29	7.4	19.25	0.42
Draper's	Draper's_E	2833	SCS10yr	11.68	180.06	181.44	181.28	181.53	0.00231	1.35	9.09	31.96	0.42
Draper's	Draper's_E	2833	SCS25yr	14.71	180.06	181.52	181.37	181.6	0.001814	1.25	12.06	39.07	0.38
Draper's	Draper's_E	2833	SCS50yr	17.39	180.06	181.58	181.49	181.66	0.001642	1.23	14.35	45.02	0.36
Draper's	Draper's_E	2833	SCS100yr	19.72	180.06	181.62	181.52	181.7	0.001432	1.18	16.5	50.25	0.34
Draper's	Draper's_E	2833	SCS200yr	23.73	180.06	181.71	181.58	181.78	0.001024	1.04	21.26	57.52	0.29
Draper's	Draper's_E	2833	RSnow100yr	11.63	180.06	181.44	181.28	181.53	0.002217	1.31	8.98	31.24	0.41
Draper's	Draper's_E	2815	SCS2yr	7.55	180.15	181.34	180.91	181.35	0.000345	0.52	20.7	56.21	0.16
Draper's	Draper's_E	2815	SCS5yr	9.71	180.15	181.39	181.15	181.4	0.000359	0.55	23.85	57.67	0.17
Draper's	Draper's_E	2815	SCS10yr	11.68	180.15	181.47	181.25	181.48	0.000295	0.52	28.27	59.49	0.15
Draper's	Draper's_E	2815	SCS25yr	14.71	180.15	181.55	181.27	181.56	0.00028	0.53	32.97	60.87	0.15
Draper's	Draper's_E	2815	SCS50yr	17.39	180.15	181.6	181.27	181.61	0.000288	0.55	36.21	62.25	0.15
Draper's	Draper's_E	2815	SCS100yr	19.72	180.15	181.64	181.27	181.66	0.000295	0.57	38.88	63.92	0.16
Draper's	Draper's_E	2815	SCS200yr	23.73	180.15	181.73	181.27	181.74	0.000286	0.59	44.35	67.66	0.16
Draper's	Draper's_E	2815	RSnow100yr	11.63	180.15	181.47	181.25	181.48	0.000303	0.53	27.99	59.36	0.16
Draper's	Draper's_E	2811		Culvert									
Draper's	Draper's_E	2806	SCS2yr	7.55	180.15	181.34	181.06	181.34	0.000134	0.32	28.33	61.58	0.1
Draper's	Draper's_E	2806	SCS5yr	9.71	180.15	181.39	181.06	181.4	0.000153	0.35	31.6	62.54	0.11
Draper's	Draper's_E	2806	SCS10yr	11.68	180.15	181.45	181.06	181.46	0.000149	0.36	35.57	64.1	0.11
Draper's	Draper's_E	2806	SCS25yr	14.71	180.15	181.54	181.06	181.55	0.000144	0.38	41.31	65.77	0.11
Draper's	Draper's_E	2806	SCS50yr	17.39	180.15	181.6	181.09	181.61	0.000151	0.4	45.09	66.7	0.11
Draper's	Draper's_E	2806	SCS100yr	19.72	180.15	181.64	181.13	181.65	0.000158	0.42	48	67.67	0.12
Draper's	Draper's_E	2806	SCS200yr	23.73	180.15	181.73	181.15	181.74	0.000159	0.44	53.93	72.04	0.12
Draper's	Draper's_E	2806	RSnow100yr	11.63	180.15	181.45	181.06	181.46	0.000152	0.36	35.28	64.01	0.11
Draper's	Draper's_E	2796	SCS2yr	7.55	180.03	181.34	180.94	181.34	0.000039	0.19	37.92	64.79	0.06
Draper's	Draper's_E	2796	SCS5yr	9.71	180.03	181.39	180.89	181.39	0.00005	0.22	41.36	65.83	0.06
Draper's	Draper's_E	2796	SCS10yr	11.68	180.03	181.45	180.89	181.46	0.000053	0.24	45.54	67.36	0.07
Draper's	Draper's_E	2796	SCS25yr	14.71	180.03	181.54	180.89	181.55	0.000058	0.26	51.57	68.77	0.07
Draper's	Draper's_E	2796	SCS50yr	17.39	180.03	181.6	180.89	181.61	0.000064	0.28	55.54	70.43	0.08
Draper's	Draper's_E	2796	SCS100yr	19.72	180.03	181.64	181.01	181.65	0.00007	0.3	58.62	71.47	0.08
Draper's	Draper's_E	2796	SCS200yr	23.73	180.03	181.73	181.01	181.74	0.000075	0.32	64.77	73.29	0.08
Draper's	Draper's_E	2796	RSnow100yr	11.63	180.03	181.45	180.89	181.45	0.000054	0.24	45.23	67.02	0.07
Draper's	Draper's_E	2792		Culvert									
Draper's	Draper's_E	2787	SCS2yr	7.55	180.08	181.33	180.96	181.34	0.000088	0.27	25.42	58.97	0.08
Draper's	Draper's_E	2787	SCS5yr	9.71	180.08	181.38	180.99	181.39	0.000106	0.31	28.39	60.16	0.09
Draper's	Draper's_E	2787	SCS10yr	11.68	180.08	181.45	181.01	181.45	0.000107	0.32	32.24	62.1	0.09
Draper's	Draper's_E	2787	SCS25yr	14.71	180.08	181.53	181.04	181.54	0.000108	0.34	37.73	63.84	0.1
Draper's	Draper's_E	2787	SCS50yr	17.39	180.08	181.59	181.07	181.6	0.000115	0.36	41.53	65.25	0.1
Draper's	Draper's_E	2787	SCS100yr	19.72	180.08	181.64	181.09	181.65	0.000123	0.38	44.26	66.03	0.1
Draper's	Draper's_E	2787	SCS200yr	23.73	180.08	181.72	181.13	181.74	0.000125	0.4	50.1	67.4	0.11
Draper's	Draper's_E	2787	RSnow100yr	11.63	180.08	181.44	181.01	181.45	0.00011	0.33	31.82	61.98	0.1
Draper's	Draper's_E	2778	SCS2yr	7.55	179.99	181.32	181	181.34	0.000323	0.54	15.7	32.81	0.16
Draper's	Draper's_E	2778	SCS5yr	9.71	179.99	181.37	181.03	181.39	0.000407	0.62	17.24	35.39	0.18
Draper's	Draper's_E	2778	SCS10yr	11.68	179.99	181.43	181.06	181.45	0.000415	0.65	19.47	38.61	0.19
Draper's	Draper's_E	2778	SCS25yr	14.71	179.99	181.51	181.11	181.54	0.000423	0.69	22.95	43.32	0.19
Draper's	Draper's_E	2778	SCS50yr	17.39	179.99	181.57	181.14	181.6	0.000441	0.72	25.43	44.95	0.2
Draper's	Draper's_E	2778	SCS100yr	19.72	179.99	181.61	181.17	181.64	0.000474	0.76	27.21	47.84	0.2
Draper's	Draper's_E	2778	SCS200yr	23.73	179.99	181.7	181.23	181.73	0.000472	0.79	31.65	53.81	0.21
Draper's	Draper's_E	2778	RSnow100yr	11.63	179.99	181.42	181.06	181.44	0.000429	0.66	19.2	38.04	0.19
Draper's	Draper's_E	2774		Culvert									
Draper's	Draper's_E	2770	SCS2yr	7.55	179.99	181.31	180.98	181.33	0.000279	0.49	16.39	36.91	0.15
Draper's	Draper's_E	2770	SCS5yr	9.71	179.99	181.36	181.02	181.38	0.00034	0.56	18.33	41.77	0.16
Draper's	Draper's_E	2770	SCS10yr	11.68	179.99	181.42	181.06	181.44	0.000352	0.59	20.76	44.82	0.17
Draper's	Draper's_E	2770	SCS25yr	14.71	179.99	181.5	181.09	181.52	0.000353	0.61	24.68	50.02	0.17
Draper's	Draper's_E	2770	SCS50yr	17.39	179.99	181.55	181.13	181.58	0.00038	0.65	27.22	52.12	0.18
Draper's	Draper's_E	2770	SCS100yr	19.72	179.99	181.6	181.16	181.63	0.000385	0.67	29.75	54.02	0.18
Draper's	Draper's_E	2770	SCS200yr	23.73	179.99	181.68	181.2	181.71	0.000388	0.7	34.05	57.39	0.18
Draper's	Draper's_E	2770	RSnow100yr	11.63	179.99	181.42	181.05	181.44	0.000353	0.59	20.68	44.76	0.17
Draper's	Draper's_E	2761	SCS2yr	7.55	179.98	181.31	180.81	181.32	0.000126	0.34	21.32	45.46	0.1
Draper's	Draper's_E	2761	SCS5yr	9.71	179.98	181.36	180.9	181.37	0.000155	0.39	23.61	48.11	0.11
Draper's	Draper's_E	2761	SCS10yr	11.68	179.98	181.42	180.95	181.43	0.000164	0.41	26.36	49.87	0.12
Draper's	Draper's_E	2761	SCS25yr	14.71	179.98	181.5	180.99	181.52	0.00017	0.44	30.57	52.21	0.12
Draper's	Draper's_E	2761	SCS50yr	17.39	179.98	181.55	181.03	181.57	0.000188	0.47	33.21	53.45	0.13
Draper's	Draper's_E	2761	SCS100yr	19.72	179.98	181.6	181.06	181.62	0.000195	0.49	35.8	54.59	0.13
Draper's	Draper's_E	2761	SCS200yr	23.73	179.98	181.68	181.11	181.7	0.000205	0.52	40.18	58.69	0.14
Draper's	Draper's_E	2761	RSnow100yr	11.63	179.98	181.42	180.95	181.43	0.000164	0.41	26.27	49.81	0.12
Draper's	Draper's_E	2753		Culvert									
Draper's	Draper's_E	2749	SCS2yr	7.55	179.96	181.31	180.87	181.32	0.000135	0.35	23.63	51.43	0.11
Draper's	Draper's_E	2749	SCS5yr	9.71	179.96	181.36	180.96	181.37	0.000157	0.39	26.39	52.09	0.12
Draper's	Draper's_E	2749	SCS10yr	11.68	179.96	181.41	181	181.42	0.000172	0.42	28.82	53.03	0.12
Draper's	Draper's_E	2749	SCS25yr	14.71	179.96	181.49	181.03	181.51	0.000172	0.44	33.41	55.26	0.12
Draper's	Draper's_E	2749	SCS50yr	17.39	179.96	181.55	181.07	181.57	0.000179	0.46	36.71	56.48	0.13
Draper's	Draper's_E	2749	SCS100yr	19.72	179.96	181.6	181.09	181.62	0.000186	0.48	39.38	57.35	0.13

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	2749	SCS200yr	23.73	179.96	181.67	181.13	181.69	0.000195	0.51	43.73	58.9	0.13
Draper's	Draper's_E	2749	RSnow100yr	11.63	179.96	181.42	181	181.43	0.000161	0.41	29.35	53.42	0.12
Draper's	Draper's_E	2741	SCS2yr	7.55	179.93	181.31	180.8	181.32	0.000117	0.33	24.92	55.04	0.1
Draper's	Draper's_E	2741	SCS5yr	9.71	179.93	181.36	180.88	181.37	0.000141	0.38	27.9	58.29	0.11
Draper's	Draper's_E	2741	SCS10yr	11.68	179.93	181.41	180.94	181.42	0.000159	0.41	30.81	67.61	0.12
Draper's	Draper's_E	2741	SCS25yr	14.71	179.93	181.5	180.99	181.5	0.000139	0.4	40.99	99.89	0.11
Draper's	Draper's_E	2741	SCS50yr	17.39	179.93	181.56	181.03	181.56	0.000134	0.41	47.06	102.8	0.11
Draper's	Draper's_E	2741	SCS100yr	19.72	179.93	181.6	181.05	181.61	0.00013	0.41	51.98	104.19	0.11
Draper's	Draper's_E	2741	SCS200yr	23.73	179.93	181.68	181.1	181.69	0.000125	0.42	60.03	108.12	0.11
Draper's	Draper's_E	2741	RSnow100yr	11.63	179.93	181.42	180.93	181.43	0.000149	0.4	31.49	68.53	0.11
Draper's	Draper's_E	2735		Culvert									
Draper's	Draper's_E	2730	SCS2yr	7.55	179.86	181.3	180.81	181.31	0.000133	0.38	21.47	48.82	0.11
Draper's	Draper's_E	2730	SCS5yr	9.71	179.86	181.36	180.91	181.37	0.000158	0.42	24.78	60.83	0.12
Draper's	Draper's_E	2730	SCS10yr	11.68	179.86	181.4	180.96	181.42	0.000181	0.46	27.59	68.52	0.13
Draper's	Draper's_E	2730	SCS25yr	14.71	179.86	181.48	181	181.49	0.000195	0.5	32.71	73	0.13
Draper's	Draper's_E	2730	SCS50yr	17.39	179.86	181.54	181.04	181.55	0.0002	0.52	37.33	77.16	0.13
Draper's	Draper's_E	2730	SCS100yr	19.72	179.86	181.58	181.07	181.59	0.00021	0.54	40.46	78.95	0.14
Draper's	Draper's_E	2730	SCS200yr	23.73	179.86	181.65	181.11	181.67	0.000213	0.56	46.55	81.53	0.14
Draper's	Draper's_E	2730	RSnow100yr	11.63	179.86	181.41	180.96	181.42	0.00017	0.45	28.28	69.33	0.12
Draper's	Draper's_E	2725	SCS2yr	7.55	179.82	181.3	180.86	181.31	0.000149	0.39	20.78	48.45	0.11
Draper's	Draper's_E	2725	SCS5yr	9.71	179.82	181.36	180.92	181.37	0.000177	0.44	23.86	58.85	0.12
Draper's	Draper's_E	2725	SCS10yr	11.68	179.82	181.4	180.96	181.41	0.000203	0.48	26.49	63.19	0.13
Draper's	Draper's_E	2725	SCS25yr	14.71	179.82	181.47	181	181.49	0.000222	0.52	31.21	68.62	0.14
Draper's	Draper's_E	2725	SCS50yr	17.39	179.82	181.54	181.05	181.55	0.000231	0.55	35.72	74.75	0.14
Draper's	Draper's_E	2725	SCS100yr	19.72	179.82	181.58	181.07	181.59	0.000247	0.58	38.75	77.62	0.15
Draper's	Draper's_E	2725	SCS200yr	23.73	179.82	181.65	181.11	181.67	0.000257	0.61	44.73	79.47	0.15
Draper's	Draper's_E	2725	RSnow100yr	11.63	179.82	181.41	180.96	181.42	0.00019	0.47	27.13	63.59	0.13
Draper's	Draper's_E	2720		Culvert									
Draper's	Draper's_E	2716	SCS2yr	7.55	179.9	181.29	180.98	181.3	0.000392	0.61	15.81	40.39	0.18
Draper's	Draper's_E	2716	SCS5yr	9.71	179.9	181.35	181.05	181.36	0.000435	0.66	18.17	42.14	0.19
Draper's	Draper's_E	2716	SCS10yr	11.68	179.9	181.39	181.08	181.41	0.000479	0.71	19.99	43.9	0.2
Draper's	Draper's_E	2716	SCS25yr	14.71	179.9	181.46	181.14	181.48	0.000513	0.76	23.07	47.57	0.21
Draper's	Draper's_E	2716	SCS50yr	17.39	179.9	181.51	181.19	181.54	0.000526	0.79	25.78	49.01	0.21
Draper's	Draper's_E	2716	SCS100yr	19.72	179.9	181.55	181.22	181.58	0.000551	0.82	27.79	51.94	0.22
Draper's	Draper's_E	2716	SCS200yr	23.73	179.9	181.63	181.26	181.66	0.000555	0.85	31.74	54.75	0.22
Draper's	Draper's_E	2716	RSnow100yr	11.63	179.9	181.4	181.08	181.42	0.000454	0.69	20.3	44.13	0.19
Draper's	Draper's_E	2708	SCS2yr	7.55	179.84	181.28	180.8	181.3	0.000639	0.79	13.56	37.2	0.23
Draper's	Draper's_E	2708	SCS5yr	9.71	179.84	181.33	181.08	181.36	0.000699	0.85	15.75	40.27	0.24
Draper's	Draper's_E	2708	SCS10yr	11.68	179.84	181.37	181.12	181.4	0.000763	0.91	17.44	42.7	0.25
Draper's	Draper's_E	2708	SCS25yr	14.71	179.84	181.44	181.18	181.47	0.000782	0.95	20.42	45.36	0.25
Draper's	Draper's_E	2708	SCS50yr	17.39	179.84	181.5	181.21	181.53	0.000783	0.97	23.05	48.42	0.26
Draper's	Draper's_E	2708	SCS100yr	19.72	179.84	181.54	181.27	181.58	0.000808	1.01	25.02	51.12	0.26
Draper's	Draper's_E	2708	SCS200yr	23.73	179.84	181.61	181.32	181.65	0.000792	1.03	29.01	55.34	0.26
Draper's	Draper's_E	2708	RSnow100yr	11.63	179.84	181.38	181.12	181.41	0.000716	0.88	17.8	43.16	0.24
Draper's	Draper's_E	2704		Culvert									
Draper's	Draper's_E	2699	SCS2yr	7.55	179.82	181.25	180.78	181.29	0.000846	0.93	11.5	28.16	0.27
Draper's	Draper's_E	2699	SCS5yr	9.71	179.82	181.31	181.09	181.35	0.001015	1.04	13.04	30.52	0.29
Draper's	Draper's_E	2699	SCS10yr	11.68	179.82	181.35	181.14	181.39	0.001171	1.14	14.31	33.24	0.32
Draper's	Draper's_E	2699	SCS25yr	14.71	179.82	181.41	181.2	181.46	0.001343	1.26	16.39	37.55	0.34
Draper's	Draper's_E	2699	SCS50yr	17.39	179.82	181.45	181.24	181.52	0.001442	1.34	18.19	39.27	0.36
Draper's	Draper's_E	2699	SCS100yr	19.72	179.82	181.5	181.27	181.57	0.001436	1.36	20.03	40.76	0.36
Draper's	Draper's_E	2699	SCS200yr	23.73	179.82	181.58	181.33	181.65	0.001391	1.39	23.28	42.87	0.35
Draper's	Draper's_E	2699	RSnow100yr	11.63	179.82	181.35	181.14	181.39	0.00117	1.14	14.26	33.06	0.32
Draper's	Draper's_E	2693	SCS2yr	7.55	179.85	181.25	180.78	181.28	0.000788	0.89	12.58	31.31	0.26
Draper's	Draper's_E	2693	SCS5yr	9.71	179.85	181.3	180.87	181.34	0.000976	1.01	14.29	34.46	0.29
Draper's	Draper's_E	2693	SCS10yr	11.68	179.85	181.34	180.9	181.39	0.001102	1.1	15.69	35.33	0.31
Draper's	Draper's_E	2693	SCS25yr	14.71	179.85	181.4	181.19	181.45	0.001242	1.2	17.81	36.45	0.33
Draper's	Draper's_E	2693	SCS50yr	17.39	179.85	181.45	181.23	181.51	0.00135	1.28	19.52	37.19	0.35
Draper's	Draper's_E	2693	SCS100yr	19.72	179.85	181.49	181.32	181.56	0.001386	1.33	21.23	38.23	0.35
Draper's	Draper's_E	2693	SCS200yr	23.73	179.85	181.57	181.33	181.64	0.001388	1.38	24.28	40.05	0.36
Draper's	Draper's_E	2693	RSnow100yr	11.63	179.85	181.34	180.9	181.38	0.001102	1.1	15.64	35.3	0.31
Draper's	Draper's_E	2686		Culvert									
Draper's	Draper's_E	2680	SCS2yr	7.55	179.81	181.21	180.75	181.26	0.001508	1.18	9.85	28.81	0.35
Draper's	Draper's_E	2680	SCS5yr	9.71	179.81	181.25	180.89	181.32	0.001876	1.35	11.33	32.19	0.39
Draper's	Draper's_E	2680	SCS10yr	11.68	179.81	181.29	181.15	181.37	0.002067	1.45	12.66	32.45	0.42
Draper's	Draper's_E	2680	SCS25yr	14.71	179.81	181.35	181.26	181.43	0.002318	1.58	14.45	32.84	0.44
Draper's	Draper's_E	2680	SCS50yr	17.39	179.81	181.39	181.3	181.49	0.002504	1.68	15.86	33.21	0.46
Draper's	Draper's_E	2680	SCS100yr	19.72	179.81	181.43	181.33	181.53	0.002704	1.78	17.03	34.85	0.48
Draper's	Draper's_E	2680	SCS200yr	23.73	179.81	181.5	181.38	181.61	0.00259	1.8	19.79	36.6	0.48
Draper's	Draper's_E	2680	RSnow100yr	11.63	179.81	181.29	181.05	181.37	0.00207	1.45	12.62	32.45	0.42
Draper's	Draper's_E	2643	SCS2yr	7.55	179.78	181.21	180.72	181.22	0.000254	0.5	27.08	53.78	0.14
Draper's	Draper's_E	2643	SCS5yr	9.71	179.78	181.26	180.75	181.27	0.000332	0.58	29.76	57.02	0.17
Draper's	Draper's_E	2643	SCS10yr	11.68	179.78	181.3	180.78	181.31	0.000399	0.65	32.04	58.41	0.18
Draper's	Draper's_E	2643	SCS25yr	14.71	179.78	181.35	180.83	181.36	0.000501	0.75	35.17	61.67	0.21
Draper's	Draper's_E	2643	SCS50yr	17.39	179.78	181.39	180.87	181.41	0.000586	0.83	37.84	67.97	0.22
Draper's	Draper's_E	2643	SCS100yr	19.72	179.78	181.43	180.89	181.44	0.000645	0.88	40.3	71.46	0.24
Draper's	Draper's_E	2643	SCS200yr	23.73	179.78	181.51	180.94	181.52	0.000665	0.93	45.94	73.49	0.24
Draper's	Draper's_E	2643	RSnow100yr	11.63	179.78	181.3	180.78	181.31	0.000398	0.65	31.97	58.35	0.18
Draper's	Draper's_E	2637		Bridge									
Draper's	Draper's_E	2629	SCS2yr	7.55	179.73	181.17	180.64	181.19	0.000658	0.83	20.64	48.97	0.23
Draper's	Draper's_E	2629	SCS5yr	9.71	179.73	181.21	180.94	181.24	0.000885	0.98	22.62	54.15	0.27
Draper's	Draper's_E	2629	SCS10yr	11.68	179.73	181.25	180.99	181.28	0.001067	1.1	24.38	54.81	0.3
Draper's	Draper's_E	2629	SCS25yr	14.71	179.73	181.29	181.05	181.33	0.00134	1.25	26.69	55.66	0.34
Draper's	Draper's_E	2629	SCS50yr	17.39	179.73	181.32	181.07	181.37	0.001563	1.38	28.53	56.3	0.37
Draper's	Draper's_E	2629	SCS100yr	19.72	179.73	181.35	181.12	181.4	0.001703	1.46	30.27	56.84	0.38
Draper's	Draper's_E	2629	SCS200yr	23.73	179.73	181.44	181.19	181.49	0.001581	1.46	35.23	58.3	0.37
Draper's	Draper's_E	2629	RSnow100yr	11.63	179.73	181.24	180.98	181.28	0.001066	1.1	24.31	54.79	0.3
Draper's	Draper's_E	2601	SCS2yr	7.55	179.63	181.18		181.18	0.00007	0.29	27.94	48.79	0.08
Draper's	Draper's_E	2601	SCS5yr	9.71	179.63	181.22		181.22	0.000095	0.34	29.87	49.91	0.09
Draper's	Draper's_E	2601	SCS10yr	11.68	179.63	181.25		181.26	0.000117	0.39	31.52	50.92	0.1
Draper's	Draper's_E	2601	SCS25yr	14.71	179.63	181.29		181.3	0.000151	0.45	33.68	51.88	0.12
Draper's	Draper's_E	2601	SCS50yr	17.39	179.63	181.32		181.34	0.000181	0.5	35.39	52.57	0.13
Draper's	Draper's_E	2601	SCS100yr	19.72	179.63	181.35		181.37	0.000203	0.53	36.98	53.62	0.14
Draper's	Draper's_E	2601	SCS200yr	23.73	179.63	181.44		181.46	0.000206	0.56	41.59	56.65	0.14
Draper's	Draper's_E	2601	RSnow100yr	11.63	179.63	181.25		181.26	0.000117	0.39	31.46	50.88	0.1
Draper's	Draper's_E	2557	SCS2yr	7.55	179.69	181.18	180.48	181.18	0.000069	0.28	40.06	84.15	0.08
Draper's	Draper's_E	2557	SCS5yr	9.71	179.69	181.21	180.59	181.22	0.000092	0.33	43.35	85.8	0.09
Draper's	Draper's_E	2557	SCS10yr	11.68	179.69	181.25	180.67	181.25	0.000112	0.37	46.15	87.45	0.1
Draper's	Draper's_E	2557	SCS25yr	14.71	179.69	181.29	180.75	181.29	0.000143	0.43	49.81	89.54	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	2557	SCS50yr	17.39	179.69	181.32	180.77	181.33	0.000171	0.47	52.77	91.95	0.12
Draper's	Draper's_E	2557	SCS100yr	19.72	179.69	181.35	180.81	181.36	0.000191	0.51	55.54	93.07	0.13
Draper's	Draper's_E	2557	SCS200yr	23.73	179.69	181.44	180.85	181.45	0.000188	0.52	63.59	96.73	0.13
Draper's	Draper's_E	2557	RSnow100yr	11.63	179.69	181.25	180.67	181.25	0.000112	0.37	46.03	87.37	0.1
Draper's	Draper's_E	2548		Bridge									
Draper's	Draper's_E	2538	SCS2yr	7.55	179.5	181.17	180.37	181.17	0.000032	0.2	38.96	89.82	0.05
Draper's	Draper's_E	2538	SCS5yr	9.71	179.5	181.21	180.57	181.21	0.000042	0.23	42.34	91.27	0.06
Draper's	Draper's_E	2538	SCS10yr	11.68	179.5	181.24	180.7	181.24	0.00005	0.26	45.24	93.09	0.07
Draper's	Draper's_E	2538	SCS25yr	14.71	179.5	181.28	180.75	181.28	0.000063	0.3	49.01	95.55	0.08
Draper's	Draper's_E	2538	SCS50yr	17.39	179.5	181.31	180.79	181.31	0.000074	0.33	52	96.34	0.08
Draper's	Draper's_E	2538	SCS100yr	19.72	179.5	181.34	180.81	181.35	0.000081	0.35	54.87	97.33	0.09
Draper's	Draper's_E	2538	SCS200yr	23.73	179.5	181.43	180.85	181.43	0.000076	0.35	63.54	100.13	0.08
Draper's	Draper's_E	2538	RSnow100yr	11.63	179.5	181.24	180.68	181.24	0.00005	0.26	45.11	93.01	0.07
Draper's	Draper's_E	2499	SCS2yr	7.55	179.48	181.16	180.29	181.17	0.000179	0.49	27.74	43.06	0.13
Draper's	Draper's_E	2499	SCS5yr	9.71	179.48	181.19	180.41	181.2	0.00026	0.6	29.19	43.36	0.16
Draper's	Draper's_E	2499	SCS10yr	11.68	179.48	181.22	180.54	181.23	0.000338	0.7	30.4	43.62	0.18
Draper's	Draper's_E	2499	SCS25yr	14.71	179.48	181.25	180.74	181.27	0.000474	0.84	31.85	43.93	0.21
Draper's	Draper's_E	2499	SCS50yr	17.39	179.48	181.28	180.82	181.3	0.000609	0.96	32.93	44.4	0.24
Draper's	Draper's_E	2499	SCS100yr	19.72	179.48	181.3	180.87	181.33	0.000726	1.05	33.99	45.25	0.26
Draper's	Draper's_E	2499	SCS200yr	23.73	179.48	181.41	180.93	181.43	0.000394	0.81	63.79	102.84	0.19
Draper's	Draper's_E	2499	RSnow100yr	11.63	179.48	181.22	180.53	181.23	0.000337	0.69	30.34	43.61	0.18
Draper's	Draper's_E	2472	SCS2yr	7.55	179.23	181.16	180.16	181.16	0.000063	0.31	57.03	146.65	0.08
Draper's	Draper's_E	2472	SCS5yr	9.71	179.23	181.19	180.29	181.2	0.000084	0.36	62.31	163.34	0.09
Draper's	Draper's_E	2472	SCS10yr	11.68	179.23	181.22	180.38	181.22	0.0001	0.4	67.01	167.83	0.1
Draper's	Draper's_E	2472	SCS25yr	14.71	179.23	181.26	180.55	181.26	0.000122	0.45	72.83	170.28	0.11
Draper's	Draper's_E	2472	SCS50yr	17.39	179.23	181.28	180.74	181.29	0.000142	0.49	77.25	172.53	0.12
Draper's	Draper's_E	2472	SCS100yr	19.72	179.23	181.31	180.8	181.31	0.000154	0.52	81.61	174.32	0.12
Draper's	Draper's_E	2472	SCS200yr	23.73	179.23	181.41	180.85	181.42	0.000109	0.45	104.08	219.41	0.1
Draper's	Draper's_E	2472	RSnow100yr	11.63	179.23	181.22	180.38	181.22	0.0001	0.4	66.78	167.79	0.1
Draper's	Draper's_E	2459		Bridge									
Draper's	Draper's_E	2447	SCS2yr	8.82	179.34	180.52	180.52	180.84	0.010307	2.62	3.88	8.3	0.86
Draper's	Draper's_E	2447	SCS5yr	11.38	179.34	180.72	180.72	180.99	0.007276	2.5	6.04	11.45	0.74
Draper's	Draper's_E	2447	SCS10yr	13.7	179.34	180.92	180.92	181.06	0.003649	1.97	10.59	35.53	0.54
Draper's	Draper's_E	2447	SCS25yr	17.29	179.34	181	181	181.12	0.003056	1.88	14.57	55.85	0.5
Draper's	Draper's_E	2447	SCS50yr	20.46	179.34	181.11	181.06	181.17	0.001618	1.43	23.02	100.72	0.37
Draper's	Draper's_E	2447	SCS100yr	23.2	179.34	181.27	181.08	181.28	0.00049	0.84	47.18	191.43	0.21
Draper's	Draper's_E	2447	SCS200yr	28.09	179.34	181.4	181.12	181.41	0.000169	0.52	72.89	195.47	0.12
Draper's	Draper's_E	2447	RSnow100yr	13.47	179.34	180.91	180.91	181.05	0.003643	1.96	10.42	35.06	0.54
Draper's	Draper's_E	2425	SCS2yr	8.82	178.91	180.04	180.04	180.34	0.010855	2.63	4.12	7.09	0.9
Draper's	Draper's_E	2425	SCS5yr	11.38	178.91	180.16	180.16	180.51	0.010634	2.84	5.03	7.62	0.91
Draper's	Draper's_E	2425	SCS10yr	13.7	178.91	180.27	180.27	180.64	0.01034	3	5.86	8.06	0.91
Draper's	Draper's_E	2425	SCS25yr	17.29	178.91	180.4	180.4	180.83	0.010268	3.23	7.01	8.68	0.93
Draper's	Draper's_E	2425	SCS50yr	20.46	178.91	180.51	180.51	180.98	0.010521	3.45	7.93	9.76	0.95
Draper's	Draper's_E	2425	SCS100yr	23.2	178.91	180.68	180.68	181.13	0.008604	3.39	10.03	15.59	0.88
Draper's	Draper's_E	2425	SCS200yr	28.09	178.91	180.88	180.88	181.28	0.007162	3.35	13.51	48.81	0.82
Draper's	Draper's_E	2425	RSnow100yr	13.47	178.91	180.25	180.25	180.63	0.010465	2.99	5.75	8	0.92
Draper's	Draper's_E	2342	SCS2yr	8.82	178.72	179.91	179.53	179.94	0.001096	0.92	14.52	25.97	0.3
Draper's	Draper's_E	2342	SCS5yr	11.38	178.72	180	179.6	180.04	0.001246	1.04	16.95	28.41	0.32
Draper's	Draper's_E	2342	SCS10yr	13.7	178.72	180.07	179.66	180.11	0.001333	1.12	19.1	30.09	0.34
Draper's	Draper's_E	2342	SCS25yr	17.29	178.72	180.17	179.73	180.22	0.001439	1.23	22.14	31.83	0.35
Draper's	Draper's_E	2342	SCS50yr	20.46	178.72	180.24	179.78	180.3	0.001561	1.33	24.45	33.46	0.37
Draper's	Draper's_E	2342	SCS100yr	23.2	178.72	180.3	179.82	180.36	0.00164	1.4	26.35	34.17	0.38
Draper's	Draper's_E	2342	SCS200yr	28.09	178.72	180.39	179.9	180.43	0.0012	1.25	48.58	109.39	0.33
Draper's	Draper's_E	2342	RSnow100yr	13.47	178.72	180.06	179.64	180.1	0.001333	1.12	18.83	29.83	0.34
Draper's	Draper's_E	2246	SCS2yr	8.82	178.24	179.8	179.28	179.84	0.000991	1.06	16.64	38.51	0.29
Draper's	Draper's_E	2246	SCS5yr	11.38	178.24	179.87	179.39	179.92	0.001203	1.2	19.46	42.44	0.32
Draper's	Draper's_E	2246	SCS10yr	13.7	178.24	179.94	179.6	179.98	0.001341	1.31	22.23	46.75	0.34
Draper's	Draper's_E	2246	SCS25yr	17.29	178.24	180.02	179.72	180.07	0.001571	1.47	26.3	55.42	0.37
Draper's	Draper's_E	2246	SCS50yr	20.46	178.24	180.08	179.78	180.14	0.001627	1.53	30.15	58.24	0.38
Draper's	Draper's_E	2246	SCS100yr	23.2	178.24	180.14	179.83	180.2	0.001663	1.59	33.4	60.89	0.39
Draper's	Draper's_E	2246	SCS200yr	28.09	178.24	180.22	179.9	180.29	0.001803	1.7	38.65	68.44	0.41
Draper's	Draper's_E	2246	RSnow100yr	13.47	178.24	179.93	179.6	179.98	0.001343	1.3	21.8	45.85	0.34
Draper's	Draper's_E	2182	SCS2yr	8.82	178.19	179.75	179.16	179.78	0.000747	0.93	17.65	40.9	0.26
Draper's	Draper's_E	2182	SCS5yr	11.38	178.19	179.81	179.27	179.85	0.00094	1.08	20.07	43.05	0.29
Draper's	Draper's_E	2182	SCS10yr	13.7	178.19	179.86	179.36	179.91	0.001082	1.18	22.43	46.15	0.31
Draper's	Draper's_E	2182	SCS25yr	17.29	178.19	179.93	179.62	179.98	0.001313	1.34	25.55	50.41	0.35
Draper's	Draper's_E	2182	SCS50yr	20.46	178.19	179.98	179.64	180.04	0.001508	1.47	28.51	58.86	0.37
Draper's	Draper's_E	2182	SCS100yr	23.2	178.19	180.03	179.71	180.1	0.001619	1.55	31.35	64.61	0.39
Draper's	Draper's_E	2182	SCS200yr	28.09	178.19	180.11	179.82	180.18	0.001616	1.6	36.66	84.62	0.39
Draper's	Draper's_E	2182	RSnow100yr	13.47	178.19	179.85	179.34	179.9	0.001093	1.18	21.97	45.65	0.31
Draper's	Draper's_E	2165	SCS2yr	8.82	178.28	179.72	179.22	179.76	0.001207	1.13	14.97	46.28	0.32
Draper's	Draper's_E	2165	SCS5yr	11.38	178.28	179.77	179.51	179.82	0.001505	1.3	17.35	49.41	0.36
Draper's	Draper's_E	2165	SCS10yr	13.7	178.28	179.82	179.51	179.88	0.001592	1.37	20.16	52.13	0.37
Draper's	Draper's_E	2165	SCS25yr	17.29	178.28	179.89	179.73	179.95	0.001751	1.48	23.74	54.21	0.4
Draper's	Draper's_E	2165	SCS50yr	20.46	178.28	179.95	179.78	180.01	0.001804	1.55	27.08	56.23	0.4
Draper's	Draper's_E	2165	SCS100yr	23.2	178.28	180	179.82	180.07	0.001768	1.57	30.17	68.57	0.4
Draper's	Draper's_E	2165	SCS200yr	28.09	178.28	180.09	179.87	180.15	0.001681	1.58	35.71	79.23	0.4
Draper's	Draper's_E	2165	RSnow100yr	13.47	178.28	179.81	179.51	179.87	0.001664	1.39	19.44	51.63	0.38
Draper's	Draper's_E	2160		Culvert									
Draper's	Draper's_E	2155	SCS2yr	8.82	178.01	179.65	179.28	179.73	0.002526	1.56	10.09	31.39	0.43
Draper's	Draper's_E	2155	SCS5yr	11.38	178.01	179.7	179.4	179.81	0.003128	1.78	11.9	32.91	0.48
Draper's	Draper's_E	2155	SCS10yr	13.7	178.01	179.75	179.67	179.87	0.003668	1.97	13.26	33.81	0.52
Draper's	Draper's_E	2155	SCS25yr	17.29	178.01	179.79	179.76	179.95	0.004725	2.28	14.74	35.16	0.6
Draper's	Draper's_E	2155	SCS50yr	20.46	178.01	179.84	179.81	180.01	0.00514	2.43	16.56	36.3	0.63
Draper's	Draper's_E	2155	SCS100yr	23.2	178.01	179.86	179.86	180.06	0.005948	2.64	17.34	36.65	0.68
Draper's	Draper's_E	2155	SCS200yr	28.09	178.01	179.92	179.92	180.14	0.006644	2.86	19.49	43.25	0.72
Draper's	Draper's_E	2155	RSnow100yr	13.47	178.01	179.73	179.67	179.86	0.003793	1.99	12.83	33.55	0.53
Draper's	Draper's_E	2096	SCS2yr	8.82	177.67	179.67	178.63	179.68	0.000111	0.43	45.19	73.4	0.1
Draper's	Draper's_E	2096	SCS5yr	11.38	177.67	179.73	178.78	179.74	0.000149	0.51	49.68	77.26	0.12
Draper's	Draper's_E	2096	SCS10yr	13.7	177.67	179.77	178.85	179.78	0.000191	0.59	53.05	82.24	0.14
Draper's	Draper's_E	2096	SCS25yr	17.29	177.67	179.82	178.95	179.83	0.000258	0.7	57.1	85.77	0.16
Draper's	Draper's_E	2096	SCS50yr	20.46	177.67	179.87	179.01	179.88	0.000305	0.77	61.47	91.93	0.17
Draper's	Draper's_E	2096	SCS100yr	23.2	177.67	179.9	179.1	179.91	0.00036	0.84	63.97	96.94	0.19
Draper's	Draper's_E	2096	SCS200yr	28.09	177.67	179.95	179.21	179.97	0.000459	0.97	69.35	111.18	0.22
Draper's	Draper's_E	2096	RSnow100yr	13.47	177.67	179.76	178.85	179.77	0.000189	0.58	52.17	81.23	0.14
Draper's	Draper's_E	2035	SCS2yr	8.82	177.61	179.67	178.41	179.67	0.000053	0.31	54.66	62.28	0.07
Draper's	Draper's_E	2035	SCS5yr	11.38	177.61	179.73	178.51	179.73	0.000077	0.37	58.39	65.83	0.09
Draper's	Draper's_E	2035	SCS10yr	13.7	177.61	179.77	178.59	179.77	0.0001	0.43	61.12	68.08	0.1
Draper's	Draper's_E	2035	SCS25yr	17.29	177.61	179.81	178.75	179.82	0.000141	0.52	64.25	69.99	0.12
Draper's	Draper's_E	2035	SCS50yr	20.46	177.61	179.86	178.8	179.87	0.000181	0.6	67.65	75.32	0.14
Draper's	Draper's_E	2035	SCS100yr	23.2	177.61	179.88	178.86	179.89	0.000223	0.67	69.45	78.14	0.15

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	2035	SCS200yr	28.09	177.61	179.93	178.96	179.94	0.000295	0.79	73.29	87.06	0.17
Draper's	Draper's_E	2035	RSnow100yr	13.47	177.61	179.76	178.51	179.76	0.0001	0.43	60.39	67.8	0.1
Draper's	Draper's_E	2008	SCS2yr	8.82	177.33	179.67	178.29	179.67	0.000059	0.32	58.2	90.16	0.07
Draper's	Draper's_E	2008	SCS5yr	11.38	177.33	179.72	178.4	179.73	0.000082	0.39	63.67	98.48	0.09
Draper's	Draper's_E	2008	SCS10yr	13.7	177.33	179.76	178.5	179.77	0.000108	0.45	67.85	110.79	0.1
Draper's	Draper's_E	2008	SCS25yr	17.29	177.33	179.81	178.63	179.82	0.000154	0.55	73.06	120.8	0.12
Draper's	Draper's_E	2008	SCS50yr	20.46	177.33	179.85	178.86	179.86	0.000192	0.62	78.88	133.66	0.14
Draper's	Draper's_E	2008	SCS100yr	23.2	177.33	179.88	178.91	179.89	0.000227	0.68	81.98	136.71	0.15
Draper's	Draper's_E	2008	SCS200yr	28.09	177.33	179.92	179.01	179.94	0.000282	0.77	88.38	141.03	0.16
Draper's	Draper's_E	2008	RSnow100yr	13.47	177.33	179.75	178.49	179.76	0.000107	0.45	66.67	107.76	0.1
Draper's	Draper's_E	2001		Culvert									
Draper's	Draper's_E	1995	SCS2yr	8.82	177.41	179.67	178.43	179.67	0.000072	0.37	55.93	80.77	0.08
Draper's	Draper's_E	1995	SCS5yr	11.38	177.41	179.72	178.56	179.73	0.000103	0.45	60.72	92.57	0.1
Draper's	Draper's_E	1995	SCS10yr	13.7	177.41	179.76	178.65	179.77	0.000135	0.52	64.81	119.96	0.11
Draper's	Draper's_E	1995	SCS25yr	17.29	177.41	179.8	178.88	179.81	0.000192	0.63	70.3	129.05	0.13
Draper's	Draper's_E	1995	SCS50yr	20.46	177.41	179.85	178.94	179.86	0.000226	0.69	76.57	136.03	0.15
Draper's	Draper's_E	1995	SCS100yr	23.2	177.41	179.87	179.03	179.88	0.000268	0.76	79.66	140.14	0.16
Draper's	Draper's_E	1995	SCS200yr	28.09	177.41	179.92	179.11	179.94	0.000328	0.85	86.75	145.73	0.18
Draper's	Draper's_E	1995	RSnow100yr	13.47	177.41	179.75	178.65	179.76	0.000135	0.52	63.65	114.65	0.11
Draper's	Draper's_E	1978	SCS2yr	8.82	177.38	179.67	178.36	179.67	0.000036	0.25	74.7	86.41	0.06
Draper's	Draper's_E	1978	SCS5yr	11.38	177.38	179.72	178.36	179.72	0.000059	0.33	79.69	89.77	0.07
Draper's	Draper's_E	1978	SCS10yr	13.7	177.38	179.76	178.58	179.76	0.000075	0.37	83.18	89.9	0.08
Draper's	Draper's_E	1978	SCS25yr	17.29	177.38	179.8	178.58	179.81	0.000104	0.45	87.1	90.04	0.1
Draper's	Draper's_E	1978	SCS50yr	20.46	177.38	179.85	178.58	179.85	0.000126	0.5	91.34	90.2	0.11
Draper's	Draper's_E	1978	SCS100yr	23.2	177.38	179.87	178.82	179.88	0.000152	0.55	93.35	90.35	0.12
Draper's	Draper's_E	1978	SCS200yr	28.09	177.38	179.92	178.87	179.93	0.000194	0.63	97.78	90.68	0.13
Draper's	Draper's_E	1978	RSnow100yr	13.47	177.38	179.75	178.58	179.75	0.000075	0.37	82.29	89.87	0.08
Draper's	Draper's_E	1918	SCS2yr	8.82	177.38	179.66		179.66	0.000026	0.23	83.29	88.6	0.05
Draper's	Draper's_E	1918	SCS5yr	11.38	177.38	179.72		179.72	0.000037	0.28	88.21	89.35	0.06
Draper's	Draper's_E	1918	SCS10yr	13.7	177.38	179.76		179.76	0.000049	0.32	91.62	89.87	0.07
Draper's	Draper's_E	1918	SCS25yr	17.29	177.38	179.8		179.8	0.000069	0.39	95.42	90.47	0.08
Draper's	Draper's_E	1918	SCS50yr	20.46	177.38	179.84		179.85	0.000086	0.44	99.6	91.3	0.09
Draper's	Draper's_E	1918	SCS100yr	23.2	177.38	179.87		179.87	0.000105	0.49	101.51	91.57	0.1
Draper's	Draper's_E	1918	SCS200yr	28.09	177.38	179.91		179.92	0.000136	0.57	105.82	92.3	0.12
Draper's	Draper's_E	1918	RSnow100yr	13.47	177.38	179.75		179.75	0.000048	0.32	90.73	89.74	0.07
Draper's	Draper's_E	1872	SCS2yr	8.82	177.4	179.66		179.66	0.000016	0.18	99.37	107.99	0.04
Draper's	Draper's_E	1872	SCS5yr	11.38	177.4	179.72		179.72	0.000024	0.22	105.39	111.46	0.05
Draper's	Draper's_E	1872	SCS10yr	13.7	177.4	179.76		179.76	0.000031	0.26	109.65	113.74	0.06
Draper's	Draper's_E	1872	SCS25yr	17.29	177.4	179.8		179.8	0.000044	0.31	114.39	113.74	0.07
Draper's	Draper's_E	1872	SCS50yr	20.46	177.4	179.84		179.85	0.000054	0.35	119.57	113.74	0.08
Draper's	Draper's_E	1872	SCS100yr	23.2	177.4	179.86		179.87	0.000066	0.39	121.9	113.91	0.08
Draper's	Draper's_E	1872	SCS200yr	28.09	177.4	179.91		179.91	0.000086	0.45	127.19	115.94	0.1
Draper's	Draper's_E	1872	RSnow100yr	13.47	177.4	179.75		179.75	0.000031	0.26	108.53	113.74	0.06
Draper's	Draper's_E	1853	SCS2yr	8.82	177.08	179.66	178.07	179.66	0.000003	0.08	85.55	101.38	0.02
Draper's	Draper's_E	1853	SCS5yr	11.38	177.08	179.72	178.16	179.72	0.000004	0.09	91.4	112.78	0.02
Draper's	Draper's_E	1853	SCS10yr	13.7	177.08	179.76	178.23	179.76	0.000006	0.11	95.8	120.07	0.02
Draper's	Draper's_E	1853	SCS25yr	17.29	177.08	179.8	178.32	179.8	0.000008	0.13	100.85	122.65	0.03
Draper's	Draper's_E	1853	SCS50yr	20.46	177.08	179.84	178.41	179.84	0.00001	0.15	106.54	126.36	0.03
Draper's	Draper's_E	1853	SCS100yr	23.2	177.08	179.86	178.49	179.87	0.000012	0.16	109.14	127.73	0.03
Draper's	Draper's_E	1853	SCS200yr	28.09	177.08	179.91	178.62	179.91	0.000015	0.19	115.07	129.41	0.04
Draper's	Draper's_E	1853	RSnow100yr	13.47	177.08	179.75	178.22	179.75	0.000006	0.11	94.62	118.73	0.02
Draper's	Draper's_E	1843		Culvert									
Draper's	Draper's_E	1831	SCS2yr	8.82	176.95	179.23	177.99	179.23	0.000034	0.26	29.87	45.32	0.06
Draper's	Draper's_E	1831	SCS5yr	11.38	176.95	179.32	178.09	179.32	0.000039	0.29	34.21	47.54	0.06
Draper's	Draper's_E	1831	SCS10yr	13.7	176.95	179.39	178.19	179.4	0.000044	0.31	37.6	49.15	0.07
Draper's	Draper's_E	1831	SCS25yr	17.29	176.95	179.48	178.33	179.49	0.00005	0.34	42.37	51.26	0.07
Draper's	Draper's_E	1831	SCS50yr	20.46	176.95	179.56	178.47	179.57	0.000055	0.36	46.42	53.13	0.07
Draper's	Draper's_E	1831	SCS100yr	23.2	176.95	179.63	178.58	179.64	0.000065	0.4	50.08	58.59	0.08
Draper's	Draper's_E	1831	SCS200yr	28.09	176.95	179.71	178.76	179.72	0.000075	0.44	54.88	62.26	0.09
Draper's	Draper's_E	1831	RSnow100yr	13.47	176.95	179.38	178.18	179.39	0.000044	0.31	37.07	48.95	0.07
Draper's	Draper's_E	1807	SCS2yr	8.82	177.24	179.23	178.16	179.23	0.000073	0.35	71.72	97.96	0.08
Draper's	Draper's_E	1807	SCS5yr	11.38	177.24	179.32	178.25	179.32	0.000088	0.4	80.93	99.26	0.09
Draper's	Draper's_E	1807	SCS10yr	13.7	177.24	179.39	178.3	179.39	0.000102	0.44	87.99	100.93	0.1
Draper's	Draper's_E	1807	SCS25yr	17.29	177.24	179.48	178.41	179.49	0.000123	0.5	97.8	104.83	0.11
Draper's	Draper's_E	1807	SCS50yr	20.46	177.24	179.56	178.48	179.57	0.000138	0.54	106.08	106.24	0.12
Draper's	Draper's_E	1807	SCS100yr	23.2	177.24	179.63	178.53	179.63	0.000148	0.57	113	107.1	0.12
Draper's	Draper's_E	1807	SCS200yr	28.09	177.24	179.71	178.61	179.72	0.000177	0.64	121.68	108.59	0.14
Draper's	Draper's_E	1807	RSnow100yr	13.47	177.24	179.38	178.3	179.38	0.000102	0.43	86.88	100.71	0.1
Draper's	Draper's_E	1768	SCS2yr	8.82	177.04	179.22		179.23	0.000057	0.34	83.52	88.56	0.08
Draper's	Draper's_E	1768	SCS5yr	11.38	177.04	179.32		179.32	0.000073	0.4	91.86	91.14	0.09
Draper's	Draper's_E	1768	SCS10yr	13.7	177.04	179.39		179.39	0.000088	0.45	98.32	92.86	0.1
Draper's	Draper's_E	1768	SCS25yr	17.29	177.04	179.48		179.48	0.00011	0.51	107.16	94.62	0.11
Draper's	Draper's_E	1768	SCS50yr	20.46	177.04	179.56		179.56	0.00013	0.57	114.62	98.05	0.12
Draper's	Draper's_E	1768	SCS100yr	23.2	177.04	179.62		179.63	0.000145	0.62	121.06	101.72	0.12
Draper's	Draper's_E	1768	SCS200yr	28.09	177.04	179.7		179.71	0.000176	0.69	129.29	104.68	0.14
Draper's	Draper's_E	1768	RSnow100yr	13.47	177.04	179.38		179.38	0.000088	0.45	97.3	92.7	0.1
Draper's	Draper's_E	1738	SCS2yr	8.82	177.12	179.22		179.22	0.000048	0.3	74.46	75.18	0.07
Draper's	Draper's_E	1738	SCS5yr	11.38	177.12	179.31		179.32	0.000062	0.35	81.49	76.95	0.08
Draper's	Draper's_E	1738	SCS10yr	13.7	177.12	179.38		179.39	0.000075	0.4	86.88	78.11	0.09
Draper's	Draper's_E	1738	SCS25yr	17.29	177.12	179.48		179.48	0.000096	0.46	94.27	79.67	0.1
Draper's	Draper's_E	1738	SCS50yr	20.46	177.12	179.56		179.56	0.000112	0.51	100.46	80.7	0.11
Draper's	Draper's_E	1738	SCS100yr	23.2	177.12	179.62		179.62	0.000124	0.54	105.63	81.05	0.11
Draper's	Draper's_E	1738	SCS200yr	28.09	177.12	179.7		179.7	0.000152	0.62	112	81.48	0.13
Draper's	Draper's_E	1738	RSnow100yr	13.47	177.12	179.37		179.38	0.000075	0.39	86.02	77.91	0.09
Draper's	Draper's_E	1694	SCS2yr	8.82	177.12	179.21		179.22	0.000214	0.62	31.12	35.96	0.14
Draper's	Draper's_E	1694	SCS5yr	11.38	177.12	179.29		179.31	0.000287	0.75	34.29	37.31	0.17
Draper's	Draper's_E	1694	SCS10yr	13.7	177.12	179.36		179.38	0.000357	0.85	36.7	38.37	0.19
Draper's	Draper's_E	1694	SCS25yr	17.29	177.12	179.44		179.47	0.000477	1.01	40.01	42.84	0.22
Draper's	Draper's_E	1694	SCS50yr	20.46	177.12	179.51		179.55	0.00059	1.14	42.97	44.77	0.25
Draper's	Draper's_E	1694	SCS100yr	23.2	177.12	179.56		179.61	0.000667	1.24	45.57	46.2	0.26
Draper's	Draper's_E	1694	SCS200yr	28.09	177.12	179.63		179.69	0.000834	1.41	48.57	47.39	0.3
Draper's	Draper's_E	1694	RSnow100yr	13.47	177.12	179.35		179.37	0.000354	0.84	36.29	38.2	0.19
Draper's	Draper's_E	1661	SCS2yr	8.82	177.06	179.19		179.21	0.000316	0.78	21.58	27.28	0.18
Draper's	Draper's_E	1661	SCS5yr	11.38	177.06	179.27		179.3	0.000435	0.94	23.82	29.69	0.21
Draper's	Draper's_E	1661	SCS10yr	13.7	177.06	179.32		179.36	0.000552	1.07	25.53	31.99	0.23
Draper's	Draper's_E	1661	SCS25yr	17.29	177.06	179.39		179.45	0.000741	1.27	27.9	35.07	0.27
Draper's	Draper's_E	1661	SCS50yr	20.46	177.06	179.45		179.52	0.00091	1.43	30.03	38.51	0.3
Draper's	Draper's_E	1661	SCS100yr	23.2	177.06	179.5		179.58	0.001039	1.55	31.95	39.74	0.33
Draper's	Draper's_E	1661	SCS200yr	28.09	177.06	179.54		179.65	0.00138	1.81	33.55	40.95	0.38
Draper's	Draper's_E	1661	RSnow100yr	13.47	177.06	179.31		179.35	0.000546	1.06	25.2	31.08	0.23
Draper's	Draper's_E	1650	SCS2yr	8.82	176.65	179.19	177.8	179.2	0.000164	0.56	30.69	59.92	0.12

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	1650	SCS5yr	11.38	176.65	179.27	177.93	179.28	0.000148	0.54	46.54	67.57	0.12
Draper's	Draper's_E	1650	SCS10yr	13.7	176.65	179.33	178.05	179.34	0.000169	0.59	50.59	68.41	0.13
Draper's	Draper's_E	1650	SCS25yr	17.29	176.65	179.41	178.21	179.42	0.000199	0.66	55.93	69.59	0.14
Draper's	Draper's_E	1650	SCS50yr	20.46	176.65	179.47	178.33	179.49	0.000224	0.71	60.34	72.01	0.15
Draper's	Draper's_E	1650	SCS100yr	23.2	176.65	179.53	178.43	179.54	0.000238	0.74	64.25	73.25	0.15
Draper's	Draper's_E	1650	SCS200yr	28.09	176.65	179.58	178.61	179.59	0.000292	0.83	68.03	76.72	0.17
Draper's	Draper's_E	1650	RSnow100yr	13.47	176.65	179.32	178.04	179.33	0.00017	0.59	49.87	68.25	0.13
Draper's	Draper's_E	1640		Culvert									
Draper's	Draper's_E	1629	SCS2yr	8.82	176.58	178.04	178.04	178.42	0.015567	2.51	3.35	27.61	0.86
Draper's	Draper's_E	1629	SCS5yr	11.38	176.58	178.18	178.18	178.63	0.015448	2.76	3.94	30.96	0.88
Draper's	Draper's_E	1629	SCS10yr	13.7	176.58	178.31	178.31	178.81	0.014045	2.86	4.55	32.42	0.86
Draper's	Draper's_E	1629	SCS25yr	17.29	176.58	178.51	178.46	179.04	0.012147	2.96	5.51	34.15	0.82
Draper's	Draper's_E	1629	SCS50yr	20.46	176.58	179.04	178.61	179.05	0.000091	0.33	45.55	55.14	0.08
Draper's	Draper's_E	1629	SCS100yr	23.2	176.58	179.32	178.73	179.33	0.000055	0.28	63.57	80.78	0.06
Draper's	Draper's_E	1629	SCS200yr	28.09	176.58	179.4	178.8	179.41	0.000067	0.31	69.96	88.36	0.07
Draper's	Draper's_E	1629	RSnow100yr	13.47	176.58	178.3	178.3	178.79	0.014127	2.85	4.49	32.31	0.86
Draper's	Draper's_E	1615	SCS2yr	8.82	176.98	178.13		178.18	0.001259	0.99	9.08	18.85	0.32
Draper's	Draper's_E	1615	SCS5yr	11.38	176.98	178.31		178.35	0.000746	0.85	12.69	21.12	0.25
Draper's	Draper's_E	1615	SCS10yr	13.7	176.98	178.45		178.49	0.000549	0.79	15.9	25.27	0.22
Draper's	Draper's_E	1615	SCS25yr	17.29	176.98	178.75		178.78	0.000267	0.63	24.38	34.08	0.16
Draper's	Draper's_E	1615	SCS50yr	20.46	176.98	179.03		179.05	0.000152	0.53	35.09	46.3	0.12
Draper's	Draper's_E	1615	SCS100yr	23.2	176.98	179.32		179.33	0.000086	0.44	51.05	60.19	0.1
Draper's	Draper's_E	1615	SCS200yr	28.09	176.98	179.39		179.4	0.000106	0.5	55.7	67.19	0.11
Draper's	Draper's_E	1615	RSnow100yr	13.47	176.98	178.44		178.48	0.000567	0.8	15.54	25.05	0.22
Draper's	Draper's_E	1558	SCS2yr	8.82	176.94	177.99		178.07	0.00304	1.38	9.03	15.42	0.48
Draper's	Draper's_E	1558	SCS5yr	11.38	176.94	178.21		178.28	0.002026	1.32	12.72	17.22	0.41
Draper's	Draper's_E	1558	SCS10yr	13.7	176.94	178.37		178.44	0.001728	1.34	15.49	18.26	0.39
Draper's	Draper's_E	1558	SCS25yr	17.29	176.94	178.69		178.74	0.001109	1.25	21.59	20.03	0.32
Draper's	Draper's_E	1558	SCS50yr	20.46	176.94	178.97		179.02	0.000818	1.2	27.67	22.88	0.28
Draper's	Draper's_E	1558	SCS100yr	23.2	176.94	179.27		179.31	0.000569	1.11	35.24	27.06	0.24
Draper's	Draper's_E	1558	SCS200yr	28.09	176.94	179.33		179.39	0.000744	1.29	36.83	27.56	0.28
Draper's	Draper's_E	1558	RSnow100yr	13.47	176.94	178.35		178.42	0.001755	1.33	15.21	18.19	0.39
Draper's	Draper's_E	1476	SCS2yr	8.82	176.37	177.82		177.88	0.001667	1.3	15.15	31.99	0.37
Draper's	Draper's_E	1476	SCS5yr	11.38	176.37	178.13		178.17	0.00083	1.07	26.08	38.23	0.27
Draper's	Draper's_E	1476	SCS10yr	13.7	176.37	178.31		178.34	0.000682	1.04	33.14	41.88	0.25
Draper's	Draper's_E	1476	SCS25yr	17.29	176.37	178.66		178.68	0.000421	0.93	49.51	52.24	0.21
Draper's	Draper's_E	1476	SCS50yr	20.46	176.37	178.96		178.97	0.000294	0.85	66.34	59.33	0.18
Draper's	Draper's_E	1476	SCS100yr	23.2	176.37	179.27		179.28	0.000193	0.74	85.85	66.66	0.15
Draper's	Draper's_E	1476	SCS200yr	28.09	176.37	179.33		179.34	0.00025	0.86	89.76	67.51	0.17
Draper's	Draper's_E	1476	RSnow100yr	13.47	176.37	178.29		178.32	0.000696	1.04	32.42	41.63	0.26
Draper's	Draper's_E	1408	SCS2yr	8.82	176.47	177.78		177.8	0.000612	0.75	27.64	46.84	0.23
Draper's	Draper's_E	1408	SCS5yr	11.38	176.47	178.12		178.13	0.000286	0.61	44.12	51.89	0.16
Draper's	Draper's_E	1408	SCS10yr	13.7	176.47	178.3		178.31	0.000237	0.6	53.63	54.54	0.15
Draper's	Draper's_E	1408	SCS25yr	17.29	176.47	178.65		178.66	0.00015	0.54	73.8	58.91	0.12
Draper's	Draper's_E	1408	SCS50yr	20.46	176.47	178.95		178.96	0.000109	0.51	92.08	61.84	0.11
Draper's	Draper's_E	1408	SCS100yr	23.2	176.47	179.26		179.27	0.000079	0.47	111.79	65.17	0.09
Draper's	Draper's_E	1408	SCS200yr	28.09	176.47	179.32		179.33	0.000106	0.55	115.51	65.69	0.11
Draper's	Draper's_E	1408	RSnow100yr	13.47	176.47	178.28		178.29	0.000241	0.6	52.68	54.31	0.15
Draper's	Draper's_E	1368	SCS2yr	8.82	176.43	177.69	177.24	177.76	0.001717	1.23	12.44	29.94	0.38
Draper's	Draper's_E	1368	SCS5yr	11.38	176.43	178.07	177.4	178.11	0.000741	0.99	23.07	39.7	0.26
Draper's	Draper's_E	1368	SCS10yr	13.7	176.43	178.27	177.46	178.29	0.000495	0.88	35.77	48.36	0.22
Draper's	Draper's_E	1368	SCS25yr	17.29	176.43	178.64	177.62	178.65	0.000274	0.74	54.29	53.04	0.17
Draper's	Draper's_E	1368	SCS50yr	20.46	176.43	178.94	177.71	178.95	0.00019	0.68	71.43	57.83	0.14
Draper's	Draper's_E	1368	SCS100yr	23.2	176.43	179.26	177.78	179.26	0.000112	0.57	105.59	87.97	0.11
Draper's	Draper's_E	1368	SCS200yr	28.09	176.43	179.31	177.9	179.32	0.000147	0.66	110.47	89.17	0.13
Draper's	Draper's_E	1368	RSnow100yr	13.47	176.43	178.25	177.46	178.27	0.000507	0.88	34.91	48.07	0.22
Draper's	Draper's_E	1354	SCS2yr	8.82	175.96	177.68	176.9	177.73	0.000943	1.03	9.47	12.11	0.28
Draper's	Draper's_E	1354	SCS5yr	11.38	175.96	178.04	177.01	178.09	0.000708	1.04	12.34	34.08	0.25
Draper's	Draper's_E	1354	SCS10yr	13.7	175.96	178.21	177.11	178.27	0.000747	1.13	13.69	40.91	0.26
Draper's	Draper's_E	1354	SCS25yr	17.29	175.96	178.56	177.25	178.63	0.000666	1.19	16.49	51.34	0.25
Draper's	Draper's_E	1354	SCS50yr	20.46	175.96	178.93	177.35	178.95	0.00022	0.76	61.33	59.09	0.15
Draper's	Draper's_E	1354	SCS100yr	23.2	175.96	179.25	177.45	179.26	0.000123	0.61	99.39	109.41	0.11
Draper's	Draper's_E	1354	SCS200yr	28.09	175.96	179.31	177.61	179.32	0.000158	0.7	105.36	111.59	0.13
Draper's	Draper's_E	1354	RSnow100yr	13.47	175.96	178.19	177.1	178.25	0.000743	1.12	13.56	39.6	0.26
Draper's	Draper's_E	1342		Bridge									
Draper's	Draper's_E	1333	SCS2yr	8.82	175.91	177.48	176.86	177.55	0.001303	1.14	7.78	7.77	0.33
Draper's	Draper's_E	1333	SCS5yr	11.38	175.91	177.83	176.98	177.89	0.000806	1.05	10.5	9.47	0.27
Draper's	Draper's_E	1333	SCS10yr	13.7	175.91	177.9	177.08	177.98	0.000982	1.2	11.04	9.8	0.3
Draper's	Draper's_E	1333	SCS25yr	17.29	175.91	177.98	177.22	178.1	0.001262	1.4	11.74	10.18	0.34
Draper's	Draper's_E	1333	SCS50yr	20.46	175.91	178.05	177.34	178.2	0.001528	1.58	12.24	10.44	0.37
Draper's	Draper's_E	1333	SCS100yr	23.2	175.91	178.1	177.44	178.28	0.00175	1.72	12.65	10.66	0.4
Draper's	Draper's_E	1333	SCS200yr	28.09	175.91	178.17	177.58	178.42	0.002194	1.98	13.23	10.99	0.45
Draper's	Draper's_E	1333	RSnow100yr	13.47	175.91	177.89	177.07	177.97	0.000961	1.18	11	9.77	0.29
Draper's	Draper's_E	1319	SCS2yr	8.82	176.01	177.47		177.53	0.001006	1.05	8.11	8.55	0.29
Draper's	Draper's_E	1319	SCS5yr	11.38	176.01	177.82		177.88	0.000625	0.97	11.34	9.77	0.24
Draper's	Draper's_E	1319	SCS10yr	13.7	176.01	177.89		177.96	0.000766	1.11	12.01	10.01	0.27
Draper's	Draper's_E	1319	SCS25yr	17.29	176.01	177.98		178.07	0.000992	1.3	12.9	10.37	0.31
Draper's	Draper's_E	1319	SCS50yr	20.46	176.01	178.04		178.16	0.001203	1.46	13.57	10.63	0.34
Draper's	Draper's_E	1319	SCS100yr	23.2	176.01	178.1		178.24	0.001375	1.59	14.15	10.82	0.36
Draper's	Draper's_E	1319	SCS200yr	28.09	176.01	178.17		178.36	0.00171	1.82	14.99	11.12	0.41
Draper's	Draper's_E	1319	RSnow100yr	13.47	176.01	177.89		177.95	0.000749	1.09	11.95	9.99	0.26
Draper's	Draper's_E	1241	SCS2yr	8.82	175.93	177.41		177.45	0.000972	1.01	13.15	17.85	0.29
Draper's	Draper's_E	1241	SCS5yr	11.38	175.93	177.8		177.82	0.000515	0.88	22.6	32.34	0.22
Draper's	Draper's_E	1241	SCS10yr	13.7	175.93	177.86		177.9	0.000656	1.02	24.8	38.58	0.25
Draper's	Draper's_E	1241	SCS25yr	17.29	175.93	177.93		177.99	0.000874	1.21	28.08	46.11	0.29
Draper's	Draper's_E	1241	SCS50yr	20.46	175.93	177.99		178.06	0.00111	1.4	30.68	52.88	0.33
Draper's	Draper's_E	1241	SCS100yr	23.2	175.93	178.04		178.12	0.001227	1.5	33.61	57.53	0.35
Draper's	Draper's_E	1241	SCS200yr	28.09	175.93	178.12		178.21	0.001365	1.62	38.66	62.1	0.37
Draper's	Draper's_E	1241	RSnow100yr	13.47	175.93	177.85		177.89	0.000642	1.01	24.63	38.4	0.25
Draper's	Draper's_E	1189	SCS2yr	8.82	175.79	177.37		177.41	0.000624	0.89	13.68	23.84	0.24
Draper's	Draper's_E	1189	SCS5yr	11.38	175.79	177.79		177.8	0.000251	0.67	32.05	49.57	0.16
Draper's	Draper's_E	1189	SCS10yr	13.7	175.79	177.85		177.87	0.000298	0.74	35.15	50.37	0.17
Draper's	Draper's_E	1189	SCS25yr	17.29	175.79	177.93		177.95	0.000372	0.85	39.2	51.47	0.19
Draper's	Draper's_E	1189	SCS50yr	20.46	175.79	177.98		178.01	0.000442	0.95	42.03	52.1	0.21
Draper's	Draper's_E	1189	SCS100yr	23.2	175.79	178.04		178.07	0.00049	1.02	44.77	52.86	0.22
Draper's	Draper's_E	1189	SCS200yr	28.09	175.79	178.12		178.15	0.000575	1.13	49.12	54.02	0.24
Draper's	Draper's_E	1189	RSnow100yr	13.47	175.79	177.84		177.86	0.000293	0.74	34.92	50.32	0.17
Draper's	Draper's_E	1133	SCS2yr	8.82	175.95	177.28		177.35	0.001664	1.25	8.63	10.25	0.37
Draper's	Draper's_E	1133	SCS5yr	11.38	175.95	177.72		177.77	0.000839	1.11	15.97	38.01	0.28
Draper's	Draper's_E	1133	SCS10yr	13.7	175.95	177.76		177.83	0.001054	1.27	17.83	45.1	0.32
Draper's	Draper's_E	1133	SCS25yr	17.29	175.95	177.82		177.91	0.001387	1.48	20.33	48.19	0.36
Draper's	Draper's_E	1133	SCS50yr	20.46	175.95	177.84		177.96	0.001771	1.69	21.52	50.34	0.41

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	1133	SCS100yr	23.2	175.95	177.88		178.01	0.001984	1.82	23.35	51.29	0.44
Draper's	Draper's_E	1133	SCS200yr	28.09	175.95	177.92		178.08	0.002463	2.06	25.67	53.47	0.49
Draper's	Draper's_E	1133	RSnow100yr	13.47	175.95	177.76		177.83	0.001027	1.25	17.72	44.21	0.31
Draper's	Draper's_E	1120	SCS2yr	8.82	175.47	177.26	176.46	177.32	0.001048	1.13	9.25	10.36	0.29
Draper's	Draper's_E	1120	SCS5yr	11.38	175.47	177.73	176.6	177.75	0.000338	0.77	30.32	63.08	0.17
Draper's	Draper's_E	1120	SCS10yr	13.7	175.47	177.78	176.71	177.8	0.000423	0.87	33.46	72.29	0.2
Draper's	Draper's_E	1120	SCS25yr	17.29	175.47	177.84	176.87	177.87	0.00054	1	37.92	78.64	0.22
Draper's	Draper's_E	1120	SCS50yr	20.46	175.47	177.87	177	177.9	0.000667	1.13	40.36	85.38	0.25
Draper's	Draper's_E	1120	SCS100yr	23.2	175.47	177.91	177.12	177.95	0.000745	1.2	43.81	89.89	0.26
Draper's	Draper's_E	1120	SCS200yr	28.09	175.47	177.96	177.58	178.01	0.000848	1.31	48.79	91.72	0.28
Draper's	Draper's_E	1120	RSnow100yr	13.47	175.47	177.78	176.7	177.8	0.000396	0.84	33.34	71.93	0.19
Draper's	Draper's_E	1107		Bridge									
Draper's	Draper's_E	1092	SCS2yr	8.82	175.47	176.9	176.5	176.99	0.001778	1.14	7.26	13.48	0.37
Draper's	Draper's_E	1092	SCS5yr	11.38	175.47	176.98	176.57	177.11	0.002229	1.34	7.87	14.02	0.42
Draper's	Draper's_E	1092	SCS10yr	13.7	175.47	177.04	176.64	177.21	0.002659	1.52	8.32	14.38	0.46
Draper's	Draper's_E	1092	SCS25yr	17.29	175.47	177.11	176.75	177.35	0.003385	1.78	8.87	18.16	0.53
Draper's	Draper's_E	1092	SCS50yr	20.46	175.47	177.15	176.84	177.47	0.004164	2.02	9.21	22.97	0.59
Draper's	Draper's_E	1092	SCS100yr	23.2	175.47	177.3	176.92	177.42	0.001565	1.34	17.08	42.74	0.37
Draper's	Draper's_E	1092	SCS200yr	28.09	175.47	177.41	177.07	177.52	0.001325	1.3	22.25	47.41	0.34
Draper's	Draper's_E	1092	RSnow100yr	13.47	175.47	177.03	176.63	177.2	0.002619	1.5	8.28	14.34	0.46
Draper's	Draper's_E	1078	SCS2yr	8.82	175.61	176.88		176.95	0.0023	1.35	10.57	30.26	0.43
Draper's	Draper's_E	1078	SCS5yr	11.38	175.61	176.98		177.05	0.002309	1.44	13.57	34.43	0.44
Draper's	Draper's_E	1078	SCS10yr	13.7	175.61	177.05		177.12	0.002268	1.49	16.23	37.22	0.44
Draper's	Draper's_E	1078	SCS25yr	17.29	175.61	177.15		177.23	0.00223	1.56	20.31	42.62	0.44
Draper's	Draper's_E	1078	SCS50yr	20.46	175.61	177.23		177.3	0.002124	1.58	23.76	44.22	0.43
Draper's	Draper's_E	1078	SCS100yr	23.2	175.61	177.3		177.37	0.002022	1.59	26.74	45.46	0.43
Draper's	Draper's_E	1078	SCS200yr	28.09	175.61	177.41		177.48	0.001843	1.6	31.98	46.99	0.41
Draper's	Draper's_E	1078	RSnow100yr	13.47	175.61	177.04		177.12	0.002265	1.48	15.96	36.61	0.44
Draper's	Draper's_E	1015	SCS2yr	8.82	175.49	176.77	176.53	176.82	0.001692	1.22	13.04	33.45	0.37
Draper's	Draper's_E	1015	SCS5yr	11.38	175.49	176.87	176.68	176.92	0.001581	1.25	16.41	34.09	0.36
Draper's	Draper's_E	1015	SCS10yr	13.7	175.49	176.95	176.73	177	0.001533	1.28	19.1	34.59	0.36
Draper's	Draper's_E	1015	SCS25yr	17.29	175.49	177.06	176.79	177.1	0.00152	1.34	22.68	35.24	0.37
Draper's	Draper's_E	1015	SCS50yr	20.46	175.49	177.13	176.84	177.18	0.001542	1.4	25.44	35.77	0.37
Draper's	Draper's_E	1015	SCS100yr	23.2	175.49	177.2	176.87	177.25	0.001534	1.44	27.84	36.22	0.37
Draper's	Draper's_E	1015	SCS200yr	28.09	175.49	177.31	176.93	177.37	0.001522	1.5	32.03	38.13	0.38
Draper's	Draper's_E	1015	RSnow100yr	13.47	175.49	176.94	176.73	176.99	0.001539	1.28	18.83	34.53	0.36
Draper's	Draper's_E	928	SCS2yr	8.82	175.47	176.41	176.37	176.56	0.006535	1.9	8.15	24.28	0.69
Draper's	Draper's_E	928	SCS5yr	11.38	175.47	176.47	176.45	176.65	0.007627	2.16	9.61	25.5	0.76
Draper's	Draper's_E	928	SCS10yr	13.7	175.47	176.52	176.51	176.72	0.008477	2.36	10.82	26.43	0.8
Draper's	Draper's_E	928	SCS25yr	17.29	175.47	176.59	176.59	176.82	0.008939	2.56	12.89	27.63	0.84
Draper's	Draper's_E	928	SCS50yr	20.46	175.47	176.66	176.66	176.9	0.008851	2.67	14.85	28.67	0.84
Draper's	Draper's_E	928	SCS100yr	23.2	175.47	176.7	176.7	176.96	0.00943	2.83	16	29.17	0.87
Draper's	Draper's_E	928	SCS200yr	28.09	175.47	176.77	176.77	177.07	0.010446	3.1	17.95	30.74	0.93
Draper's	Draper's_E	928	RSnow100yr	13.47	175.47	176.51	176.51	176.72	0.008354	2.34	10.73	26.37	0.8
Draper's	Draper's_E	844	SCS2yr	8.82	175.32	176.27		176.29	0.00154	0.88	17.48	50.07	0.33
Draper's	Draper's_E	844	SCS5yr	11.38	175.32	176.34		176.36	0.001519	0.93	21.07	50.84	0.34
Draper's	Draper's_E	844	SCS10yr	13.7	175.32	176.39		176.42	0.001528	0.98	23.95	51.52	0.34
Draper's	Draper's_E	844	SCS25yr	17.29	175.32	176.48		176.5	0.001514	1.03	28.2	52.48	0.35
Draper's	Draper's_E	844	SCS50yr	20.46	175.32	176.54		176.57	0.001494	1.08	31.75	53.31	0.35
Draper's	Draper's_E	844	SCS100yr	23.2	175.32	176.6		176.63	0.001453	1.1	34.87	53.91	0.35
Draper's	Draper's_E	844	SCS200yr	28.09	175.32	176.71		176.74	0.001327	1.13	40.91	55.53	0.34
Draper's	Draper's_E	844	RSnow100yr	13.47	175.32	176.39		176.42	0.001529	0.97	23.66	51.45	0.34
Draper's	Draper's_E	771	SCS2yr	8.82	175.08	176	175.85	176.1	0.004523	1.57	10.32	42.8	0.58
Draper's	Draper's_E	771	SCS5yr	11.38	175.08	176.07	176.02	176.18	0.004437	1.65	13.53	43.88	0.58
Draper's	Draper's_E	771	SCS10yr	13.7	175.08	176.13	176.07	176.24	0.004253	1.7	16.34	44.7	0.58
Draper's	Draper's_E	771	SCS25yr	17.29	175.08	176.23	176.19	176.33	0.003861	1.73	20.73	47.2	0.56
Draper's	Draper's_E	771	SCS50yr	20.46	175.08	176.32	176.17	176.41	0.003457	1.73	24.85	49.59	0.54
Draper's	Draper's_E	771	SCS100yr	23.2	175.08	176.39	176.21	176.48	0.00307	1.71	28.68	50.26	0.51
Draper's	Draper's_E	771	SCS200yr	28.09	175.08	176.54	176.27	176.61	0.00239	1.64	36.47	59.8	0.46
Draper's	Draper's_E	771	RSnow100yr	13.47	175.08	176.13	176.06	176.23	0.004259	1.69	16.08	44.62	0.58
Draper's	Draper's_E	696	SCS2yr	8.82	174.96	175.88		175.9	0.001475	0.84	23.39	63.15	0.32
Draper's	Draper's_E	696	SCS5yr	11.38	174.96	175.96		175.98	0.001416	0.88	28.48	64.03	0.32
Draper's	Draper's_E	696	SCS10yr	13.7	174.96	176.03		176.05	0.001359	0.92	32.89	64.66	0.32
Draper's	Draper's_E	696	SCS25yr	17.29	174.96	176.13		176.15	0.001243	0.95	39.84	66.09	0.31
Draper's	Draper's_E	696	SCS50yr	20.46	174.96	176.23		176.25	0.00112	0.96	46.22	66.91	0.3
Draper's	Draper's_E	696	SCS100yr	23.2	174.96	176.32		176.34	0.001009	0.97	52	67.43	0.29
Draper's	Draper's_E	696	SCS200yr	28.09	174.96	176.48		176.5	0.000822	0.95	63.11	68.54	0.27
Draper's	Draper's_E	696	RSnow100yr	13.47	174.96	176.02		176.04	0.001353	0.91	32.55	64.61	0.32
Draper's	Draper's_E	613	SCS2yr	8.82	174.86	175.72		175.75	0.002314	1.11	19.22	48.67	0.41
Draper's	Draper's_E	613	SCS5yr	11.38	174.86	175.8		175.83	0.002231	1.17	23.38	49.42	0.41
Draper's	Draper's_E	613	SCS10yr	13.7	174.86	175.87		175.91	0.002157	1.22	27.04	50.59	0.41
Draper's	Draper's_E	613	SCS25yr	17.29	174.86	176		176.03	0.001904	1.25	33.28	52.25	0.4
Draper's	Draper's_E	613	SCS50yr	20.46	174.86	176.1		176.14	0.001684	1.25	39.12	53.96	0.38
Draper's	Draper's_E	613	SCS100yr	23.2	174.86	176.2		176.24	0.001492	1.25	44.54	55.34	0.36
Draper's	Draper's_E	613	SCS200yr	28.09	174.86	176.39		176.42	0.001191	1.23	54.97	57.73	0.33
Draper's	Draper's_E	613	RSnow100yr	13.47	174.86	175.87		175.9	0.002122	1.2	26.87	50.54	0.41
Draper's	Draper's_E	553	SCS2yr	8.82	174.83	175.62	175.36	175.64	0.001402	0.8	23.77	50.31	0.32
Draper's	Draper's_E	553	SCS5yr	11.38	174.83	175.71	175.4	175.73	0.001396	0.87	28.15	51.02	0.32
Draper's	Draper's_E	553	SCS10yr	13.7	174.83	175.79	175.43	175.81	0.001364	0.92	32.04	51.69	0.32
Draper's	Draper's_E	553	SCS25yr	17.29	174.83	175.92	175.47	175.94	0.001193	0.95	38.96	52.7	0.31
Draper's	Draper's_E	553	SCS50yr	20.46	174.83	176.04	175.51	176.06	0.001051	0.96	45.3	53.62	0.3
Draper's	Draper's_E	553	SCS100yr	23.2	174.83	176.15	175.54	176.17	0.000935	0.97	51.08	54.35	0.28
Draper's	Draper's_E	553	SCS200yr	28.09	174.83	176.34	175.58	176.36	0.000762	0.97	61.86	55.73	0.26
Draper's	Draper's_E	553	RSnow100yr	13.47	174.83	175.79	175.43	175.8	0.001327	0.9	31.97	51.68	0.32
Draper's	Draper's_E	508	SCS2yr	8.82	174.66	175.37	175.34	175.51	0.008597	1.78	7.72	25.55	0.76
Draper's	Draper's_E	508	SCS5yr	11.38	174.66	175.44	175.41	175.6	0.008693	1.93	9.52	26.24	0.78
Draper's	Draper's_E	508	SCS10yr	13.7	174.66	175.57	175.47	175.69	0.005847	1.79	12.91	27.43	0.66
Draper's	Draper's_E	508	SCS25yr	17.29	174.66	175.74	175.53	175.85	0.003926	1.69	17.96	29.71	0.56
Draper's	Draper's_E	508	SCS50yr	20.46	174.66	175.89	175.59	175.98	0.003077	1.65	22.41	31.89	0.51
Draper's	Draper's_E	508	SCS100yr	23.2	174.66	176.01	175.64	176.1	0.002538	1.61	26.43	32.96	0.47
Draper's	Draper's_E	508	SCS200yr	28.09	174.66	176.23	175.72	176.31	0.001923	1.57	33.87	35.89	0.42
Draper's	Draper's_E	508	RSnow100yr	13.47	174.66	175.59	175.46	175.7	0.005082	1.7	13.44	27.61	0.62
Draper's	Draper's_E	479	SCS2yr	8.82	174.62	175.31	175.14	175.34	0.00291	0.98	17.31	47.02	0.44
Draper's	Draper's_E	479	SCS5yr	11.38	174.62	175.4	175.18	175.43	0.002454	1.01	21.81	48.27	0.41
Draper's	Draper's_E	479	SCS10yr	13.7	174.62	175.56	175.22	175.58	0.001434	0.9	29.55	49.61	0.33
Draper's	Draper's_E	479	SCS25yr	17.29	174.62	175.75	175.26	175.77	0.000984	0.86	39.04	51.25	0.28
Draper's	Draper's_E	479	SCS50yr	20.46	174.62	175.9	175.3	175.92	0.000802	0.86	46.7	52.77	0.26
Draper's	Draper's_E	479	SCS100yr	23.2	174.62	176.02	175.33	176.04	0.000688	0.85	53.44	54.11	0.25
Draper's	Draper's_E	479	SCS200yr	28.09	174.62	176.24	175.38	176.26	0.000549	0.85	65.57	56.56	0.23
Draper's	Draper's_E	479	RSnow100yr	13.47	174.62	175.58	175.2	175.6	0.001244	0.85	30.62	49.85	0.31
Draper's	Draper's_E	463	SCS2yr	8.82	174.18	175.29	174.73	175.31	0.000613	0.63	14.03	18.59	0.22
Draper's	Draper's_E	463	SCS5yr	11.38	174.18	175.38	174.8	175.41	0.000729	0.74	15.54	18.91	0.24

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_E	463	SCS10yr	13.7	174.18	175.54	174.85	175.57	0.000638	0.76	18.23	21.89	0.23
Draper's	Draper's_E	463	SCS25yr	17.29	174.18	175.72	174.92	175.75	0.000606	0.82	21.51	31.95	0.23
Draper's	Draper's_E	463	SCS50yr	20.46	174.18	175.86	174.98	175.9	0.000594	0.87	24.23	33.6	0.23
Draper's	Draper's_E	463	SCS100yr	23.2	174.18	175.98	175.03	176.02	0.000577	0.91	26.76	35.83	0.23
Draper's	Draper's_E	463	SCS200yr	28.09	174.18	176.2	175.11	176.24	0.000539	0.96	31.43	41.37	0.23
Draper's	Draper's_E	463	RSnow100yr	13.47	174.18	175.56	174.85	175.59	0.000574	0.73	18.65	22.5	0.22
Draper's	Draper's_E	448		Bridge									
Draper's	Draper's_E	431	SCS2yr	8.82	174.31	175.22	174.92	175.25	0.001514	0.74	11.92	31.13	0.32
Draper's	Draper's_E	431	SCS5yr	11.38	174.31	175.3	174.97	175.33	0.001632	0.84	13.58	31.82	0.34
Draper's	Draper's_E	431	SCS10yr	13.7	174.31	175.45	175.02	175.48	0.001138	0.81	16.92	33.37	0.29
Draper's	Draper's_E	431	SCS25yr	17.29	174.31	175.56	175.08	175.61	0.001147	0.89	19.4	34.72	0.3
Draper's	Draper's_E	431	SCS50yr	20.46	174.31	175.65	175.12	175.7	0.001178	0.96	21.29	35.83	0.31
Draper's	Draper's_E	431	SCS100yr	23.2	174.31	175.72	175.16	175.77	0.001216	1.02	22.75	36.99	0.32
Draper's	Draper's_E	431	SCS200yr	28.09	174.31	175.81	175.22	175.88	0.001328	1.13	24.85	38.26	0.34
Draper's	Draper's_E	431	RSnow100yr	13.47	174.31	175.46	175.01	175.49	0.001047	0.78	17.17	33.46	0.28
Draper's	Draper's_E	412	SCS2yr	8.82	174.63	175.18		175.21	0.003386	1	18.78	51.82	0.47
Draper's	Draper's_E	412	SCS5yr	11.38	174.63	175.26		175.29	0.003086	1.06	22.92	53.27	0.46
Draper's	Draper's_E	412	SCS10yr	13.7	174.63	175.43		175.45	0.001572	0.91	32.33	55.78	0.34
Draper's	Draper's_E	412	SCS25yr	17.29	174.63	175.55		175.57	0.001411	0.95	38.98	57.1	0.33
Draper's	Draper's_E	412	SCS50yr	20.46	174.63	175.64		175.66	0.001355	1	44.14	58.85	0.33
Draper's	Draper's_E	412	SCS100yr	23.2	174.63	175.71		175.73	0.001353	1.04	48.22	60.09	0.33
Draper's	Draper's_E	412	SCS200yr	28.09	174.63	175.81		175.83	0.001382	1.12	54.24	60.93	0.34
Draper's	Draper's_E	412	RSnow100yr	13.47	174.63	175.45		175.46	0.001415	0.87	33.07	55.9	0.32
Draper's	Draper's_E	354	SCS2yr	8.82	174.41	174.96	174.76	174.98	0.004782	1.2	17.33	46.12	0.55
Draper's	Draper's_E	354	SCS5yr	11.38	174.41	175.08	174.8	175.11	0.003248	1.16	23.38	49.17	0.48
Draper's	Draper's_E	354	SCS10yr	13.7	174.41	175.36	174.84	175.38	0.001083	0.86	37.59	52.22	0.29
Draper's	Draper's_E	354	SCS25yr	17.29	174.41	175.49	174.88	175.5	0.001076	0.94	44.04	54.28	0.3
Draper's	Draper's_E	354	SCS50yr	20.46	174.41	175.57	174.92	175.59	0.00114	1.02	48.95	57.44	0.31
Draper's	Draper's_E	354	SCS100yr	23.2	174.41	175.64	174.95	175.66	0.001239	1.1	52.84	61.58	0.33
Draper's	Draper's_E	354	SCS200yr	28.09	174.41	175.74	175	175.76	0.00132	1.2	58.84	63.09	0.34
Draper's	Draper's_E	354	RSnow100yr	13.47	174.41	175.39	174.84	175.4	0.000956	0.82	38.69	52.42	0.28
Draper's	Draper's_E	304	SCS2yr	8.82	174.14	174.71		174.74	0.005044	1.15	16.33	51.33	0.56
Draper's	Draper's_E	304	SCS5yr	11.38	174.14	175.01		175.02	0.000996	0.73	32.38	56	0.27
Draper's	Draper's_E	304	SCS10yr	13.7	174.14	175.34		175.35	0.000337	0.54	51.44	59.31	0.17
Draper's	Draper's_E	304	SCS25yr	17.29	174.14	175.46		175.47	0.000356	0.6	58.67	60.46	0.18
Draper's	Draper's_E	304	SCS50yr	20.46	174.14	175.55		175.56	0.000383	0.65	64.06	65.14	0.18
Draper's	Draper's_E	304	SCS100yr	23.2	174.14	175.61		175.62	0.00044	0.72	68.21	68.25	0.2
Draper's	Draper's_E	304	SCS200yr	28.09	174.14	175.7		175.72	0.000491	0.8	74.69	70.07	0.21
Draper's	Draper's_E	304	RSnow100yr	13.47	174.14	175.37		175.37	0.000299	0.52	52.86	59.48	0.16
Draper's	Draper's_E	266	SCS2yr	8.82	174.03	174.63	174.38	174.64	0.001694	0.68	23.35	61.28	0.33
Draper's	Draper's_E	266	SCS5yr	11.38	174.03	175	174.42	175	0.000298	0.43	47.76	68.27	0.15
Draper's	Draper's_E	266	SCS10yr	13.7	174.03	175.34	174.44	175.34	0.000119	0.34	71.43	71.62	0.1
Draper's	Draper's_E	266	SCS25yr	17.29	174.03	175.46	174.48	175.46	0.000131	0.38	80.14	72.53	0.11
Draper's	Draper's_E	266	SCS50yr	20.46	174.03	175.54	174.51	175.55	0.000144	0.42	86.45	73.14	0.11
Draper's	Draper's_E	266	SCS100yr	23.2	174.03	175.61	174.53	175.61	0.000158	0.45	90.97	73.73	0.12
Draper's	Draper's_E	266	SCS200yr	28.09	174.03	175.7	174.56	175.7	0.000184	0.51	97.86	74.77	0.13
Draper's	Draper's_E	266	RSnow100yr	13.47	174.03	175.36	174.44	175.36	0.000106	0.33	73.18	71.81	0.1
Draper's	Draper's_E	215	SCS2yr	8.82	173.87	174.56	174.22	174.57	0.001054	0.63	31.28	69.18	0.27
Draper's	Draper's_E	215	SCS5yr	11.38	173.87	174.99	174.26	174.99	0.000207	0.41	61.97	74.7	0.13
Draper's	Draper's_E	215	SCS10yr	13.7	173.87	175.33	174.3	175.33	0.000097	0.34	95.54	101.35	0.09
Draper's	Draper's_E	215	SCS25yr	17.29	173.87	175.45	174.33	175.45	0.000108	0.38	107.88	103.53	0.1
Draper's	Draper's_E	215	SCS50yr	20.46	173.87	175.54	174.36	175.54	0.000119	0.42	116.85	104.67	0.11
Draper's	Draper's_E	215	SCS100yr	23.2	173.87	175.6	174.38	175.6	0.00013	0.45	123.27	105.34	0.11
Draper's	Draper's_E	215	SCS200yr	28.09	173.87	175.69	174.42	175.7	0.000152	0.5	133	106.26	0.12
Draper's	Draper's_E	215	RSnow100yr	13.47	173.87	175.36	174.29	175.36	0.000087	0.33	98.07	101.65	0.09
Draper's	Draper's_E	141	SCS2yr	8.82	173.62	174.51	174.04	174.52	0.000489	0.54	38.82	72.78	0.19
Draper's	Draper's_E	141	SCS5yr	11.38	173.62	174.98	174.07	174.98	0.000116	0.35	78.65	89.44	0.1
Draper's	Draper's_E	141	SCS10yr	13.7	173.62	175.33	174.1	175.33	0.000061	0.3	110.98	95.07	0.08
Draper's	Draper's_E	141	SCS25yr	17.29	173.62	175.45	174.14	175.45	0.000072	0.35	122.43	96.47	0.08
Draper's	Draper's_E	141	SCS50yr	20.46	173.62	175.53	174.17	175.53	0.000083	0.38	130.71	97.24	0.09
Draper's	Draper's_E	141	SCS100yr	23.2	173.62	175.59	174.2	175.59	0.000094	0.42	136.64	99.14	0.1
Draper's	Draper's_E	141	SCS200yr	28.09	173.62	175.68	174.24	175.69	0.000116	0.48	145.78	102.61	0.11
Draper's	Draper's_E	141	RSnow100yr	13.47	173.62	175.35	174.1	175.35	0.000055	0.29	113.4	95.35	0.07
Draper's	Draper's_E	78	SCS2yr	8.82	173.35	174.48		174.49	0.000461	0.6	29.53	41.44	0.19
Draper's	Draper's_E	78	SCS5yr	11.38	173.35	174.96		174.97	0.000159	0.46	50.6	45.39	0.12
Draper's	Draper's_E	78	SCS10yr	13.7	173.35	175.32		175.32	0.000105	0.43	67.49	51.04	0.1
Draper's	Draper's_E	78	SCS25yr	17.29	173.35	175.44		175.44	0.000131	0.51	73.54	52.35	0.12
Draper's	Draper's_E	78	SCS50yr	20.46	173.35	175.52		175.53	0.00016	0.58	77.95	54.74	0.13
Draper's	Draper's_E	78	SCS100yr	23.2	173.35	175.58		175.59	0.000187	0.63	81.17	56.58	0.14
Draper's	Draper's_E	78	SCS200yr	28.09	173.35	175.66		175.67	0.000244	0.74	86.19	60.75	0.16
Draper's	Draper's_E	78	RSnow100yr	13.47	173.35	175.34		175.35	0.000096	0.42	68.83	51.29	0.1
Draper's	Draper's_E	19	SCS2yr	8.82	173.33	174.48	173.65	174.48	0.000062	0.24	82.64	90.95	0.07
Draper's	Draper's_E	19	SCS5yr	11.38	173.33	174.96	173.68	174.96	0.000026	0.2	128.17	96.12	0.05
Draper's	Draper's_E	19	SCS10yr	13.7	173.33	175.32	173.7	175.32	0.000018	0.19	162.92	99.88	0.04
Draper's	Draper's_E	19	SCS25yr	17.29	173.33	175.44	173.73	175.44	0.000023	0.22	174.74	103.88	0.05
Draper's	Draper's_E	19	SCS50yr	20.46	173.33	175.52	173.76	175.52	0.000028	0.25	183.25	114.16	0.06
Draper's	Draper's_E	19	SCS100yr	23.2	173.33	175.58	173.78	175.58	0.000033	0.28	189.26	119.74	0.06
Draper's	Draper's_E	19	SCS200yr	28.09	173.33	175.66	173.81	175.67	0.000043	0.32	198.27	128.98	0.07
Draper's	Draper's_E	19	RSnow100yr	13.47	173.33	175.35	173.7	175.35	0.000017	0.18	165.53	100.19	0.04
Draper's	Draper's_W	4667	SCS2yr	1.14	184.45	184.82	184.7	184.84	0.004531	0.73	1.56	6.65	0.48
Draper's	Draper's_W	4667	SCS5yr	1.38	184.45	184.85	184.73	184.88	0.004821	0.77	1.79	7.25	0.5
Draper's	Draper's_W	4667	SCS10yr	1.58	184.45	184.87	184.74	184.91	0.004624	0.81	1.97	8.04	0.5
Draper's	Draper's_W	4667	SCS25yr	1.85	184.45	184.9	184.77	184.94	0.00442	0.84	2.21	8.7	0.49
Draper's	Draper's_W	4667	SCS50yr	2.05	184.45	184.93	184.79	184.96	0.004152	0.86	2.42	10.24	0.48
Draper's	Draper's_W	4667	SCS100yr	2.72	184.45	184.97	184.84	185.01	0.004119	0.93	3.08	25.64	0.49
Draper's	Draper's_W	4667	SCS200yr	5.08	184.45	185.04	185.03	185.08	0.003717	1	5.7	58.48	0.48
Draper's	Draper's_W	4667	RSnow100yr	1.53	184.45	184.87	184.74	184.9	0.004527	0.79	1.94	7.94	0.49
Draper's	Draper's_W	4596	SCS2yr	1.14	184.27	184.6	184.51	184.61	0.002385	0.6	2.87	20.47	0.36
Draper's	Draper's_W	4596	SCS5yr	1.38	184.27	184.62	184.52	184.64	0.002438	0.64	3.44	25.46	0.37
Draper's	Draper's_W	4596	SCS10yr	1.58	184.27	184.63	184.53	184.65	0.002781	0.69	3.65	25.9	0.4
Draper's	Draper's_W	4596	SCS25yr	1.85	184.27	184.64	184.55	184.66	0.00337	0.78	3.86	26.85	0.44
Draper's	Draper's_W	4596	SCS50yr	2.05	184.27	184.64	184.55	184.67	0.004078	0.86	3.9	26.97	0.48
Draper's	Draper's_W	4596	SCS100yr	2.72	184.27	184.67	184.6	184.7	0.004654	0.97	4.68	28.14	0.52
Draper's	Draper's_W	4596	SCS200yr	5.08	184.27	184.8	184.69	184.83	0.003327	1.01	8.97	37.82	0.46
Draper's	Draper's_W	4596	RSnow100yr	1.53	184.27	184.62	184.53	184.64	0.002943	0.7	3.47	25.51	0.4
Draper's	Draper's_W	4543	SCS2yr	1.14	184.06	184.29	184.29	184.33	0.019583	0.95	1.48	17.27	0.89
Draper's	Draper's_W	4543	SCS5yr	1.38	184.06	184.3	184.3	184.35	0.020819	1.03	1.69	18.76	0.93
Draper's	Draper's_W	4543	SCS10yr	1.58	184.06	184.32	184.31	184.36	0.014315	0.94	2.19	25.17	0.79
Draper's	Draper's_W	4543	SCS25yr	1.85	184.06	184.36	184.32	184.39	0.008482	0.84	3.24	33.83	0.63
Draper's	Draper's_W	4543	SCS50yr	2.05	184.06	184.38	184.33	184.4	0.005764	0.75	4.11	34.66	0.53
Draper's	Draper's_W	4543	SCS100yr	2.72	184.06	184.42	184.36	184.44	0.005048	0.78	5.27	35.29	0.51
Draper's	Draper's_W	4543	SCS200yr	5.08	184.06	184.42	184.42	184.49	0.016425	1.42	5.39	35.36	0.92
Draper's	Draper's_W	4543	RSnow100yr	1.53	184.06	184.33	184.31	184.36	0.012228	0.88	2.28	26.36	0.73

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	4470	SCS2yr	1.51	183.6	184.06	183.84	184.07	0.001222	0.48	3.18	10.44	0.26
Draper's	Draper's_W	4470	SCS5yr	1.91	183.6	184.09	183.87	184.11	0.001424	0.55	3.53	11.09	0.29
Draper's	Draper's_W	4470	SCS10yr	2.24	183.6	184.12	183.89	184.14	0.001606	0.61	3.79	11.91	0.31
Draper's	Draper's_W	4470	SCS25yr	2.74	183.6	184.15	183.92	184.17	0.001851	0.69	4.18	13.04	0.34
Draper's	Draper's_W	4470	SCS50yr	3.16	183.6	184.17	183.95	184.2	0.002035	0.74	4.48	13.31	0.36
Draper's	Draper's_W	4470	SCS100yr	3.55	183.6	184.19	183.97	184.22	0.002193	0.8	4.75	13.55	0.37
Draper's	Draper's_W	4470	SCS200yr	6.53	183.6	184.31	184.1	184.37	0.003296	1.14	6.54	19.11	0.48
Draper's	Draper's_W	4470	RSnow100yr	2.36	183.6	184.12	183.9	184.14	0.001664	0.63	3.88	12.4	0.32
Draper's	Draper's_W	4364	SCS2yr	1.51	183.59	183.93	183.84	183.94	0.001313	0.43	6.74	50.45	0.26
Draper's	Draper's_W	4364	SCS5yr	1.91	183.59	183.96	183.86	183.96	0.001291	0.45	8	52.96	0.27
Draper's	Draper's_W	4364	SCS10yr	2.24	183.59	183.97	183.87	183.98	0.001269	0.47	9	53.36	0.27
Draper's	Draper's_W	4364	SCS25yr	2.74	183.59	184	183.89	184.01	0.001236	0.49	10.39	54.14	0.27
Draper's	Draper's_W	4364	SCS50yr	3.16	183.59	184.02	183.9	184.03	0.001217	0.5	11.51	55.51	0.27
Draper's	Draper's_W	4364	SCS100yr	3.55	183.59	184.04	183.9	184.04	0.001236	0.52	12.4	56.19	0.27
Draper's	Draper's_W	4364	SCS200yr	6.53	183.59	184.15	183.95	184.15	0.001222	0.61	18.76	71.32	0.28
Draper's	Draper's_W	4364	RSnow100yr	2.36	183.59	183.98	183.87	183.99	0.001265	0.47	9.31	53.49	0.27
Draper's	Draper's_W	4260	SCS2yr	1.51	183.5	183.79	183.68	183.79	0.001458	0.42	6.19	43.62	0.27
Draper's	Draper's_W	4260	SCS5yr	1.91	183.5	183.81	183.7	183.82	0.001479	0.45	7.23	44.82	0.28
Draper's	Draper's_W	4260	SCS10yr	2.24	183.5	183.83	183.71	183.84	0.00151	0.48	8.05	46.91	0.29
Draper's	Draper's_W	4260	SCS25yr	2.74	183.5	183.86	183.73	183.86	0.001491	0.5	9.4	50.36	0.29
Draper's	Draper's_W	4260	SCS50yr	3.16	183.5	183.88	183.74	183.89	0.001439	0.52	10.5	51.54	0.29
Draper's	Draper's_W	4260	SCS100yr	3.55	183.5	183.9	183.75	183.9	0.001448	0.54	11.45	53.91	0.29
Draper's	Draper's_W	4260	SCS200yr	6.53	183.5	184	183.8	184.01	0.001555	0.66	17.68	67.28	0.31
Draper's	Draper's_W	4260	RSnow100yr	2.36	183.5	183.84	183.72	183.84	0.001503	0.48	8.35	47.6	0.29
Draper's	Draper's_W	4168	SCS2yr	1.51	183.36	183.6	183.49	183.61	0.002827	0.54	4.6	33.36	0.37
Draper's	Draper's_W	4168	SCS5yr	1.91	183.36	183.63	183.5	183.64	0.002735	0.57	5.48	35.09	0.37
Draper's	Draper's_W	4168	SCS10yr	2.24	183.36	183.65	183.52	183.66	0.002622	0.59	6.23	35.93	0.37
Draper's	Draper's_W	4168	SCS25yr	2.74	183.36	183.68	183.53	183.69	0.002523	0.62	7.37	40.14	0.37
Draper's	Draper's_W	4168	SCS50yr	3.16	183.36	183.71	183.54	183.72	0.002489	0.66	8.48	46.08	0.37
Draper's	Draper's_W	4168	SCS100yr	3.55	183.36	183.72	183.56	183.73	0.002416	0.67	9.34	47.09	0.37
Draper's	Draper's_W	4168	SCS200yr	6.53	183.36	183.83	183.64	183.84	0.002209	0.77	15.15	72.19	0.37
Draper's	Draper's_W	4168	RSnow100yr	2.36	183.36	183.66	183.52	183.67	0.002583	0.6	6.5	36.45	0.37
Draper's	Draper's_W	4067	SCS2yr	1.51	182.84	183.29	183.19	183.31	0.003024	0.7	3.33	17.87	0.41
Draper's	Draper's_W	4067	SCS5yr	1.91	182.84	183.33	183.22	183.34	0.002916	0.75	4.02	19.99	0.41
Draper's	Draper's_W	4067	SCS10yr	2.24	182.84	183.35	183.24	183.37	0.002923	0.78	4.52	20.29	0.41
Draper's	Draper's_W	4067	SCS25yr	2.74	182.84	183.38	183.26	183.4	0.002952	0.83	5.19	20.73	0.42
Draper's	Draper's_W	4067	SCS50yr	3.16	182.84	183.41	183.28	183.43	0.002973	0.87	5.72	21.08	0.43
Draper's	Draper's_W	4067	SCS100yr	3.55	182.84	183.43	183.29	183.46	0.002982	0.9	6.21	22.06	0.43
Draper's	Draper's_W	4067	SCS200yr	6.53	182.84	183.56	183.39	183.59	0.002733	1.02	13.15	76.9	0.43
Draper's	Draper's_W	4067	RSnow100yr	2.36	182.84	183.36	183.25	183.38	0.002929	0.79	4.67	20.39	0.41
Draper's	Draper's_W	3987	SCS2yr	1.51	182.42	183.09	182.99	183.11	0.002064	0.74	4.18	23.32	0.35
Draper's	Draper's_W	3987	SCS5yr	1.91	182.42	183.14	183.01	183.15	0.002001	0.78	5.23	27.5	0.35
Draper's	Draper's_W	3987	SCS10yr	2.24	182.42	183.16	183.05	183.18	0.001961	0.8	6.02	29.35	0.35
Draper's	Draper's_W	3987	SCS25yr	2.74	182.42	183.2	183.07	183.22	0.001839	0.81	7.26	32.71	0.34
Draper's	Draper's_W	3987	SCS50yr	3.16	182.42	183.23	183.09	183.25	0.001838	0.83	8.19	35.53	0.34
Draper's	Draper's_W	3987	SCS100yr	3.55	182.42	183.26	183.1	183.27	0.001831	0.85	9.04	37.2	0.35
Draper's	Draper's_W	3987	SCS200yr	6.53	182.42	183.38	183.19	183.4	0.002028	1.02	14.45	47.63	0.37
Draper's	Draper's_W	3987	RSnow100yr	2.36	182.42	183.17	183.06	183.19	0.00194	0.8	6.29	29.89	0.35
Draper's	Draper's_W	3910	SCS2yr	1.51	182.31	182.94	182.78	182.96	0.002067	0.7	3.43	19.55	0.35
Draper's	Draper's_W	3910	SCS5yr	1.91	182.31	182.96	182.83	182.99	0.002423	0.79	3.99	23.01	0.38
Draper's	Draper's_W	3910	SCS10yr	2.24	182.31	182.98	182.86	183.01	0.002689	0.86	4.47	26.9	0.41
Draper's	Draper's_W	3910	SCS25yr	2.74	182.31	183.01		183.04	0.003039	0.95	5.37	31.61	0.44
Draper's	Draper's_W	3910	SCS50yr	3.16	182.31	183.03		183.07	0.003272	1.01	5.98	35.1	0.46
Draper's	Draper's_W	3910	SCS100yr	3.55	182.31	183.05		183.09	0.003283	1.04	6.84	38.86	0.46
Draper's	Draper's_W	3910	SCS200yr	6.53	182.31	183.16		183.2	0.003645	1.24	11.31	47.07	0.5
Draper's	Draper's_W	3910	RSnow100yr	2.36	182.31	182.99		183.01	0.002804	0.88	4.6	28.47	0.42
Draper's	Draper's_W	3823	SCS2yr	1.51	182.25	182.67	182.63	182.7	0.004683	0.83	3.46	36.05	0.5
Draper's	Draper's_W	3823	SCS5yr	1.91	182.25	182.71		182.73	0.003651	0.79	4.78	38.33	0.45
Draper's	Draper's_W	3823	SCS10yr	2.24	182.25	182.74		182.75	0.003135	0.77	5.87	39.98	0.42
Draper's	Draper's_W	3823	SCS25yr	2.74	182.25	182.77		182.79	0.002725	0.77	7.38	44.4	0.4
Draper's	Draper's_W	3823	SCS50yr	3.16	182.25	182.8		182.81	0.002496	0.77	8.55	47.97	0.38
Draper's	Draper's_W	3823	SCS100yr	3.55	182.25	182.82		182.83	0.002501	0.8	9.59	51.22	0.39
Draper's	Draper's_W	3823	SCS200yr	6.53	182.25	182.97		182.98	0.001669	0.8	18.3	68.72	0.33
Draper's	Draper's_W	3823	RSnow100yr	2.36	182.25	182.75		182.76	0.00294	0.76	6.25	40.47	0.41
Draper's	Draper's_W	3731	SCS2yr	1.51	181.87	182.53	182.27	182.54	0.000808	0.49	5.2	32.6	0.23
Draper's	Draper's_W	3731	SCS5yr	1.91	181.87	182.56	182.31	182.57	0.000945	0.55	6.18	37.23	0.25
Draper's	Draper's_W	3731	SCS10yr	2.24	181.87	182.58	182.36	182.59	0.001128	0.62	6.76	41.02	0.27
Draper's	Draper's_W	3731	SCS25yr	2.74	181.87	182.58	182.41	182.6	0.001584	0.73	6.98	42.04	0.32
Draper's	Draper's_W	3731	SCS50yr	3.16	181.87	182.6	182.45	182.62	0.00174	0.79	7.72	44.39	0.34
Draper's	Draper's_W	3731	SCS100yr	3.55	181.87	182.61	182.47	182.64	0.001862	0.83	8.41	47.74	0.35
Draper's	Draper's_W	3731	SCS200yr	6.53	181.87	182.6	182.6	182.69	0.007501	1.63	7.69	44.3	0.71
Draper's	Draper's_W	3731	RSnow100yr	2.36	181.87	182.56	182.37	182.58	0.001416	0.68	6.25	37.68	0.3
Draper's	Draper's_W	3662	SCS2yr	1.51	181.93	182.34	182.34	182.41	0.009358	1.26	1.95	26.68	0.72
Draper's	Draper's_W	3662	SCS5yr	1.91	181.93	182.39	182.39	182.44	0.007034	1.19	3.05	45.05	0.64
Draper's	Draper's_W	3662	SCS10yr	2.24	181.93	182.47	182.4	182.48	0.002475	0.81	5.91	97.94	0.39
Draper's	Draper's_W	3662	SCS25yr	2.74	181.93	182.52	182.42	182.52	0.000816	0.5	14.95	112.98	0.23
Draper's	Draper's_W	3662	SCS50yr	3.16	181.93	182.53	182.43	182.54	0.000872	0.53	16.38	114.4	0.24
Draper's	Draper's_W	3662	SCS100yr	3.55	181.93	182.55	182.44	182.56	0.000746	0.5	18.87	116.86	0.22
Draper's	Draper's_W	3662	SCS200yr	6.53	181.93	182.59	182.49	182.59	0.000121	0.21	64.03	249.98	0.09
Draper's	Draper's_W	3662	RSnow100yr	2.36	181.93	182.49	182.41	182.5	0.000962	0.53	12.28	108.29	0.25
Draper's	Draper's_W	3573	SCS2yr	1.51	181.78	182.2		182.2	0.000804	0.41	6.93	39.5	0.22
Draper's	Draper's_W	3573	SCS5yr	1.91	181.78	182.37		182.37	0.000184	0.26	15.46	72.65	0.11
Draper's	Draper's_W	3573	SCS10yr	2.24	181.78	182.45		182.45	0.000109	0.22	22.82	98.13	0.09
Draper's	Draper's_W	3573	SCS25yr	2.74	181.78	182.5		182.5	0.000106	0.23	27.74	104.41	0.09
Draper's	Draper's_W	3573	SCS50yr	3.16	181.78	182.51		182.51	0.000129	0.25	28.68	105.29	0.1
Draper's	Draper's_W	3573	SCS100yr	3.55	181.78	182.53		182.53	0.000134	0.26	30.96	106.79	0.1
Draper's	Draper's_W	3573	SCS200yr	6.53	181.78	182.57		182.57	0.000332	0.43	35.37	128.04	0.16
Draper's	Draper's_W	3573	RSnow100yr	2.36	181.78	182.48		182.48	0.000097	0.21	25.36	102.53	0.08
Draper's	Draper's_W	3480	SCS2yr	1.51	181.48	182.18	181.86	182.18	0.00009	0.18	21.74	98.48	0.08
Draper's	Draper's_W	3480	SCS5yr	1.91	181.48	182.36	181.88	182.36	0.000025	0.11	44.34	134.58	0.04
Draper's	Draper's_W	3480	SCS10yr	2.24	181.48	182.45	181.9	182.45	0.000017	0.1	56.22	139.79	0.04
Draper's	Draper's_W	3480	SCS25yr	2.74	181.48	182.5	181.93	182.5	0.000019	0.11	63.08	145.06	0.04
Draper's	Draper's_W	3480	SCS50yr	3.16	181.48	182.51	181.94	182.51	0.000023	0.12	64.27	145.52	0.04
Draper's	Draper's_W	3480	SCS100yr	3.55	181.48	182.53	181.97	182.53	0.000026	0.13	67.37	146.77	0.04
Draper's	Draper's_W	3480	SCS200yr	6.53	181.48	182.56	182.04	182.56	0.000072	0.22	72.03	149.56	0.08
Draper's	Draper's_W	3480	RSnow100yr	2.36	181.48	182.48	181.9	182.48	0.000016	0.1	59.82	143.69	0.04
Draper's	Draper's_W	3415	SCS2yr	1.51	181.46	182.18	181.65	182.18	0.000012	0.03	37.99	101.02	0.02
Draper's	Draper's_W	3415	SCS5yr	1.91	181.46	182.36	181.66	182.36	0.000006	0.03	62.19	173.59	0.01
Draper's	Draper's_W	3415	SCS10yr	2.24	181.46	182.45	181.67	182.45	0.000005	0.03	80	238.83	0.01
Draper's	Draper's_W	3415	SCS25yr	2.74	181.46	182.5	181.68	182.5	0.000005	0.04	92.24	270.01	0.01
Draper's	Draper's_W	3415	SCS50yr	3.16	181.46	182.51	181.69	182.51	0.000007	0.04	94.44	275.02	0.02
Draper's	Draper's_W	3415	SCS100yr	3.55	181.46	182.53	181.7	182.53	0.000008	0.04	100.42	292.39	0.02
Draper's	Draper's_W	3415	SCS200yr	6.53	181.46	182.56	181.74	182.56	0.000022	0.08	109.66	319.54	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	3415	RSnow100yr	2.36	181.46	182.47	181.68	182.47	0.000004	0.03	86.29	256.2	0.01
Draper's	Draper's_W	3394	SCS2yr	1.51	181.42	182.17	181.69	182.18	0.000097	0.21	6.04	298.02	0.08
Draper's	Draper's_W	3394	SCS5yr	1.91	181.42	182.36	181.72	182.36	0.000061	0.2	7.87	352.72	0.07
Draper's	Draper's_W	3394	SCS10yr	2.24	181.42	182.45	181.73	182.45	0.000007	0.07	39.87	375.63	0.02
Draper's	Draper's_W	3394	SCS25yr	2.74	181.42	182.5	181.76	182.5	0.000001	0.02	167.38	400.2	0.01
Draper's	Draper's_W	3394	SCS50yr	3.16	181.42	182.51	181.78	182.51	0.000001	0.02	170.62	402.82	0.01
Draper's	Draper's_W	3394	SCS100yr	3.55	181.42	182.53	181.8	182.53	0.000001	0.03	179.27	412.6	0.01
Draper's	Draper's_W	3394	SCS200yr	6.53	181.42	182.56	181.93	182.56	0.000002	0.04	191.83	423.23	0.01
Draper's	Draper's_W	3394	RSnow100yr	2.36	181.42	182.47	181.74	182.47	0	0.02	158.42	392.49	0.01
Draper's	Draper's_W	3384		Culvert									
Draper's	Draper's_W	3376	SCS2yr	2.44	181.41	182	181.77	182.02	0.000345	0.33	4.32	69.12	0.15
Draper's	Draper's_W	3376	SCS5yr	3.2	181.41	182.07	181.81	182.1	0.000335	0.35	5.1	79.44	0.15
Draper's	Draper's_W	3376	SCS10yr	3.87	181.41	182.14	181.85	182.17	0.000331	0.38	5.72	92.56	0.15
Draper's	Draper's_W	3376	SCS25yr	4.9	181.41	182.22	181.89	182.26	0.000332	0.41	6.56	110.46	0.16
Draper's	Draper's_W	3376	SCS50yr	5.79	181.41	182.34	181.93	182.34	0.000007	0.06	51.95	114.84	0.02
Draper's	Draper's_W	3376	SCS100yr	6.55	181.41	182.44	181.96	182.44	0.000004	0.06	64.48	121.62	0.02
Draper's	Draper's_W	3376	SCS200yr	9.56	181.41	182.08	182.08	182.34	0.002821	1.04	5.19	81.35	0.44
Draper's	Draper's_W	3376	RSnow100yr	4.2	181.41	182.16	181.86	182.2	0.00033	0.39	6	100.61	0.15
Draper's	Draper's_W	3359	SCS2yr	2.44	181.44	181.84	181.84	181.97	0.018836	1.61	1.52	5.72	0.99
Draper's	Draper's_W	3359	SCS5yr	3.2	181.44	181.89	181.89	182.05	0.017595	1.75	1.84	6.19	0.99
Draper's	Draper's_W	3359	SCS10yr	3.87	181.44	181.94	181.94	182.11	0.016495	1.85	2.13	6.66	0.98
Draper's	Draper's_W	3359	SCS25yr	4.9	181.44	182	182	182.2	0.014984	1.97	2.59	7.44	0.96
Draper's	Draper's_W	3359	SCS50yr	5.79	181.44	182.03	182.03	182.27	0.01628	2.16	2.85	8.62	1.01
Draper's	Draper's_W	3359	SCS100yr	6.55	181.44	182.01	182.01	182.34	0.02434	2.56	2.68	7.87	1.23
Draper's	Draper's_W	3359	SCS200yr	9.56	181.44	182.07	182.07	182.17	0.010559	1.83	9.15	42.67	0.83
Draper's	Draper's_W	3359	RSnow100yr	4.2	181.44	181.96	181.96	182.14	0.016079	1.9	2.27	6.92	0.98
Draper's	Draper's_W	3297	SCS2yr	2.44	181.18	181.57		181.57	0.002044	0.57	7.69	46.08	0.33
Draper's	Draper's_W	3297	SCS5yr	3.2	181.18	181.61		181.61	0.002066	0.62	9.5	48.72	0.34
Draper's	Draper's_W	3297	SCS10yr	3.87	181.18	181.63		181.64	0.002046	0.65	10.87	50.42	0.35
Draper's	Draper's_W	3297	SCS25yr	4.9	181.18	181.67		181.68	0.001979	0.68	12.82	51.43	0.35
Draper's	Draper's_W	3297	SCS50yr	5.79	181.18	181.7		181.71	0.001966	0.71	14.28	51.7	0.35
Draper's	Draper's_W	3297	SCS100yr	6.55	181.18	181.72		181.73	0.001984	0.74	15.4	51.91	0.35
Draper's	Draper's_W	3297	SCS200yr	9.56	181.18	181.8		181.81	0.00204	0.83	19.48	55.55	0.37
Draper's	Draper's_W	3297	RSnow100yr	4.2	181.18	181.65		181.66	0.002016	0.66	11.54	50.87	0.35
Draper's	Draper's_W	3219	SCS2yr	2.44	181.08	181.44	181.32	181.44	0.001389	0.48	8.72	67.92	0.28
Draper's	Draper's_W	3219	SCS5yr	3.2	181.08	181.47	181.33	181.48	0.001446	0.52	10.44	81.88	0.29
Draper's	Draper's_W	3219	SCS10yr	3.87	181.08	181.5	181.35	181.51	0.001499	0.56	11.91	91.64	0.3
Draper's	Draper's_W	3219	SCS25yr	4.9	181.08	181.53	181.37	181.54	0.001581	0.61	13.92	98.1	0.31
Draper's	Draper's_W	3219	SCS50yr	5.79	181.08	181.56	181.38	181.57	0.001636	0.65	15.55	114.14	0.32
Draper's	Draper's_W	3219	SCS100yr	6.55	181.08	181.58	181.4	181.59	0.001691	0.68	17	128.64	0.33
Draper's	Draper's_W	3219	SCS200yr	9.56	181.08	181.64	181.45	181.66	0.001875	0.79	22.01	170.25	0.35
Draper's	Draper's_W	3219	RSnow100yr	4.2	181.08	181.51	181.35	181.52	0.001536	0.58	12.6	94.12	0.3
Draper's	Draper's_W	3106	SCS2yr	2.44	180.97	181.27	181.18	181.27	0.001782	0.47	8.28	70.46	0.3
Draper's	Draper's_W	3106	SCS5yr	3.2	180.97	181.3	181.19	181.3	0.001857	0.51	10.32	82.63	0.32
Draper's	Draper's_W	3106	SCS10yr	3.87	180.97	181.32	181.21	181.33	0.001937	0.55	11.95	89.49	0.33
Draper's	Draper's_W	3106	SCS25yr	4.9	180.97	181.34	181.23	181.35	0.001972	0.59	14.29	96.54	0.33
Draper's	Draper's_W	3106	SCS50yr	5.79	180.97	181.37	181.25	181.38	0.001951	0.61	16.39	105.37	0.34
Draper's	Draper's_W	3106	SCS100yr	6.55	180.97	181.38	181.26	181.4	0.001936	0.63	18.23	114.54	0.34
Draper's	Draper's_W	3106	SCS200yr	9.56	180.97	181.45	181.31	181.46	0.001826	0.69	24.95	150.77	0.34
Draper's	Draper's_W	3106	RSnow100yr	4.2	180.97	181.32	181.22	181.33	0.00195	0.56	12.7	90.69	0.33
Draper's	Draper's_W	3008	SCS2yr	2.44	180.7	181.12	181	181.13	0.001235	0.47	10.37	94.72	0.26
Draper's	Draper's_W	3008	SCS5yr	3.2	180.7	181.16	181.03	181.16	0.001137	0.48	14.07	109.98	0.26
Draper's	Draper's_W	3008	SCS10yr	3.87	180.7	181.19	181.06	181.19	0.001023	0.48	17.04	113.74	0.25
Draper's	Draper's_W	3008	SCS25yr	4.9	180.7	181.22	181.07	181.23	0.000892	0.48	21.37	117.96	0.24
Draper's	Draper's_W	3008	SCS50yr	5.79	180.7	181.25	181.1	181.26	0.000801	0.47	25.07	121.48	0.23
Draper's	Draper's_W	3008	SCS100yr	6.55	180.7	181.28	181.12	181.28	0.000738	0.47	28.12	124.83	0.22
Draper's	Draper's_W	3008	SCS200yr	9.56	180.7	181.35	181.16	181.35	0.000738	0.51	36.66	135.8	0.22
Draper's	Draper's_W	3008	RSnow100yr	4.2	180.7	181.2	181.06	181.2	0.000978	0.48	18.44	114.73	0.24
Draper's	Draper's_W	2921	SCS2yr	2.44	180.64	180.98	180.86	181	0.001951	0.5	5.43	28.49	0.32
Draper's	Draper's_W	2921	SCS5yr	3.2	180.64	181.03	180.88	181.04	0.001921	0.55	6.64	30.89	0.32
Draper's	Draper's_W	2921	SCS10yr	3.87	180.64	181.06	180.9	181.07	0.001925	0.59	7.61	32.43	0.33
Draper's	Draper's_W	2921	SCS25yr	4.9	180.64	181.1	180.93	181.12	0.001954	0.64	9	36.07	0.34
Draper's	Draper's_W	2921	SCS50yr	5.79	180.64	181.14	180.95	181.16	0.001937	0.68	10.27	39.87	0.34
Draper's	Draper's_W	2921	SCS100yr	6.55	180.64	181.16	180.97	181.19	0.001962	0.71	11.31	45.53	0.35
Draper's	Draper's_W	2921	SCS200yr	9.56	180.64	181.19	181.03	181.23	0.00335	0.97	12.52	61.04	0.46
Draper's	Draper's_W	2921	RSnow100yr	4.2	180.64	181.07	180.91	181.09	0.001935	0.6	8.06	33.44	0.33
Draper's	Draper's_W	2818	SCS2yr	2.44	180.45	180.77	180.66	180.78	0.002371	0.49	5.26	29.02	0.34
Draper's	Draper's_W	2818	SCS5yr	3.2	180.45	180.8	180.68	180.81	0.002611	0.56	6.12	30.45	0.37
Draper's	Draper's_W	2818	SCS10yr	3.87	180.45	180.82	180.7	180.84	0.002728	0.61	6.89	31.61	0.38
Draper's	Draper's_W	2818	SCS25yr	4.9	180.45	180.85	180.72	180.87	0.003023	0.69	7.84	33.16	0.41
Draper's	Draper's_W	2818	SCS50yr	5.79	180.45	180.87	180.74	180.9	0.003398	0.76	8.49	35.52	0.44
Draper's	Draper's_W	2818	SCS100yr	6.55	180.45	180.89	180.76	180.92	0.003504	0.81	9.22	37.84	0.45
Draper's	Draper's_W	2818	SCS200yr	9.56	180.45	180.96	180.82	180.97	0.001862	0.67	27.01	129.79	0.34
Draper's	Draper's_W	2818	RSnow100yr	4.2	180.45	180.83	180.71	180.85	0.002748	0.63	7.28	32.03	0.39
Draper's	Draper's_W	2721	SCS2yr	2.44	180.28	180.57	180.45	180.57	0.001792	0.46	13.66	101.22	0.3
Draper's	Draper's_W	2721	SCS5yr	3.2	180.28	180.6	180.48	180.6	0.00173	0.49	16.65	104.32	0.3
Draper's	Draper's_W	2721	SCS10yr	3.87	180.28	180.62	180.49	180.63	0.001717	0.52	19.04	108.87	0.31
Draper's	Draper's_W	2721	SCS25yr	4.9	180.28	180.67	180.49	180.67	0.001444	0.52	24.01	122.61	0.29
Draper's	Draper's_W	2721	SCS50yr	5.79	180.28	180.71	180.53	180.71	0.001161	0.5	29.1	133.75	0.26
Draper's	Draper's_W	2721	SCS100yr	6.55	180.28	180.74	180.54	180.74	0.001072	0.51	32.96	143.07	0.26
Draper's	Draper's_W	2721	SCS200yr	9.56	180.28	180.81	180.56	180.81	0.001013	0.55	43.09	176.98	0.26
Draper's	Draper's_W	2721	RSnow100yr	4.2	180.28	180.63	180.49	180.64	0.001741	0.53	20.05	112.06	0.31
Draper's	Draper's_W	2647	SCS2yr	2.44	180.24	180.48	180.33	180.48	0.000923	0.26	20.2	144.59	0.2
Draper's	Draper's_W	2647	SCS5yr	3.2	180.24	180.48	180.35	180.48	0.001438	0.33	20.89	147.08	0.26
Draper's	Draper's_W	2647	SCS10yr	3.87	180.24	180.5	180.36	180.51	0.001418	0.36	24.29	157.58	0.26
Draper's	Draper's_W	2647	SCS25yr	4.9	180.24	180.62	180.37	180.62	0.000389	0.25	45.87	220.92	0.15
Draper's	Draper's_W	2647	SCS50yr	5.79	180.24	180.67	180.39	180.67	0.000275	0.24	57.98	226.64	0.13
Draper's	Draper's_W	2647	SCS100yr	6.55	180.24	180.7	180.39	180.7	0.000245	0.24	65.57	234.18	0.12
Draper's	Draper's_W	2647	SCS200yr	9.56	180.24	180.78	180.42	180.78	0.000263	0.28	83.74	259.57	0.13
Draper's	Draper's_W	2647	RSnow100yr	4.2	180.24	180.54	180.36	180.54	0.00085	0.31	30.78	180.56	0.21
Draper's	Draper's_W	2551	SCS2yr	2.44	180.04	180.26	180.19	180.27	0.002898	0.38	6.49	53.65	0.34
Draper's	Draper's_W	2551	SCS5yr	3.2	180.04	180.29	180.2	180.29	0.002831	0.41	7.77	54.84	0.35
Draper's	Draper's_W	2551	SCS10yr	3.87	180.04	180.45	180.21	180.45	0.00031	0.22	18.3	72.02	0.13
Draper's	Draper's_W	2551	SCS25yr	4.9	180.04	180.6	180.23	180.6	0.000122	0.18	30.1	85.18	0.09
Draper's	Draper's_W	2551	SCS50yr	5.79	180.04	180.65	180.25	180.65	0.000111	0.19	35.18	96.27	0.09
Draper's	Draper's_W	2551	SCS100yr	6.55	180.04	180.69	180.26	180.69	0.000113	0.2	38.52	103.46	0.09
Draper's	Draper's_W	2551	SCS200yr	9.56	180.04	180.75	180.29	180.76	0.000153	0.25	46.22	120.87	0.1
Draper's	Draper's_W	2551	RSnow100yr	4.2	180.04	180.51	180.22	180.51	0.000195	0.2	22.8	78.71	0.11
Draper's	Draper's_W	2476	SCS2yr	2.44	179.93	180.16	180.03	180.16	0.000865	0.23	17.35	154.68	0.19
Draper's	Draper's_W	2476	SCS5yr	3.2	179.93	180.23	180.05	180.23	0.000408	0.2	26.1	179.32	0.14
Draper's	Draper's_W	2476	SCS10yr	3.87	179.93	180.44	180.05	180.44	0.000034	0.09	78.73	247.49	0.05
Draper's	Draper's_W	2476	SCS25yr	4.9	179.93	180.59	180.06	180.59	0.000017	0.08	121.57	338.88	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	2476	SCS50yr	5.79	179.93	180.65	180.07	180.65	0.000016	0.08	141.39	353.75	0.03
Draper's	Draper's_W	2476	SCS100yr	6.55	179.93	180.68	180.08	180.68	0.000016	0.09	153.32	360.94	0.03
Draper's	Draper's_W	2476	SCS200yr	9.56	179.93	180.75	180.1	180.75	0.000022	0.11	178.36	366.91	0.04
Draper's	Draper's_W	2476	RSnow100yr	4.2	179.93	180.5	180.06	180.51	0.000024	0.09	94.35	270.82	0.04
Draper's	Draper's_W	2383	SCS2yr	3.1	179.77	180.05	179.89	180.05	0.00152	0.41	14.62	134.14	0.28
Draper's	Draper's_W	2383	SCS5yr	4.18	179.77	180.19	179.91	180.19	0.000296	0.25	38.8	163.55	0.13
Draper's	Draper's_W	2383	SCS10yr	5.15	179.77	180.44	179.91	180.44	0.000046	0.14	91.34	272.65	0.06
Draper's	Draper's_W	2383	SCS25yr	6.65	179.77	180.59	179.95	180.59	0.000026	0.12	136.51	319.22	0.04
Draper's	Draper's_W	2383	SCS50yr	7.98	179.77	180.65	179.97	180.65	0.000026	0.13	155.48	346.41	0.05
Draper's	Draper's_W	2383	SCS100yr	9.12	179.77	180.68	179.98	180.68	0.000028	0.14	167.24	357.21	0.05
Draper's	Draper's_W	2383	SCS200yr	12.1	179.77	180.75	180.01	180.75	0.000034	0.16	192.05	377.32	0.05
Draper's	Draper's_W	2383	RSnow100yr	5.66	179.77	180.5	179.94	180.5	0.000035	0.13	109.08	294.85	0.05
Draper's	Draper's_W	2297	SCS2yr	3.1	179.38	179.99	179.61	180	0.000353	0.32	19.67	71.79	0.15
Draper's	Draper's_W	2297	SCS5yr	4.18	179.38	180.18	179.64	180.18	0.00016	0.27	38.26	95.58	0.11
Draper's	Draper's_W	2297	SCS10yr	5.15	179.38	180.43	179.66	180.44	0.000061	0.21	77.41	231.47	0.07
Draper's	Draper's_W	2297	SCS25yr	6.65	179.38	180.59	179.67	180.59	0.00004	0.19	125.76	316.61	0.06
Draper's	Draper's_W	2297	SCS50yr	7.98	179.38	180.65	179.69	180.65	0.00004	0.19	144.28	329.37	0.06
Draper's	Draper's_W	2297	SCS100yr	9.12	179.38	180.68	179.71	180.68	0.000042	0.2	155.28	333.72	0.06
Draper's	Draper's_W	2297	SCS200yr	12.1	179.38	180.75	179.76	180.75	0.00005	0.23	177.95	339.81	0.07
Draper's	Draper's_W	2297	RSnow100yr	5.66	179.38	180.5	179.67	180.5	0.000056	0.21	92.61	246.54	0.07
Draper's	Draper's_W	2221	SCS2yr	3.1	179.06	179.99	179.23	179.99	0.000032	0.15	33.65	59.73	0.05
Draper's	Draper's_W	2221	SCS5yr	4.18	179.06	180.17	179.27	180.17	0.000027	0.16	44.89	63.3	0.05
Draper's	Draper's_W	2221	SCS10yr	5.15	179.06	180.43	179.29	180.43	0.000018	0.15	65.57	118.43	0.04
Draper's	Draper's_W	2221	SCS25yr	6.65	179.06	180.59	179.33	180.59	0.000017	0.16	97.75	280.79	0.04
Draper's	Draper's_W	2221	SCS50yr	7.98	179.06	180.64	179.36	180.64	0.000021	0.17	114.46	304.53	0.04
Draper's	Draper's_W	2221	SCS100yr	9.12	179.06	180.68	179.38	180.68	0.000024	0.19	124.66	317.68	0.05
Draper's	Draper's_W	2221	SCS200yr	12.1	179.06	180.74	179.45	180.74	0.000032	0.23	146.45	338.71	0.06
Draper's	Draper's_W	2221	RSnow100yr	5.66	179.06	180.5	179.3	180.5	0.000017	0.15	75.27	195.86	0.04
Draper's	Draper's_W	2171	SCS2yr	3.1	179.09	179.96	179.49	179.98	0.000796	0.68	4.63	49.67	0.25
Draper's	Draper's_W	2171	SCS5yr	4.18	179.09	180.13	179.55	180.16	0.000734	0.75	5.69	55.43	0.24
Draper's	Draper's_W	2171	SCS10yr	5.15	179.09	180.4	179.61	180.42	0.000492	0.72	7.28	148.24	0.21
Draper's	Draper's_W	2171	SCS25yr	6.65	179.09	180.59	179.69	180.59	0.000023	0.17	103.45	171.94	0.05
Draper's	Draper's_W	2171	SCS50yr	7.98	179.09	180.64	179.75	180.64	0.000027	0.19	113.42	177.75	0.05
Draper's	Draper's_W	2171	SCS100yr	9.12	179.09	180.67	179.81	180.68	0.000032	0.21	119.24	178.99	0.05
Draper's	Draper's_W	2171	SCS200yr	12.1	179.09	180.74	179.93	180.74	0.000045	0.26	131.3	188.45	0.07
Draper's	Draper's_W	2171	RSnow100yr	5.66	179.09	180.46	179.63	180.49	0.000505	0.75	7.64	157.39	0.21
Draper's	Draper's_W	2157		Bridge									
Draper's	Draper's_W	2141	SCS2yr	3.1	179.06	179.44	179.44	179.59	0.018464	1.72	1.79	59.77	1
Draper's	Draper's_W	2141	SCS5yr	4.18	179.06	179.5	179.5	179.69	0.016956	1.89	2.2	65.66	1
Draper's	Draper's_W	2141	SCS10yr	5.15	179.06	179.56	179.56	179.78	0.0159	2.01	2.54	67.4	0.99
Draper's	Draper's_W	2141	SCS25yr	6.65	179.06	179.64	179.64	179.9	0.01466	2.18	3.03	69.7	0.98
Draper's	Draper's_W	2141	SCS50yr	7.98	179.06	179.71	179.71	180	0.014	2.31	3.43	71.37	0.97
Draper's	Draper's_W	2141	SCS100yr	9.12	179.06	179.76	179.76	180.08	0.01371	2.42	3.74	72.95	0.98
Draper's	Draper's_W	2141	SCS200yr	12.1	179.06	179.9	179.9	180.28	0.01252	2.64	4.55	76.76	0.97
Draper's	Draper's_W	2141	RSnow100yr	5.66	179.06	179.59	179.59	179.82	0.015535	2.08	2.7	68.62	0.99
Draper's	Draper's_W	2124	SCS2yr	3.1	179.01	179.31	179.14	179.32	0.001415	0.45	9.57	43.84	0.28
Draper's	Draper's_W	2124	SCS5yr	4.18	179.01	179.36	179.17	179.37	0.001519	0.52	11.83	49.08	0.29
Draper's	Draper's_W	2124	SCS10yr	5.15	179.01	179.4	179.19	179.41	0.001571	0.57	13.63	51.39	0.3
Draper's	Draper's_W	2124	SCS25yr	6.65	179.01	179.45	179.22	179.46	0.001569	0.62	16.22	53.45	0.31
Draper's	Draper's_W	2124	SCS50yr	7.98	179.01	179.49	179.24	179.5	0.001567	0.66	18.49	59.36	0.32
Draper's	Draper's_W	2124	SCS100yr	9.12	179.01	179.52	179.26	179.53	0.001579	0.7	20.46	64.51	0.32
Draper's	Draper's_W	2124	SCS200yr	12.1	179.01	179.6	179.3	179.61	0.001694	0.8	26.04	75.43	0.34
Draper's	Draper's_W	2124	RSnow100yr	5.66	179.01	179.41	179.2	179.42	0.00156	0.59	14.53	52.34	0.31
Draper's	Draper's_W	2073	SCS2yr	3.1	178.9	179.25	179.07	179.26	0.00095	0.42	10.36	39.4	0.23
Draper's	Draper's_W	2073	SCS5yr	4.18	178.9	179.3	179.1	179.3	0.001113	0.49	11.99	40.42	0.26
Draper's	Draper's_W	2073	SCS10yr	5.15	178.9	179.33	179.12	179.34	0.001257	0.55	13.23	41.13	0.28
Draper's	Draper's_W	2073	SCS25yr	6.65	178.9	179.37	179.14	179.38	0.001418	0.63	15.03	41.93	0.3
Draper's	Draper's_W	2073	SCS50yr	7.98	178.9	179.41	179.17	179.42	0.001518	0.68	16.59	42.79	0.31
Draper's	Draper's_W	2073	SCS100yr	9.12	178.9	179.43	179.18	179.45	0.001637	0.74	17.75	44.03	0.33
Draper's	Draper's_W	2073	SCS200yr	12.1	178.9	179.5	179.22	179.52	0.001891	0.86	20.7	47.61	0.36
Draper's	Draper's_W	2073	RSnow100yr	5.66	178.9	179.34	179.13	179.35	0.001314	0.58	13.87	41.43	0.29
Draper's	Draper's_W	2011	SCS2yr	3.1	178.81	179.21	178.98	179.22	0.00051	0.33	12.93	44.94	0.17
Draper's	Draper's_W	2011	SCS5yr	4.18	178.81	179.24	179.01	179.25	0.000711	0.4	14.26	47.82	0.21
Draper's	Draper's_W	2011	SCS10yr	5.15	178.81	179.26	179.03	179.27	0.000919	0.47	15.16	48.64	0.24
Draper's	Draper's_W	2011	SCS25yr	6.65	178.81	179.29	179.05	179.3	0.001171	0.56	16.63	50.07	0.27
Draper's	Draper's_W	2011	SCS50yr	7.98	178.81	179.32	179.07	179.33	0.001304	0.62	18.12	50.77	0.29
Draper's	Draper's_W	2011	SCS100yr	9.12	178.81	179.34	179.09	179.35	0.00151	0.68	18.91	51.47	0.31
Draper's	Draper's_W	2011	SCS200yr	12.1	178.81	179.38	179.13	179.4	0.00188	0.81	21.26	52.86	0.36
Draper's	Draper's_W	2011	RSnow100yr	5.66	178.81	179.27	179.04	179.28	0.000992	0.5	15.74	49.13	0.25
Draper's	Draper's_W	1922	SCS2yr	3.1	178.67	179.2	178.84	179.2	0.000081	0.16	33.3	105.96	0.07
Draper's	Draper's_W	1922	SCS5yr	4.18	178.67	179.22	178.85	179.23	0.000135	0.22	35.67	109.33	0.1
Draper's	Draper's_W	1922	SCS10yr	5.15	178.67	179.24	178.87	179.24	0.000183	0.26	37.05	110.41	0.11
Draper's	Draper's_W	1922	SCS25yr	6.65	178.67	179.26	178.88	179.26	0.000251	0.31	39.49	111.32	0.13
Draper's	Draper's_W	1922	SCS50yr	7.98	178.67	179.28	178.91	179.29	0.000295	0.34	42.26	112.49	0.14
Draper's	Draper's_W	1922	SCS100yr	9.12	178.67	179.29	178.92	179.29	0.00037	0.39	43.06	112.72	0.16
Draper's	Draper's_W	1922	SCS200yr	12.1	178.67	179.32	178.95	179.33	0.000512	0.47	46.5	113.47	0.19
Draper's	Draper's_W	1922	RSnow100yr	5.66	178.67	179.25	178.87	179.25	0.000202	0.27	38.12	110.79	0.12
Draper's	Draper's_W	1874	SCS2yr	3.1	177.99	179.2	178.8	179.2	0.000004	0.05	72.63	161.25	0.02
Draper's	Draper's_W	1874	SCS5yr	4.18	177.99	179.22	178.9	179.22	0.000006	0.06	76.16	161.79	0.02
Draper's	Draper's_W	1874	SCS10yr	5.15	177.99	179.24	178.97	179.24	0.000008	0.07	78.18	162.14	0.02
Draper's	Draper's_W	1874	SCS25yr	6.65	177.99	179.26	179.06	179.26	0.000012	0.08	81.74	163.12	0.03
Draper's	Draper's_W	1874	SCS50yr	7.98	177.99	179.28	179.06	179.28	0.000015	0.1	85.76	163.6	0.03
Draper's	Draper's_W	1874	SCS100yr	9.12	177.99	179.29	179.06	179.29	0.000019	0.11	86.89	163.74	0.04
Draper's	Draper's_W	1874	SCS200yr	12.1	177.99	179.32	179.06	179.32	0.000027	0.13	91.82	164.85	0.04
Draper's	Draper's_W	1874	RSnow100yr	5.66	177.99	179.25	179	179.25	0.000009	0.07	79.74	162.52	0.03
Draper's	Draper's_W	1868		Culvert									
Draper's	Draper's_W	1860	SCS2yr	3.1	177.95	178.82	178.5	178.83	0.000207	0.26	11.37	73.54	0.11
Draper's	Draper's_W	1860	SCS5yr	4.18	177.95	178.88	178.6	178.88	0.000137	0.23	15.98	82.9	0.09
Draper's	Draper's_W	1860	SCS10yr	5.15	177.95	178.93	178.67	178.93	0.000105	0.21	20.06	89.44	0.08
Draper's	Draper's_W	1860	SCS25yr	6.65	177.95	178.99	178.76	178.99	0.000087	0.2	25.43	94.76	0.08
Draper's	Draper's_W	1860	SCS50yr	7.98	177.95	179.03	178.81	179.04	0.000074	0.2	29.95	98.38	0.07
Draper's	Draper's_W	1860	SCS100yr	9.12	177.95	179.07	178.81	179.07	0.000067	0.19	33.54	100.83	0.07
Draper's	Draper's_W	1860	SCS200yr	12.1	177.95	179.15	178.81	179.15	0.000057	0.19	45.45	129.91	0.07
Draper's	Draper's_W	1860	RSnow100yr	5.66	177.95	178.95	178.7	178.95	0.000096	0.2	21.88	90.85	0.08
Draper's	Draper's_W	1843	SCS2yr	3.1	178.48	178.82	178.61	178.82	0.00027	0.2	16.6	75.17	0.12
Draper's	Draper's_W	1843	SCS5yr	4.18	178.48	178.88	178.63	178.88	0.00022	0.21	21.27	83.29	0.11
Draper's	Draper's_W	1843	SCS10yr	5.15	178.48	178.92	178.65	178.93	0.000194	0.21	25.34	88.57	0.11
Draper's	Draper's_W	1843	SCS25yr	6.65	178.48	178.98	178.67	178.99	0.00018	0.22	30.63	94.23	0.11
Draper's	Draper's_W	1843	SCS50yr	7.98	178.48	179.03	178.68	179.03	0.000172	0.23	35.18	98.17	0.11
Draper's	Draper's_W	1843	SCS100yr	9.12	178.48	179.07	178.71	179.07	0.000168	0.24	38.77	101.38	0.11
Draper's	Draper's_W	1843	SCS200yr	12.1	178.48	179.15	178.72	179.15	0.000169	0.27	47.09	110.44	0.11
Draper's	Draper's_W	1843	RSnow100yr	5.66	178.48	178.95	178.65	178.95	0.000188	0.22	27.15	89.69	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	1785	SCS2yr	3.1	178.31	178.8	178.56	178.8	0.000555	0.39	17.96	58.83	0.19
Draper's	Draper's_W	1785	SCS5yr	4.18	178.31	178.86	178.59	178.86	0.000591	0.44	21.6	63.09	0.2
Draper's	Draper's_W	1785	SCS10yr	5.15	178.31	178.9	178.61	178.91	0.000604	0.47	24.69	64.18	0.2
Draper's	Draper's_W	1785	SCS25yr	6.65	178.31	178.96	178.65	178.97	0.000657	0.53	28.49	66.45	0.22
Draper's	Draper's_W	1785	SCS50yr	7.98	178.31	179.01	178.68	179.02	0.000701	0.57	31.62	68.4	0.22
Draper's	Draper's_W	1785	SCS100yr	9.12	178.31	179.04	178.69	179.05	0.000735	0.6	34.07	69.56	0.23
Draper's	Draper's_W	1785	SCS200yr	12.1	178.31	179.12	178.76	179.13	0.000833	0.69	39.57	73.76	0.25
Draper's	Draper's_W	1785	RSnow100yr	5.66	178.31	178.92	178.62	178.93	0.000625	0.49	25.99	65.42	0.21
Draper's	Draper's_W	1704	SCS2yr	3.1	178.29	178.76	178.45	178.77	0.000314	0.29	13.6	39.97	0.14
Draper's	Draper's_W	1704	SCS5yr	4.18	178.29	178.82	178.48	178.82	0.000374	0.34	15.86	42.44	0.16
Draper's	Draper's_W	1704	SCS10yr	5.15	178.29	178.86	178.5	178.87	0.000412	0.38	17.84	44.83	0.17
Draper's	Draper's_W	1704	SCS25yr	6.65	178.29	178.91	178.53	178.92	0.000493	0.44	20.29	49.53	0.18
Draper's	Draper's_W	1704	SCS50yr	7.98	178.29	178.96	178.55	178.97	0.000551	0.49	22.38	53.59	0.2
Draper's	Draper's_W	1704	SCS100yr	9.12	178.29	178.99	178.58	179	0.000597	0.53	24.16	62.03	0.21
Draper's	Draper's_W	1704	SCS200yr	12.1	178.29	179.06	178.62	179.07	0.000683	0.6	31.88	107.76	0.23
Draper's	Draper's_W	1704	RSnow100yr	5.66	178.29	178.88	178.51	178.89	0.000445	0.4	18.65	47.56	0.17
Draper's	Draper's_W	1654	SCS2yr	3.1	178.35	178.63	178.63	178.71	0.017503	1.27	2.84	20.82	0.92
Draper's	Draper's_W	1654	SCS5yr	4.18	178.35	178.67	178.67	178.76	0.015474	1.36	3.81	26.4	0.89
Draper's	Draper's_W	1654	SCS10yr	5.15	178.35	178.7	178.7	178.8	0.0157	1.47	4.58	30.25	0.91
Draper's	Draper's_W	1654	SCS25yr	6.65	178.35	178.75	178.75	178.84	0.012749	1.49	6.22	35.81	0.85
Draper's	Draper's_W	1654	SCS50yr	7.98	178.35	178.78	178.78	178.88	0.012771	1.57	7.24	38.31	0.86
Draper's	Draper's_W	1654	SCS100yr	9.12	178.35	178.8	178.8	178.9	0.013011	1.65	8	39.62	0.88
Draper's	Draper's_W	1654	SCS200yr	12.1	178.35	178.85	178.85	178.97	0.012259	1.76	10.23	42.28	0.87
Draper's	Draper's_W	1654	RSnow100yr	5.66	178.35	178.73	178.73	178.81	0.012971	1.42	5.39	33.65	0.84
Draper's	Draper's_W	1579	SCS2yr	3.1	177.73	178.18	178.05	178.2	0.002381	0.65	7.14	32.98	0.37
Draper's	Draper's_W	1579	SCS5yr	4.18	177.73	178.24	178.07	178.26	0.002209	0.71	9.23	35.22	0.36
Draper's	Draper's_W	1579	SCS10yr	5.15	177.73	178.29	178.12	178.31	0.00212	0.75	10.91	36.24	0.36
Draper's	Draper's_W	1579	SCS25yr	6.65	177.73	178.36	178.16	178.38	0.002029	0.8	13.45	39.63	0.36
Draper's	Draper's_W	1579	SCS50yr	7.98	177.73	178.38	178.18	178.41	0.002374	0.9	14.52	41.81	0.4
Draper's	Draper's_W	1579	SCS100yr	9.12	177.73	178.41	178.21	178.45	0.002506	0.96	15.67	44.57	0.41
Draper's	Draper's_W	1579	SCS200yr	12.1	177.73	178.49	178.27	178.54	0.002595	1.07	19.15	60.37	0.43
Draper's	Draper's_W	1579	RSnow100yr	5.66	177.73	178.31	178.13	178.34	0.002091	0.77	11.79	37.94	0.36
Draper's	Draper's_W	1515	SCS2yr	3.1	177.63	178.09	177.88	178.1	0.001065	0.48	7.56	48.45	0.25
Draper's	Draper's_W	1515	SCS5yr	4.18	177.63	178.15	177.91	178.17	0.001127	0.55	9.32	53.95	0.27
Draper's	Draper's_W	1515	SCS10yr	5.15	177.63	178.2	177.94	178.22	0.001176	0.6	10.79	58.13	0.28
Draper's	Draper's_W	1515	SCS25yr	6.65	177.63	178.27	177.98	178.29	0.001221	0.66	12.97	66.71	0.29
Draper's	Draper's_W	1515	SCS50yr	7.98	177.63	178.32	178.01	178.33	0.00085	0.59	23.15	76.89	0.24
Draper's	Draper's_W	1515	SCS100yr	9.12	177.63	178.34	178.04	178.36	0.000964	0.64	24.85	80.28	0.26
Draper's	Draper's_W	1515	SCS200yr	12.1	177.63	178.43	178.1	178.44	0.000913	0.68	32.13	84.28	0.26
Draper's	Draper's_W	1515	RSnow100yr	5.66	177.63	178.22	177.95	178.24	0.001182	0.62	11.59	59.82	0.28
Draper's	Draper's_W	1427	SCS2yr	3.1	177.52	177.95		177.97	0.00265	0.74	8.14	35.43	0.4
Draper's	Draper's_W	1427	SCS5yr	4.18	177.52	178		178.03	0.002603	0.81	10.25	37.88	0.4
Draper's	Draper's_W	1427	SCS10yr	5.15	177.52	178.05		178.07	0.00257	0.87	12.04	40.69	0.41
Draper's	Draper's_W	1427	SCS25yr	6.65	177.52	178.11		178.14	0.002586	0.95	14.73	45.2	0.42
Draper's	Draper's_W	1427	SCS50yr	7.98	177.52	178.16		178.19	0.00255	0.99	16.94	47.06	0.42
Draper's	Draper's_W	1427	SCS100yr	9.12	177.52	178.2		178.23	0.002488	1.03	18.91	53.11	0.42
Draper's	Draper's_W	1427	SCS200yr	12.1	177.52	178.29		178.32	0.002473	1.12	24.11	64.45	0.43
Draper's	Draper's_W	1427	RSnow100yr	5.66	177.52	178.07		178.1	0.002586	0.9	12.96	42.96	0.41
Draper's	Draper's_W	1344	SCS2yr	3.1	177.31	177.74	177.6	177.76	0.002589	0.7	7.11	29.17	0.39
Draper's	Draper's_W	1344	SCS5yr	4.18	177.31	177.8	177.64	177.82	0.002539	0.77	8.88	32.13	0.39
Draper's	Draper's_W	1344	SCS10yr	5.15	177.31	177.84	177.66	177.87	0.002475	0.82	10.51	34.84	0.39
Draper's	Draper's_W	1344	SCS25yr	6.65	177.31	177.9	177.7	177.93	0.002518	0.9	12.6	36.43	0.41
Draper's	Draper's_W	1344	SCS50yr	7.98	177.31	177.95	177.74	177.98	0.002537	0.96	14.35	37.7	0.41
Draper's	Draper's_W	1344	SCS100yr	9.12	177.31	177.99	177.76	178.02	0.002535	1.01	15.87	40.96	0.42
Draper's	Draper's_W	1344	SCS200yr	12.1	177.31	178.07	177.82	178.11	0.002613	1.12	19.86	60.68	0.43
Draper's	Draper's_W	1344	RSnow100yr	5.66	177.31	177.86	177.68	177.89	0.002493	0.85	11.23	35.47	0.4
Draper's	Draper's_W	1277	SCS2yr	3.1	177.09	177.53	177.41	177.55	0.003701	0.86	6.37	26.88	0.46
Draper's	Draper's_W	1277	SCS5yr	4.18	177.09	177.58	177.45	177.61	0.003717	0.95	7.95	28.72	0.48
Draper's	Draper's_W	1277	SCS10yr	5.15	177.09	177.63	177.48	177.67	0.003717	1.02	9.47	33.29	0.49
Draper's	Draper's_W	1277	SCS25yr	6.65	177.09	177.69	177.53	177.73	0.003727	1.11	11.46	36.07	0.5
Draper's	Draper's_W	1277	SCS50yr	7.98	177.09	177.74	177.56	177.78	0.00362	1.17	13.33	38.53	0.5
Draper's	Draper's_W	1277	SCS100yr	9.12	177.09	177.8	177.58	177.84	0.003019	1.14	15.86	42.01	0.46
Draper's	Draper's_W	1277	SCS200yr	12.1	177.09	177.85	177.67	177.9	0.003931	1.37	17.81	44.12	0.53
Draper's	Draper's_W	1277	RSnow100yr	5.66	177.09	177.65	177.49	177.69	0.003698	1.05	10.17	34.24	0.49
Draper's	Draper's_W	1235	SCS2yr	3.1	176.97	177.43	177.27	177.44	0.002	0.7	8.19	31.51	0.35
Draper's	Draper's_W	1235	SCS5yr	4.18	176.97	177.48	177.31	177.5	0.002158	0.79	9.94	34.63	0.37
Draper's	Draper's_W	1235	SCS10yr	5.15	176.97	177.52	177.34	177.55	0.002311	0.87	11.57	38.32	0.39
Draper's	Draper's_W	1235	SCS25yr	6.65	176.97	177.58	177.38	177.61	0.002476	0.96	13.71	41.91	0.41
Draper's	Draper's_W	1235	SCS50yr	7.98	176.97	177.64	177.41	177.66	0.002245	0.98	16.3	45	0.4
Draper's	Draper's_W	1235	SCS100yr	9.12	176.97	177.73	177.44	177.75	0.001591	0.9	20.58	50.28	0.34
Draper's	Draper's_W	1235	SCS200yr	12.1	176.97	177.73	177.49	177.76	0.002859	1.21	20.42	50	0.46
Draper's	Draper's_W	1235	RSnow100yr	5.66	176.97	177.55	177.35	177.57	0.002341	0.9	12.36	39.42	0.4
Draper's	Draper's_W	1198	SCS2yr	3.1	176.89	177.43	177.04	177.43	0.000111	0.18	31.91	80.42	0.08
Draper's	Draper's_W	1198	SCS5yr	4.18	176.89	177.48	177.06	177.48	0.000135	0.22	36.31	82.13	0.1
Draper's	Draper's_W	1198	SCS10yr	5.15	176.89	177.53	177.08	177.53	0.000151	0.24	40.12	83.84	0.1
Draper's	Draper's_W	1198	SCS25yr	6.65	176.89	177.58	177.1	177.58	0.00018	0.28	44.65	85.02	0.11
Draper's	Draper's_W	1198	SCS50yr	7.98	176.89	177.64	177.12	177.64	0.000191	0.31	49.8	89.21	0.12
Draper's	Draper's_W	1198	SCS100yr	9.12	176.89	177.73	177.13	177.73	0.000155	0.3	58.01	91.76	0.11
Draper's	Draper's_W	1198	SCS200yr	12.1	176.89	177.73	177.17	177.73	0.000276	0.4	57.76	91.58	0.15
Draper's	Draper's_W	1198	RSnow100yr	5.66	176.89	177.55	177.09	177.55	0.00016	0.26	41.86	84.29	0.11
Draper's	Draper's_W	1143	SCS2yr	3.86	176.8	177.41	177.06	177.42	0.000273	0.3	16.25	46.08	0.13
Draper's	Draper's_W	1143	SCS5yr	5.31	176.8	177.46	177.09	177.47	0.000362	0.36	18.58	47.23	0.16
Draper's	Draper's_W	1143	SCS10yr	6.63	176.8	177.5	177.12	177.51	0.000429	0.41	20.63	49.46	0.17
Draper's	Draper's_W	1143	SCS25yr	8.67	176.8	177.55	177.15	177.56	0.00055	0.49	23.01	50.9	0.2
Draper's	Draper's_W	1143	SCS50yr	10.49	176.8	177.61	177.18	177.62	0.000585	0.54	25.91	52.28	0.21
Draper's	Draper's_W	1143	SCS100yr	12.07	176.8	177.7	177.21	177.71	0.000477	0.53	31.02	55.68	0.19
Draper's	Draper's_W	1143	SCS200yr	15.6	176.8	177.68	177.26	177.7	0.000901	0.71	29.67	54.68	0.26
Draper's	Draper's_W	1143	RSnow100yr	7.39	176.8	177.52	177.13	177.53	0.000474	0.45	21.55	50.01	0.18
Draper's	Draper's_W	1096	SCS2yr	3.86	176.71	177.41	176.91	177.41	0.000056	0.16	34.97	72.12	0.06
Draper's	Draper's_W	1096	SCS5yr	5.31	176.71	177.46	176.94	177.46	0.00008	0.2	38.51	73.03	0.08
Draper's	Draper's_W	1096	SCS10yr	6.63	176.71	177.5	176.95	177.5	0.000099	0.23	41.57	73.85	0.09
Draper's	Draper's_W	1096	SCS25yr	8.67	176.71	177.55	176.98	177.55	0.000135	0.28	45	75.52	0.1
Draper's	Draper's_W	1096	SCS50yr	10.49	176.71	177.6	177	177.61	0.000153	0.31	49.28	78.07	0.11
Draper's	Draper's_W	1096	SCS100yr	12.07	176.71	177.7	177.03	177.7	0.000136	0.31	57.05	84.08	0.1
Draper's	Draper's_W	1096	SCS200yr	15.6	176.71	177.67	177.06	177.68	0.000256	0.42	54.64	82.35	0.14
Draper's	Draper's_W	1096	RSnow100yr	7.39	176.71	177.52	176.96	177.52	0.000112	0.25	42.89	74.2	0.09
Draper's	Draper's_W	998	SCS2yr	3.86	176.34	177.41	176.59	177.41	0.000036	0.17	38.46	76.97	0.05
Draper's	Draper's_W	998	SCS5yr	5.31	176.34	177.45	176.63	177.45	0.000056	0.22	41.5	80.11	0.07
Draper's	Draper's_W	998	SCS10yr	6.63	176.34	177.49	176.66	177.49	0.000075	0.26	44.42	94.54	0.08
Draper's	Draper's_W	998	SCS25yr	8.67	176.34	177.53	176.71	177.54	0.000109	0.32	48.05	105.23	0.1
Draper's	Draper's_W	998	SCS50yr	10.49	176.34	177.59	176.75	177.59	0.000119	0.35	57.08	109.07	0.1
Draper's	Draper's_W	998	SCS100yr	12.07	176.34	177.69	176.78	177.69	0.000097	0.33	73.69	137.7	0.09
Draper's	Draper's_W	998	SCS200yr	15.6	176.34	177.65	176.85	177.65	0.000193	0.46	68.34	134.96	0.13

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	998	RSnow100yr	7.39	176.34	177.51	176.69	177.51	0.000088	0.29	45.78	97.56	0.09
Draper's	Draper's_W	955	SCS2yr	3.86	176.18	177.4	176.47	177.4	0.000016	0.13	50.78	91.28	0.04
Draper's	Draper's_W	955	SCS5yr	5.31	176.18	177.45	176.53	177.45	0.000026	0.17	53.75	102.04	0.05
Draper's	Draper's_W	955	SCS10yr	6.63	176.18	177.49	176.58	177.49	0.000026	0.17	71.53	118.6	0.05
Draper's	Draper's_W	955	SCS25yr	8.67	176.18	177.53	176.66	177.53	0.000038	0.21	76.66	125.86	0.06
Draper's	Draper's_W	955	SCS50yr	10.49	176.18	177.59	176.72	177.59	0.000045	0.23	83.87	136.92	0.06
Draper's	Draper's_W	955	SCS100yr	12.07	176.18	177.69	176.76	177.69	0.000036	0.22	110.65	213.52	0.06
Draper's	Draper's_W	955	SCS200yr	15.6	176.18	177.64	176.87	177.65	0.000074	0.31	101.98	207.82	0.08
Draper's	Draper's_W	955	RSnow100yr	7.39	176.18	177.51	176.61	177.51	0.00003	0.18	73.5	121.55	0.05
Draper's	Draper's_W	943		Culvert									
Draper's	Draper's_W	931	SCS2yr	3.86	176.16	177.06	176.86	177.13	0.002211	1.03	3.4	49.46	0.39
Draper's	Draper's_W	931	SCS5yr	5.31	176.16	177.14	176.92	177.25	0.002425	1.16	4.02	57.29	0.42
Draper's	Draper's_W	931	SCS10yr	6.63	176.16	177.31	176.98	177.32	0.000108	0.28	17.67	81.2	0.09
Draper's	Draper's_W	931	SCS25yr	8.67	176.16	177.46	177.13	177.46	0.000044	0.19	43.75	146.54	0.06
Draper's	Draper's_W	931	SCS50yr	10.49	176.16	177.58	177.15	177.58	0.000024	0.16	62.93	155.55	0.04
Draper's	Draper's_W	931	SCS100yr	12.07	176.16	177.68	177.15	177.69	0.000016	0.13	79.08	156.77	0.04
Draper's	Draper's_W	931	SCS200yr	15.6	176.16	177.61	177.15	177.61	0.000043	0.21	67.35	155.91	0.06
Draper's	Draper's_W	931	RSnow100yr	7.39	176.16	177.36	177.03	177.37	0.000086	0.26	21.8	114.63	0.08
Draper's	Draper's_W	913	SCS2yr	3.86	176.01	177.01	176.71	177.08	0.003575	1.16	3.33	16.66	0.47
Draper's	Draper's_W	913	SCS5yr	5.31	176.01	177.08	176.82	177.19	0.00475	1.43	3.72	19.37	0.55
Draper's	Draper's_W	913	SCS10yr	6.63	176.01	177.13	176.91	177.27	0.005942	1.67	3.98	20.8	0.62
Draper's	Draper's_W	913	SCS25yr	8.67	176.01	177.2	177.03	177.4	0.0074	1.98	4.4	22.78	0.7
Draper's	Draper's_W	913	SCS50yr	10.49	176.01	177.26	177.13	177.51	0.008368	2.21	4.77	24.32	0.76
Draper's	Draper's_W	913	SCS100yr	12.07	176.01	177.31	177.21	177.6	0.008981	2.38	5.1	25.14	0.79
Draper's	Draper's_W	913	SCS200yr	15.6	176.01	177.54	177.39	177.6	0.001964	1.29	17.61	28.31	0.38
Draper's	Draper's_W	913	RSnow100yr	7.39	176.01	177.16	176.96	177.32	0.006523	1.79	4.14	21.63	0.65
Draper's	Draper's_W	861	SCS2yr	3.86	176.03	176.56	176.56	176.71	0.01938	1.69	2.28	7.83	1
Draper's	Draper's_W	861	SCS5yr	5.31	176.03	176.7	176.64	176.82	0.011702	1.52	3.49	9.67	0.81
Draper's	Draper's_W	861	SCS10yr	6.63	176.03	176.82	176.7	176.92	0.007304	1.42	4.68	10.79	0.67
Draper's	Draper's_W	861	SCS25yr	8.67	176.03	176.97	176.78	177.07	0.004612	1.38	6.57	13.12	0.56
Draper's	Draper's_W	861	SCS50yr	10.49	176.03	177.1	176.84	177.19	0.003493	1.36	8.39	15.03	0.5
Draper's	Draper's_W	861	SCS100yr	12.07	176.03	177.21	176.88	177.3	0.002895	1.35	10.13	17.6	0.46
Draper's	Draper's_W	861	SCS200yr	15.6	176.03	177.39	176.99	177.48	0.002307	1.37	13.68	20.5	0.43
Draper's	Draper's_W	861	RSnow100yr	7.39	176.03	176.88	176.73	176.98	0.005987	1.4	5.36	11.54	0.62
Draper's	Draper's_W	795	SCS2yr	3.86	175.9	176.6	175.97	176.6	0.000234	0.28	18.33	53.96	0.12
Draper's	Draper's_W	795	SCS5yr	5.31	175.9	176.74	176.03	176.74	0.0002	0.3	27.46	70.16	0.12
Draper's	Draper's_W	795	SCS10yr	6.63	175.9	176.85	176.09	176.85	0.000172	0.31	35.59	74.14	0.11
Draper's	Draper's_W	795	SCS25yr	8.67	175.9	177.01	176.16	177.01	0.000145	0.32	47.98	81.85	0.11
Draper's	Draper's_W	795	SCS50yr	10.49	175.9	177.14	176.2	177.14	0.000129	0.33	59.43	94.98	0.1
Draper's	Draper's_W	795	SCS100yr	12.07	175.9	177.25	176.23	177.25	0.000128	0.35	69.93	105.24	0.1
Draper's	Draper's_W	795	SCS200yr	15.6	175.9	177.44	176.29	177.44	0.000102	0.35	92.91	140.95	0.1
Draper's	Draper's_W	795	RSnow100yr	7.39	175.9	176.91	176.12	176.92	0.000161	0.31	40.21	76.46	0.11
Draper's	Draper's_W	746	SCS2yr	3.86	175.8	176.35	176.35	176.55	0.017971	1.98	1.95	4.82	0.99
Draper's	Draper's_W	746	SCS5yr	5.31	175.8	176.45	176.45	176.69	0.017227	2.16	2.46	5.14	1
Draper's	Draper's_W	746	SCS10yr	6.63	175.8	176.53	176.53	176.8	0.016304	2.32	2.87	5.4	0.99
Draper's	Draper's_W	746	SCS25yr	8.67	175.8	176.64	176.64	176.96	0.014812	2.51	3.52	5.93	0.98
Draper's	Draper's_W	746	SCS50yr	10.49	175.8	176.73	176.73	177.09	0.013806	2.64	4.1	6.43	0.96
Draper's	Draper's_W	746	SCS100yr	12.07	175.8	176.83	176.83	177.19	0.011922	2.67	4.83	8.15	0.92
Draper's	Draper's_W	746	SCS200yr	15.6	175.8	177.01	177.01	177.38	0.010256	2.79	6.38	10.14	0.87
Draper's	Draper's_W	746	RSnow100yr	7.39	175.8	176.57	176.57	176.86	0.015697	2.39	3.11	5.6	0.99
Draper's	Draper's_W	685	SCS2yr	3.86	175.83	176.33	176.33	176.33	0.000237	0.21	21.33	49.74	0.12
Draper's	Draper's_W	685	SCS5yr	5.31	175.83	176.33	176.33	176.33	0.000449	0.29	21.33	49.74	0.16
Draper's	Draper's_W	685	SCS10yr	6.63	175.83	176.33	176.33	176.33	0.000699	0.36	21.33	49.74	0.2
Draper's	Draper's_W	685	SCS25yr	8.67	175.83	176.33	176.33	176.34	0.001196	0.47	21.33	49.74	0.26
Draper's	Draper's_W	685	SCS50yr	10.49	175.83	176.33	176.33	176.34	0.001749	0.57	21.33	49.74	0.31
Draper's	Draper's_W	685	SCS100yr	12.07	175.83	176.33	176.33	176.35	0.002315	0.66	21.33	49.74	0.36
Draper's	Draper's_W	685	SCS200yr	15.6	175.83	176.38	176.33	176.4	0.002814	0.79	23.66	50.44	0.41
Draper's	Draper's_W	685	RSnow100yr	7.39	175.83	176.33	176.33	176.34	0.000867	0.4	21.33	49.74	0.22
Draper's	Draper's_W	614	SCS2yr	3.86	175.29	175.7	175.59	175.72	0.004445	0.85	7.21	37.58	0.5
Draper's	Draper's_W	614	SCS5yr	5.31	175.29	175.76	175.64	175.78	0.003972	0.9	9.35	39.84	0.48
Draper's	Draper's_W	614	SCS10yr	6.63	175.29	175.8	175.67	175.83	0.003593	0.93	11.3	42.26	0.47
Draper's	Draper's_W	614	SCS25yr	8.67	175.29	175.88	175.71	175.91	0.002888	0.94	14.69	44.26	0.43
Draper's	Draper's_W	614	SCS50yr	10.49	175.29	175.97	175.74	175.99	0.00215	0.9	18.54	46.09	0.38
Draper's	Draper's_W	614	SCS100yr	12.07	175.29	176.06	175.76	176.08	0.001565	0.85	22.76	48.26	0.34
Draper's	Draper's_W	614	SCS200yr	15.6	175.29	176.3	175.8	176.31	0.000764	0.73	35.85	61.79	0.25
Draper's	Draper's_W	614	RSnow100yr	7.39	175.29	175.83	175.68	175.85	0.003425	0.94	12.39	42.86	0.46
Draper's	Draper's_W	573	SCS2yr	3.86	175.13	175.59	175.42	175.6	0.002277	0.7	12.72	48.06	0.37
Draper's	Draper's_W	573	SCS5yr	5.31	175.13	175.65	175.46	175.66	0.002246	0.77	15.83	49.58	0.37
Draper's	Draper's_W	573	SCS10yr	6.63	175.13	175.7	175.49	175.72	0.002241	0.83	18.5	51.87	0.38
Draper's	Draper's_W	573	SCS25yr	8.67	175.13	175.8	175.52	175.81	0.001852	0.85	23.7	54.66	0.36
Draper's	Draper's_W	573	SCS50yr	10.49	175.13	175.91	175.55	175.92	0.00138	0.82	29.7	56.95	0.32
Draper's	Draper's_W	573	SCS100yr	12.07	175.13	176.01	175.56	176.02	0.001037	0.79	35.84	58.77	0.28
Draper's	Draper's_W	573	SCS200yr	15.6	175.13	176.28	175.62	176.28	0.00057	0.7	52.03	64.26	0.22
Draper's	Draper's_W	573	RSnow100yr	7.39	175.13	175.73	175.5	175.75	0.002163	0.85	20.1	52.4	0.38
Draper's	Draper's_W	509	SCS2yr	3.86	174.85	175.43	175.29	175.45	0.002419	0.85	12.15	46.74	0.39
Draper's	Draper's_W	509	SCS5yr	5.31	174.85	175.5	175.33	175.51	0.002468	0.93	15.14	48.6	0.4
Draper's	Draper's_W	509	SCS10yr	6.63	174.85	175.55	175.36	175.56	0.002479	0.99	17.67	50.03	0.41
Draper's	Draper's_W	509	SCS25yr	8.67	174.85	175.69	175.39	175.71	0.001517	0.89	25.36	54.06	0.33
Draper's	Draper's_W	509	SCS50yr	10.49	174.85	175.83	175.43	175.84	0.000996	0.81	33.1	56.01	0.28
Draper's	Draper's_W	509	SCS100yr	12.07	174.85	175.96	175.45	175.97	0.000728	0.76	40.25	57.5	0.24
Draper's	Draper's_W	509	SCS200yr	15.6	174.85	176.25	175.5	176.25	0.000429	0.69	57.33	62.53	0.19
Draper's	Draper's_W	509	RSnow100yr	7.39	174.85	175.59	175.37	175.61	0.002223	0.98	19.84	51.49	0.39
Draper's	Draper's_W	453	SCS2yr	3.86	174.65	175.12	175.12	175.19	0.011842	1.61	6.51	40	0.83
Draper's	Draper's_W	453	SCS5yr	5.31	174.65	175.16	175.16	175.24	0.01385	1.84	7.82	40.61	0.91
Draper's	Draper's_W	453	SCS10yr	6.63	174.65	175.45		175.46	0.001399	0.83	20.37	46.24	0.32
Draper's	Draper's_W	453	SCS25yr	8.67	174.65	175.64		175.65	0.000831	0.75	29.21	48.39	0.25
Draper's	Draper's_W	453	SCS50yr	10.49	174.65	175.79		175.8	0.00059	0.71	36.97	49.61	0.22
Draper's	Draper's_W	453	SCS100yr	12.07	174.65	175.93		175.94	0.000467	0.68	43.75	50.71	0.2
Draper's	Draper's_W	453	SCS200yr	15.6	174.65	176.23		176.23	0.000316	0.65	59.19	53.96	0.17
Draper's	Draper's_W	453	RSnow100yr	7.39	174.65	175.5		175.51	0.001281	0.84	22.8	47.36	0.31
Draper's	Draper's_W	399	SCS2yr	3.86	173.79	174.63	174.4	174.68	0.003364	1.01	3.94	8.8	0.44
Draper's	Draper's_W	399	SCS5yr	5.31	173.79	175.04	174.48	175.07	0.00084	0.71	9.81	17.28	0.23
Draper's	Draper's_W	399	SCS10yr	6.63	173.79	175.41	174.54	175.43	0.000361	0.58	16.85	20.61	0.16
Draper's	Draper's_W	399	SCS25yr	8.67	173.79	175.6	174.63	175.62	0.000371	0.64	20.86	22.96	0.17
Draper's	Draper's_W	399	SCS50yr	10.49	173.79	175.76	174.72	175.78	0.000368	0.67	24.74	25.48	0.17
Draper's	Draper's_W	399	SCS100yr	12.07	173.79	175.89	174.79	175.91	0.000358	0.7	28.44	28.68	0.17
Draper's	Draper's_W	399	SCS200yr	15.6	173.79	176.2	174.92	176.22	0.00027	0.67	47.51	56.19	0.15
Draper's	Draper's_W	399	RSnow100yr	7.39	173.79	175.46	174.57	175.48	0.000388	0.61	17.87	21.1	0.17
Draper's	Draper's_W	387	SCS2yr	3.86	173.42	174.64	174	174.65	0.000294	0.42	9.11	15.97	0.15
Draper's	Draper's_W	387	SCS5yr	5.31	173.42	175.05	174.07	175.05	0.00015	0.39	13.48	21.15	0.11
Draper's	Draper's_W	387	SCS10yr	6.63	173.42	175.42	174.12	175.42	0.000098	0.38	17.48	27.3	0.1
Draper's	Draper's_W	387	SCS25yr	8.67	173.42	175.6	174.19	175.61	0.000118	0.45	19.48	33.54	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's_W	387	SCS50yr	10.49	173.42	175.76	174.26	175.77	0.00013	0.5	21.19	44.08	0.11
Draper's	Draper's_W	387	SCS100yr	12.07	173.42	175.89	174.3	175.91	0.000138	0.53	22.65	58.12	0.12
Draper's	Draper's_W	387	SCS200yr	15.6	173.42	176.19	174.4	176.21	0.000147	0.6	25.89	85.09	0.12
Draper's	Draper's_W	387	RSnow100yr	7.39	173.42	175.46	174.15	175.47	0.000111	0.41	18.01	28.33	0.1
Draper's	Draper's_W	371		Culvert									
Draper's	Draper's_W	353	SCS2yr	3.86	173.28	174.56	173.83	174.56	0.000243	0.41	9.61	17.86	0.14
Draper's	Draper's_W	353	SCS5yr	5.31	173.28	174.98	173.91	174.99	0.00013	0.39	14.19	25.03	0.11
Draper's	Draper's_W	353	SCS10yr	6.63	173.28	175.33	173.97	175.33	0.000094	0.38	17.93	29.97	0.09
Draper's	Draper's_W	353	SCS25yr	8.67	173.28	175.45	174.05	175.46	0.000128	0.47	19.21	36.94	0.11
Draper's	Draper's_W	353	SCS50yr	10.49	173.28	175.53	174.1	175.55	0.000161	0.54	20.13	39.16	0.13
Draper's	Draper's_W	353	SCS100yr	12.07	173.28	175.59	174.16	175.61	0.000192	0.6	20.77	51.01	0.14
Draper's	Draper's_W	353	SCS200yr	15.6	173.28	175.68	174.25	175.71	0.000276	0.75	21.74	60.79	0.17
Draper's	Draper's_W	353	RSnow100yr	7.39	173.28	175.35	174	175.36	0.000111	0.42	18.22	31.51	0.1
Draper's	Draper's_W	326	SCS2yr	3.86	173.72	174.54		174.55	0.00051	0.51	13.2	48.33	0.19
Draper's	Draper's_W	326	SCS5yr	5.31	173.72	174.98		174.98	0.000096	0.3	37.82	62.54	0.09
Draper's	Draper's_W	326	SCS10yr	6.63	173.72	175.33		175.33	0.000043	0.24	61.3	71.98	0.06
Draper's	Draper's_W	326	SCS25yr	8.67	173.72	175.45		175.45	0.000051	0.28	70.02	73.18	0.07
Draper's	Draper's_W	326	SCS50yr	10.49	173.72	175.53		175.54	0.000059	0.31	76.37	74.19	0.08
Draper's	Draper's_W	326	SCS100yr	12.07	173.72	175.6		175.6	0.000067	0.34	80.9	74.78	0.08
Draper's	Draper's_W	326	SCS200yr	15.6	173.72	175.69		175.69	0.000088	0.4	87.89	75.82	0.09
Draper's	Draper's_W	326	RSnow100yr	7.39	173.72	175.36		175.36	0.000049	0.26	63.28	72.25	0.07
Draper's	Draper's_W	281	SCS2yr	3.86	173.75	174.52	174.22	174.53	0.000588	0.52	15.6	41.36	0.21
Draper's	Draper's_W	281	SCS5yr	5.31	173.75	174.98	174.27	174.98	0.000109	0.32	36.06	47.88	0.1
Draper's	Draper's_W	281	SCS10yr	6.63	173.75	175.33	174.31	175.33	0.000054	0.27	53.76	53.67	0.07
Draper's	Draper's_W	281	SCS25yr	8.67	173.75	175.45	174.36	175.45	0.000067	0.32	60.35	56.37	0.08
Draper's	Draper's_W	281	SCS50yr	10.49	173.75	175.53	174.4	175.53	0.000079	0.36	65.24	58.01	0.09
Draper's	Draper's_W	281	SCS100yr	12.07	173.75	175.59	174.42	175.59	0.000091	0.39	68.76	59.23	0.09
Draper's	Draper's_W	281	SCS200yr	15.6	173.75	175.68	174.49	175.69	0.000123	0.47	74.24	60.63	0.11
Draper's	Draper's_W	281	RSnow100yr	7.39	173.75	175.35	174.32	175.35	0.000062	0.29	55.23	54.22	0.08
Draper's	Draper's_W	222	SCS2yr	3.86	173.75	174.5	174.1	174.5	0.000356	0.43	20.77	42.07	0.16
Draper's	Draper's_W	222	SCS5yr	5.31	173.75	174.97	174.14	174.97	0.000081	0.29	42	47.37	0.08
Draper's	Draper's_W	222	SCS10yr	6.63	173.75	175.32	174.18	175.32	0.000045	0.25	59.56	52.07	0.07
Draper's	Draper's_W	222	SCS25yr	8.67	173.75	175.44	174.22	175.44	0.000057	0.3	65.88	54.56	0.07
Draper's	Draper's_W	222	SCS50yr	10.49	173.75	175.53	174.25	175.53	0.000069	0.34	70.62	56.99	0.08
Draper's	Draper's_W	222	SCS100yr	12.07	173.75	175.59	174.28	175.59	0.000081	0.38	74.16	62.38	0.09
Draper's	Draper's_W	222	SCS200yr	15.6	173.75	175.68	174.33	175.68	0.00011	0.46	79.78	62.96	0.11
Draper's	Draper's_W	222	RSnow100yr	7.39	173.75	175.35	174.19	175.35	0.000052	0.28	60.96	52.5	0.07
Draper's	Draper's_W	153	SCS2yr	3.86	173.59	174.48	173.87	174.49	0.000128	0.29	20.78	33.74	0.1
Draper's	Draper's_W	153	SCS5yr	5.31	173.59	174.97	173.92	174.97	0.000043	0.22	39.15	40.98	0.06
Draper's	Draper's_W	153	SCS10yr	6.63	173.59	175.32	173.95	175.32	0.000027	0.21	54.48	45.96	0.05
Draper's	Draper's_W	153	SCS25yr	8.67	173.59	175.44	174	175.44	0.000035	0.25	59.95	46.97	0.06
Draper's	Draper's_W	153	SCS50yr	10.49	173.59	175.52	174.05	175.53	0.000043	0.29	64.27	55.07	0.07
Draper's	Draper's_W	153	SCS100yr	12.07	173.59	175.58	174.07	175.58	0.000051	0.32	67.61	58.68	0.07
Draper's	Draper's_W	153	SCS200yr	15.6	173.59	175.67	174.15	175.67	0.000074	0.39	73.06	66.61	0.09
Draper's	Draper's_W	153	RSnow100yr	7.39	173.59	175.35	173.97	175.35	0.000032	0.23	55.69	46.16	0.06
Draper's	Draper's_W	81	SCS2yr	3.86	173.31	174.48	173.75	174.48	0.000092	0.28	27.64	38.6	0.09
Draper's	Draper's_W	81	SCS5yr	5.31	173.31	174.96	173.8	174.97	0.000037	0.23	47.71	44.32	0.06
Draper's	Draper's_W	81	SCS10yr	6.63	173.31	175.32	173.85	175.32	0.000026	0.22	64.59	51.53	0.05
Draper's	Draper's_W	81	SCS25yr	8.67	173.31	175.44	173.93	175.44	0.000036	0.27	70.87	59.85	0.06
Draper's	Draper's_W	81	SCS50yr	10.49	173.31	175.52	173.98	175.52	0.000051	0.33	76.37	71.91	0.07
Draper's	Draper's_W	81	SCS100yr	12.07	173.31	175.58	174.01	175.58	0.000059	0.37	80.63	74.33	0.08
Draper's	Draper's_W	81	SCS200yr	15.6	173.31	175.66	174.08	175.67	0.000084	0.45	87.22	78.57	0.1
Draper's	Draper's_W	81	RSnow100yr	7.39	173.31	175.34	173.9	175.35	0.000031	0.24	65.94	51.99	0.06
Draper's	Draper's_W	25	SCS2yr	3.86	173.34	174.48		174.48	0.000018	0.13	54.18	61.15	0.04
Draper's	Draper's_W	25	SCS5yr	5.31	173.34	174.96		174.96	0.000009	0.11	85.68	67.88	0.03
Draper's	Draper's_W	25	SCS10yr	6.63	173.34	175.32		175.32	0.000007	0.11	111.02	75.04	0.03
Draper's	Draper's_W	25	SCS25yr	8.67	173.34	175.44		175.44	0.000009	0.14	119.97	77.6	0.03
Draper's	Draper's_W	25	SCS50yr	10.49	173.34	175.52		175.52	0.000012	0.16	126.49	78.95	0.04
Draper's	Draper's_W	25	SCS100yr	12.07	173.34	175.58		175.58	0.000014	0.18	131.12	79.82	0.04
Draper's	Draper's_W	25	SCS200yr	15.6	173.34	175.66		175.67	0.000021	0.22	138.07	82.12	0.05
Draper's	Draper's_W	25	RSnow100yr	7.39	173.34	175.34		175.35	0.000008	0.13	112.98	75.54	0.03
Draper's	Draper's	1553	SCS2yr	12.7	173.31	174.47	173.66	174.47	0.000109	0.3	45.95	51.03	0.1
Draper's	Draper's	1553	SCS5yr	16.75	173.31	174.96	173.7	174.96	0.00005	0.27	72.14	56.23	0.07
Draper's	Draper's	1553	SCS10yr	21.13	173.31	175.31	173.75	175.32	0.000038	0.27	92.93	61.06	0.06
Draper's	Draper's	1553	SCS25yr	27.77	173.31	175.43	173.81	175.44	0.000054	0.33	100.08	71.9	0.07
Draper's	Draper's	1553	SCS50yr	33.64	173.31	175.51	173.86	175.52	0.000069	0.38	105.27	80.32	0.09
Draper's	Draper's	1553	SCS100yr	38.73	173.31	175.57	173.9	175.58	0.000083	0.43	108.93	84.22	0.09
Draper's	Draper's	1553	SCS200yr	47.54	173.31	175.65	173.97	175.66	0.00011	0.51	114.4	95.14	0.11
Draper's	Draper's	1553	RSnow100yr	22.03	173.31	175.34	173.76	175.34	0.00004	0.28	94.51	61.37	0.06
Draper's	Draper's	1493	SCS2yr	12.7	173.25	174.46		174.47	0.000126	0.35	67.1	67.92	0.1
Draper's	Draper's	1493	SCS5yr	16.75	173.25	174.96		174.96	0.000063	0.32	102.07	74.07	0.08
Draper's	Draper's	1493	SCS10yr	21.13	173.25	175.31		175.32	0.00005	0.32	129	77.88	0.07
Draper's	Draper's	1493	SCS25yr	27.77	173.25	175.43		175.43	0.00007	0.4	138.29	84.8	0.09
Draper's	Draper's	1493	SCS50yr	33.64	173.25	175.51		175.51	0.000091	0.46	145.56	96.34	0.1
Draper's	Draper's	1493	SCS100yr	38.73	173.25	175.56		175.57	0.000111	0.52	151.04	100.78	0.11
Draper's	Draper's	1493	SCS200yr	47.54	173.25	175.64		175.65	0.000148	0.61	159.52	108.52	0.13
Draper's	Draper's	1493	RSnow100yr	22.03	173.25	175.34		175.34	0.000051	0.33	131.03	79.5	0.07
Draper's	Draper's	1425	SCS2yr	12.7	173.17	174.46	173.4	174.46	0.000066	0.26	95.03	84.2	0.08
Draper's	Draper's	1425	SCS5yr	16.75	173.17	174.95	173.44	174.96	0.000035	0.24	137.72	88.01	0.06
Draper's	Draper's	1425	SCS10yr	21.13	173.17	175.31	173.47	175.31	0.00003	0.25	169.75	92.36	0.06
Draper's	Draper's	1425	SCS25yr	27.77	173.17	175.43	173.53	175.43	0.000043	0.31	180.32	99.77	0.07
Draper's	Draper's	1425	SCS50yr	33.64	173.17	175.5	173.56	175.51	0.000056	0.37	187.83	103.36	0.08
Draper's	Draper's	1425	SCS100yr	38.73	173.17	175.56	173.62	175.56	0.000068	0.41	193.06	109.71	0.09
Draper's	Draper's	1425	SCS200yr	47.54	173.17	175.64	173.68	175.64	0.000092	0.49	200.72	119.79	0.1
Draper's	Draper's	1425	RSnow100yr	22.03	173.17	175.34	173.48	175.34	0.000031	0.26	172.12	93.51	0.06
Draper's	Draper's	1365	SCS2yr	12.7	172.72	174.45	173.28	174.46	0.000059	0.3	94.84	96.05	0.08
Draper's	Draper's	1365	SCS5yr	16.75	172.72	174.95	173.34	174.95	0.000032	0.26	144.02	101.59	0.06
Draper's	Draper's	1365	SCS10yr	21.13	172.72	175.31	173.39	175.31	0.000026	0.27	181.77	110.65	0.05
Draper's	Draper's	1365	SCS25yr	27.77	172.72	175.42	173.46	175.42	0.000037	0.33	194.44	112.88	0.06
Draper's	Draper's	1365	SCS50yr	33.64	172.72	175.5	173.52	175.5	0.000048	0.38	203.43	114.19	0.07
Draper's	Draper's	1365	SCS100yr	38.73	172.72	175.56	173.56	175.56	0.000058	0.42	209.67	115.55	0.08
Draper's	Draper's	1365	SCS200yr	47.54	172.72	175.64	173.64	175.64	0.000078	0.5	218.78	116.04	0.09
Draper's	Draper's	1365	RSnow100yr	22.03	172.72	175.34	173.4	175.34	0.000027	0.27	184.61	111.12	0.06
Draper's	Draper's	1299	SCS2yr	12.7	172.65	174.45		174.45	0.000034	0.23	124.06	102.29	0.06
Draper's	Draper's	1299	SCS5yr	16.75	172.65	174.95		174.95	0.00002	0.21	177.26	110.84	0.05
Draper's	Draper's	1299	SCS10yr	21.13	172.65	175.31		175.31	0.000017	0.21	217.66	114.78	0.04
Draper's	Draper's	1299	SCS25yr	27.77	172.65	175.42		175.42	0.000025	0.27	230.7	115.64	0.05
Draper's	Draper's	1299	SCS50yr	33.64	172.65	175.5		175.5	0.000032	0.31	239.86	116.44	0.06
Draper's	Draper's	1299	SCS100yr	38.73	172.65	175.56		175.56	0.000039	0.35	246.19	117	0.07
Draper's	Draper's	1299	SCS200yr	47.54	172.65	175.63		175.64	0.000053	0.41	255.39	117.8	0.08
Draper's	Draper's	1299	RSnow100yr	22.03	172.65	175.33		175.34	0.000018	0.22	220.61	114.94	0.04
Draper's	Draper's	1224	SCS2yr	12.7	172.46	174.45		174.45	0.000038	0.27	105.36	77.28	0.06

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's	1224	SCS5yr	16.75	172.46	174.95		174.95	0.000026	0.26	145.73	85.06	0.05
Draper's	Draper's	1224	SCS10yr	21.13	172.46	175.31		175.31	0.000023	0.26	176.91	89.78	0.05
Draper's	Draper's	1224	SCS25yr	27.77	172.46	175.42		175.42	0.000034	0.33	187.1	91.55	0.06
Draper's	Draper's	1224	SCS50yr	33.64	172.46	175.5		175.5	0.000044	0.38	194.31	92.55	0.07
Draper's	Draper's	1224	SCS100yr	38.73	172.46	175.55		175.55	0.000054	0.43	199.29	93.36	0.08
Draper's	Draper's	1224	SCS200yr	47.54	172.46	175.63		175.63	0.000074	0.51	206.53	94.78	0.09
Draper's	Draper's	1224	RSnow100yr	22.03	172.46	175.33		175.33	0.000024	0.27	179.22	90.13	0.05
Draper's	Draper's	1150	SCS2yr	12.7	172.31	174.45		174.45	0.000021	0.21	129.22	80.16	0.05
Draper's	Draper's	1150	SCS5yr	16.75	172.31	174.95		174.95	0.000015	0.21	169.97	82.78	0.04
Draper's	Draper's	1150	SCS10yr	21.13	172.31	175.31		175.31	0.000015	0.22	199.8	84.25	0.04
Draper's	Draper's	1150	SCS25yr	27.77	172.31	175.42		175.42	0.000022	0.28	209.26	84.73	0.05
Draper's	Draper's	1150	SCS50yr	33.64	172.31	175.5		175.5	0.000029	0.33	215.86	85.02	0.06
Draper's	Draper's	1150	SCS100yr	38.73	172.31	175.55		175.55	0.000036	0.37	220.37	85.22	0.07
Draper's	Draper's	1150	SCS200yr	47.54	172.31	175.63		175.63	0.00005	0.44	226.86	85.5	0.08
Draper's	Draper's	1150	RSnow100yr	22.03	172.31	175.33		175.33	0.000016	0.23	201.95	84.37	0.04
Draper's	Draper's	1081	SCS2yr	12.7	172.12	174.45		174.45	0.000037	0.29	99.15	64.59	0.06
Draper's	Draper's	1081	SCS5yr	16.75	172.12	174.95		174.95	0.000029	0.3	133.6	74.19	0.06
Draper's	Draper's	1081	SCS10yr	21.13	172.12	175.3		175.31	0.000026	0.31	160.99	79.44	0.06
Draper's	Draper's	1081	SCS25yr	27.77	172.12	175.41		175.42	0.000039	0.38	169.9	81.45	0.07
Draper's	Draper's	1081	SCS50yr	33.64	172.12	175.49		175.5	0.000051	0.45	176.27	86.22	0.08
Draper's	Draper's	1081	SCS100yr	38.73	172.12	175.54		175.55	0.000063	0.5	180.78	87.33	0.09
Draper's	Draper's	1081	SCS200yr	47.54	172.12	175.62		175.62	0.000086	0.59	187.27	88.69	0.1
Draper's	Draper's	1081	RSnow100yr	22.03	172.12	175.33		175.33	0.000027	0.32	163.01	79.96	0.06
Draper's	Draper's	1001	SCS2yr	12.7	171.99	174.44	172.79	174.45	0.000044	0.33	94.55	85.69	0.07
Draper's	Draper's	1001	SCS5yr	16.75	171.99	174.95	172.87	174.95	0.000023	0.27	155.68	96.12	0.05
Draper's	Draper's	1001	SCS10yr	21.13	171.99	175.3	172.93	175.3	0.00002	0.27	191.38	103.92	0.05
Draper's	Draper's	1001	SCS25yr	27.77	171.99	175.41	173.03	175.42	0.000029	0.34	202.94	105.48	0.06
Draper's	Draper's	1001	SCS50yr	33.64	171.99	175.49	173.09	175.49	0.000038	0.39	211.01	106.7	0.07
Draper's	Draper's	1001	SCS100yr	38.73	171.99	175.54	173.16	175.54	0.000047	0.44	216.52	107.38	0.08
Draper's	Draper's	1001	SCS200yr	47.54	171.99	175.61	173.25	175.62	0.000064	0.52	224.4	108.61	0.09
Draper's	Draper's	1001	RSnow100yr	22.03	171.99	175.33	172.95	175.33	0.000021	0.28	194.02	104.31	0.05
Draper's	Draper's	947	SCS2yr	12.7	171.69	174.44	172.67	174.44	0.000019	0.23	134.72	88.87	0.04
Draper's	Draper's	947	SCS5yr	16.75	171.69	174.95	172.74	174.95	0.000013	0.21	180.34	93.71	0.04
Draper's	Draper's	947	SCS10yr	21.13	171.69	175.3	172.79	175.3	0.000013	0.23	215.32	102.2	0.04
Draper's	Draper's	947	SCS25yr	27.77	171.69	175.41	172.9	175.41	0.000019	0.28	226.66	103.84	0.05
Draper's	Draper's	947	SCS50yr	33.64	171.69	175.49	172.96	175.49	0.000025	0.33	234.6	105.33	0.06
Draper's	Draper's	947	SCS100yr	38.73	171.69	175.54	173.01	175.54	0.000031	0.37	240.02	105.88	0.06
Draper's	Draper's	947	SCS200yr	47.54	171.69	175.61	173.09	175.62	0.000042	0.44	247.76	106.66	0.07
Draper's	Draper's	947	RSnow100yr	22.03	171.69	175.33	172.8	175.33	0.000013	0.23	217.92	102.59	0.04
Draper's	Draper's	873	SCS2yr	12.7	171.46	174.44	172.31	174.44	0.000018	0.24	140.13	100.87	0.05
Draper's	Draper's	873	SCS5yr	16.75	171.46	174.94	172.55	174.94	0.000014	0.23	191.72	104.95	0.04
Draper's	Draper's	873	SCS10yr	21.13	171.46	175.3	172.65	175.3	0.000014	0.25	230.45	111.59	0.04
Draper's	Draper's	873	SCS25yr	27.77	171.46	175.41	172.75	175.41	0.00002	0.31	242.76	113.16	0.05
Draper's	Draper's	873	SCS50yr	33.64	171.46	175.49	172.84	175.49	0.000028	0.36	251.35	114.89	0.06
Draper's	Draper's	873	SCS100yr	38.73	171.46	175.54	172.91	175.54	0.000034	0.41	257.2	115.77	0.07
Draper's	Draper's	873	SCS200yr	47.54	171.46	175.61	173	175.61	0.000048	0.49	265.53	117.49	0.08
Draper's	Draper's	873	RSnow100yr	22.03	171.46	175.33	172.66	175.33	0.000014	0.25	233.27	111.95	0.04
Draper's	Draper's	825	SCS2yr	12.7	171.53	174.44		174.44	0.000016	0.22	111.78	67.36	0.04
Draper's	Draper's	825	SCS5yr	16.75	171.53	174.94		174.94	0.000014	0.23	147.81	75.96	0.04
Draper's	Draper's	825	SCS10yr	21.13	171.53	175.3		175.3	0.000014	0.25	176.37	84.77	0.04
Draper's	Draper's	825	SCS25yr	27.77	171.53	175.41		175.41	0.000022	0.32	185.68	86.42	0.05
Draper's	Draper's	825	SCS50yr	33.64	171.53	175.48		175.49	0.00003	0.37	192.16	87.98	0.06
Draper's	Draper's	825	SCS100yr	38.73	171.53	175.53		175.54	0.000037	0.42	196.56	89.04	0.07
Draper's	Draper's	825	SCS200yr	47.54	171.53	175.6		175.61	0.000052	0.5	202.83	91.11	0.08
Draper's	Draper's	825	RSnow100yr	22.03	171.53	175.32		175.33	0.000015	0.26	178.52	85.37	0.04
Draper's	Draper's	784	SCS2yr	12.7	171.29	174.44		174.44	0.000017	0.24	119.45	63.96	0.04
Draper's	Draper's	784	SCS5yr	16.75	171.29	174.94		174.94	0.000015	0.25	153.23	70.93	0.04
Draper's	Draper's	784	SCS10yr	21.13	171.29	175.3		175.3	0.000016	0.28	179.67	77.81	0.05
Draper's	Draper's	784	SCS25yr	27.77	171.29	175.41		175.41	0.000025	0.35	188.22	80.67	0.06
Draper's	Draper's	784	SCS50yr	33.64	171.29	175.48		175.49	0.000034	0.42	194.27	82.31	0.07
Draper's	Draper's	784	SCS100yr	38.73	171.29	175.53		175.54	0.000043	0.47	198.38	83.76	0.07
Draper's	Draper's	784	SCS200yr	47.54	171.29	175.6		175.61	0.000061	0.57	204.22	86.62	0.09
Draper's	Draper's	784	RSnow100yr	22.03	171.29	175.32		175.33	0.000017	0.29	181.64	78.2	0.05
Draper's	Draper's	739	SCS2yr	12.7	171.23	174.44		174.44	0.000006	0.14	257.64	146.78	0.03
Draper's	Draper's	739	SCS5yr	16.75	171.23	174.94		174.94	0.000005	0.14	333.28	154.34	0.02
Draper's	Draper's	739	SCS10yr	21.13	171.23	175.3		175.3	0.000005	0.15	389.55	160.77	0.02
Draper's	Draper's	739	SCS25yr	27.77	171.23	175.41		175.41	0.000007	0.19	407.15	162.86	0.03
Draper's	Draper's	739	SCS50yr	33.64	171.23	175.48		175.48	0.00001	0.22	419.49	167.6	0.03
Draper's	Draper's	739	SCS100yr	38.73	171.23	175.53		175.53	0.000012	0.25	427.9	169.2	0.04
Draper's	Draper's	739	SCS200yr	47.54	171.23	175.6		175.6	0.000017	0.3	439.8	170.8	0.05
Draper's	Draper's	739	RSnow100yr	22.03	171.23	175.33		175.33	0.000005	0.15	393.6	161.3	0.02
Draper's	Draper's	663	SCS2yr	12.7	171.2	174.44		174.44	0.00001	0.18	178.02	92.13	0.03
Draper's	Draper's	663	SCS5yr	16.75	171.2	174.94		174.94	0.000008	0.19	225.04	96.25	0.03
Draper's	Draper's	663	SCS10yr	21.13	171.2	175.3		175.3	0.000009	0.21	260.83	103.18	0.03
Draper's	Draper's	663	SCS25yr	27.77	171.2	175.41		175.41	0.000014	0.26	272.13	105.88	0.04
Draper's	Draper's	663	SCS50yr	33.64	171.2	175.48		175.48	0.000018	0.31	280.04	107.61	0.05
Draper's	Draper's	663	SCS100yr	38.73	171.2	175.53		175.53	0.000023	0.35	285.38	108.83	0.05
Draper's	Draper's	663	SCS200yr	47.54	171.2	175.6		175.6	0.000032	0.42	292.93	110	0.06
Draper's	Draper's	663	RSnow100yr	22.03	171.2	175.32		175.33	0.000009	0.21	263.43	103.57	0.03
Draper's	Draper's	571	SCS2yr	12.7	171.15	174.44	172.13	174.44	0.000006	0.15	201.68	91.03	0.03
Draper's	Draper's	571	SCS5yr	16.75	171.15	174.94	172.21	174.94	0.000006	0.16	248.34	95.06	0.03
Draper's	Draper's	571	SCS10yr	21.13	171.15	175.3	172.28	175.3	0.000006	0.17	282.87	98.37	0.03
Draper's	Draper's	571	SCS25yr	27.77	171.15	175.41	172.35	175.41	0.000009	0.22	293.56	99.63	0.03
Draper's	Draper's	571	SCS50yr	33.64	171.15	175.48	172.41	175.48	0.000013	0.26	300.96	100.97	0.04
Draper's	Draper's	571	SCS100yr	38.73	171.15	175.53	172.44	175.53	0.000017	0.3	305.95	102.15	0.05
Draper's	Draper's	571	SCS200yr	47.54	171.15	175.6	172.52	175.6	0.000023	0.36	312.99	103.57	0.06
Draper's	Draper's	571	RSnow100yr	22.03	171.15	175.32	172.29	175.32	0.000006	0.18	285.35	98.59	0.03
Draper's	Draper's	501	SCS2yr	12.7	170.98	174.44	171.82	174.44	0.000012	0.22	128.83	61.27	0.04
Draper's	Draper's	501	SCS5yr	16.75	170.98	174.94	171.98	174.94	0.000011	0.23	160.48	64.73	0.04
Draper's	Draper's	501	SCS10yr	21.13	170.98	175.3	172.07	175.3	0.000012	0.26	184.01	67.26	0.04
Draper's	Draper's	501	SCS25yr	27.77	170.98	175.4	172.19	175.41	0.000019	0.33	191.28	68.51	0.05
Draper's	Draper's	501	SCS50yr	33.64	170.98	175.48	172.28	175.48	0.000027	0.39	196.3	69.42	0.06
Draper's	Draper's	501	SCS100yr	38.73	170.98	175.52	172.35	175.53	0.000034	0.44	199.64	69.96	0.07
Draper's	Draper's	501	SCS200yr	47.54	170.98	175.59	172.47	175.6	0.000048	0.53	204.31	70.89	0.08
Draper's	Draper's	501	RSnow100yr	22.03	170.98	175.32	172.09	175.32	0.000013	0.27	185.7	67.56	0.04
Draper's	Draper's	444	SCS2yr	12.7	170.93	174.43	171.74	174.44	0.000039	0.39	51.71	24.55	0.07
Draper's	Draper's	444	SCS5yr	16.75	170.93	174.93	171.87	174.94	0.00004	0.44	66.42	33.27	0.07
Draper's	Draper's	444	SCS10yr	21.13	170.93	175.29	172	175.3	0.000046	0.5	80.15	45.7	0.08
Draper's	Draper's	444	SCS25yr	27.77	170.93	175.39	172.2	175.4	0.000071	0.63	85.05	50.65	0.1
Draper's	Draper's	444	SCS50yr	33.64	170.93	175.45	172.34	175.48	0.000096	0.74	88.78	63.23	0.11
Draper's	Draper's	444	SCS100yr	38.73	170.93	175.49	172.45	175.52	0.000129	0.86	91.33	65.31	0.13
Draper's	Draper's	444	SCS200yr	47.54	170.93	175.55	172.62	175.59	0.000181	1.03	94.89	66.88	0.16
Draper's	Draper's	444	RSnow100yr	22.03	170.93	175.31	172.03	175.32	0.000048	0.51	81.28	46.78	0.08

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Draper's	Draper's	425	SCS2yr	12.7	170.53	174.42	171.67	174.43	0.00008	0.56	33.58	17.42	0.09
Draper's	Draper's	425	SCS5yr	16.75	170.53	174.92	171.85	174.94	0.000083	0.62	49.75	42.28	0.1
Draper's	Draper's	425	SCS10yr	21.13	170.53	175.28	172.02	175.29	0.000079	0.64	67.14	69.08	0.1
Draper's	Draper's	425	SCS25yr	27.77	170.53	175.38	172.27	175.4	0.000114	0.78	75.57	98.53	0.12
Draper's	Draper's	425	SCS50yr	33.64	170.53	175.45	172.45	175.47	0.000145	0.89	82.34	104.18	0.13
Draper's	Draper's	425	SCS100yr	38.73	170.53	175.49	172.61	175.52	0.000176	0.99	86.85	107.56	0.15
Draper's	Draper's	425	SCS200yr	47.54	170.53	175.54	172.84	175.59	0.000234	1.15	93.01	112.52	0.17
Draper's	Draper's	425	RSnow100yr	22.03	170.53	175.3	172.06	175.32	0.000082	0.66	68.89	77.42	0.1
Draper's	Draper's	412		Bridge									
Draper's	Draper's	396	SCS2yr	12.7	170.82	173.75	171.55	173.76	0.000046	0.38	46.7	36.32	0.07
Draper's	Draper's	396	SCS5yr	16.75	170.82	173.75	171.67	173.76	0.000081	0.5	46.65	36.29	0.1
Draper's	Draper's	396	SCS10yr	21.13	170.82	173.75	171.8	173.77	0.000129	0.64	46.59	36.25	0.12
Draper's	Draper's	396	SCS25yr	27.77	170.82	173.75	171.98	173.78	0.000224	0.84	46.46	36.17	0.16
Draper's	Draper's	396	SCS50yr	33.64	170.82	173.74	172.13	173.79	0.000331	1.02	46.31	36.08	0.2
Draper's	Draper's	396	SCS100yr	38.73	170.82	173.74	172.25	173.8	0.000441	1.17	46.16	35.98	0.23
Draper's	Draper's	396	SCS200yr	47.54	170.82	173.73	172.44	173.83	0.000674	1.45	45.85	35.78	0.28
Draper's	Draper's	396	RSnow100yr	22.03	170.82	173.75	171.83	173.77	0.00014	0.66	46.57	36.24	0.13
Draper's	Draper's	374	SCS2yr	12.7	170.77	173.76	171.34	173.76	0.000014	0.21	111.93	113.28	0.04
Draper's	Draper's	374	SCS5yr	16.75	170.77	173.76	171.45	173.76	0.000024	0.28	111.95	113.28	0.05
Draper's	Draper's	374	SCS10yr	21.13	170.77	173.76	171.54	173.76	0.000038	0.36	111.98	113.29	0.07
Draper's	Draper's	374	SCS25yr	27.77	170.77	173.76	171.67	173.76	0.000066	0.47	112.03	113.31	0.09
Draper's	Draper's	374	SCS50yr	33.64	170.77	173.76	171.83	173.77	0.000096	0.57	112.09	113.32	0.11
Draper's	Draper's	374	SCS100yr	38.73	170.77	173.76	172	173.77	0.000127	0.65	112.15	113.34	0.12
Draper's	Draper's	374	SCS200yr	47.54	170.77	173.76	172.1	173.78	0.000192	0.8	112.28	113.38	0.15
Draper's	Draper's	374	RSnow100yr	22.03	170.77	173.76	171.56	173.76	0.000041	0.37	111.98	113.29	0.07
Draper's	Draper's	215	SCS2yr	12.7	170.76	173.76	171.26	173.76	0.000005	0.12	243.12	190.88	0.02
Draper's	Draper's	215	SCS5yr	16.75	170.76	173.76	171.33	173.76	0.000008	0.16	243.11	190.88	0.03
Draper's	Draper's	215	SCS10yr	21.13	170.76	173.76	171.41	173.76	0.000012	0.2	243.1	190.87	0.04
Draper's	Draper's	215	SCS25yr	27.77	170.76	173.76	171.51	173.76	0.000022	0.27	243.06	190.86	0.05
Draper's	Draper's	215	SCS50yr	33.64	170.76	173.76	171.59	173.76	0.000032	0.32	243.01	190.85	0.06
Draper's	Draper's	215	SCS100yr	38.73	170.76	173.76	171.65	173.76	0.000042	0.37	242.97	190.83	0.07
Draper's	Draper's	215	SCS200yr	47.54	170.76	173.75	171.77	173.76	0.000063	0.45	242.88	190.81	0.09
Draper's	Draper's	215	RSnow100yr	22.03	170.76	173.76	171.42	173.76	0.000014	0.21	243.09	190.87	0.04
Draper's	Draper's	134	SCS2yr	12.7	170.76	173.76	171.15	173.76	0.000001	0.07	436.9	288.64	0.01
Draper's	Draper's	134	SCS5yr	16.75	170.76	173.76	171.22	173.76	0.000003	0.09	436.89	288.64	0.02
Draper's	Draper's	134	SCS10yr	21.13	170.76	173.76	171.29	173.76	0.000004	0.12	436.88	288.64	0.02
Draper's	Draper's	134	SCS25yr	27.77	170.76	173.76	171.38	173.76	0.000007	0.15	436.85	288.63	0.03
Draper's	Draper's	134	SCS50yr	33.64	170.76	173.76	171.45	173.76	0.00001	0.18	436.81	288.63	0.03
Draper's	Draper's	134	SCS100yr	38.73	170.76	173.76	171.53	173.76	0.000013	0.21	436.78	288.63	0.04
Draper's	Draper's	134	SCS200yr	47.54	170.76	173.76	171.66	173.76	0.00002	0.26	436.71	288.62	0.05
Draper's	Draper's	134	RSnow100yr	22.03	170.76	173.76	171.3	173.76	0.000004	0.12	436.87	288.64	0.02
Draper's	Draper's	71	SCS2yr	12.7	170.78	173.76	171.14	173.76	0	0.02	1082.79	478.35	0
Draper's	Draper's	71	SCS5yr	16.75	170.78	173.76	171.17	173.76	0	0.02	1082.79	478.35	0
Draper's	Draper's	71	SCS10yr	21.13	170.78	173.76	171.19	173.76	0	0.03	1082.79	478.35	0.01
Draper's	Draper's	71	SCS25yr	27.77	170.78	173.76	171.21	173.76	0	0.04	1082.79	478.35	0.01
Draper's	Draper's	71	SCS50yr	33.64	170.78	173.76	171.24	173.76	0.000001	0.05	1082.79	478.35	0.01
Draper's	Draper's	71	SCS100yr	38.73	170.78	173.76	171.26	173.76	0.000001	0.06	1082.79	478.35	0.01
Draper's	Draper's	71	SCS200yr	47.54	170.78	173.76	171.28	173.76	0.000001	0.07	1082.79	478.35	0.01
Draper's	Draper's	71	RSnow100yr	22.03	170.78	173.76	171.19	173.76	0	0.03	1082.79	478.35	0.01
Coyle	Disher_E1	3693	SCS2yr	0.86	184.73	185.66		185.66	0.000006	0.05	12.55	39.27	0.02
Coyle	Disher_E1	3693	SCS5yr	1.27	184.73	185.7		185.7	0.000009	0.07	14.03	39.77	0.02
Coyle	Disher_E1	3693	SCS10yr	1.67	184.73	185.72		185.72	0.000012	0.08	15.07	40.46	0.03
Coyle	Disher_E1	3693	SCS25yr	2.32	184.73	185.75		185.75	0.000018	0.1	16.12	40.74	0.04
Coyle	Disher_E1	3693	SCS50yr	2.93	184.73	185.78		185.78	0.000023	0.12	17.32	41.03	0.04
Coyle	Disher_E1	3693	SCS100yr	3.49	184.73	185.8		185.8	0.000028	0.13	18.18	41.24	0.05
Coyle	Disher_E1	3693	SCS200yr	4.48	184.73	185.83		185.83	0.000037	0.16	19.45	42.03	0.05
Coyle	Disher_E1	3693	RSnow100yr	2.69	184.73	185.77		185.77	0.000021	0.11	16.99	40.95	0.04
Coyle	Disher_E1	3633	SCS2yr	0.86	184.49	185.66		185.66	0.000008	0.08	22.98	42.45	0.03
Coyle	Disher_E1	3633	SCS5yr	1.27	184.49	185.7		185.7	0.000015	0.1	24.56	42.92	0.03
Coyle	Disher_E1	3633	SCS10yr	1.67	184.49	185.72		185.72	0.000022	0.13	25.67	43.24	0.04
Coyle	Disher_E1	3633	SCS25yr	2.32	184.49	185.75		185.75	0.000038	0.17	26.77	43.7	0.06
Coyle	Disher_E1	3633	SCS50yr	2.93	184.49	185.78		185.78	0.000054	0.21	28.05	44.45	0.07
Coyle	Disher_E1	3633	SCS100yr	3.49	184.49	185.8		185.8	0.00007	0.24	28.96	44.83	0.08
Coyle	Disher_E1	3633	SCS200yr	4.48	184.49	185.83		185.83	0.000102	0.3	30.3	45.4	0.09
Coyle	Disher_E1	3633	RSnow100yr	2.69	184.49	185.77		185.77	0.000047	0.2	27.7	44.19	0.06
Coyle	Disher_E1	3584	SCS2yr	0.86	184.39	185.66		185.66	0.000009	0.09	21.09	46.13	0.03
Coyle	Disher_E1	3584	SCS5yr	1.27	184.39	185.7		185.7	0.000016	0.12	22.8	46.88	0.04
Coyle	Disher_E1	3584	SCS10yr	1.67	184.39	185.72		185.72	0.000025	0.15	23.99	47.19	0.05
Coyle	Disher_E1	3584	SCS25yr	2.32	184.39	185.75		185.75	0.000042	0.2	25.14	47.93	0.06
Coyle	Disher_E1	3584	SCS50yr	2.93	184.39	185.77		185.78	0.00006	0.24	26.51	49.07	0.07
Coyle	Disher_E1	3584	SCS100yr	3.49	184.39	185.79		185.8	0.000077	0.28	27.47	49.4	0.08
Coyle	Disher_E1	3584	SCS200yr	4.48	184.39	185.82		185.82	0.000112	0.34	28.85	49.58	0.1
Coyle	Disher_E1	3584	RSnow100yr	2.69	184.39	185.77		185.77	0.000052	0.23	26.15	48.92	0.07
Coyle	Disher_E1	3539	SCS2yr	0.86	184.34	185.66		185.66	0.000001	0.03	42.36	50.29	0.01
Coyle	Disher_E1	3539	SCS5yr	1.27	184.34	185.7		185.7	0.000002	0.05	44.21	50.85	0.01
Coyle	Disher_E1	3539	SCS10yr	1.67	184.34	185.72		185.72	0.000003	0.06	45.51	51.25	0.02
Coyle	Disher_E1	3539	SCS25yr	2.32	184.34	185.75		185.75	0.000006	0.08	46.76	51.64	0.02
Coyle	Disher_E1	3539	SCS50yr	2.93	184.34	185.77		185.77	0.000008	0.1	48.22	52.16	0.03
Coyle	Disher_E1	3539	SCS100yr	3.49	184.34	185.79		185.79	0.000011	0.12	49.24	52.58	0.03
Coyle	Disher_E1	3539	SCS200yr	4.48	184.34	185.82		185.82	0.000017	0.15	50.71	53.06	0.04
Coyle	Disher_E1	3539	RSnow100yr	2.69	184.34	185.77		185.77	0.000007	0.1	47.83	52	0.03
Coyle	Disher_E1	3509	SCS2yr	0.86	184.26	185.66		185.66	0.000001	0.02	57.08	59.9	0.01
Coyle	Disher_E1	3509	SCS5yr	1.27	184.26	185.7		185.7	0.000001	0.04	59.28	60.53	0.01
Coyle	Disher_E1	3509	SCS10yr	1.67	184.26	185.72		185.72	0.000002	0.04	60.83	60.93	0.01
Coyle	Disher_E1	3509	SCS25yr	2.32	184.26	185.75		185.75	0.000003	0.06	62.31	61.41	0.02
Coyle	Disher_E1	3509	SCS50yr	2.93	184.26	185.77		185.77	0.000004	0.08	64.05	62.32	0.02
Coyle	Disher_E1	3509	SCS100yr	3.49	184.26	185.79		185.79	0.000006	0.09	65.26	62.58	0.02
Coyle	Disher_E1	3509	SCS200yr	4.48	184.26	185.82		185.82	0.000009	0.11	67.01	62.93	0.03
Coyle	Disher_E1	3509	RSnow100yr	2.69	184.26	185.77		185.77	0.000004	0.07	63.59	62.04	0.02
Coyle	Disher_E1	3497	SCS2yr	0.86	184.19	185.66	184.38	185.66	0.000001	0.03	49.7	54.76	0.01
Coyle	Disher_E1	3497	SCS5yr	1.27	184.19	185.7	184.42	185.7	0.000001	0.04	51.72	55.57	0.01
Coyle	Disher_E1	3497	SCS10yr	1.67	184.19	185.72	184.45	185.72	0.000002	0.05	53.14	56.25	0.01
Coyle	Disher_E1	3497	SCS25yr	2.32	184.19	185.75	184.5	185.75	0.000004	0.07	54.51	56.99	0.02
Coyle	Disher_E1	3497	SCS50yr	2.93	184.19	185.77	184.56	185.77	0.000006	0.09	56.13	57.64	0.02
Coyle	Disher_E1	3497	SCS100yr	3.49	184.19	185.79	184.59	185.79	0.000008	0.1	57.24	58.02	0.03
Coyle	Disher_E1	3497	SCS200yr	4.48	184.19	185.82	184.64	185.82	0.000012	0.13	58.86	58.59	0.03
Coyle	Disher_E1	3497	RSnow100yr	2.69	184.19	185.77	184.54	185.77	0.000005	0.08	55.7	57.49	0.02
Coyle	Disher_E1	3486		Culvert									
Coyle	Disher_E1	3474	SCS2yr	0.86	184.03	184.43	184.27	184.44	0.000572	0.31	2.06	20.08	0.18
Coyle	Disher_E1	3474	SCS5yr	1.27	184.03	184.55	184.3	184.56	0.000268	0.27	3.28	32.17	0.13
Coyle	Disher_E1	3474	SCS10yr	1.67	184.03	184.57	184.34	184.59	0.000369	0.32	3.5	32.99	0.15
Coyle	Disher_E1	3474	SCS25yr	2.32	184.03	184.6	184.39	184.63	0.000534	0.41	3.8	33.73	0.19

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_E1	3474	SCS50yr	2.93	184.03	184.61	184.43	184.65	0.000761	0.49	3.93	34.13	0.22
Coyle	Disher_E1	3474	SCS100yr	3.49	184.03	184.64	184.48	184.69	0.000866	0.55	4.18	34.83	0.24
Coyle	Disher_E1	3474	SCS200yr	4.48	184.03	184.65	184.53	184.73	0.001259	0.67	4.34	35.25	0.29
Coyle	Disher_E1	3474	RSnow100yr	2.69	184.03	184.61	184.43	184.64	0.000667	0.46	3.89	34	0.21
Coyle	Disher_E1	3463	SCS2yr	0.86	183.96	184.43		184.43	0.000011	0.05	9.35	39.92	0.03
Coyle	Disher_E1	3463	SCS5yr	1.27	183.96	184.55		184.55	0.000006	0.04	14.27	40.99	0.02
Coyle	Disher_E1	3463	SCS10yr	1.67	183.96	184.58		184.58	0.000008	0.05	15.27	41.19	0.02
Coyle	Disher_E1	3463	SCS25yr	2.32	183.96	184.61		184.61	0.000012	0.07	16.74	41.49	0.03
Coyle	Disher_E1	3463	SCS50yr	2.93	183.96	184.63		184.63	0.000017	0.08	17.54	41.67	0.03
Coyle	Disher_E1	3463	SCS100yr	3.49	183.96	184.66		184.66	0.000019	0.09	18.79	41.97	0.04
Coyle	Disher_E1	3463	SCS200yr	4.48	183.96	184.69		184.69	0.000026	0.11	20.01	42.27	0.04
Coyle	Disher_E1	3463	RSnow100yr	2.69	183.96	184.62		184.63	0.000015	0.08	17.24	41.6	0.03
Coyle	Disher_E1	3374	SCS2yr	0.86	183.85	184.43		184.43	0.00008	0.16	10.93	27.79	0.07
Coyle	Disher_E1	3374	SCS5yr	1.27	183.85	184.55		184.55	0.000078	0.18	14.48	30.56	0.07
Coyle	Disher_E1	3374	SCS10yr	1.67	183.85	184.57		184.58	0.000118	0.23	15.21	31.3	0.09
Coyle	Disher_E1	3374	SCS25yr	2.32	183.85	184.61		184.61	0.000193	0.31	16.3	32.95	0.12
Coyle	Disher_E1	3374	SCS50yr	2.93	183.85	184.63		184.63	0.000285	0.38	16.88	34.01	0.14
Coyle	Disher_E1	3374	SCS100yr	3.49	183.85	184.65		184.66	0.000347	0.43	17.87	34.97	0.16
Coyle	Disher_E1	3374	SCS200yr	4.48	183.85	184.68		184.69	0.000507	0.53	18.78	35.99	0.2
Coyle	Disher_E1	3374	RSnow100yr	2.69	183.85	184.62		184.62	0.000249	0.35	16.67	33.78	0.14
Coyle	Disher_E1	3302	SCS2yr	0.86	183.67	184.43		184.43	0.000023	0.11	18.2	35.67	0.04
Coyle	Disher_E1	3302	SCS5yr	1.27	183.67	184.55		184.55	0.000028	0.13	22.82	39.65	0.05
Coyle	Disher_E1	3302	SCS10yr	1.67	183.67	184.57		184.57	0.000043	0.17	23.7	40.08	0.06
Coyle	Disher_E1	3302	SCS25yr	2.32	183.67	184.6		184.6	0.000071	0.22	24.97	40.67	0.08
Coyle	Disher_E1	3302	SCS50yr	2.93	183.67	184.62		184.62	0.000107	0.27	25.54	40.91	0.09
Coyle	Disher_E1	3302	SCS100yr	3.49	183.67	184.64		184.64	0.000135	0.31	26.61	41.66	0.1
Coyle	Disher_E1	3302	SCS200yr	4.48	183.67	184.66		184.66	0.000207	0.39	27.42	42.29	0.13
Coyle	Disher_E1	3302	RSnow100yr	2.69	183.67	184.61		184.61	0.000092	0.25	25.33	40.83	0.09
Coyle	Disher_E1	3224	SCS2yr	0.86	183.51	184.43		184.43	0.000003	0.04	32.66	54.93	0.01
Coyle	Disher_E1	3224	SCS5yr	1.27	183.51	184.55		184.55	0.000003	0.05	39.46	56.87	0.02
Coyle	Disher_E1	3224	SCS10yr	1.67	183.51	184.57		184.57	0.000005	0.07	40.7	57.24	0.02
Coyle	Disher_E1	3224	SCS25yr	2.32	183.51	184.6		184.6	0.000009	0.09	42.49	58.33	0.03
Coyle	Disher_E1	3224	SCS50yr	2.93	183.51	184.61		184.61	0.000014	0.11	43.28	58.93	0.03
Coyle	Disher_E1	3224	SCS100yr	3.49	183.51	184.64		184.64	0.000018	0.13	44.8	59.35	0.04
Coyle	Disher_E1	3224	SCS200yr	4.48	183.51	184.66		184.66	0.000028	0.16	45.87	59.62	0.05
Coyle	Disher_E1	3224	RSnow100yr	2.69	183.51	184.61		184.61	0.000012	0.1	42.99	58.84	0.03
Coyle	Disher_E1	3159	SCS2yr	0.86	183.48	184.43		184.43	0.000002	0.04	27.09	40.71	0.01
Coyle	Disher_E1	3159	SCS5yr	1.27	183.48	184.55		184.55	0.000002	0.05	32.5	50.83	0.01
Coyle	Disher_E1	3159	SCS10yr	1.67	183.48	184.57		184.57	0.000004	0.06	33.63	53.12	0.02
Coyle	Disher_E1	3159	SCS25yr	2.32	183.48	184.6		184.6	0.000007	0.08	35.29	55.12	0.02
Coyle	Disher_E1	3159	SCS50yr	2.93	183.48	184.61		184.61	0.00001	0.1	36.02	56.65	0.03
Coyle	Disher_E1	3159	SCS100yr	3.49	183.48	184.64		184.64	0.000013	0.11	37.5	60.6	0.03
Coyle	Disher_E1	3159	SCS200yr	4.48	183.48	184.66		184.66	0.000021	0.14	38.59	64.11	0.04
Coyle	Disher_E1	3159	RSnow100yr	2.69	183.48	184.61		184.61	0.000009	0.09	35.75	56.16	0.03
Coyle	Disher_E1	3134	SCS2yr	0.86	183.47	184.43	183.56	184.43	0.000005	0.06	14.83	43.7	0.02
Coyle	Disher_E1	3134	SCS5yr	1.27	183.47	184.55	183.58	184.55	0.000002	0.04	36.32	48.32	0.01
Coyle	Disher_E1	3134	SCS10yr	1.67	183.47	184.57	183.6	184.57	0.000003	0.05	37.38	49.11	0.02
Coyle	Disher_E1	3134	SCS25yr	2.32	183.47	184.6	183.62	184.6	0.000006	0.07	38.9	50	0.02
Coyle	Disher_E1	3134	SCS50yr	2.93	183.47	184.61	183.64	184.61	0.000009	0.09	39.55	50.28	0.03
Coyle	Disher_E1	3134	SCS100yr	3.49	183.47	184.64	183.66	184.64	0.000011	0.1	40.84	51.08	0.03
Coyle	Disher_E1	3134	SCS200yr	4.48	183.47	184.65	183.69	184.66	0.000017	0.13	41.72	51.54	0.04
Coyle	Disher_E1	3134	RSnow100yr	2.69	183.47	184.61	183.63	184.61	0.000007	0.08	39.32	50.15	0.02
Coyle	Disher_E1	3122		Culvert									
Coyle	Disher_E1	3113	SCS2yr	0.86	182.58	183.27	182.92	183.28	0.000734	0.48	1.79	6.78	0.22
Coyle	Disher_E1	3113	SCS5yr	1.27	182.58	183.32	182.98	183.34	0.001154	0.64	1.97	7.19	0.27
Coyle	Disher_E1	3113	SCS10yr	1.67	182.58	183.36	183.03	183.39	0.00157	0.79	2.11	8.83	0.32
Coyle	Disher_E1	3113	SCS25yr	2.32	182.58	183.43	183.11	183.48	0.002128	0.98	2.35	14.31	0.38
Coyle	Disher_E1	3113	SCS50yr	2.93	182.58	183.46	183.17	183.53	0.002887	1.19	2.47	16.8	0.45
Coyle	Disher_E1	3113	SCS100yr	3.49	182.58	183.49	183.22	183.59	0.003523	1.35	2.58	17.87	0.5
Coyle	Disher_E1	3113	SCS200yr	4.48	182.58	183.55	183.31	183.68	0.004509	1.61	2.79	20.18	0.57
Coyle	Disher_E1	3113	RSnow100yr	2.69	182.58	183.45	183.15	183.51	0.002599	1.11	2.42	16.22	0.43
Coyle	Disher_E1	3088	SCS2yr	0.86	182.97	183.2		183.23	0.009139	0.8	1.43	11.16	0.64
Coyle	Disher_E1	3088	SCS5yr	1.27	182.97	183.24		183.27	0.009709	0.92	1.83	11.47	0.68
Coyle	Disher_E1	3088	SCS10yr	1.67	182.97	183.26		183.31	0.011184	1.03	2.13	13	0.74
Coyle	Disher_E1	3088	SCS25yr	2.32	182.97	183.26	183.26	183.35	0.021823	1.44	2.12	12.95	1.03
Coyle	Disher_E1	3088	SCS50yr	2.93	182.97	183.36		183.41	0.008399	1.15	3.64	17.84	0.68
Coyle	Disher_E1	3088	SCS100yr	3.49	182.97	183.36		183.43	0.011655	1.36	3.67	17.87	0.8
Coyle	Disher_E1	3088	SCS200yr	4.48	182.97	183.37	183.36	183.48	0.01791	1.71	3.78	18.41	1
Coyle	Disher_E1	3088	RSnow100yr	2.69	182.97	183.36		183.4	0.007196	1.06	3.62	17.82	0.63
Coyle	Disher_E1	3020	SCS2yr	0.86	182.62	182.86		182.87	0.00337	0.53	2.81	28.72	0.4
Coyle	Disher_E1	3020	SCS5yr	1.27	182.62	182.9		182.91	0.003258	0.59	4.02	33.01	0.4
Coyle	Disher_E1	3020	SCS10yr	1.67	182.62	182.94		182.95	0.002915	0.62	5.24	35.43	0.39
Coyle	Disher_E1	3020	SCS25yr	2.32	182.62	183.03		183.04	0.001474	0.54	8.75	39.05	0.29
Coyle	Disher_E1	3020	SCS50yr	2.93	182.62	183.36		183.36	0.000142	0.26	23.88	53.38	0.1
Coyle	Disher_E1	3020	SCS100yr	3.49	182.62	183.37		183.37	0.000197	0.31	24.08	53.66	0.12
Coyle	Disher_E1	3020	SCS200yr	4.48	182.62	183.37		183.38	0.000311	0.39	24.5	54.02	0.15
Coyle	Disher_E1	3020	RSnow100yr	2.69	182.62	183.36		183.36	0.000121	0.24	23.81	53.26	0.09
Coyle	Disher_E1	2938	SCS2yr	0.86	182.21	182.62	182.48	182.64	0.002462	0.61	1.69	16.69	0.36
Coyle	Disher_E1	2938	SCS5yr	1.27	182.21	182.7	182.53	182.72	0.00191	0.63	3.11	20.22	0.33
Coyle	Disher_E1	2938	SCS10yr	1.67	182.21	182.75	182.57	182.77	0.001796	0.67	4.28	25.79	0.33
Coyle	Disher_E1	2938	SCS25yr	2.32	182.21	182.98	182.66	182.98	0.000388	0.41	10.9	32.06	0.17
Coyle	Disher_E1	2938	SCS50yr	2.93	182.21	183.36	182.7	183.36	0.000065	0.23	26.17	46.29	0.07
Coyle	Disher_E1	2938	SCS100yr	3.49	182.21	183.36	182.72	183.36	0.000091	0.27	26.21	46.29	0.09
Coyle	Disher_E1	2938	SCS200yr	4.48	182.21	183.36	182.78	183.36	0.000149	0.35	26.3	46.31	0.11
Coyle	Disher_E1	2938	RSnow100yr	2.69	182.21	183.35	182.68	183.36	0.000055	0.21	26.15	46.28	0.07
Coyle	Disher_E1	2875	SCS2yr	0.86	182.02	182.45		182.47	0.002891	0.66	1.3	24.24	0.39
Coyle	Disher_E1	2875	SCS5yr	1.27	182.02	182.56		182.59	0.002272	0.7	1.83	27.7	0.36
Coyle	Disher_E1	2875	SCS10yr	1.67	182.02	182.62		182.65	0.00213	0.74	3.13	32.37	0.36
Coyle	Disher_E1	2875	SCS25yr	2.32	182.02	182.97		182.97	0.000124	0.26	17.66	55.04	0.1
Coyle	Disher_E1	2875	SCS50yr	2.93	182.02	183.35		183.35	0.000019	0.14	44.74	82.88	0.04
Coyle	Disher_E1	2875	SCS100yr	3.49	182.02	183.35		183.35	0.000027	0.16	44.76	82.89	0.05
Coyle	Disher_E1	2875	SCS200yr	4.48	182.02	183.35		183.36	0.000045	0.21	44.81	82.91	0.06
Coyle	Disher_E1	2875	RSnow100yr	2.69	182.02	183.35		183.35	0.000016	0.12	44.73	82.87	0.04
Coyle	Disher_E1	2820	SCS2yr	0.86	181.73	182.29	182.1	182.32	0.002763	0.74	1.37	8.59	0.39
Coyle	Disher_E1	2820	SCS5yr	1.27	181.73	182.2		182.32	0.015455	1.49	0.85	2.94	0.88
Coyle	Disher_E1	2820	SCS10yr	1.67	181.73	182.26	182.26	182.39	0.014741	1.61	1.13	6.63	0.88
Coyle	Disher_E1	2820	SCS25yr	2.32	181.73	182.96		182.97	0.000042	0.18	28.18	69.15	0.06
Coyle	Disher_E1	2820	SCS50yr	2.93	181.73	183.35		183.35	0.000007	0.09	82.79	226.11	0.03
Coyle	Disher_E1	2820	SCS100yr	3.49	181.73	183.35		183.35	0.00001	0.11	82.81	226.16	0.03
Coyle	Disher_E1	2820	SCS200yr	4.48	181.73	183.35		183.35	0.000017	0.14	82.84	226.25	0.04
Coyle	Disher_E1	2820	RSnow100yr	2.69	181.73	183.35		183.35	0.000006	0.09	82.78	226.09	0.02
Coyle	Disher_E1	2740	SCS2yr	0.86	181.49	181.8	181.8	181.86	0.01661	1.16	0.87	12.18	0.88

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_E1	2740	SCS5yr	1.27	181.49	181.97		181.98	0.001706	0.53	5.02	38.89	0.31
Coyle	Disher_E1	2740	SCS10yr	1.67	181.49	182.24		182.24	0.000119	0.21	18.27	55.38	0.09
Coyle	Disher_E1	2740	SCS25yr	2.32	181.49	182.96		182.96	0.000005	0.08	98.93	214.46	0.02
Coyle	Disher_E1	2740	SCS50yr	2.93	181.49	183.35		183.35	0.000001	0.04	212.14	399.46	0.01
Coyle	Disher_E1	2740	SCS100yr	3.49	181.49	183.35		183.35	0.000002	0.05	212.15	399.48	0.01
Coyle	Disher_E1	2740	SCS200yr	4.48	181.49	183.35		183.35	0.000003	0.06	212.17	399.52	0.02
Coyle	Disher_E1	2740	RSnow100yr	2.69	181.49	183.35		183.35	0.000001	0.04	212.14	399.44	0.01
Coyle	Disher_E1	2689	SCS2yr	0.86	181.22	181.72		181.72	0.000874	0.37	5.49	41.43	0.22
Coyle	Disher_E1	2689	SCS5yr	1.27	181.22	181.96		181.96	0.000094	0.18	16.52	49.66	0.08
Coyle	Disher_E1	2689	SCS10yr	1.67	181.22	182.24		182.24	0.000025	0.12	31.61	58.3	0.04
Coyle	Disher_E1	2689	SCS25yr	2.32	181.22	182.96		182.96	0.000001	0.04	180.3	341.93	0.01
Coyle	Disher_E1	2689	SCS50yr	2.93	181.22	183.35		183.35	0	0.02	333.7	440.74	0.01
Coyle	Disher_E1	2689	SCS100yr	3.49	181.22	183.35		183.35	0	0.03	333.71	440.74	0.01
Coyle	Disher_E1	2689	SCS200yr	4.48	181.22	183.35		183.35	0.000001	0.03	333.71	440.74	0.01
Coyle	Disher_E1	2689	RSnow100yr	2.69	181.22	183.35		183.35	0	0.02	333.7	440.74	0
Coyle	Disher_E1	2653	SCS2yr	0.86	181.14	181.7	181.44	181.71	0.000293	0.27	7.7	44.41	0.13
Coyle	Disher_E1	2653	SCS5yr	1.27	181.14	181.96	181.5	181.96	0.000051	0.16	21.32	59.68	0.06
Coyle	Disher_E1	2653	SCS10yr	1.67	181.14	182.24	181.53	182.24	0.000017	0.11	45.39	124.58	0.04
Coyle	Disher_E1	2653	SCS25yr	2.32	181.14	182.96	181.59	182.96	0.000001	0.03	230.61	376.5	0.01
Coyle	Disher_E1	2653	SCS50yr	2.93	181.14	183.35	181.61	183.35	0	0.02	384.79	405.83	0
Coyle	Disher_E1	2653	SCS100yr	3.49	181.14	183.35	181.63	183.35	0	0.03	384.79	405.83	0.01
Coyle	Disher_E1	2653	SCS200yr	4.48	181.14	183.35	181.66	183.35	0.000001	0.03	384.79	405.83	0.01
Coyle	Disher_E1	2653	RSnow100yr	2.69	181.14	183.35	181.6	183.35	0	0.02	384.79	405.83	0
Coyle	Disher_E1	2641	SCS2yr	0.86	180.85	181.7	181.12	181.7	0.000096	0.21	4.05	66.8	0.08
Coyle	Disher_E1	2641	SCS5yr	1.27	180.85	181.95	181.17	181.96	0.000073	0.23	5.56	83.08	0.08
Coyle	Disher_E1	2641	SCS10yr	1.67	180.85	182.24	181.22	182.24	0.000052	0.23	7.26	260.89	0.07
Coyle	Disher_E1	2641	SCS25yr	2.32	180.85	182.96	181.27	182.96	0.000021	0.2	11.6	399.49	0.05
Coyle	Disher_E1	2641	SCS50yr	2.93	180.85	183.35	181.32	183.35	0	0.02	331	473.45	0
Coyle	Disher_E1	2641	SCS100yr	3.49	180.85	183.35	181.35	183.35	0	0.03	331	473.45	0.01
Coyle	Disher_E1	2641	SCS200yr	4.48	180.85	183.35	181.41	183.35	0.000001	0.03	331	473.45	0.01
Coyle	Disher_E1	2641	RSnow100yr	2.69	180.85	183.35	181.3	183.35	0	0.02	331	473.45	0
Coyle	Disher_E1	2630		Culvert									
Coyle	Disher_E1	2619	SCS2yr	0.86	180.82	181.17	181.1	181.21	0.006901	0.91	0.95	14.21	0.59
Coyle	Disher_E1	2619	SCS5yr	1.27	180.82	181.21	181.15	181.28	0.009315	1.16	1.1	14.88	0.71
Coyle	Disher_E1	2619	SCS10yr	1.67	180.82	181.23	181.2	181.33	0.012849	1.42	1.17	15.09	0.84
Coyle	Disher_E1	2619	SCS25yr	2.32	180.82	181.43	181.26	181.5	0.004219	1.16	2	28.68	0.52
Coyle	Disher_E1	2619	SCS50yr	2.93	180.82	181.46	181.31	181.56	0.005757	1.4	2.09	31.28	0.62
Coyle	Disher_E1	2619	SCS100yr	3.49	180.82	181.49	181.36	181.61	0.006822	1.58	2.21	32.92	0.68
Coyle	Disher_E1	2619	SCS200yr	4.48	180.82	181.48	181.44	181.7	0.011811	2.06	2.18	32.45	0.89
Coyle	Disher_E1	2619	RSnow100yr	2.69	180.82	181.45	181.29	181.53	0.005285	1.32	2.04	30.28	0.59
Coyle	Disher_E1	2604	SCS2yr	0.86	180.87	181.15	181.03	181.16	0.001497	0.36	2.37	12.45	0.27
Coyle	Disher_E1	2604	SCS5yr	1.27	180.87	181.19	181.06	181.2	0.00182	0.45	2.84	12.7	0.3
Coyle	Disher_E1	2604	SCS10yr	1.67	180.87	181.2	181.08	181.22	0.002703	0.56	2.99	12.79	0.37
Coyle	Disher_E1	2604	SCS25yr	2.32	180.87	181.45	181.11	181.46	0.000469	0.36	6.45	14.8	0.17
Coyle	Disher_E1	2604	SCS50yr	2.93	180.87	181.48	181.14	181.49	0.000587	0.42	6.96	15	0.19
Coyle	Disher_E1	2604	SCS100yr	3.49	180.87	181.52	181.16	181.53	0.000641	0.47	7.55	15.23	0.21
Coyle	Disher_E1	2604	SCS200yr	4.48	180.87	181.55	181.2	181.56	0.00092	0.58	7.89	15.36	0.25
Coyle	Disher_E1	2604	RSnow100yr	2.69	180.87	181.47	181.13	181.48	0.000559	0.4	6.7	14.9	0.19
Coyle	Disher_E1	2541	SCS2yr	0.86	180.77	180.84	180.84	180.88	0.047417	0.82	1.03	11.56	1.19
Coyle	Disher_E1	2541	SCS5yr	1.27	180.77	180.92		180.94	0.015884	0.72	2.18	19.47	0.77
Coyle	Disher_E1	2541	SCS10yr	1.67	180.77	181.11		181.12	0.000955	0.37	8.18	69.56	0.23
Coyle	Disher_E1	2541	SCS25yr	2.32	180.77	181.45		181.45	0.000067	0.17	27.58	101.05	0.07
Coyle	Disher_E1	2541	SCS50yr	2.93	180.77	181.48		181.48	0.000083	0.19	31.1	108.06	0.08
Coyle	Disher_E1	2541	SCS100yr	3.49	180.77	181.52		181.52	0.000087	0.2	35.61	116.68	0.08
Coyle	Disher_E1	2541	SCS200yr	4.48	180.77	181.54		181.54	0.000123	0.25	38.09	119.77	0.1
Coyle	Disher_E1	2541	RSnow100yr	2.69	180.77	181.46		181.46	0.00008	0.19	29.23	105.16	0.07
Coyle	Disher_E1	2486	SCS2yr	0.86	180.51	180.75		180.75	0.000674	0.23	6.71	62.64	0.17
Coyle	Disher_E1	2486	SCS5yr	1.27	180.51	180.92		180.92	0.000069	0.11	19.6	84.37	0.06
Coyle	Disher_E1	2486	SCS10yr	1.67	180.51	181.11		181.11	0.000018	0.08	38.02	105.52	0.03
Coyle	Disher_E1	2486	SCS25yr	2.32	180.51	181.45		181.45	0.000005	0.05	78.73	140.35	0.02
Coyle	Disher_E1	2486	SCS50yr	2.93	180.51	181.48		181.48	0.000006	0.07	83.49	145.71	0.02
Coyle	Disher_E1	2486	SCS100yr	3.49	180.51	181.52		181.52	0.000008	0.07	89.47	154.14	0.02
Coyle	Disher_E1	2486	SCS200yr	4.48	180.51	181.54		181.54	0.000011	0.09	92.72	157.68	0.03
Coyle	Disher_E1	2486	RSnow100yr	2.69	180.51	181.46		181.46	0.000006	0.06	80.97	142.52	0.02
Coyle	Disher_E1	2462	SCS2yr	0.86	180.31	180.74		180.74	0.000141	0.14	11.69	73.05	0.09
Coyle	Disher_E1	2462	SCS5yr	1.27	180.31	180.92		180.92	0.00003	0.09	25.94	89.41	0.04
Coyle	Disher_E1	2462	SCS10yr	1.67	180.31	181.11		181.11	0.000011	0.07	46.5	132.1	0.03
Coyle	Disher_E1	2462	SCS25yr	2.32	180.31	181.45		181.45	0.000003	0.05	106.89	222.43	0.01
Coyle	Disher_E1	2462	SCS50yr	2.93	180.31	181.48		181.48	0.000004	0.06	114.37	225.46	0.02
Coyle	Disher_E1	2462	SCS100yr	3.49	180.31	181.52		181.52	0.000004	0.06	123.44	228.71	0.02
Coyle	Disher_E1	2462	SCS200yr	4.48	180.31	181.54		181.54	0.000006	0.07	128.21	230.16	0.02
Coyle	Disher_E1	2462	RSnow100yr	2.69	180.31	181.46		181.46	0.000003	0.05	110.45	224.71	0.02
Coyle	Disher_E1	2454	SCS2yr	0.86	180.1	180.74	180.43	180.74	0.000355	0.29	3.16	66.78	0.15
Coyle	Disher_E1	2454	SCS5yr	1.27	180.1	180.91	180.47	180.92	0.000208	0.28	4.93	86.86	0.12
Coyle	Disher_E1	2454	SCS10yr	1.67	180.1	181.11	180.51	181.11	0.000128	0.27	6.86	122.96	0.1
Coyle	Disher_E1	2454	SCS25yr	2.32	180.1	181.45	180.56	181.45	0.000003	0.05	61.12	204.32	0.01
Coyle	Disher_E1	2454	SCS50yr	2.93	180.1	181.48	180.6	181.48	0.000002	0.04	105.12	211	0.01
Coyle	Disher_E1	2454	SCS100yr	3.49	180.1	181.52	180.63	181.52	0.000002	0.04	113.79	223.69	0.01
Coyle	Disher_E1	2454	SCS200yr	4.48	180.1	181.54	180.68	181.54	0.000003	0.05	118.52	229.44	0.02
Coyle	Disher_E1	2454	RSnow100yr	2.69	180.1	181.46	180.59	181.46	0.000002	0.04	101.48	207.24	0.01
Coyle	Disher_E1	2443		Culvert									
Coyle	Disher_E1	2435	SCS2yr	1.85	179.97	180.59	180.53	180.67	0.010727	1.28	1.45	10.12	0.75
Coyle	Disher_E1	2435	SCS5yr	2.68	179.97	180.64	180.62	180.76	0.01355	1.58	1.71	32.16	0.86
Coyle	Disher_E1	2435	SCS10yr	3.48	179.97	180.68	180.68	180.84	0.014676	1.78	1.96	42.22	0.91
Coyle	Disher_E1	2435	SCS25yr	4.77	179.97	180.74	180.74	180.96	0.015335	2.01	2.34	51.07	0.96
Coyle	Disher_E1	2435	SCS50yr	5.96	179.97	180.8	180.8	181.07	0.015075	2.15	2.67	57.02	0.97
Coyle	Disher_E1	2435	SCS100yr	7.04	179.97	180.85	180.85	181.16	0.0144	2.24	2.98	65.01	0.96
Coyle	Disher_E1	2435	SCS200yr	8.94	179.97	180.94	180.94	181.33	0.012743	2.33	3.53	76.94	0.93
Coyle	Disher_E1	2435	RSnow100yr	5.04	179.97	180.76	180.76	180.98	0.01523	2.04	2.42	52.24	0.96
Coyle	Disher_E1	2419	SCS2yr	1.85	180.07	180.49		180.53	0.004946	0.9	2.86	23.65	0.52
Coyle	Disher_E1	2419	SCS5yr	2.68	180.07	180.55		180.59	0.005072	1.02	4.38	34.83	0.54
Coyle	Disher_E1	2419	SCS10yr	3.48	180.07	180.59	180.54	180.63	0.005244	1.11	6.01	48.31	0.56
Coyle	Disher_E1	2419	SCS25yr	4.77	180.07	180.63		180.68	0.005532	1.22	8.2	52.38	0.59
Coyle	Disher_E1	2419	SCS50yr	5.96	180.07	180.66		180.72	0.005813	1.31	9.89	55.82	0.61
Coyle	Disher_E1	2419	SCS100yr	7.04	180.07	180.69		180.75	0.005949	1.37	11.44	60.57	0.62
Coyle	Disher_E1	2419	SCS200yr	8.94	180.07	180.73		180.79	0.006079	1.46	13.92	64.87	0.64
Coyle	Disher_E1	2419	RSnow100yr	5.04	180.07	180.64		180.69	0.005537	1.24	8.66	53.61	0.59
Coyle	Disher_E1	2362	SCS2yr	1.85	179.8	180.24		180.27	0.004398	0.74	2.97	24.9	0.48
Coyle	Disher_E1	2362	SCS5yr	2.68	179.8	180.29		180.32	0.004454	0.83	4.4	35.15	0.49
Coyle	Disher_E1	2362	SCS10yr	3.48	179.8	180.32		180.36	0.004461	0.9	5.77	48.06	0.5
Coyle	Disher_E1	2362	SCS25yr	4.77	179.8	180.37		180.4	0.004243	0.96	8.32	59.47	0.5
Coyle	Disher_E1	2362	SCS50yr	5.96	179.8	180.4		180.44	0.004041	0.99	10.47	63.65	0.5

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_E1	2362	SCS100yr	7.04	179.8	180.43		180.46	0.003989	1.03	12.18	68.14	0.5
Coyle	Disher_E1	2362	SCS200yr	8.94	179.8	180.47		180.51	0.003961	1.08	14.99	75.77	0.5
Coyle	Disher_E1	2362	RSnow100yr	5.04	179.8	180.38		180.41	0.004258	0.97	8.77	60.33	0.5
Coyle	Disher_E1	2309	SCS2yr	1.85	179.57	180.03	179.98	180.06	0.003562	0.82	3.9	31.6	0.45
Coyle	Disher_E1	2309	SCS5yr	2.68	179.57	180.08	180.02	180.11	0.003528	0.89	5.64	40.13	0.46
Coyle	Disher_E1	2309	SCS10yr	3.48	179.57	180.12	180.05	180.14	0.003489	0.94	7.23	45.8	0.46
Coyle	Disher_E1	2309	SCS25yr	4.77	179.57	180.17	180.08	180.19	0.003497	1.01	9.78	58.74	0.47
Coyle	Disher_E1	2309	SCS50yr	5.96	179.57	180.2		180.23	0.003659	1.09	11.93	65.98	0.49
Coyle	Disher_E1	2309	SCS100yr	7.04	179.57	180.23		180.26	0.003652	1.12	13.76	69.17	0.49
Coyle	Disher_E1	2309	SCS200yr	8.94	179.57	180.27		180.3	0.003558	1.17	17.28	87.27	0.49
Coyle	Disher_E1	2309	RSnow100yr	5.04	179.57	180.18	180.09	180.2	0.003472	1.02	10.32	61.37	0.47
Coyle	Disher_E1	2207	SCS2yr	1.85	179.3	179.69	179.61	179.71	0.003267	0.6	3.83	27.28	0.4
Coyle	Disher_E1	2207	SCS5yr	2.68	179.3	179.73	179.65	179.75	0.003428	0.69	5.11	37.08	0.43
Coyle	Disher_E1	2207	SCS10yr	3.48	179.3	179.76	179.68	179.79	0.003544	0.76	6.4	45.06	0.44
Coyle	Disher_E1	2207	SCS25yr	4.77	179.3	179.81	179.71	179.83	0.003623	0.84	8.62	55.19	0.46
Coyle	Disher_E1	2207	SCS50yr	5.96	179.3	179.84	179.75	179.87	0.003436	0.87	10.74	62.67	0.45
Coyle	Disher_E1	2207	SCS100yr	7.04	179.3	179.87	179.78	179.9	0.003481	0.92	12.42	72.94	0.46
Coyle	Disher_E1	2207	SCS200yr	8.94	179.3	179.91	179.82	179.94	0.003651	1	15.35	78.78	0.48
Coyle	Disher_E1	2207	RSnow100yr	5.04	179.3	179.82	179.72	179.84	0.003625	0.85	9.04	56.27	0.46
Coyle	Disher_E1	2143	SCS2yr	1.85	179.15	179.55		179.56	0.001733	0.39	6.31	53.67	0.29
Coyle	Disher_E1	2143	SCS5yr	2.68	179.15	179.59		179.59	0.001826	0.45	8.3	60.99	0.3
Coyle	Disher_E1	2143	SCS10yr	3.48	179.15	179.61		179.62	0.001911	0.49	10.07	69.84	0.32
Coyle	Disher_E1	2143	SCS25yr	4.77	179.15	179.65		179.66	0.001981	0.55	12.96	75.31	0.33
Coyle	Disher_E1	2143	SCS50yr	5.96	179.15	179.66		179.68	0.002626	0.65	13.77	76.62	0.38
Coyle	Disher_E1	2143	SCS100yr	7.04	179.15	179.68		179.7	0.002706	0.69	15.4	78.9	0.39
Coyle	Disher_E1	2143	SCS200yr	8.94	179.15	179.73		179.74	0.00253	0.73	18.86	85.98	0.39
Coyle	Disher_E1	2143	RSnow100yr	5.04	179.15	179.66		179.67	0.002015	0.57	13.41	75.98	0.33
Coyle	Disher_E1	2067	SCS2yr	1.85	179.03	179.34	179.3	179.36	0.004396	0.65	4.62	65.49	0.46
Coyle	Disher_E1	2067	SCS5yr	2.68	179.03	179.37	179.33	179.39	0.004252	0.7	6.68	72.87	0.46
Coyle	Disher_E1	2067	SCS10yr	3.48	179.03	179.39		179.41	0.004325	0.75	8.21	73.98	0.48
Coyle	Disher_E1	2067	SCS25yr	4.77	179.03	179.41		179.44	0.004937	0.85	9.96	76.15	0.52
Coyle	Disher_E1	2067	SCS50yr	5.96	179.03	179.5		179.51	0.001887	0.62	16.55	84.47	0.33
Coyle	Disher_E1	2067	SCS100yr	7.04	179.03	179.56		179.56	0.001249	0.56	21.93	104.19	0.28
Coyle	Disher_E1	2067	SCS200yr	8.94	179.03	179.61		179.62	0.001061	0.56	28.74	128.98	0.26
Coyle	Disher_E1	2067	RSnow100yr	5.04	179.03	179.42		179.44	0.004596	0.83	10.65	76.59	0.5
Coyle	Disher_E1	1982	SCS2yr	1.85	178.86	179.12		179.13	0.001793	0.41	7.88	71.84	0.3
Coyle	Disher_E1	1982	SCS5yr	2.68	178.86	179.16		179.17	0.001708	0.45	10.64	78.5	0.3
Coyle	Disher_E1	1982	SCS10yr	3.48	178.86	179.19		179.2	0.001581	0.47	13.13	82.95	0.29
Coyle	Disher_E1	1982	SCS25yr	4.77	178.86	179.26		179.26	0.001056	0.45	18.98	92.47	0.25
Coyle	Disher_E1	1982	SCS50yr	5.96	178.86	179.47		179.47	0.000193	0.26	40.62	124.09	0.11
Coyle	Disher_E1	1982	SCS100yr	7.04	178.86	179.53		179.53	0.000158	0.26	48.59	127.21	0.11
Coyle	Disher_E1	1982	SCS200yr	8.94	178.86	179.59		179.59	0.000167	0.28	56.21	137.59	0.11
Coyle	Disher_E1	1982	RSnow100yr	5.04	178.86	179.26		179.27	0.00116	0.47	19.09	92.62	0.26
Coyle	Disher_E1	1920	SCS2yr	1.85	178.7	179.01		179.02	0.001845	0.49	6.89	53.03	0.31
Coyle	Disher_E1	1920	SCS5yr	2.68	178.7	179.05		179.06	0.001703	0.53	9.22	54.63	0.31
Coyle	Disher_E1	1920	SCS10yr	3.48	178.7	179.1		179.1	0.001534	0.54	11.51	58.37	0.3
Coyle	Disher_E1	1920	SCS25yr	4.77	178.7	179.2		179.21	0.000775	0.46	18.12	63.85	0.22
Coyle	Disher_E1	1920	SCS50yr	5.96	178.7	179.46		179.46	0.000167	0.29	38.91	96.75	0.11
Coyle	Disher_E1	1920	SCS100yr	7.04	178.7	179.52		179.52	0.000161	0.3	45.51	108.13	0.11
Coyle	Disher_E1	1920	SCS200yr	8.94	178.7	179.58		179.58	0.000181	0.34	51.78	114.32	0.12
Coyle	Disher_E1	1920	RSnow100yr	5.04	178.7	179.2		179.2	0.00094	0.51	17.6	63.46	0.24
Coyle	Disher_E1	1844	SCS2yr	1.85	178.57	178.89	178.77	178.89	0.001488	0.43	7.36	44.27	0.28
Coyle	Disher_E1	1844	SCS5yr	2.68	178.57	178.93	178.79	178.93	0.001682	0.5	9.21	47.6	0.3
Coyle	Disher_E1	1844	SCS10yr	3.48	178.57	179	178.81	179.01	0.001045	0.46	12.98	54.17	0.24
Coyle	Disher_E1	1844	SCS25yr	4.77	178.57	179.16	178.84	179.16	0.000443	0.38	22.83	74.78	0.17
Coyle	Disher_E1	1844	SCS50yr	5.96	178.57	179.45	178.86	179.45	0.000091	0.23	47.13	92.96	0.08
Coyle	Disher_E1	1844	SCS100yr	7.04	178.57	179.51	178.88	179.51	0.00009	0.24	53.23	96.82	0.08
Coyle	Disher_E1	1844	SCS200yr	8.94	178.57	179.57	178.91	179.57	0.00011	0.28	58.69	101.11	0.09
Coyle	Disher_E1	1844	RSnow100yr	5.04	178.57	179.14	178.85	179.15	0.000545	0.41	21.57	70.16	0.19
Coyle	Disher_E1	1761	SCS2yr	1.85	178.48	178.74	178.66	178.75	0.002155	0.45	6.26	50.67	0.32
Coyle	Disher_E1	1761	SCS5yr	2.68	178.48	178.82	178.69	178.83	0.001018	0.39	10.74	57.51	0.24
Coyle	Disher_E1	1761	SCS10yr	3.48	178.48	178.96	178.7	178.96	0.000328	0.29	19.29	67.48	0.14
Coyle	Disher_E1	1761	SCS25yr	4.77	178.48	179.14	178.72	179.14	0.000138	0.24	32.85	79.69	0.1
Coyle	Disher_E1	1761	SCS50yr	5.96	178.48	179.44	178.75	179.44	0.00004	0.17	68.82	164.43	0.06
Coyle	Disher_E1	1761	SCS100yr	7.04	178.48	179.51	178.76	179.51	0.000039	0.18	80.22	184.21	0.06
Coyle	Disher_E1	1761	SCS200yr	8.94	178.48	179.56	178.79	179.56	0.00005	0.21	90.68	203.87	0.06
Coyle	Disher_E1	1761	RSnow100yr	5.04	178.48	179.12	178.73	179.12	0.000178	0.27	31.08	77.89	0.11
Coyle	Disher_E1	1704	SCS2yr	1.85	178.31	178.69		178.69	0.000511	0.28	11.68	64.87	0.17
Coyle	Disher_E1	1704	SCS5yr	2.68	178.31	178.8		178.8	0.000263	0.25	19.29	75.7	0.13
Coyle	Disher_E1	1704	SCS10yr	3.48	178.31	178.95		178.95	0.000111	0.2	32.36	98.27	0.09
Coyle	Disher_E1	1704	SCS25yr	4.77	178.31	179.14		179.14	0.000051	0.17	54.52	130.78	0.06
Coyle	Disher_E1	1704	SCS50yr	5.96	178.31	179.44		179.44	0.000014	0.11	119.52	300.85	0.03
Coyle	Disher_E1	1704	SCS100yr	7.04	178.31	179.51		179.51	0.000014	0.11	139.64	319.63	0.03
Coyle	Disher_E1	1704	SCS200yr	8.94	178.31	179.56		179.56	0.000017	0.13	157.44	339.29	0.04
Coyle	Disher_E1	1704	RSnow100yr	5.04	178.31	179.12		179.12	0.000067	0.19	51.47	128.23	0.07
Coyle	Disher_E1	1648	SCS2yr	1.85	178.11	178.67	178.36	178.68	0.00015	0.2	14.75	64.85	0.1
Coyle	Disher_E1	1648	SCS5yr	2.68	178.11	178.79	178.4	178.79	0.000104	0.2	23.25	82.37	0.08
Coyle	Disher_E1	1648	SCS10yr	3.48	178.11	178.95	178.45	178.95	0.000049	0.16	38.89	112.84	0.06
Coyle	Disher_E1	1648	SCS25yr	4.77	178.11	179.14	178.49	179.14	0.000027	0.14	63.28	146.84	0.05
Coyle	Disher_E1	1648	SCS50yr	5.96	178.11	179.44	178.53	179.44	0.000009	0.1	115.99	191.06	0.03
Coyle	Disher_E1	1648	SCS100yr	7.04	178.11	179.51	178.55	179.51	0.00001	0.1	128.48	194.08	0.03
Coyle	Disher_E1	1648	SCS200yr	8.94	178.11	179.56	178.58	179.56	0.000012	0.12	138.99	197.55	0.03
Coyle	Disher_E1	1648	RSnow100yr	5.04	178.11	179.11	178.51	179.11	0.000034	0.15	59.77	141.26	0.05
Coyle	Disher_E1	1627	SCS2yr	1.85	178.09	178.66	178.33	178.67	0.000494	0.39	4.79	77.33	0.18
Coyle	Disher_E1	1627	SCS5yr	2.68	178.09	178.77	178.38	178.78	0.000522	0.46	5.89	85.54	0.19
Coyle	Disher_E1	1627	SCS10yr	3.48	178.09	178.93	178.41	178.94	0.000399	0.47	7.47	107.31	0.17
Coyle	Disher_E1	1627	SCS25yr	4.77	178.09	179.12	178.47	179.13	0.000353	0.51	9.36	146.33	0.17
Coyle	Disher_E1	1627	SCS50yr	5.96	178.09	179.44	178.51	179.44	0.000002	0.05	113.86	171.16	0.01
Coyle	Disher_E1	1627	SCS100yr	7.04	178.09	179.51	178.55	179.51	0.000002	0.05	125.32	181.29	0.01
Coyle	Disher_E1	1627	SCS200yr	8.94	178.09	179.56	178.62	179.56	0.000003	0.06	135.14	187.66	0.02
Coyle	Disher_E1	1627	RSnow100yr	5.04	178.09	179.09	178.48	179.11	0.000435	0.55	9.09	144.61	0.19
Coyle	Disher_E1	1600		Bridge									
Coyle	Disher_E1	1581	SCS2yr	3.01	177.67	178.56	178.25	178.58	0.001388	0.69	4.38	62.84	0.3
Coyle	Disher_E1	1581	SCS5yr	4.49	177.67	178.63	178.34	178.67	0.001981	0.89	5.03	67.75	0.37
Coyle	Disher_E1	1581	SCS10yr	5.88	177.67	178.68	178.41	178.73	0.002451	1.05	5.54	68.76	0.41
Coyle	Disher_E1	1581	SCS25yr	8.12	177.67	178.82	178.51	178.89	0.002161	1.12	6.93	71.15	0.4
Coyle	Disher_E1	1581	SCS50yr	10.22	177.67	179.12	178.6	179.12	0.000018	0.13	49.17	77.09	0.04
Coyle	Disher_E1	1581	SCS100yr	12.08	177.67	179.2	178.65	179.21	0.000016	0.13	55.89	78.85	0.04
Coyle	Disher_E1	1581	SCS200yr	13.19	177.67	179.28	178.67	179.28	0.000014	0.12	62.11	80.78	0.03
Coyle	Disher_E1	1581	RSnow100yr	8.48	177.67	178.84	178.53	178.92	0.002085	1.12	7.17	71.78	0.4
Coyle	Disher_E1	1572	SCS2yr	3.01	178.03	178.57		178.57	0.000331	0.28	11.06	77.17	0.14
Coyle	Disher_E1	1572	SCS5yr	4.49	178.03	178.64		178.64	0.000191	0.24	17.03	82.35	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_E1	1572	SCS10yr	5.88	178.03	178.7		178.71	0.000142	0.22	22.06	84.68	0.1
Coyle	Disher_E1	1572	SCS25yr	8.12	178.03	178.85		178.85	0.000062	0.17	35.34	95.85	0.07
Coyle	Disher_E1	1572	SCS50yr	10.22	178.03	179.12		179.12	0.000017	0.11	63.06	107.99	0.04
Coyle	Disher_E1	1572	SCS100yr	12.08	178.03	179.2		179.21	0.000016	0.12	72.56	111.91	0.04
Coyle	Disher_E1	1572	SCS200yr	13.19	178.03	179.28		179.28	0.000014	0.11	81.52	118.65	0.03
Coyle	Disher_E1	1572	RSnow100yr	8.48	178.03	178.88		178.88	0.000057	0.17	37.89	99.65	0.06
Coyle	Disher_E1	1502	SCS2yr	3.01	177.91	178.51		178.53	0.001722	0.7	7.16	32.3	0.33
Coyle	Disher_E1	1502	SCS5yr	4.49	177.91	178.6		178.61	0.001651	0.77	10.16	36.5	0.33
Coyle	Disher_E1	1502	SCS10yr	5.88	177.91	178.66		178.68	0.001646	0.83	12.62	39.2	0.34
Coyle	Disher_E1	1502	SCS25yr	8.12	177.91	178.83		178.84	0.001006	0.76	19.67	46	0.28
Coyle	Disher_E1	1502	SCS50yr	10.22	177.91	179.11		179.12	0.000375	0.57	34.4	58.34	0.18
Coyle	Disher_E1	1502	SCS100yr	12.08	177.91	179.19		179.2	0.00037	0.6	39.64	63.69	0.18
Coyle	Disher_E1	1502	SCS200yr	13.19	177.91	179.27		179.28	0.000319	0.58	44.86	68.28	0.17
Coyle	Disher_E1	1502	RSnow100yr	8.48	177.91	178.85		178.87	0.000937	0.75	20.94	47.44	0.27
Coyle	Disher_E1	1426	SCS2yr	3.01	177.67	178.37		178.39	0.001901	0.78	6.07	27.69	0.35
Coyle	Disher_E1	1426	SCS5yr	4.49	177.67	178.45		178.48	0.001953	0.88	9.09	39.05	0.36
Coyle	Disher_E1	1426	SCS10yr	5.88	177.67	178.53		178.55	0.001746	0.9	12.32	48.36	0.35
Coyle	Disher_E1	1426	SCS25yr	8.12	177.67	178.78		178.79	0.000478	0.58	30.28	81.43	0.19
Coyle	Disher_E1	1426	SCS50yr	10.22	177.67	179.1		179.1	0.000132	0.37	58.77	102.96	0.11
Coyle	Disher_E1	1426	SCS100yr	12.08	177.67	179.18		179.19	0.000124	0.38	68.02	115.43	0.1
Coyle	Disher_E1	1426	SCS200yr	13.19	177.67	179.26		179.27	0.000109	0.37	77.8	124.56	0.1
Coyle	Disher_E1	1426	RSnow100yr	8.48	177.67	178.81		178.82	0.000417	0.56	32.96	82.39	0.18
Coyle	Disher_E2	956	SCS2yr	0.39	180.07	180.28	180.24	180.31	0.010665	0.76	0.51	3.87	0.67
Coyle	Disher_E2	956	SCS5yr	0.61	180.07	180.36	180.29	180.39	0.006378	0.72	0.85	5.14	0.54
Coyle	Disher_E2	956	SCS10yr	0.83	180.07	180.43	180.32	180.45	0.004237	0.64	1.32	10.43	0.45
Coyle	Disher_E2	956	SCS25yr	1.16	180.07	180.5	180.38	180.51	0.001519	0.43	2.68	28.46	0.28
Coyle	Disher_E2	956	SCS50yr	1.46	180.07	180.55	180.43	180.55	0.000744	0.33	4.17	40.67	0.2
Coyle	Disher_E2	956	SCS100yr	1.72	180.07	180.58	180.45	180.58	0.00046	0.28	5.63	51.24	0.16
Coyle	Disher_E2	956	SCS200yr	2.17	180.07	180.62	180.49	180.62	0.000277	0.24	7.86	63.32	0.13
Coyle	Disher_E2	956	RSnow100yr	1.22	180.07	180.51	180.39	180.52	0.001264	0.4	2.97	30.36	0.26
Coyle	Disher_E2	932	SCS2yr	0.39	179.93	180.29	180.04	180.29	0.000175	0.14	2.75	12.02	0.09
Coyle	Disher_E2	932	SCS5yr	0.61	179.93	180.37	180.07	180.37	0.000196	0.16	3.77	14.46	0.1
Coyle	Disher_E2	932	SCS10yr	0.83	179.93	180.43	180.09	180.43	0.000197	0.18	4.84	23.78	0.1
Coyle	Disher_E2	932	SCS25yr	1.16	179.93	180.5	180.12	180.5	0.000177	0.19	7.4	45.9	0.1
Coyle	Disher_E2	932	SCS50yr	1.46	179.93	180.54	180.14	180.54	0.000178	0.21	9.66	54.85	0.1
Coyle	Disher_E2	932	SCS100yr	1.72	179.93	180.57	180.16	180.57	0.000181	0.22	11.43	57.52	0.11
Coyle	Disher_E2	932	SCS200yr	2.17	179.93	180.61	180.19	180.61	0.000198	0.25	13.81	61.74	0.11
Coyle	Disher_E2	932	RSnow100yr	1.22	179.93	180.51	180.12	180.51	0.000177	0.2	7.87	48.69	0.1
Coyle	Disher_E2	880	SCS2yr	0.39	179.93	180.27	180.1	180.27	0.000713	0.28	2.53	15.6	0.19
Coyle	Disher_E2	880	SCS5yr	0.61	179.93	180.35	180.15	180.35	0.000662	0.29	3.89	20.42	0.18
Coyle	Disher_E2	880	SCS10yr	0.83	179.93	180.41	180.18	180.41	0.000616	0.32	5.59	40.41	0.18
Coyle	Disher_E2	880	SCS25yr	1.16	179.93	180.48	180.21	180.48	0.000467	0.32	9.01	51.48	0.16
Coyle	Disher_E2	880	SCS50yr	1.46	179.93	180.53	180.23	180.53	0.00042	0.32	11.53	63.07	0.16
Coyle	Disher_E2	880	SCS100yr	1.72	179.93	180.56	180.25	180.56	0.000426	0.34	13.67	72.86	0.16
Coyle	Disher_E2	880	SCS200yr	2.17	179.93	180.6	180.28	180.6	0.000429	0.36	16.79	86.73	0.16
Coyle	Disher_E2	880	RSnow100yr	1.22	179.93	180.49	180.22	180.49	0.00045	0.32	9.55	52.68	0.16
Coyle	Disher_E2	813	SCS2yr	0.39	179.87	180.15	180.06	180.17	0.004482	0.63	0.61	3.13	0.46
Coyle	Disher_E2	813	SCS5yr	0.61	179.87	180.24	180.11	180.26	0.003896	0.69	0.89	3.57	0.44
Coyle	Disher_E2	813	SCS10yr	0.83	179.87	180.3	180.15	180.33	0.00369	0.74	1.12	3.94	0.44
Coyle	Disher_E2	813	SCS25yr	1.16	179.87	180.38	180.21	180.41	0.003319	0.77	1.78	18.05	0.43
Coyle	Disher_E2	813	SCS50yr	1.46	179.87	180.44	180.25	180.47	0.00284	0.76	3.21	34.51	0.4
Coyle	Disher_E2	813	SCS100yr	1.72	179.87	180.48	180.28	180.5	0.002441	0.74	4.71	47.19	0.38
Coyle	Disher_E2	813	SCS200yr	2.17	179.87	180.53	180.33	180.55	0.001889	0.7	7.62	71.46	0.34
Coyle	Disher_E2	813	RSnow100yr	1.22	179.87	180.4	180.21	180.43	0.003198	0.77	2.03	19.2	0.42
Coyle	Disher_E2	732	SCS2yr	0.39	179.55	179.9	179.76	179.91	0.002429	0.53	0.73	2.97	0.34
Coyle	Disher_E2	732	SCS5yr	0.61	179.55	179.98	179.81	180	0.002656	0.62	0.98	3.37	0.37
Coyle	Disher_E2	732	SCS10yr	0.83	179.55	180.04	179.85	180.07	0.002781	0.69	1.2	3.69	0.38
Coyle	Disher_E2	732	SCS25yr	1.16	179.55	180.13	179.9	180.16	0.003087	0.75	1.54	4.43	0.41
Coyle	Disher_E2	732	SCS50yr	1.46	179.55	180.19	179.95	180.22	0.003189	0.8	1.83	4.91	0.42
Coyle	Disher_E2	732	SCS100yr	1.72	179.55	180.23	179.99	180.27	0.0033	0.83	2.07	5.38	0.43
Coyle	Disher_E2	732	SCS200yr	2.17	179.55	180.3	180.04	180.34	0.003355	0.88	2.46	6.11	0.44
Coyle	Disher_E2	732	RSnow100yr	1.22	179.55	180.14	179.91	180.17	0.003126	0.76	1.6	4.58	0.41
Coyle	Disher_E2	638	SCS2yr	0.39	179.39	179.73	179.57	179.74	0.001447	0.38	1.01	4.73	0.27
Coyle	Disher_E2	638	SCS5yr	0.61	179.39	179.83	179.61	179.84	0.001141	0.4	1.52	5.54	0.25
Coyle	Disher_E2	638	SCS10yr	0.83	179.39	179.88	179.65	179.89	0.00128	0.46	1.81	5.93	0.26
Coyle	Disher_E2	638	SCS25yr	1.16	179.39	179.94	179.7	179.96	0.001505	0.53	2.18	6.4	0.29
Coyle	Disher_E2	638	SCS50yr	1.46	179.39	179.99	179.73	180	0.001698	0.59	2.46	6.74	0.31
Coyle	Disher_E2	638	SCS100yr	1.72	179.39	180.02	179.76	180.04	0.001868	0.64	2.68	6.99	0.33
Coyle	Disher_E2	638	SCS200yr	2.17	179.39	180.06	179.8	180.09	0.002182	0.72	3.02	7.46	0.36
Coyle	Disher_E2	638	RSnow100yr	1.22	179.39	179.95	179.7	179.97	0.001546	0.55	2.24	6.47	0.3
Coyle	Disher_E2	571	SCS2yr	0.39	179.28	179.66	179.44	179.66	0.000929	0.33	1.16	4.8	0.22
Coyle	Disher_E2	571	SCS5yr	0.61	179.28	179.76	179.48	179.76	0.00116	0.34	1.8	8.56	0.24
Coyle	Disher_E2	571	SCS10yr	0.83	179.28	179.8	179.52	179.81	0.001107	0.37	2.27	11.61	0.24
Coyle	Disher_E2	571	SCS25yr	1.16	179.28	179.86	179.57	179.87	0.001024	0.41	3.13	17.08	0.24
Coyle	Disher_E2	571	SCS50yr	1.46	179.28	179.9	179.61	179.91	0.001001	0.44	4.01	23.8	0.24
Coyle	Disher_E2	571	SCS100yr	1.72	179.28	179.93	179.65	179.95	0.00098	0.46	4.77	25.94	0.24
Coyle	Disher_E2	571	SCS200yr	2.17	179.28	179.98	179.72	179.99	0.000967	0.5	6.12	36.57	0.24
Coyle	Disher_E2	571	RSnow100yr	1.22	179.28	179.87	179.57	179.88	0.00102	0.42	3.29	18.84	0.24
Coyle	Disher_E2	465	SCS2yr	0.39	179.18	179.51	179.36	179.52	0.002019	0.46	0.84	3.82	0.31
Coyle	Disher_E2	465	SCS5yr	0.61	179.18	179.55	179.41	179.57	0.003	0.6	1.04	5.41	0.39
Coyle	Disher_E2	465	SCS10yr	0.83	179.18	179.58	179.45	179.61	0.003928	0.72	1.21	7.04	0.45
Coyle	Disher_E2	465	SCS25yr	1.16	179.18	179.62	179.5	179.66	0.005441	0.86	1.51	9.62	0.53
Coyle	Disher_E2	465	SCS50yr	1.46	179.18	179.64	179.54	179.69	0.007049	0.99	1.71	10.89	0.61
Coyle	Disher_E2	465	SCS100yr	1.72	179.18	179.65	179.58	179.71	0.008234	1.09	1.9	12.71	0.66
Coyle	Disher_E2	465	SCS200yr	2.17	179.18	179.68	179.64	179.75	0.009463	1.21	2.28	15.12	0.71
Coyle	Disher_E2	465	RSnow100yr	1.22	179.18	179.62	179.51	179.66	0.005681	0.88	1.57	9.91	0.54
Coyle	Disher_E2	356	SCS2yr	0.39	179.16	179.41		179.41	0.000608	0.17	2.41	36.94	0.16
Coyle	Disher_E2	356	SCS5yr	0.61	179.16	179.44		179.44	0.000629	0.2	4.09	64.97	0.17
Coyle	Disher_E2	356	SCS10yr	0.83	179.16	179.46		179.46	0.000643	0.21	5.49	68.33	0.17
Coyle	Disher_E2	356	SCS25yr	1.16	179.16	179.49		179.49	0.00065	0.23	7.5	75.57	0.17
Coyle	Disher_E2	356	SCS50yr	1.46	179.16	179.51		179.51	0.000615	0.24	9.48	87.25	0.17
Coyle	Disher_E2	356	SCS100yr	1.72	179.16	179.53	179.39	179.53	0.000614	0.25	11.03	96.52	0.17
Coyle	Disher_E2	356	SCS200yr	2.17	179.16	179.55	179.41	179.55	0.000651	0.27	13.29	106.2	0.18
Coyle	Disher_E2	356	RSnow100yr	1.22	179.16	179.49		179.49	0.000656	0.24	7.83	76.79	0.18
Coyle	Disher_E2	280	SCS2yr	0.39	179.13	179.28		179.29	0.007898	0.47	1.1	18.9	0.53
Coyle	Disher_E2	280	SCS5yr	0.61	179.13	179.3		179.31	0.009439	0.56	1.52	22.41	0.59
Coyle	Disher_E2	280	SCS10yr	0.83	179.13	179.33		179.34	0.007162	0.52	2.25	28.03	0.52
Coyle	Disher_E2	280	SCS25yr	1.16	179.13	179.39	179.31	179.4	0.002462	0.41	4.48	41.04	0.33
Coyle	Disher_E2	280	SCS50yr	1.46	179.13	179.32	179.32	179.36	0.029175	1.01	2.02	26.42	1.05
Coyle	Disher_E2	280	SCS100yr	1.72	179.13	179.33	179.33	179.38	0.030635	1.08	2.27	28.14	1.09
Coyle	Disher_E2	280	SCS200yr	2.17	179.13	179.35	179.35	179.4	0.026131	1.1	2.88	31.11	1.03
Coyle	Disher_E2	280	RSnow100yr	1.22	179.13	179.4	179.31	179.41	0.002506	0.42	4.62	41.41	0.34
Coyle	Disher_E2	196	SCS2yr	0.39	178.71	178.86	178.81	178.87	0.003533	0.32	1.2	14.53	0.36

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_E2	196	SCS5yr	0.61	178.71	178.9	178.83	178.9	0.002987	0.35	1.75	16.45	0.34
Coyle	Disher_E2	196	SCS10yr	0.83	178.71	178.91	178.85	178.92	0.003672	0.4	2.06	18.33	0.38
Coyle	Disher_E2	196	SCS25yr	1.16	178.71	178.86	178.86	178.91	0.027813	0.92	1.26	14.66	1.01
Coyle	Disher_E2	196	SCS50yr	1.46	178.71	179.1	178.88	179.1	0.000452	0.22	6.67	30.61	0.15
Coyle	Disher_E2	196	SCS100yr	1.72	178.71	179.18	178.89	179.18	0.000268	0.18	9.75	41.85	0.12
Coyle	Disher_E2	196	SCS200yr	2.17	178.71	179.26	178.92	179.27	0.000169	0.16	13.51	48.8	0.1
Coyle	Disher_E2	196	RSnow100yr	1.22	178.71	178.87	178.87	178.91	0.02616	0.92	1.33	14.84	0.98
Coyle	Disher_E2	108	SCS2yr	0.39	178.13	178.37	178.32	178.4	0.008938	0.71	0.55	4.04	0.61
Coyle	Disher_E2	108	SCS5yr	0.61	178.13	178.42	178.37	178.45	0.010381	0.77	0.8	5.87	0.66
Coyle	Disher_E2	108	SCS10yr	0.83	178.13	178.5	178.41	178.52	0.005871	0.6	1.37	9.46	0.51
Coyle	Disher_E2	108	SCS25yr	1.16	178.13	178.77	178.45	178.78	0.000236	0.21	7	57.96	0.12
Coyle	Disher_E2	108	SCS50yr	1.46	178.13	179.09	178.49	179.1	0.000011	0.07	47.58	152.9	0.03
Coyle	Disher_E2	108	SCS100yr	1.72	178.13	179.18	178.5	179.18	0.000008	0.07	61.39	161.07	0.02
Coyle	Disher_E2	108	SCS200yr	2.17	178.13	179.26	178.53	179.26	0.000007	0.07	74.62	166.41	0.02
Coyle	Disher_E2	108	RSnow100yr	1.22	178.13	178.81	178.46	178.81	0.000173	0.19	9.47	86.61	0.1
Coyle	Disher_E2	25	SCS2yr	0.39	177.95	178.32	178.15	178.32	0.000273	0.16	3.46	33.55	0.12
Coyle	Disher_E2	25	SCS5yr	0.61	177.95	178.4	178.19	178.41	0.000148	0.15	6.63	45.29	0.09
Coyle	Disher_E2	25	SCS10yr	0.83	177.95	178.49	178.21	178.49	0.000078	0.13	11.27	66.47	0.07
Coyle	Disher_E2	25	SCS25yr	1.16	177.95	178.77	178.24	178.77	0.000007	0.06	47.47	187.28	0.02
Coyle	Disher_E2	25	SCS50yr	1.46	177.95	179.09	178.26	179.09	0.000001	0.03	119.67	245.67	0.01
Coyle	Disher_E2	25	SCS100yr	1.72	177.95	179.18	178.28	179.18	0.000001	0.03	141.55	255.11	0.01
Coyle	Disher_E2	25	SCS200yr	2.17	177.95	179.26	178.3	179.26	0.000001	0.03	162.29	258.63	0.01
Coyle	Disher_E2	25	RSnow100yr	1.22	177.95	178.81	178.25	178.81	0.000006	0.05	54.02	195.59	0.02
Coyle	Disher_E	1376	SCS2yr	3.65	177.58	178.25		178.28	0.00235	0.76	6.29	55.67	0.38
Coyle	Disher_E	1376	SCS5yr	5.51	177.58	178.33		178.37	0.002455	0.87	9.31	65.05	0.4
Coyle	Disher_E	1376	SCS10yr	7.32	177.58	178.44		178.46	0.001727	0.83	14.86	91.79	0.34
Coyle	Disher_E	1376	SCS25yr	10.3	177.58	178.76		178.77	0.000309	0.47	52.91	205.93	0.16
Coyle	Disher_E	1376	SCS50yr	12.97	177.58	179.09		179.09	0.000067	0.27	118.01	245.52	0.08
Coyle	Disher_E	1376	SCS100yr	15.31	177.58	179.18		179.18	0.000063	0.27	137.88	261.14	0.07
Coyle	Disher_E	1376	SCS200yr	19.53	177.58	179.26		179.26	0.000071	0.3	156.89	266.67	0.08
Coyle	Disher_E	1376	RSnow100yr	10.59	177.58	178.8		178.8	0.000253	0.43	59.45	209.53	0.14
Coyle	Disher_E	1265	SCS2yr	3.65	177.33	178.04	177.9	178.06	0.001695	0.74	9.25	43.43	0.33
Coyle	Disher_E	1265	SCS5yr	5.51	177.33	178.17	177.98	178.19	0.001083	0.69	15.64	56.41	0.28
Coyle	Disher_E	1265	SCS10yr	7.32	177.33	178.35	178.02	178.36	0.000567	0.58	28.28	85.61	0.21
Coyle	Disher_E	1265	SCS25yr	10.3	177.33	178.75	178.07	178.75	0.000104	0.33	65.87	101.49	0.1
Coyle	Disher_E	1265	SCS50yr	12.97	177.33	179.09	178.11	179.09	0.000043	0.25	106.33	156.17	0.06
Coyle	Disher_E	1265	SCS100yr	15.31	177.33	179.17	178.14	179.18	0.000045	0.26	120.68	170.77	0.07
Coyle	Disher_E	1265	SCS200yr	19.53	177.33	179.25	178.19	179.26	0.000056	0.3	134.73	181.69	0.07
Coyle	Disher_E	1265	RSnow100yr	10.59	177.33	178.79	178.07	178.79	0.000093	0.32	69.78	105.14	0.09
Coyle	Disher_E	1190	SCS2yr	3.65	177.15	177.83		177.88	0.003492	1.06	5.02	27.25	0.47
Coyle	Disher_E	1190	SCS5yr	5.51	177.15	178.11		178.12	0.000715	0.64	16	50.97	0.23
Coyle	Disher_E	1190	SCS10yr	7.32	177.15	178.32		178.32	0.000317	0.5	29.25	75.69	0.16
Coyle	Disher_E	1190	SCS25yr	10.3	177.15	178.74		178.74	0.000073	0.3	71.16	123.58	0.08
Coyle	Disher_E	1190	SCS50yr	12.97	177.15	179.08		179.09	0.000031	0.23	115.25	131.87	0.05
Coyle	Disher_E	1190	SCS100yr	15.31	177.15	179.17		179.17	0.000032	0.24	126.83	132.87	0.06
Coyle	Disher_E	1190	SCS200yr	19.53	177.15	179.25		179.25	0.000041	0.28	137.29	136.2	0.06
Coyle	Disher_E	1190	RSnow100yr	10.59	177.15	178.78		178.78	0.000065	0.29	75.97	125.32	0.08
Coyle	Disher_E	1171	SCS2yr	3.65	176.67	177.8	177.36	177.83	0.001559	0.77	4.75	8.18	0.31
Coyle	Disher_E	1171	SCS5yr	5.51	176.67	178.08	177.5	178.1	0.000819	0.72	7.81	39.16	0.24
Coyle	Disher_E	1171	SCS10yr	7.32	176.67	178.29	177.61	178.31	0.000479	0.63	10.86	67.24	0.19
Coyle	Disher_E	1171	SCS25yr	10.3	176.67	178.71	177.75	178.73	0.00019	0.49	16.94	100.96	0.13
Coyle	Disher_E	1171	SCS50yr	12.97	176.67	179.08	177.87	179.08	0.000012	0.15	70.08	118.43	0.03
Coyle	Disher_E	1171	SCS100yr	15.31	176.67	179.17	178	179.17	0.000006	0.1	109.65	122.28	0.02
Coyle	Disher_E	1171	SCS200yr	19.53	176.67	179.25	178.11	179.25	0.000008	0.12	119.44	127.73	0.03
Coyle	Disher_E	1171	RSnow100yr	10.59	176.67	178.75	177.76	178.77	0.000178	0.49	17.49	101.42	0.12
Coyle	Disher_E	1159		Culvert									
Coyle	Disher_E	1149	SCS2yr	3.65	176.41	177.73	177	177.74	0.000291	0.45	8.13	9.93	0.15
Coyle	Disher_E	1149	SCS5yr	5.51	176.41	177.93	177.09	177.95	0.000354	0.56	9.85	29.53	0.17
Coyle	Disher_E	1149	SCS10yr	7.32	176.41	178.04	177.17	178.06	0.000463	0.68	10.78	40.45	0.19
Coyle	Disher_E	1149	SCS25yr	10.3	176.41	178.22	177.29	178.26	0.000584	0.84	12.36	60.27	0.22
Coyle	Disher_E	1149	SCS50yr	12.97	176.41	178.45	177.38	178.49	0.000569	0.91	14.32	68.21	0.22
Coyle	Disher_E	1149	SCS100yr	15.31	176.41	178.62	177.46	178.66	0.00058	0.98	15.74	74.89	0.23
Coyle	Disher_E	1149	SCS200yr	19.53	176.41	178.78	177.58	178.79	0.000131	0.48	64.87	82.52	0.11
Coyle	Disher_E	1149	RSnow100yr	10.59	176.41	178.23	177.3	178.27	0.000604	0.85	12.45	60.61	0.23
Coyle	Disher_E	1125	SCS2yr	3.65	176.49	177.69	177.07	177.72	0.000805	0.81	5.19	11.29	0.25
Coyle	Disher_E	1125	SCS5yr	5.51	176.49	177.89	177.21	177.93	0.000867	0.94	9.36	29.97	0.27
Coyle	Disher_E	1125	SCS10yr	7.32	176.49	178	177.34	178.04	0.000894	1.02	12.98	34.27	0.28
Coyle	Disher_E	1125	SCS25yr	10.3	176.49	178.21	177.52	178.24	0.000705	0.99	21.28	48.88	0.25
Coyle	Disher_E	1125	SCS50yr	12.97	176.49	178.45	177.64	178.47	0.000403	0.82	36.85	74.39	0.19
Coyle	Disher_E	1125	SCS100yr	15.31	176.49	178.62	177.96	178.64	0.00027	0.72	50.05	77.64	0.16
Coyle	Disher_E	1125	SCS200yr	19.53	176.49	178.77	178.07	178.78	0.000258	0.73	61.67	81.05	0.16
Coyle	Disher_E	1125	RSnow100yr	10.59	176.49	178.22	177.53	178.25	0.000735	1.02	21.72	50.05	0.26
Coyle	Disher_W	2248	SCS2yr	2.34	179.05	179.83		179.87	0.00198	0.88	2.66	4.89	0.35
Coyle	Disher_W	2248	SCS5yr	3.38	179.05	179.96		180	0.001919	0.98	3.56	9.71	0.36
Coyle	Disher_W	2248	SCS10yr	4.38	179.05	180.05		180.09	0.001642	0.98	4.8	22.4	0.34
Coyle	Disher_W	2248	SCS25yr	5.99	179.05	180.16		180.18	0.001028	0.84	9.09	66.43	0.27
Coyle	Disher_W	2248	SCS50yr	7.47	179.05	180.22		180.23	0.000651	0.7	13.54	85.77	0.22
Coyle	Disher_W	2248	SCS100yr	8.78	179.05	180.26		180.27	0.00047	0.61	17.26	94.48	0.19
Coyle	Disher_W	2248	SCS200yr	11.1	179.05	180.32		180.33	0.000316	0.52	23.59	107.06	0.16
Coyle	Disher_W	2248	RSnow100yr	6.22	179.05	180.17		180.19	0.000948	0.81	9.9	71.04	0.26
Coyle	Disher_W	2192	SCS2yr	2.34	178.88	179.74	179.37	179.77	0.001336	0.79	3.29	6.77	0.3
Coyle	Disher_W	2192	SCS5yr	3.38	178.88	179.86	179.46	179.9	0.001603	0.96	4.43	15.12	0.34
Coyle	Disher_W	2192	SCS10yr	4.38	178.88	179.94	179.54	180	0.001828	1.09	6.02	25.57	0.37
Coyle	Disher_W	2192	SCS25yr	5.99	178.88	180.03	179.66	180.1	0.002073	1.25	9.41	54.22	0.4
Coyle	Disher_W	2192	SCS50yr	7.47	178.88	180.11	179.76	180.17	0.002023	1.29	13.74	64.68	0.4
Coyle	Disher_W	2192	SCS100yr	8.78	178.88	180.16	179.9	180.22	0.001879	1.29	17.53	69.91	0.39
Coyle	Disher_W	2192	SCS200yr	11.1	178.88	180.24	180.12	180.29	0.001829	1.33	22.7	89.24	0.39
Coyle	Disher_W	2192	RSnow100yr	6.22	178.88	180.04	179.67	180.11	0.002105	1.26	10.04	58.14	0.41
Coyle	Disher_W	2113	SCS2yr	2.34	178.8	179.74	179.21	179.74	0.000123	0.25	19.49	45.48	0.09
Coyle	Disher_W	2113	SCS5yr	3.38	178.8	179.86	179.25	179.87	0.000139	0.3	25.84	58.66	0.1
Coyle	Disher_W	2113	SCS10yr	4.38	178.8	179.95	179.28	179.95	0.000157	0.34	31.19	68.98	0.11
Coyle	Disher_W	2113	SCS25yr	5.99	178.8	180.04	179.32	180.05	0.000183	0.39	38.46	82.21	0.12
Coyle	Disher_W	2113	SCS50yr	7.47	178.8	180.11	179.31	180.11	0.000211	0.43	44.15	93.96	0.13
Coyle	Disher_W	2113	SCS100yr	8.78	178.8	180.16	179.4	180.16	0.000239	0.48	49.42	118.64	0.14
Coyle	Disher_W	2113	SCS200yr	11.1	178.8	180.23	179.44	180.23	0.000277	0.53	58.55	144.37	0.15
Coyle	Disher_W	2113	RSnow100yr	6.22	178.8	180.06	179.31	180.06	0.000188	0.4	39.37	84.25	0.12
Coyle	Disher_W	2032	SCS2yr	2.34	178.76	179.72	179.26	179.72	0.000471	0.51	10.83	44.63	0.18
Coyle	Disher_W	2032	SCS5yr	3.38	178.76	179.84	179.35	179.85	0.000406	0.52	17.36	62.89	0.18
Coyle	Disher_W	2032	SCS10yr	4.38	178.76	179.92	179.49	179.93	0.000426	0.57	23.64	91.52	0.18
Coyle	Disher_W	2032	SCS25yr	5.99	178.76	180.02	179.63	180.03	0.000412	0.59	33.31	112.63	0.18
Coyle	Disher_W	2032	SCS50yr	7.47	178.76	180.08	179.67	180.09	0.000411	0.62	40.59	126.42	0.18
Coyle	Disher_W	2032	SCS100yr	8.78	178.76	180.13	179.71	180.14	0.000418	0.64	46.41	143.6	0.19
Coyle	Disher_W	2032	SCS200yr	11.1	178.76	180.2	179.77	180.2	0.00045	0.69	54.8	161.78	0.2

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_W	2032	RSnow100yr	6.22	178.76	180.03	179.64	180.04	0.000412	0.6	34.47	114.27	0.18
Coyle	Disher_W	1957	SCS2yr	2.34	178.69	179.66	179.17	179.68	0.000737	0.66	5.57	17.84	0.23
Coyle	Disher_W	1957	SCS5yr	3.38	178.69	179.78	179.26	179.8	0.000838	0.77	8.53	35.27	0.25
Coyle	Disher_W	1957	SCS10yr	4.38	178.69	179.86	179.35	179.88	0.000915	0.85	11.7	48.46	0.27
Coyle	Disher_W	1957	SCS25yr	5.99	178.69	179.95	179.54	179.98	0.001001	0.94	16.8	62.59	0.28
Coyle	Disher_W	1957	SCS50yr	7.47	178.69	180.01	179.65	180.04	0.001139	1.03	20.82	77.07	0.3
Coyle	Disher_W	1957	SCS100yr	8.78	178.69	180.05	179.71	180.09	0.001224	1.1	24.49	94.23	0.32
Coyle	Disher_W	1957	SCS200yr	11.1	178.69	180.1	179.88	180.14	0.001481	1.24	30.58	141	0.35
Coyle	Disher_W	1957	RSnow100yr	6.22	178.69	179.96	179.56	179.99	0.00102	0.95	17.42	64.58	0.29
Coyle	Disher_W	1895	SCS2yr	2.34	178.61	179.62	179.11	179.63	0.000712	0.65	4.88	9.91	0.23
Coyle	Disher_W	1895	SCS5yr	3.38	178.61	179.71	179.21	179.75	0.001003	0.83	6.53	29.94	0.27
Coyle	Disher_W	1895	SCS10yr	4.38	178.61	179.78	179.29	179.82	0.00123	0.96	8.97	48.99	0.3
Coyle	Disher_W	1895	SCS25yr	5.99	178.61	179.85	179.4	179.9	0.001573	1.13	13.58	80.33	0.35
Coyle	Disher_W	1895	SCS50yr	7.47	178.61	179.9	179.49	179.95	0.001689	1.21	18.4	108.73	0.36
Coyle	Disher_W	1895	SCS100yr	8.78	178.61	179.94	179.57	179.99	0.001828	1.29	22.93	140.04	0.38
Coyle	Disher_W	1895	SCS200yr	11.1	178.61	179.99	179.65	180.04	0.001816	1.32	32.19	182.94	0.38
Coyle	Disher_W	1895	RSnow100yr	6.22	178.61	179.86	179.42	179.91	0.001601	1.15	14.25	83.7	0.35
Coyle	Disher_W	1809	SCS2yr	2.34	178.66	179.54	179.11	179.56	0.001002	0.64	5.37	32.43	0.24
Coyle	Disher_W	1809	SCS5yr	3.38	178.66	179.63	179.2	179.65	0.001053	0.71	9.11	52.99	0.25
Coyle	Disher_W	1809	SCS10yr	4.38	178.66	179.7	179.28	179.71	0.001022	0.73	13.23	83.29	0.25
Coyle	Disher_W	1809	SCS25yr	5.99	178.66	179.77	179.42	179.78	0.000965	0.75	20.67	119.65	0.24
Coyle	Disher_W	1809	SCS50yr	7.47	178.66	179.82	179.62	179.83	0.000945	0.77	27.46	141.62	0.24
Coyle	Disher_W	1809	SCS100yr	8.78	178.66	179.86	179.66	179.87	0.000921	0.77	32.89	150.63	0.24
Coyle	Disher_W	1809	SCS200yr	11.1	178.66	179.91	179.72	179.93	0.000881	0.78	41.79	165.14	0.24
Coyle	Disher_W	1809	RSnow100yr	6.22	178.66	179.78	179.43	179.79	0.000954	0.75	21.74	122.46	0.24
Coyle	Disher_W	1745	SCS2yr	2.34	178.61	179.48		179.5	0.001086	0.62	6.33	40.49	0.23
Coyle	Disher_W	1745	SCS5yr	3.38	178.61	179.57		179.59	0.000984	0.64	11.66	70.61	0.23
Coyle	Disher_W	1745	SCS10yr	4.38	178.61	179.64		179.65	0.000903	0.65	16.87	89.48	0.22
Coyle	Disher_W	1745	SCS25yr	5.99	178.61	179.71		179.73	0.000851	0.66	24.56	112.78	0.22
Coyle	Disher_W	1745	SCS50yr	7.47	178.61	179.77		179.78	0.000841	0.68	30.87	127.56	0.22
Coyle	Disher_W	1745	SCS100yr	8.78	178.61	179.8		179.81	0.000849	0.7	35.77	139.92	0.22
Coyle	Disher_W	1745	SCS200yr	11.1	178.61	179.86		179.87	0.000892	0.75	44.62	181.32	0.23
Coyle	Disher_W	1745	RSnow100yr	6.22	178.61	179.72		179.73	0.000851	0.67	25.57	115.32	0.22
Coyle	Disher_W	1687	SCS2yr	2.34	178.53	179.47	179.02	179.47	0.000125	0.25	25.02	127.16	0.09
Coyle	Disher_W	1687	SCS5yr	3.38	178.53	179.57	179.11	179.57	0.000102	0.24	39.22	164.32	0.09
Coyle	Disher_W	1687	SCS10yr	4.38	178.53	179.63	179.19	179.64	0.000095	0.25	50.88	189.99	0.09
Coyle	Disher_W	1687	SCS25yr	5.99	178.53	179.71	179.27	179.71	0.000095	0.26	65.8	214.08	0.09
Coyle	Disher_W	1687	SCS50yr	7.47	178.53	179.76	179.28	179.76	0.000101	0.28	77.27	233.35	0.09
Coyle	Disher_W	1687	SCS100yr	8.78	178.53	179.8	179.35	179.8	0.000107	0.3	85.91	254	0.09
Coyle	Disher_W	1687	SCS200yr	11.1	178.53	179.85	179.38	179.85	0.000118	0.32	100.98	313.19	0.1
Coyle	Disher_W	1687	RSnow100yr	6.22	178.53	179.72	179.27	179.72	0.000096	0.27	67.67	217.06	0.09
Coyle	Disher_W	1627	SCS2yr	2.34	178.53	179.46	179	179.46	0.00032	0.39	15.21	104.04	0.14
Coyle	Disher_W	1627	SCS5yr	3.38	178.53	179.56	179.12	179.56	0.0002	0.33	28.96	166.23	0.12
Coyle	Disher_W	1627	SCS10yr	4.38	178.53	179.63	179.23	179.63	0.000159	0.31	41.39	205.17	0.1
Coyle	Disher_W	1627	SCS25yr	5.99	178.53	179.7	179.33	179.7	0.000142	0.31	58.1	249.87	0.1
Coyle	Disher_W	1627	SCS50yr	7.47	178.53	179.75	179.36	179.75	0.000135	0.31	71.52	280	0.1
Coyle	Disher_W	1627	SCS100yr	8.78	178.53	179.79	179.41	179.79	0.000134	0.32	81.52	294.77	0.1
Coyle	Disher_W	1627	SCS200yr	11.1	178.53	179.84	179.44	179.84	0.000137	0.33	97.39	324.52	0.1
Coyle	Disher_W	1627	RSnow100yr	6.22	178.53	179.71	179.34	179.71	0.000141	0.31	60.29	255.99	0.1
Coyle	Disher_W	1527	SCS2yr	2.34	178.46	179.36	179.01	179.4	0.001695	0.98	3.34	13.05	0.35
Coyle	Disher_W	1527	SCS5yr	3.38	178.46	179.46	179.14	179.51	0.001911	1.13	5.13	23.84	0.38
Coyle	Disher_W	1527	SCS10yr	4.38	178.46	179.54	179.25	179.59	0.001875	1.18	8.09	56.67	0.38
Coyle	Disher_W	1527	SCS25yr	5.99	178.46	179.63	179.45	179.67	0.001537	1.14	15.42	103.77	0.35
Coyle	Disher_W	1527	SCS50yr	7.47	178.46	179.69	179.56	179.72	0.001312	1.09	22.68	146.19	0.33
Coyle	Disher_W	1527	SCS100yr	8.78	178.46	179.74	179.63	179.76	0.001162	1.05	29.23	176.56	0.31
Coyle	Disher_W	1527	SCS200yr	11.1	178.46	179.8	179.66	179.81	0.001041	1.03	40.31	222.69	0.3
Coyle	Disher_W	1527	RSnow100yr	6.22	178.46	179.64	179.48	179.68	0.001478	1.12	16.58	108.81	0.35
Coyle	Disher_W	1481	SCS2yr	2.34	178.45	179.31	178.96	179.33	0.00118	0.73	4.61	19.38	0.28
Coyle	Disher_W	1481	SCS5yr	3.38	178.45	179.41	179.07	179.44	0.001162	0.8	7.08	27.74	0.29
Coyle	Disher_W	1481	SCS10yr	4.38	178.45	179.49	179.15	179.52	0.001114	0.83	9.67	45.53	0.29
Coyle	Disher_W	1481	SCS25yr	5.99	178.45	179.59	179.31	179.61	0.001033	0.86	15.13	79.94	0.28
Coyle	Disher_W	1481	SCS50yr	7.47	178.45	179.65	179.36	179.67	0.001014	0.89	20.46	109.69	0.28
Coyle	Disher_W	1481	SCS100yr	8.78	178.45	179.69	179.4	179.71	0.001005	0.91	25.63	146.62	0.28
Coyle	Disher_W	1481	SCS200yr	11.1	178.45	179.76	179.52	179.77	0.000925	0.91	35.62	186.47	0.27
Coyle	Disher_W	1481	RSnow100yr	6.22	178.45	179.6	179.32	179.62	0.00103	0.86	16	84.71	0.28
Coyle	Disher_W	1402	SCS2yr	2.34	178.42	179.24	178.8	179.26	0.000724	0.59	5.01	18.87	0.23
Coyle	Disher_W	1402	SCS5yr	3.38	178.42	179.35	178.88	179.37	0.000787	0.68	7.36	25.1	0.24
Coyle	Disher_W	1402	SCS10yr	4.38	178.42	179.42	178.95	179.44	0.000845	0.75	9.51	32.81	0.25
Coyle	Disher_W	1402	SCS25yr	5.99	178.42	179.51	179.06	179.54	0.000925	0.83	12.93	48.02	0.27
Coyle	Disher_W	1402	SCS50yr	7.47	178.42	179.57	179.16	179.59	0.001029	0.91	15.75	64.19	0.29
Coyle	Disher_W	1402	SCS100yr	8.78	178.42	179.6	179.28	179.63	0.001147	0.98	18.08	78.29	0.3
Coyle	Disher_W	1402	SCS200yr	11.1	178.42	179.66	179.37	179.69	0.001302	1.09	22.89	108.83	0.33
Coyle	Disher_W	1402	RSnow100yr	6.22	178.42	179.52	179.08	179.55	0.000938	0.85	13.4	49.34	0.27
Coyle	Disher_W	1321	SCS2yr	2.34	178.34	179.2	178.79	179.21	0.000478	0.42	5.97	29.88	0.17
Coyle	Disher_W	1321	SCS5yr	3.38	178.34	179.31	178.87	179.32	0.000391	0.41	10.45	59.19	0.16
Coyle	Disher_W	1321	SCS10yr	4.38	178.34	179.39	178.93	179.4	0.00033	0.4	16.52	96.58	0.15
Coyle	Disher_W	1321	SCS25yr	5.99	178.34	179.49	179.03	179.5	0.000227	0.36	28.93	154.01	0.13
Coyle	Disher_W	1321	SCS50yr	7.47	178.34	179.55	179.2	179.56	0.000201	0.35	39.42	194.67	0.12
Coyle	Disher_W	1321	SCS100yr	8.78	178.34	179.59	179.22	179.59	0.000199	0.36	46.96	222.65	0.12
Coyle	Disher_W	1321	SCS200yr	11.1	178.34	179.65	179.27	179.65	0.000193	0.37	61.58	290.08	0.12
Coyle	Disher_W	1321	RSnow100yr	6.22	178.34	179.5	179.04	179.51	0.000219	0.36	30.77	164.46	0.12
Coyle	Disher_W	1241	SCS2yr	2.34	178.32	179.12	178.84	179.15	0.001148	0.69	3.48	12.06	0.28
Coyle	Disher_W	1241	SCS5yr	3.38	178.32	179.25	178.93	179.27	0.00093	0.7	6.46	48.07	0.26
Coyle	Disher_W	1241	SCS10yr	4.38	178.32	179.35	179	179.36	0.000666	0.64	12.6	102.14	0.22
Coyle	Disher_W	1241	SCS25yr	5.99	178.32	179.47	179.17	179.47	0.000385	0.53	27.52	167.03	0.17
Coyle	Disher_W	1241	SCS50yr	7.47	178.32	179.53	179.24	179.54	0.000332	0.52	37.92	194.19	0.16
Coyle	Disher_W	1241	SCS100yr	8.78	178.32	179.57	179.28	179.57	0.000314	0.51	44.95	208.73	0.16
Coyle	Disher_W	1241	SCS200yr	11.1	178.32	179.63	179.34	179.63	0.00029	0.51	57.07	237.43	0.15
Coyle	Disher_W	1241	RSnow100yr	6.22	178.32	179.48	179.17	179.49	0.000366	0.52	29.5	170.68	0.17
Coyle	Disher_W	1171	SCS2yr	2.34	178.15	179.06	178.69	179.08	0.000895	0.62	3.85	12.73	0.23
Coyle	Disher_W	1171	SCS5yr	3.38	178.15	179.19	178.81	179.21	0.00075	0.64	5.99	18.97	0.22
Coyle	Disher_W	1171	SCS10yr	4.38	178.15	179.3	178.88	179.31	0.000655	0.65	9.12	45.74	0.21
Coyle	Disher_W	1171	SCS25yr	5.99	178.15	179.43	179.02	179.44	0.000492	0.61	18.45	101.76	0.19
Coyle	Disher_W	1171	SCS50yr	7.47	178.15	179.5	179.09	179.51	0.000451	0.61	26.38	134.51	0.18
Coyle	Disher_W	1171	SCS100yr	8.78	178.15	179.54	179.15	179.55	0.000462	0.63	31.87	153	0.18
Coyle	Disher_W	1171	SCS200yr	11.1	178.15	179.6	179.22	179.6	0.000463	0.65	41.91	188.17	0.18
Coyle	Disher_W	1171	RSnow100yr	6.22	178.15	179.45	179.04	179.46	0.000479	0.61	19.91	109.59	0.18
Coyle	Disher_W	1108	SCS2yr	2.34	178.11	179.02		179.03	0.000593	0.55	4.45	9.48	0.21
Coyle	Disher_W	1108	SCS5yr	3.38	178.11	179.16		179.17	0.000553	0.6	6.66	24.63	0.2
Coyle	Disher_W	1108	SCS10yr	4.38	178.11	179.26		179.28	0.000495	0.61	10.05	40.11	0.2
Coyle	Disher_W	1108	SCS25yr	5.99	178.11	179.4		179.42	0.000393	0.6	19.42	96.71	0.18
Coyle	Disher_W	1108	SCS50yr	7.47	178.11	179.47		179.48	0.00038	0.61	27.2	140.28	0.18
Coyle	Disher_W	1108	SCS100yr	8.78	178.11	179.51		179.52	0.00041	0.65	32.68	164.94	0.19

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_W	1108	SCS200yr	11.1	178.11	179.57		179.58	0.000421	0.68	43.49	194.66	0.19
Coyle	Disher_W	1108	RSnow100yr	6.22	178.11	179.42		179.43	0.000384	0.59	20.88	103.57	0.18
Coyle	Disher_W	1020	SCS2yr	2.34	178.13	178.94		178.96	0.001117	0.68	3.65	8.56	0.27
Coyle	Disher_W	1020	SCS5yr	3.38	178.13	179.09		179.11	0.000936	0.71	5.61	22.28	0.25
Coyle	Disher_W	1020	SCS10yr	4.38	178.13	179.21		179.23	0.000693	0.67	10.2	50.84	0.22
Coyle	Disher_W	1020	SCS25yr	5.99	178.13	179.37		179.38	0.00043	0.59	21.77	106.18	0.18
Coyle	Disher_W	1020	SCS50yr	7.47	178.13	179.44		179.45	0.000395	0.59	31.8	175.8	0.17
Coyle	Disher_W	1020	SCS100yr	8.78	178.13	179.48		179.48	0.0004	0.6	38.42	199.08	0.18
Coyle	Disher_W	1020	SCS200yr	11.1	178.13	179.54		179.54	0.00038	0.61	51.7	243.27	0.17
Coyle	Disher_W	1020	RSnow100yr	6.22	178.13	179.39		179.39	0.000414	0.58	23.53	118.99	0.18
Coyle	Disher_W	948	SCS2yr	2.34	178.01	178.83		178.86	0.001642	0.86	2.92	6.87	0.33
Coyle	Disher_W	948	SCS5yr	3.38	178.01	179.01		179.04	0.001062	0.81	6.03	26.15	0.28
Coyle	Disher_W	948	SCS10yr	4.38	178.01	179.17		179.18	0.000601	0.68	12.06	49.83	0.22
Coyle	Disher_W	948	SCS25yr	5.99	178.01	179.35		179.35	0.00032	0.55	26.24	107.34	0.16
Coyle	Disher_W	948	SCS50yr	7.47	178.01	179.42		179.43	0.000278	0.54	34.96	128.85	0.15
Coyle	Disher_W	948	SCS100yr	8.78	178.01	179.45		179.46	0.000301	0.57	39.45	138.44	0.16
Coyle	Disher_W	948	SCS200yr	11.1	178.01	179.51		179.52	0.000306	0.59	48.23	156.5	0.16
Coyle	Disher_W	948	RSnow100yr	6.22	178.01	179.36		179.37	0.000301	0.54	28.11	111.53	0.16
Coyle	Disher_W	894	SCS2yr	2.34	177.91	178.7		178.75	0.002649	0.95	2.72	6.53	0.38
Coyle	Disher_W	894	SCS5yr	3.38	177.91	178.92		178.96	0.001805	0.96	4.48	16.68	0.33
Coyle	Disher_W	894	SCS10yr	4.38	177.91	179.12		179.14	0.000888	0.77	12.69	87.22	0.24
Coyle	Disher_W	894	SCS25yr	5.99	177.91	179.33		179.34	0.000238	0.45	37.56	155.27	0.13
Coyle	Disher_W	894	SCS50yr	7.47	177.91	179.41		179.41	0.000197	0.43	50.54	188.87	0.12
Coyle	Disher_W	894	SCS100yr	8.78	177.91	179.44		179.44	0.000204	0.44	56.9	195.51	0.12
Coyle	Disher_W	894	SCS200yr	11.1	177.91	179.5		179.5	0.000199	0.45	69.11	208.97	0.12
Coyle	Disher_W	894	RSnow100yr	6.22	177.91	179.35		179.35	0.000219	0.44	40.41	161.54	0.12
Coyle	Disher_W	865	SCS2yr	2.34	177.57	178.71	178.07	178.71	0.000213	0.33	7.19	11.62	0.12
Coyle	Disher_W	865	SCS5yr	3.38	177.57	178.92	178.14	178.93	0.000183	0.36	9.77	77.83	0.12
Coyle	Disher_W	865	SCS10yr	4.38	177.57	179.12	178.2	179.13	0.000152	0.38	13.5	124.17	0.11
Coyle	Disher_W	865	SCS25yr	5.99	177.57	179.33	178.29	179.33	0.00004	0.22	42.97	172.66	0.06
Coyle	Disher_W	865	SCS50yr	7.47	177.57	179.41	178.36	179.41	0.00002	0.16	82.91	188.78	0.04
Coyle	Disher_W	865	SCS100yr	8.78	177.57	179.44	178.41	179.44	0.000023	0.17	89.37	201.16	0.05
Coyle	Disher_W	865	SCS200yr	11.1	177.57	179.5	178.5	179.5	0.000023	0.18	101.48	202.8	0.05
Coyle	Disher_W	865	RSnow100yr	6.22	177.57	179.35	178.3	179.35	0.000038	0.21	44.98	176.13	0.06
Coyle	Disher_W	849		Culvert									
Coyle	Disher_W	840	SCS2yr	2.34	177.55	178.66	178.09	178.68	0.000403	0.48	4.94	8.86	0.17
Coyle	Disher_W	840	SCS5yr	3.38	177.55	178.85	178.17	178.86	0.000415	0.56	6.18	14.3	0.18
Coyle	Disher_W	840	SCS10yr	4.38	177.55	179	178.24	179.02	0.000421	0.63	7.22	32.98	0.19
Coyle	Disher_W	840	SCS25yr	5.99	177.55	179.18	178.33	179.2	0.000487	0.74	8.38	84.97	0.21
Coyle	Disher_W	840	SCS50yr	7.47	177.55	179.35	178.41	179.35	0.000155	0.45	39.25	143.85	0.12
Coyle	Disher_W	840	SCS100yr	8.78	177.55	179.42	178.47	179.42	0.000135	0.43	50.42	166.44	0.11
Coyle	Disher_W	840	SCS200yr	11.1	177.55	179.49	178.57	179.5	0.00013	0.44	63.6	174.48	0.11
Coyle	Disher_W	840	RSnow100yr	6.22	177.55	179.22	178.34	179.23	0.00024	0.52	24.11	94.64	0.14
Coyle	Disher_W	818	SCS2yr	2.34	177.72	178.63	178.2	178.66	0.001115	0.76	3.29	5.6	0.28
Coyle	Disher_W	818	SCS5yr	3.38	177.72	178.81	178.3	178.84	0.001102	0.88	4.42	7.99	0.29
Coyle	Disher_W	818	SCS10yr	4.38	177.72	178.96	178.38	179	0.001045	0.94	6.14	17.54	0.29
Coyle	Disher_W	818	SCS25yr	5.99	177.72	179.16	178.5	179.19	0.000724	0.88	13.22	46.95	0.25
Coyle	Disher_W	818	SCS50yr	7.47	177.72	179.33	178.6	179.34	0.000442	0.75	23.08	69.69	0.2
Coyle	Disher_W	818	SCS100yr	8.78	177.72	179.4	178.68	179.41	0.000404	0.74	28.5	77.66	0.19
Coyle	Disher_W	818	SCS200yr	11.1	177.72	179.48	178.82	179.49	0.000433	0.79	34.65	87.59	0.2
Coyle	Disher_W	818	RSnow100yr	6.22	177.72	179.19	178.52	179.22	0.000673	0.86	14.65	53.4	0.24
Coyle	Disher_W	757	SCS2yr	2.34	177.67	178.53	178.17	178.57	0.001648	0.89	2.85	5.28	0.34
Coyle	Disher_W	757	SCS5yr	3.38	177.67	178.72	178.28	178.76	0.001528	1	3.96	7.46	0.34
Coyle	Disher_W	757	SCS10yr	4.38	177.67	178.88	178.37	178.93	0.00134	1.04	5.38	10.47	0.32
Coyle	Disher_W	757	SCS25yr	5.99	177.67	179.08	178.49	179.13	0.001168	1.1	7.84	14.6	0.31
Coyle	Disher_W	757	SCS50yr	7.47	177.67	179.25	178.6	179.3	0.001023	1.12	12.61	46.92	0.3
Coyle	Disher_W	757	SCS100yr	8.78	177.67	179.32	178.69	179.37	0.001129	1.21	16.71	74.69	0.31
Coyle	Disher_W	757	SCS200yr	11.1	177.67	179.4	178.83	179.45	0.001083	1.23	23.65	90.2	0.31
Coyle	Disher_W	757	RSnow100yr	6.22	177.67	179.11	178.51	179.16	0.001139	1.1	8.3	16.63	0.31
Coyle	Disher_W	717	SCS2yr	2.34	177.57	178.46		178.51	0.001812	0.94	2.74	5.2	0.35
Coyle	Disher_W	717	SCS5yr	3.38	177.57	178.65		178.7	0.001614	1.03	3.83	6.36	0.35
Coyle	Disher_W	717	SCS10yr	4.38	177.57	178.82		178.88	0.001402	1.08	5.46	21.2	0.33
Coyle	Disher_W	717	SCS25yr	5.99	177.57	179.07		179.09	0.000638	0.83	16.53	58.89	0.23
Coyle	Disher_W	717	SCS50yr	7.47	177.57	179.26		179.27	0.000327	0.65	32.89	121.07	0.17
Coyle	Disher_W	717	SCS100yr	8.78	177.57	179.33		179.34	0.000276	0.62	42.19	135.06	0.16
Coyle	Disher_W	717	SCS200yr	11.1	177.57	179.41		179.42	0.000268	0.63	53.62	161.07	0.16
Coyle	Disher_W	717	RSnow100yr	6.22	177.57	179.1		179.12	0.000556	0.79	18.63	66.08	0.22
Coyle	Disher_W	651	SCS2yr	2.34	177.39	178.36	177.94	178.4	0.001469	0.9	2.89	5.03	0.32
Coyle	Disher_W	651	SCS5yr	3.38	177.39	178.56	178.06	178.6	0.001358	1.01	4	6.27	0.32
Coyle	Disher_W	651	SCS10yr	4.38	177.39	178.74	178.15	178.79	0.001233	1.07	5.41	11.22	0.31
Coyle	Disher_W	651	SCS25yr	5.99	177.39	179.02	178.3	179.05	0.000694	0.93	13.16	43.97	0.24
Coyle	Disher_W	651	SCS50yr	7.47	177.39	179.23	178.41	179.24	0.0004	0.77	25.09	72.07	0.19
Coyle	Disher_W	651	SCS100yr	8.78	177.39	179.3	178.5	179.32	0.000364	0.76	30.62	75.84	0.18
Coyle	Disher_W	651	SCS200yr	11.1	177.39	179.38	178.66	179.4	0.000388	0.8	36.73	79.87	0.19
Coyle	Disher_W	651	RSnow100yr	6.22	177.39	179.06	178.31	179.08	0.000614	0.89	14.97	47.13	0.23
Coyle	Disher_W	574	SCS2yr	2.34	177.33	178.23		178.27	0.001781	0.95	2.63	4.37	0.35
Coyle	Disher_W	574	SCS5yr	3.38	177.33	178.44		178.49	0.001539	1.04	3.64	5.14	0.34
Coyle	Disher_W	574	SCS10yr	4.38	177.33	178.63		178.69	0.001344	1.1	4.76	7.01	0.33
Coyle	Disher_W	574	SCS25yr	5.99	177.33	178.93		178.98	0.000928	1.07	8.72	23.77	0.28
Coyle	Disher_W	574	SCS50yr	7.47	177.33	179.2		179.21	0.000396	0.78	25.35	92.18	0.19
Coyle	Disher_W	574	SCS100yr	8.78	177.33	179.28		179.29	0.000339	0.74	32.99	99.79	0.18
Coyle	Disher_W	574	SCS200yr	11.1	177.33	179.35		179.37	0.000354	0.78	40.99	107.67	0.18
Coyle	Disher_W	574	RSnow100yr	6.22	177.33	178.97		179.02	0.000906	1.07	9.75	28.33	0.28
Coyle	Disher_W	528	SCS2yr	2.34	177.3	178.13		178.18	0.002316	0.98	2.53	4.77	0.39
Coyle	Disher_W	528	SCS5yr	3.38	177.3	178.37		178.42	0.00158	1	3.85	6.43	0.34
Coyle	Disher_W	528	SCS10yr	4.38	177.3	178.58		178.63	0.001192	1	5.99	23.84	0.3
Coyle	Disher_W	528	SCS25yr	5.99	177.3	178.94		178.95	0.000266	0.57	29.03	103.98	0.15
Coyle	Disher_W	528	SCS50yr	7.47	177.3	179.2		179.2	0.000075	0.34	57.28	115.62	0.08
Coyle	Disher_W	528	SCS100yr	8.78	177.3	179.28		179.28	0.000069	0.33	66.48	121.65	0.08
Coyle	Disher_W	528	SCS200yr	11.1	177.3	179.35		179.36	0.000077	0.36	75.89	125.29	0.08
Coyle	Disher_W	528	RSnow100yr	6.22	177.3	178.99		178.99	0.000202	0.51	33.81	105.73	0.13
Coyle	Disher_W	516	SCS2yr	2.34	176.99	178.11	177.69	178.15	0.001674	0.88	2.73	4.16	0.33
Coyle	Disher_W	516	SCS5yr	3.38	176.99	178.36	177.81	178.4	0.001246	0.92	4.17	7.7	0.29
Coyle	Disher_W	516	SCS10yr	4.38	176.99	178.57	177.9	178.61	0.000955	0.92	5.76	29.64	0.27
Coyle	Disher_W	516	SCS25yr	5.99	176.99	178.9	178.04	178.94	0.00066	0.89	8.38	62.72	0.23
Coyle	Disher_W	516	SCS50yr	7.47	176.99	179.2	178.14	179.2	0.000086	0.36	36.77	86.43	0.09
Coyle	Disher_W	516	SCS100yr	8.78	176.99	179.28	178.27	179.28	0.000084	0.37	41.79	88.87	0.09
Coyle	Disher_W	516	SCS200yr	11.1	176.99	179.35	178.42	179.36	0.000093	0.4	46.68	103.74	0.09
Coyle	Disher_W	516	RSnow100yr	6.22	176.99	178.95	178.05	178.98	0.000635	0.89	8.73	69.19	0.23
Coyle	Disher_W	502		Culvert									
Coyle	Disher_W	494	SCS2yr	2.34	177.1	178.01	177.63	178.05	0.001365	0.81	2.78	17.05	0.3

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher_W	494	SCS5yr	3.38	177.1	178.19	177.73	178.24	0.001311	0.92	3.49	20.04	0.31
Coyle	Disher_W	494	SCS10yr	4.38	177.1	178.32	177.81	178.39	0.001351	1.02	4.03	36.3	0.32
Coyle	Disher_W	494	SCS25yr	5.99	177.1	178.49	177.92	178.58	0.001485	1.19	4.71	53.23	0.34
Coyle	Disher_W	494	SCS50yr	7.47	177.1	178.62	178.02	178.74	0.001623	1.33	5.23	60.56	0.36
Coyle	Disher_W	494	SCS100yr	8.78	177.1	178.73	178.1	178.87	0.001707	1.43	5.67	62.96	0.38
Coyle	Disher_W	494	SCS200yr	11.1	177.1	178.85	178.24	179.04	0.002068	1.66	6.15	67.04	0.42
Coyle	Disher_W	494	RSnow100yr	6.22	177.1	178.51	177.93	178.6	0.001541	1.22	4.77	54.09	0.35
Coyle	Disher_W	469	SCS2yr	2.34	177.09	177.96	177.61	178	0.002014	0.97	2.56	4.49	0.37
Coyle	Disher_W	469	SCS5yr	3.38	177.09	178.14	177.72	178.2	0.001853	1.09	3.49	5.47	0.37
Coyle	Disher_W	469	SCS10yr	4.38	177.09	178.28	177.81	178.35	0.001848	1.19	4.3	6.65	0.37
Coyle	Disher_W	469	SCS25yr	5.99	177.09	178.47	177.95	178.53	0.001449	1.19	7.61	40.13	0.34
Coyle	Disher_W	469	SCS50yr	7.47	177.09	178.66	178.06	178.67	0.000341	0.63	16.69	55.53	0.17
Coyle	Disher_W	469	SCS100yr	8.78	177.09	178.79	178.16	178.8	0.000163	0.46	24.72	65.5	0.12
Coyle	Disher_W	469	SCS200yr	11.1	177.09	178.94	178.55	178.94	0.000097	0.38	35.09	72.94	0.09
Coyle	Disher_W	469	RSnow100yr	6.22	177.09	178.5	177.97	178.54	0.001236	1.11	8.63	42.32	0.32
Coyle	Disher_W	409	SCS2yr	2.34	176.97	177.87	177.46	177.9	0.001308	0.82	3.09	5.25	0.3
Coyle	Disher_W	409	SCS5yr	3.38	176.97	178.06	177.56	178.1	0.001199	0.91	4.18	5.91	0.3
Coyle	Disher_W	409	SCS10yr	4.38	176.97	178.2	177.65	178.25	0.001222	1.01	5.04	6.5	0.31
Coyle	Disher_W	409	SCS25yr	5.99	176.97	178.39	177.77	178.45	0.001273	1.14	6.3	7.16	0.32
Coyle	Disher_W	409	SCS50yr	7.47	176.97	178.56	177.88	178.63	0.001223	1.22	7.64	8.17	0.32
Coyle	Disher_W	409	SCS100yr	8.78	176.97	178.7	177.96	178.77	0.00121	1.29	8.77	8.9	0.33
Coyle	Disher_W	409	SCS200yr	11.1	176.97	178.82	178.09	178.92	0.001477	1.5	10.33	15.86	0.37
Coyle	Disher_W	409	RSnow100yr	6.22	176.97	178.4	177.79	178.47	0.001314	1.17	6.41	7.22	0.33
Coyle	Disher_W	331	SCS2yr	2.34	176.78	177.78	177.33	177.81	0.0011	0.8	3.26	5.35	0.28
Coyle	Disher_W	331	SCS5yr	3.38	176.78	177.98	177.43	178.02	0.00101	0.89	4.67	8.16	0.28
Coyle	Disher_W	331	SCS10yr	4.38	176.78	178.12	177.52	178.16	0.001	0.96	5.88	9.21	0.28
Coyle	Disher_W	331	SCS25yr	5.99	176.78	178.31	177.65	178.36	0.001015	1.07	7.74	11.19	0.29
Coyle	Disher_W	331	SCS50yr	7.47	176.78	178.5	177.75	178.55	0.000845	1.07	11.64	31.67	0.27
Coyle	Disher_W	331	SCS100yr	8.78	176.78	178.65	177.82	178.69	0.000676	1.02	17.5	43.19	0.25
Coyle	Disher_W	331	SCS200yr	11.1	176.78	178.8	178.03	178.83	0.000621	1.03	24.59	55.7	0.24
Coyle	Disher_W	331	RSnow100yr	6.22	176.78	178.32	177.67	178.37	0.001055	1.1	7.88	11.34	0.3
Coyle	Disher_W	243	SCS2yr	2.34	176.66	177.68	177.23	177.71	0.001132	0.81	3.25	5.31	0.28
Coyle	Disher_W	243	SCS5yr	3.38	176.66	177.89	177.33	177.93	0.001032	0.9	4.53	8.52	0.28
Coyle	Disher_W	243	SCS10yr	4.38	176.66	178.04	177.42	178.08	0.000966	0.95	6.77	19.45	0.28
Coyle	Disher_W	243	SCS25yr	5.99	176.66	178.25	177.56	178.28	0.000728	0.92	12.3	30.84	0.25
Coyle	Disher_W	243	SCS50yr	7.47	176.66	178.47	177.67	178.49	0.000434	0.78	20.33	46.18	0.2
Coyle	Disher_W	243	SCS100yr	8.78	176.66	178.63	177.75	178.64	0.000283	0.68	28.48	54.27	0.16
Coyle	Disher_W	243	SCS200yr	11.1	176.66	178.78	177.99	178.79	0.000249	0.67	37.11	64.44	0.15
Coyle	Disher_W	243	RSnow100yr	6.22	176.66	178.26	177.58	178.29	0.000746	0.94	12.65	31.76	0.25
Coyle	Disher_W	146	SCS2yr	2.34	176.5	177.61	176.99	177.63	0.000561	0.63	4.17	5.79	0.21
Coyle	Disher_W	146	SCS5yr	3.38	176.5	177.83	177.09	177.85	0.000576	0.73	5.54	7.68	0.22
Coyle	Disher_W	146	SCS10yr	4.38	176.5	177.97	177.18	178	0.000635	0.83	7.1	18.18	0.23
Coyle	Disher_W	146	SCS25yr	5.99	176.5	178.19	177.31	178.22	0.000497	0.81	14.46	44.68	0.21
Coyle	Disher_W	146	SCS50yr	7.47	176.5	178.44	177.41	178.45	0.000234	0.62	28.65	74.53	0.15
Coyle	Disher_W	146	SCS100yr	8.78	176.5	178.62	177.5	178.62	0.00014	0.51	42.12	79.11	0.12
Coyle	Disher_W	146	SCS200yr	11.1	176.5	178.77	177.63	178.77	0.000126	0.51	54.41	87.35	0.11
Coyle	Disher_W	146	RSnow100yr	6.22	176.5	178.2	177.33	178.23	0.000512	0.83	14.91	45.22	0.21
Coyle	Disher_W	51	SCS2yr	2.34	176.51	177.57		177.58	0.000458	0.56	4.77	7.33	0.19
Coyle	Disher_W	51	SCS5yr	3.38	176.51	177.79		177.8	0.00037	0.58	9.14	27.07	0.17
Coyle	Disher_W	51	SCS10yr	4.38	176.51	177.94		177.95	0.000302	0.57	13.74	33.22	0.16
Coyle	Disher_W	51	SCS25yr	5.99	176.51	178.18		178.18	0.000197	0.52	23.12	44.83	0.13
Coyle	Disher_W	51	SCS50yr	7.47	176.51	178.43		178.44	0.000114	0.43	35.89	55.25	0.1
Coyle	Disher_W	51	SCS100yr	8.78	176.51	178.61		178.61	0.00008	0.39	50.18	105.85	0.09
Coyle	Disher_W	51	SCS200yr	11.1	176.51	178.76		178.76	0.000079	0.4	68.6	135.89	0.09
Coyle	Disher_W	51	RSnow100yr	6.22	176.51	178.18		178.19	0.000205	0.53	23.53	45.13	0.14
Coyle	Swayze	3643	SCS2yr	1.94	180.24	181.12	180.73	181.16	0.001416	0.84	3.14	40.65	0.31
Coyle	Swayze	3643	SCS5yr	2.68	180.24	181.23	180.82	181.24	0.000298	0.42	21.6	177.14	0.14
Coyle	Swayze	3643	SCS10yr	3.36	180.24	181.29	180.9	181.29	0.000231	0.39	33.35	220.04	0.13
Coyle	Swayze	3643	SCS25yr	4.43	180.24	181.38	181	181.38	0.000116	0.29	54.78	260.4	0.09
Coyle	Swayze	3643	SCS50yr	5.41	180.24	181.46	181.14	181.46	0.000072	0.24	75.15	278.72	0.07
Coyle	Swayze	3643	SCS100yr	6.26	180.24	181.53	181.17	181.53	0.00005	0.21	95.24	290.29	0.06
Coyle	Swayze	3643	SCS200yr	7.76	180.24	181.55	181.17	181.55	0.000061	0.23	102.69	292.74	0.07
Coyle	Swayze	3643	RSnow100yr	4.16	180.24	181.36	180.97	181.36	0.000138	0.31	48.51	250.13	0.1
Coyle	Swayze	3574	SCS2yr	1.94	180.01	181	180.62	181.05	0.001825	0.97	2.33	7.33	0.35
Coyle	Swayze	3574	SCS5yr	2.68	180.01	181.14	180.72	181.19	0.001645	1.04	4.1	18.93	0.34
Coyle	Swayze	3574	SCS10yr	3.36	180.01	181.19	180.8	181.25	0.001954	1.17	5.18	24.74	0.38
Coyle	Swayze	3574	SCS25yr	4.43	180.01	181.31	180.91	181.36	0.001529	1.12	8.56	30.03	0.34
Coyle	Swayze	3574	SCS50yr	5.41	180.01	181.4	181.15	181.44	0.001272	1.08	11.52	36.74	0.32
Coyle	Swayze	3574	SCS100yr	6.26	180.01	181.49	181.26	181.51	0.001034	1.01	14.73	45.06	0.29
Coyle	Swayze	3574	SCS200yr	7.76	180.01	181.5	181.31	181.54	0.001501	1.23	15.15	46.15	0.35
Coyle	Swayze	3574	RSnow100yr	4.16	180.01	181.28	180.88	181.33	0.001688	1.15	7.57	29.17	0.36
Coyle	Swayze	3506	SCS2yr	1.94	179.95	180.88	180.5	180.92	0.001772	0.94	2.3	7.47	0.34
Coyle	Swayze	3506	SCS5yr	2.68	179.95	181.02	180.59	181.07	0.001874	1.08	3.01	17.67	0.36
Coyle	Swayze	3506	SCS10yr	3.36	179.95	180.98	180.68	181.07	0.003485	1.42	2.73	10.57	0.49
Coyle	Swayze	3506	SCS25yr	4.43	179.95	181.03	180.79	181.18	0.004941	1.76	3.12	20.57	0.59
Coyle	Swayze	3506	SCS50yr	5.41	179.95	181.04	180.89	181.25	0.006858	2.1	3.36	24.22	0.7
Coyle	Swayze	3506	SCS100yr	6.26	179.95	181.06	180.96	181.33	0.008746	2.4	3.63	26.65	0.79
Coyle	Swayze	3506	SCS200yr	7.76	179.95	181.14	181.04	181.33	0.006785	2.23	8.38	57.88	0.7
Coyle	Swayze	3506	RSnow100yr	4.16	179.95	180.99	180.76	181.14	0.005016	1.73	2.82	11.7	0.59
Coyle	Swayze	3422	SCS2yr	1.94	179.8	180.66	180.38	180.72	0.003395	1.09	1.82	24.7	0.44
Coyle	Swayze	3422	SCS5yr	2.68	179.8	180.8	180.49	180.87	0.00316	1.21	2.71	61.22	0.44
Coyle	Swayze	3422	SCS10yr	3.36	179.8	180.84	180.57	180.86	0.001553	0.88	12.15	75.42	0.31
Coyle	Swayze	3422	SCS25yr	4.43	179.8	180.88	180.67	180.91	0.001761	0.97	15.47	93.96	0.34
Coyle	Swayze	3422	SCS50yr	5.41	179.8	180.92	180.8	180.95	0.001648	0.97	20.26	123.9	0.33
Coyle	Swayze	3422	SCS100yr	6.26	179.8	180.94	180.81	180.97	0.001817	1.03	22.92	136.6	0.35
Coyle	Swayze	3422	SCS200yr	7.76	179.8	180.98	180.88	181	0.001961	1.1	27.62	152.51	0.36
Coyle	Swayze	3422	RSnow100yr	4.16	179.8	180.92	180.65	180.93	0.001028	0.76	19.58	119.41	0.26
Coyle	Swayze	3348	SCS2yr	1.94	179.55	180.32	180.12	180.41	0.005173	1.31	1.56	3.13	0.54
Coyle	Swayze	3348	SCS5yr	2.68	179.55	180.36	180.22	180.51	0.008119	1.7	1.67	3.23	0.68
Coyle	Swayze	3348	SCS10yr	3.36	179.55	180.36	180.3	180.59	0.012885	2.14	1.66	3.23	0.85
Coyle	Swayze	3348	SCS25yr	4.43	179.55	180.61	180.61	180.7	0.004391	1.56	7.55	57.87	0.53
Coyle	Swayze	3348	SCS50yr	5.41	179.55	180.64	180.64	180.74	0.005012	1.7	9.47	72.5	0.57
Coyle	Swayze	3348	SCS100yr	6.26	179.55	180.69	180.69	180.77	0.004077	1.59	14.23	113.4	0.52
Coyle	Swayze	3348	SCS200yr	7.76	179.55	180.73	180.73	180.8	0.003799	1.58	19.81	143.73	0.5
Coyle	Swayze	3348	RSnow100yr	4.16	179.55	180.39	180.39	180.71	0.016292	2.5	1.78	3.34	0.97
Coyle	Swayze	3276	SCS2yr	1.94	179.47	180.26	179.98	180.26	0.000878	0.36	10.42	49.63	0.15
Coyle	Swayze	3276	SCS5yr	2.68	179.47	180.32	180.02	180.33	0.00081	0.37	14.31	65.4	0.15
Coyle	Swayze	3276	SCS10yr	3.36	179.47	180.37	180.05	180.38	0.000756	0.38	18.29	89.5	0.14
Coyle	Swayze	3276	SCS25yr	4.43	179.47	180.44	180.09	180.45	0.000625	0.36	25.51	117.25	0.13
Coyle	Swayze	3276	SCS50yr	5.41	179.47	180.61	180.12	180.61	0.000204	0.24	58.43	287.55	0.08
Coyle	Swayze	3276	SCS100yr	6.26	179.47	180.68	180.16	180.68	0.000141	0.21	80.28	362.56	0.07
Coyle	Swayze	3276	SCS200yr	7.76	179.47	180.76	180.19	180.76	0.000025	0.09	217.5	824.34	0.03
Coyle	Swayze	3276	RSnow100yr	4.16	179.47	180.42	180.08	180.42	0.000727	0.38	22.49	105.21	0.14

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Swayze	3210	SCS2yr	1.94	179.43	180.21	179.91	180.21	0.000714	0.28	13.59	70.22	0.12
Coyle	Swayze	3210	SCS5yr	2.68	179.43	180.28	179.94	180.28	0.000598	0.28	19.96	108.8	0.11
Coyle	Swayze	3210	SCS10yr	3.36	179.43	180.34	179.98	180.34	0.000502	0.27	27.8	178.87	0.1
Coyle	Swayze	3210	SCS25yr	4.43	179.43	180.42	180.03	180.42	0.000329	0.24	48.71	333.71	0.09
Coyle	Swayze	3210	SCS50yr	5.41	179.43	180.61	180.06	180.61	0.000045	0.1	135.31	540.97	0.03
Coyle	Swayze	3210	SCS100yr	6.26	179.43	180.68	180.09	180.68	0.000032	0.09	174.15	582.63	0.03
Coyle	Swayze	3210	SCS200yr	7.76	179.43	180.76	180.12	180.76	0.000023	0.08	226.26	629.26	0.02
Coyle	Swayze	3210	RSnow100yr	4.16	179.43	180.38	180.02	180.38	0.000458	0.27	38.07	271.3	0.1
Coyle	Swayze	3150	SCS2yr	1.94	179.35	180.14	179.92	180.15	0.001091	0.64	7.88	38.42	0.26
Coyle	Swayze	3150	SCS5yr	2.68	179.35	180.23	179.97	180.24	0.00093	0.64	14.19	126.62	0.25
Coyle	Swayze	3150	SCS10yr	3.36	179.35	180.3	180.02	180.3	0.000593	0.55	27.48	239.59	0.2
Coyle	Swayze	3150	SCS25yr	4.43	179.35	180.4	180.08	180.4	0.000247	0.39	55.99	327.33	0.13
Coyle	Swayze	3150	SCS50yr	5.41	179.35	180.61	180.11	180.61	0.000033	0.16	154.09	572.6	0.05
Coyle	Swayze	3150	SCS100yr	6.26	179.35	180.68	180.14	180.68	0.000023	0.14	194.99	599.91	0.04
Coyle	Swayze	3150	SCS200yr	7.76	179.35	180.76	180.23	180.76	0.000018	0.13	248.19	628.21	0.04
Coyle	Swayze	3150	RSnow100yr	4.16	179.35	180.35	180.07	180.36	0.000429	0.49	41.87	287.79	0.17
Coyle	Swayze	3089	SCS2yr	2.45	179.25	179.98	179.79	180.03	0.00355	1.11	4.04	28.28	0.47
Coyle	Swayze	3089	SCS5yr	3.51	179.25	180.11	179.97	180.15	0.00228	1.02	8.63	53.22	0.39
Coyle	Swayze	3089	SCS10yr	4.47	179.25	180.24	180.03	180.26	0.000985	0.75	24.83	232.35	0.27
Coyle	Swayze	3089	SCS25yr	5.67	179.25	180.38	180.09	180.39	0.000217	0.39	76.91	479.22	0.13
Coyle	Swayze	3089	SCS50yr	7.01	179.25	180.6	180.13	180.6	0.000028	0.16	202.57	656.29	0.05
Coyle	Swayze	3089	SCS100yr	8.19	179.25	180.67	180.18	180.67	0.000021	0.15	249.79	692.98	0.04
Coyle	Swayze	3089	SCS200yr	10.21	179.25	180.76	180.26	180.76	0.000018	0.14	311.74	730.74	0.04
Coyle	Swayze	3089	RSnow100yr	5.14	179.25	180.33	180.06	180.33	0.000424	0.53	51.24	387.28	0.18
Coyle	Swayze	3025	SCS2yr	2.45	179.2	180.01		180.01	0.000044	0.08	43.98	181.94	0.04
Coyle	Swayze	3025	SCS5yr	3.51	179.2	180.13		180.13	0.000031	0.07	76.48	373.53	0.03
Coyle	Swayze	3025	SCS10yr	4.47	179.2	180.25		180.25	0.000018	0.06	134.68	604.46	0.02
Coyle	Swayze	3025	SCS25yr	5.67	179.2	180.38		180.38	0.000009	0.05	229.84	790.36	0.02
Coyle	Swayze	3025	SCS50yr	7.01	179.2	180.6		180.6	0.000003	0.03	431.75	1024.77	0.01
Coyle	Swayze	3025	SCS100yr	8.19	179.2	180.67		180.67	0.000002	0.03	504.7	1059.67	0.01
Coyle	Swayze	3025	SCS200yr	10.21	179.2	180.76		180.76	0.000002	0.03	598.59	1102	0.01
Coyle	Swayze	3025	RSnow100yr	5.14	179.2	180.33		180.33	0.000012	0.06	186.26	711.89	0.02
Coyle	Swayze	2955	SCS2yr	2.45	179.18	179.88	179.75	179.99	0.006807	1.45	1.77	21.97	0.65
Coyle	Swayze	2955	SCS5yr	3.51	179.18	179.86	179.86	180.1	0.015735	2.15	1.7	17.42	0.98
Coyle	Swayze	2955	SCS10yr	4.47	179.18	179.95	179.95	180.22	0.014559	2.3	2.08	47.07	0.97
Coyle	Swayze	2955	SCS25yr	5.67	179.18	180.05	180.05	180.35	0.013364	2.46	2.57	118.03	0.95
Coyle	Swayze	2955	SCS50yr	7.01	179.18	180.6	180.14	180.6	0.000001	0.03	553.13	1092.37	0.01
Coyle	Swayze	2955	SCS100yr	8.19	179.18	180.67	180.22	180.67	0.000001	0.03	630.04	1102.21	0.01
Coyle	Swayze	2955	SCS200yr	10.21	179.18	180.76	180.22	180.76	0.000001	0.03	725.86	1103.11	0.01
Coyle	Swayze	2955	RSnow100yr	5.14	179.18	180.01	180.01	180.29	0.013868	2.4	2.35	81.14	0.96
Coyle	Swayze	2875	SCS2yr	2.45	178.94	179.93	179.42	179.93	0	0.01	173.09	634.92	0.01
Coyle	Swayze	2875	SCS5yr	3.51	178.94	179.97	179.52	179.97	0.000001	0.02	197.93	684.03	0.01
Coyle	Swayze	2875	SCS10yr	4.47	178.94	180.01	179.6	180.01	0.000001	0.02	225.57	716.88	0.01
Coyle	Swayze	2875	SCS25yr	5.67	178.94	180.05	179.7	180.05	0.000001	0.02	253.42	755.08	0.01
Coyle	Swayze	2875	SCS50yr	7.01	178.94	180.6	179.8	180.6	0	0.01	783.15	1086.11	0
Coyle	Swayze	2875	SCS100yr	8.19	178.94	180.67	179.88	180.67	0	0.01	859.59	1095.02	0
Coyle	Swayze	2875	SCS200yr	10.21	178.94	180.76	179.93	180.76	0	0.01	955.03	1099.59	0
Coyle	Swayze	2875	RSnow100yr	5.14	178.94	180.03	179.66	180.03	0.000001	0.02	240.05	733.62	0.01
Coyle	Swayze	2870		Culvert									
Coyle	Swayze	2856	SCS2yr	2.72	178.78	179.88	179.26	179.9	0.00061	0.64	5.51	34.32	0.21
Coyle	Swayze	2856	SCS5yr	3.82	178.78	179.94	179.36	179.96	0.000831	0.78	9.44	112.97	0.25
Coyle	Swayze	2856	SCS10yr	4.87	178.78	179.98	179.44	180	0.000872	0.82	15.06	156.21	0.26
Coyle	Swayze	2856	SCS25yr	6.16	178.78	180.02	179.53	180.04	0.000807	0.81	22.38	185.32	0.25
Coyle	Swayze	2856	SCS50yr	7.66	178.78	180.6	179.63	180.6	0.000003	0.07	228.23	431.09	0.02
Coyle	Swayze	2856	SCS100yr	9.01	178.78	180.67	180	180.67	0.000003	0.06	258.55	436.03	0.02
Coyle	Swayze	2856	SCS200yr	11.38	178.78	180.76	180.03	180.76	0.000003	0.07	296.46	438.62	0.02
Coyle	Swayze	2856	RSnow100yr	5.53	178.78	180	179.49	180.02	0.000832	0.81	18.98	170.93	0.25
Coyle	Swayze	2821	SCS2yr	2.72	178.87	179.83	179.47	179.86	0.001532	0.9	5.76	58.05	0.33
Coyle	Swayze	2821	SCS5yr	3.82	178.87	179.9	179.58	179.93	0.001449	0.93	10.52	81.8	0.32
Coyle	Swayze	2821	SCS10yr	4.87	178.87	179.94	179.86	179.96	0.001493	0.97	14.23	104.59	0.33
Coyle	Swayze	2821	SCS25yr	6.16	178.87	179.97	179.89	180	0.001556	1.02	18.92	140.61	0.34
Coyle	Swayze	2821	SCS50yr	7.66	178.87	180.6	179.93	180.6	0.000005	0.09	236.27	379.98	0.02
Coyle	Swayze	2821	SCS100yr	9.01	178.87	180.67	179.94	180.67	0.000005	0.09	262.86	380.24	0.02
Coyle	Swayze	2821	SCS200yr	11.38	178.87	180.76	180	180.76	0.000006	0.09	295.84	380.63	0.02
Coyle	Swayze	2821	RSnow100yr	5.53	178.87	179.95	179.88	179.98	0.001582	1.02	16.43	119.49	0.34
Coyle	Swayze	2730	SCS2yr	2.72	178.71	179.7		179.73	0.001304	0.87	5.54	52.03	0.31
Coyle	Swayze	2730	SCS5yr	3.82	178.71	179.77		179.8	0.001343	0.93	10.97	109.23	0.31
Coyle	Swayze	2730	SCS10yr	4.87	178.71	179.81		179.84	0.001284	0.94	16.47	138.96	0.31
Coyle	Swayze	2730	SCS25yr	6.16	178.71	179.89		179.91	0.000714	0.74	30.47	202.19	0.23
Coyle	Swayze	2730	SCS50yr	7.66	178.71	180.6		180.6	0.000003	0.07	293.02	414.12	0.02
Coyle	Swayze	2730	SCS100yr	9.01	178.71	180.67		180.67	0.000003	0.07	322.04	415.62	0.02
Coyle	Swayze	2730	SCS200yr	11.38	178.71	180.76		180.76	0.000004	0.08	358.13	417.34	0.02
Coyle	Swayze	2730	RSnow100yr	5.53	178.71	179.84		179.86	0.001151	0.91	20.54	158.44	0.29
Coyle	Swayze	2644	SCS2yr	2.72	178.66	179.65		179.66	0.000531	0.55	13.44	114.65	0.2
Coyle	Swayze	2644	SCS5yr	3.82	178.66	179.72		179.73	0.000437	0.53	24.54	180.05	0.18
Coyle	Swayze	2644	SCS10yr	4.87	178.66	179.77		179.78	0.000379	0.51	34.26	226.5	0.17
Coyle	Swayze	2644	SCS25yr	6.16	178.66	179.87		179.88	0.000175	0.37	63.62	346.46	0.12
Coyle	Swayze	2644	SCS50yr	7.66	178.66	180.6		180.6	0.000001	0.04	432.97	534.1	0.01
Coyle	Swayze	2644	SCS100yr	9.01	178.66	180.67		180.67	0.000001	0.05	470.35	534.51	0.01
Coyle	Swayze	2644	SCS200yr	11.38	178.66	180.76		180.76	0.000002	0.05	516.67	535.18	0.01
Coyle	Swayze	2644	RSnow100yr	5.53	178.66	179.8		179.81	0.000336	0.49	41.78	261.32	0.16
Coyle	Swayze	2577	SCS2yr	2.72	178.55	179.58	179.16	179.61	0.001123	0.83	7.26	73.56	0.28
Coyle	Swayze	2577	SCS5yr	3.82	178.55	179.68	179.27	179.69	0.000646	0.68	17.98	140.1	0.22
Coyle	Swayze	2577	SCS10yr	4.87	178.55	179.74	179.38	179.75	0.000517	0.63	27.89	217.21	0.2
Coyle	Swayze	2577	SCS25yr	6.16	178.55	179.86	179.63	179.86	0.000162	0.38	64.24	369.53	0.11
Coyle	Swayze	2577	SCS50yr	7.66	178.55	180.6	179.66	180.6	0.000001	0.04	494.83	563.01	0.01
Coyle	Swayze	2577	SCS100yr	9.01	178.55	180.67	179.68	180.67	0.000001	0.04	534.22	563.01	0.01
Coyle	Swayze	2577	SCS200yr	11.38	178.55	180.76	179.72	180.76	0.000001	0.05	582.98	563.01	0.01
Coyle	Swayze	2577	RSnow100yr	5.53	178.55	179.77	179.62	179.78	0.000462	0.61	36.45	264.99	0.19
Coyle	Swayze	2503	SCS2yr	2.72	178.5	179.48	179.03	179.51	0.001474	0.84	3.9	13.47	0.3
Coyle	Swayze	2503	SCS5yr	3.82	178.5	179.57	179.13	179.62	0.001755	0.99	5.65	22.31	0.33
Coyle	Swayze	2503	SCS10yr	4.87	178.5	179.61	179.22	179.67	0.002238	1.15	6.66	25.89	0.37
Coyle	Swayze	2503	SCS25yr	6.16	178.5	179.85	179.32	179.85	0.000117	0.3	73.56	300.49	0.09
Coyle	Swayze	2503	SCS50yr	7.66	178.5	180.6	179.47	180.6	0.000001	0.04	508.9	541.89	0.01
Coyle	Swayze	2503	SCS100yr	9.01	178.5	180.67	179.63	180.67	0.000001	0.04	546.81	541.89	0.01
Coyle	Swayze	2503	SCS200yr	11.38	178.5	180.76	179.75	180.76	0.000001	0.04	593.73	541.89	0.01
Coyle	Swayze	2503	RSnow100yr	5.53	178.5	179.64	179.27	179.71	0.002455	1.23	7.46	29.83	0.39
Coyle	Swayze	2419	SCS2yr	2.72	178.3	179.37		179.41	0.001022	0.81	5.2	33.53	0.27
Coyle	Swayze	2419	SCS5yr	3.82	178.3	179.48		179.5	0.000953	0.84	12.47	135.95	0.27
Coyle	Swayze	2419	SCS10yr	4.87	178.3	179.53		179.55	0.000906	0.85	20.99	228.46	0.26
Coyle	Swayze	2419	SCS25yr	6.16	178.3	179.85		179.85	0.000028	0.18	138.05	440.65	0.05
Coyle	Swayze	2419	SCS50yr	7.66	178.3	180.6		180.6	0.000001	0.04	485.74	468.04	0.01
Coyle	Swayze	2419	SCS100yr	9.01	178.3	180.67		180.67	0.000001	0.04	518.47	468.04	0.01

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Swayze	2419	SCS200yr	11.38	178.3	180.76		180.76	0.000001	0.05	559	468.04	0.01
Coyle	Swayze	2419	RSnow100yr	5.53	178.3	179.64		179.64	0.000248	0.47	53.84	333.23	0.14
Coyle	Swayze	2342	SCS2yr	2.72	178.27	179.24		179.29	0.002074	1.07	3.41	18.85	0.38
Coyle	Swayze	2342	SCS5yr	3.82	178.27	179.34	178.98	179.4	0.002032	1.15	7.17	63.26	0.38
Coyle	Swayze	2342	SCS10yr	4.87	178.27	179.42		179.46	0.001495	1.04	13.56	99.79	0.33
Coyle	Swayze	2342	SCS25yr	6.16	178.27	179.85		179.85	0.000024	0.17	145.04	452.64	0.04
Coyle	Swayze	2342	SCS50yr	7.66	178.27	180.6		180.6	0.000001	0.04	497.62	477.64	0.01
Coyle	Swayze	2342	SCS100yr	9.01	178.27	180.67		180.67	0.000001	0.04	531.02	477.64	0.01
Coyle	Swayze	2342	SCS200yr	11.38	178.27	180.76		180.76	0.000001	0.05	572.36	477.64	0.01
Coyle	Swayze	2342	RSnow100yr	5.53	178.27	179.62		179.62	0.000197	0.43	51.31	288.57	0.12
Coyle	Swayze	2255	SCS2yr	2.72	178.13	179.13		179.16	0.001064	0.79	4.17	15.13	0.28
Coyle	Swayze	2255	SCS5yr	3.82	178.13	179.2		179.25	0.001499	0.99	5.58	26.99	0.33
Coyle	Swayze	2255	SCS10yr	4.87	178.13	179.29		179.33	0.001437	1.03	9	61.09	0.33
Coyle	Swayze	2255	SCS25yr	6.16	178.13	179.85		179.85	0.00001	0.11	181.98	447.53	0.03
Coyle	Swayze	2255	SCS50yr	7.66	178.13	180.6		180.6	0.000001	0.03	536.98	476.02	0.01
Coyle	Swayze	2255	SCS100yr	9.01	178.13	180.67		180.67	0.000001	0.04	570.27	476.02	0.01
Coyle	Swayze	2255	SCS200yr	11.38	178.13	180.76		180.76	0.000001	0.04	611.47	476.02	0.01
Coyle	Swayze	2255	RSnow100yr	5.53	178.13	179.61		179.61	0.000067	0.27	80.51	409.09	0.07
Coyle	Swayze	2184	SCS2yr	2.72	178.09	179.13	178.63	179.13	0.000159	0.32	18.44	53.57	0.11
Coyle	Swayze	2184	SCS5yr	3.82	178.09	179.2	178.69	179.2	0.000204	0.38	23.51	88.96	0.12
Coyle	Swayze	2184	SCS10yr	4.87	178.09	179.28	178.73	179.29	0.000227	0.43	33.23	151.91	0.13
Coyle	Swayze	2184	SCS25yr	6.16	178.09	179.85	178.77	179.85	0.000003	0.07	289.1	603.43	0.02
Coyle	Swayze	2184	SCS50yr	7.66	178.09	180.6	178.81	180.6	0	0.03	754.97	616.93	0.01
Coyle	Swayze	2184	SCS100yr	9.01	178.09	180.67	178.84	180.67	0	0.03	798.11	616.93	0.01
Coyle	Swayze	2184	SCS200yr	11.38	178.09	180.76	178.9	180.76	0	0.03	851.49	616.93	0.01
Coyle	Swayze	2184	RSnow100yr	5.53	178.09	179.61	178.75	179.61	0.000016	0.13	156.16	495.04	0.04
Coyle	Swayze	2145	SCS2yr	2.72	177.89	179.11	178.47	179.12	0.000311	0.47	9.3	158.92	0.15
Coyle	Swayze	2145	SCS5yr	3.82	177.89	179.17	178.56	179.19	0.000448	0.59	11.16	179.65	0.19
Coyle	Swayze	2145	SCS10yr	4.87	177.89	179.26	178.63	179.27	0.000462	0.64	14.27	208.97	0.19
Coyle	Swayze	2145	SCS25yr	6.16	177.89	179.85	178.71	179.85	0.000002	0.05	411.05	799.8	0.01
Coyle	Swayze	2145	SCS50yr	7.66	177.89	180.6	178.79	180.6	0	0.02	1032.27	824.94	0
Coyle	Swayze	2145	SCS100yr	9.01	177.89	180.67	178.86	180.67	0	0.02	1089.94	824.94	0
Coyle	Swayze	2145	SCS200yr	11.38	177.89	180.76	179.03	180.76	0	0.02	1161.33	824.94	0
Coyle	Swayze	2145	RSnow100yr	5.53	177.89	179.61	178.67	179.61	0.000005	0.08	198.68	501.44	0.02
Coyle	Swayze	2132		Culvert									
Coyle	Swayze	2119	SCS2yr	2.72	177.8	179.1	178.37	179.1	0.000014	0.1	76.48	325.49	0.03
Coyle	Swayze	2119	SCS5yr	3.82	177.8	179.17	178.51	179.17	0.000015	0.11	96.31	381.3	0.03
Coyle	Swayze	2119	SCS10yr	4.87	177.8	179.26	178.56	179.26	0.000012	0.1	127.73	439.76	0.03
Coyle	Swayze	2119	SCS25yr	6.16	177.8	179.85	178.61	179.85	0.000001	0.03	526.66	790.01	0.01
Coyle	Swayze	2119	SCS50yr	7.66	177.8	180.6	178.65	180.6	0	0.01	1145.01	823.87	0
Coyle	Swayze	2119	SCS100yr	9.01	177.8	180.67	178.75	180.67	0	0.02	1202.56	823.87	0
Coyle	Swayze	2119	SCS200yr	11.38	177.8	180.76	178.78	180.76	0	0.02	1273.74	823.87	0
Coyle	Swayze	2119	RSnow100yr	5.53	177.8	179.61	178.58	179.61	0.000001	0.04	310.57	499.75	0.01
Coyle	Swayze	2091	SCS2yr	2.72	177.98	179.1	178.59	179.1	0.000052	0.19	39.6	173.61	0.06
Coyle	Swayze	2091	SCS5yr	3.82	177.98	179.17	178.63	179.17	0.000058	0.21	52.14	232.64	0.07
Coyle	Swayze	2091	SCS10yr	4.87	177.98	179.25	178.7	179.25	0.000048	0.2	75.62	308.82	0.06
Coyle	Swayze	2091	SCS25yr	6.16	177.98	179.85	178.73	179.85	0.000001	0.04	429.18	825.95	0.01
Coyle	Swayze	2091	SCS50yr	7.66	177.98	180.6	178.77	180.6	0	0.02	1089.8	878.77	0
Coyle	Swayze	2091	SCS100yr	9.01	177.98	180.67	178.8	180.67	0	0.02	1151.19	878.77	0
Coyle	Swayze	2091	SCS200yr	11.38	177.98	180.76	178.86	180.76	0	0.02	1227.11	878.77	0
Coyle	Swayze	2091	RSnow100yr	5.53	177.98	179.61	178.72	179.61	0.000003	0.06	255.36	671.21	0.02
Coyle	Swayze	2016	SCS2yr	2.72	177.69	179.1	178.34	179.1	0.000034	0.18	42.31	162.21	0.05
Coyle	Swayze	2016	SCS5yr	3.82	177.69	179.16	178.46	179.16	0.000038	0.2	54.03	207.99	0.06
Coyle	Swayze	2016	SCS10yr	4.87	177.69	179.25	178.56	179.25	0.000029	0.18	75.99	300.27	0.05
Coyle	Swayze	2016	SCS25yr	6.16	177.69	179.85	178.83	179.85	0.000001	0.04	436.93	840.96	0.01
Coyle	Swayze	2016	SCS50yr	7.66	177.69	180.6	178.86	180.6	0	0.02	1182	1025.07	0
Coyle	Swayze	2016	SCS100yr	9.01	177.69	180.67	178.9	180.67	0	0.02	1253.61	1025.07	0
Coyle	Swayze	2016	SCS200yr	11.38	177.69	180.76	178.93	180.76	0	0.02	1342.15	1025.07	0
Coyle	Swayze	2016	RSnow100yr	5.53	177.69	179.61	178.81	179.61	0.000003	0.06	250.18	668.33	0.02
Coyle	Swayze	1922	SCS2yr	2.72	177.69	179.1	178.29	179.1	0.000039	0.2	49.14	274.37	0.06
Coyle	Swayze	1922	SCS5yr	3.82	177.69	179.16	178.41	179.16	0.000039	0.2	68.2	327.8	0.06
Coyle	Swayze	1922	SCS10yr	4.87	177.69	179.25	178.51	179.25	0.000027	0.18	100.8	403.15	0.05
Coyle	Swayze	1922	SCS25yr	6.16	177.69	179.84	178.63	179.84	0.000001	0.04	476.49	836.8	0.01
Coyle	Swayze	1922	SCS50yr	7.66	177.69	180.6	178.88	180.6	0	0.02	1237.61	1038.48	0
Coyle	Swayze	1922	SCS100yr	9.01	177.69	180.67	178.91	180.67	0	0.02	1310.18	1038.92	0
Coyle	Swayze	1922	SCS200yr	11.38	177.69	180.76	178.94	180.76	0	0.02	1399.9	1038.92	0
Coyle	Swayze	1922	RSnow100yr	5.53	177.69	179.61	178.57	179.61	0.000002	0.06	293.6	698.14	0.01
Coyle	Swayze	1848	SCS2yr	2.72	177.65	179.09		179.09	0.00005	0.1	34.87	197.55	0.04
Coyle	Swayze	1848	SCS5yr	3.82	177.65	179.16		179.16	0.000061	0.12	49.57	279.1	0.05
Coyle	Swayze	1848	SCS10yr	4.87	177.65	179.25		179.25	0.000049	0.12	82.75	449.93	0.04
Coyle	Swayze	1848	SCS25yr	6.16	177.65	179.84		179.84	0.000001	0.02	477.21	753.69	0.01
Coyle	Swayze	1848	SCS50yr	7.66	177.65	180.6		180.6	0	0.01	1132.41	938	0
Coyle	Swayze	1848	SCS100yr	9.01	177.65	180.67		180.67	0	0.01	1198.7	973.15	0
Coyle	Swayze	1848	SCS200yr	11.38	177.65	180.76		180.76	0	0.01	1284.42	998.74	0
Coyle	Swayze	1848	RSnow100yr	5.53	177.65	179.61		179.61	0.000002	0.03	308.89	692.94	0.01
Coyle	Swayze	1764	SCS2yr	2.72	177.7	179.09		179.09	0.000016	0.12	78.88	359.65	0.03
Coyle	Swayze	1764	SCS5yr	3.82	177.7	179.15		179.15	0.000016	0.13	102.5	399.28	0.04
Coyle	Swayze	1764	SCS10yr	4.87	177.7	179.24		179.24	0.000013	0.12	142.67	503.04	0.03
Coyle	Swayze	1764	SCS25yr	6.16	177.7	179.84		179.84	0.000001	0.03	502.43	688.47	0.01
Coyle	Swayze	1764	SCS50yr	7.66	177.7	180.6		180.6	0	0.01	1194.49	985.47	0
Coyle	Swayze	1764	SCS100yr	9.01	177.7	180.67		180.67	0	0.02	1263.41	987.66	0
Coyle	Swayze	1764	SCS200yr	11.38	177.7	180.76		180.76	0	0.02	1348.91	993.54	0
Coyle	Swayze	1764	RSnow100yr	5.53	177.7	179.61		179.61	0.000001	0.04	352.16	619.64	0.01
Coyle	Swayze	1738	SCS2yr	4.52	177.65	179.09		179.09	0.000075	0.22	67.22	394.65	0.06
Coyle	Swayze	1738	SCS5yr	5.58	177.65	179.15		179.15	0.000057	0.19	94.03	456.22	0.05
Coyle	Swayze	1738	SCS10yr	6.59	177.65	179.24		179.24	0.00003	0.15	137.19	490.46	0.04
Coyle	Swayze	1738	SCS25yr	8.3	177.65	179.84		179.84	0.000001	0.04	502.36	728.06	0.01
Coyle	Swayze	1738	SCS50yr	10.85	177.65	180.6		180.6	0	0.02	1170.55	964.33	0
Coyle	Swayze	1738	SCS100yr	13.2	177.65	180.67		180.67	0	0.02	1238.16	971.57	0
Coyle	Swayze	1738	SCS200yr	17.43	177.65	180.76		180.76	0	0.02	1322.75	988.32	0
Coyle	Swayze	1738	RSnow100yr	7.69	177.65	179.61		179.61	0.000003	0.05	346.88	623.78	0.01
Coyle	Swayze	1651	SCS2yr	4.52	177.57	179.09		179.09	0.000024	0.08	101.6	412.58	0.03
Coyle	Swayze	1651	SCS5yr	5.58	177.57	179.15		179.15	0.000019	0.07	130.27	483.35	0.03
Coyle	Swayze	1651	SCS10yr	6.59	177.57	179.24		179.24	0.000012	0.06	179.72	625.52	0.02
Coyle	Swayze	1651	SCS25yr	8.3	177.57	179.84		179.84	0.000001	0.02	623.05	848.04	0
Coyle	Swayze	1651	SCS50yr	10.85	177.57	180.6		180.6	0	0.01	1355.77	1034.74	0
Coyle	Swayze	1651	SCS100yr	13.2	177.57	180.67		180.67	0	0.01	1428.07	1035.11	0
Coyle	Swayze	1651	SCS200yr	17.43	177.57	180.76		180.76	0	0.01	1517.44	1035.67	0
Coyle	Swayze	1651	RSnow100yr	7.69	177.57	179.61		179.61	0.000001	0.03	437.45	736.08	0.01
Coyle	Swayze	1575	SCS2yr	5.04	177.64	179.08		179.09	0.000035	0.17	101.76	414.59	0.05
Coyle	Swayze	1575	SCS5yr	6.3	177.64	179.15		179.15	0.00003	0.16	130.28	482.06	0.04
Coyle	Swayze	1575	SCS10yr	7.47	177.64	179.24		179.24	0.000017	0.13	176.11	508.69	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Swayze	1575	SCS25yr	9.2	177.64	179.84		179.84	0.000001	0.04	576.78	984.31	0.01
Coyle	Swayze	1575	SCS50yr	11.66	177.64	180.6		180.6	0	0.02	1363.59	1044.16	0
Coyle	Swayze	1575	SCS100yr	14.19	177.64	180.67		180.67	0	0.02	1436.55	1045.94	0
Coyle	Swayze	1575	SCS200yr	18.84	177.64	180.76		180.76	0	0.02	1527.05	1049.39	0
Coyle	Swayze	1575	RSnow100yr	8.73	177.64	179.61		179.61	0.000002	0.05	385.58	648.42	0.01
Coyle	Swayze	1483	SCS2yr	5.04	177.55	179.08		179.08	0.000025	0.17	94.96	286.89	0.05
Coyle	Swayze	1483	SCS5yr	6.3	177.55	179.15		179.15	0.000025	0.18	114.67	337.64	0.05
Coyle	Swayze	1483	SCS10yr	7.47	177.55	179.24		179.24	0.000019	0.16	149.07	402.02	0.04
Coyle	Swayze	1483	SCS25yr	9.2	177.55	179.84		179.84	0.000001	0.04	549.76	900.02	0.01
Coyle	Swayze	1483	SCS50yr	11.66	177.55	180.6		180.6	0	0.01	1330.83	1073.32	0
Coyle	Swayze	1483	SCS100yr	14.19	177.55	180.67		180.67	0	0.02	1405.78	1073.32	0
Coyle	Swayze	1483	SCS200yr	18.84	177.55	180.76		180.76	0	0.02	1498.39	1073.32	0
Coyle	Swayze	1483	RSnow100yr	8.73	177.55	179.61		179.61	0.000003	0.07	355.9	750.7	0.02
Coyle	Swayze	1404	SCS2yr	5.04	177.43	179.08		179.08	0.000029	0.17	93.22	341.46	0.04
Coyle	Swayze	1404	SCS5yr	6.3	177.43	179.14		179.14	0.000026	0.17	116.43	390.33	0.04
Coyle	Swayze	1404	SCS10yr	7.47	177.43	179.24		179.24	0.000018	0.14	154.62	422.64	0.04
Coyle	Swayze	1404	SCS25yr	9.2	177.43	179.84		179.84	0.000001	0.04	511.89	843.93	0.01
Coyle	Swayze	1404	SCS50yr	11.66	177.43	180.6		180.6	0	0.01	1252.54	1060.66	0
Coyle	Swayze	1404	SCS100yr	14.19	177.43	180.67		180.67	0	0.01	1326.61	1060.66	0
Coyle	Swayze	1404	SCS200yr	18.84	177.43	180.76		180.76	0	0.02	1418.13	1060.66	0
Coyle	Swayze	1404	RSnow100yr	8.73	177.43	179.61		179.61	0.000003	0.06	342.61	610.79	0.01
Coyle	Swayze	1335	SCS2yr	5.04	177.49	179.08		179.08	0.00003	0.18	89.78	317.21	0.05
Coyle	Swayze	1335	SCS5yr	6.3	177.49	179.14		179.14	0.000026	0.17	110.77	334.47	0.05
Coyle	Swayze	1335	SCS10yr	7.47	177.49	179.24		179.24	0.000017	0.15	143.23	348.54	0.04
Coyle	Swayze	1335	SCS25yr	9.2	177.49	179.84		179.84	0.000001	0.05	447.78	721.29	0.01
Coyle	Swayze	1335	SCS50yr	11.66	177.49	180.6		180.6	0	0.02	1098.29	938.1	0
Coyle	Swayze	1335	SCS100yr	14.19	177.49	180.67		180.67	0	0.02	1164.59	958.47	0
Coyle	Swayze	1335	SCS200yr	18.84	177.49	180.76		180.76	0	0.02	1248.83	987.94	0
Coyle	Swayze	1335	RSnow100yr	8.73	177.49	179.61		179.61	0.000003	0.07	303.22	540.59	0.02
Coyle	Swayze	1248	SCS2yr	5.04	177.45	179.08		179.08	0.00001	0.1	129.28	321.32	0.03
Coyle	Swayze	1248	SCS5yr	6.3	177.45	179.14		179.14	0.00001	0.1	150.44	333.53	0.03
Coyle	Swayze	1248	SCS10yr	7.47	177.45	179.24		179.24	0.000008	0.09	184.12	378.95	0.02
Coyle	Swayze	1248	SCS25yr	9.2	177.45	179.84		179.84	0.000001	0.04	520.35	797.82	0.01
Coyle	Swayze	1248	SCS50yr	11.66	177.45	180.6		180.6	0	0.02	1239.36	1024.47	0
Coyle	Swayze	1248	SCS100yr	14.19	177.45	180.67		180.67	0	0.02	1311.06	1027.79	0
Coyle	Swayze	1248	SCS200yr	18.84	177.45	180.76		180.76	0	0.03	1399.75	1027.98	0
Coyle	Swayze	1248	RSnow100yr	8.73	177.45	179.61		179.61	0.000002	0.05	351.09	617.86	0.01
Coyle	Swayze	1186	SCS2yr	4.96	177.43	179.08		179.08	0.000001	0.03	152.3	253.12	0.01
Coyle	Swayze	1186	SCS5yr	6.5	177.43	179.14		179.14	0.000001	0.03	168.67	256	0.01
Coyle	Swayze	1186	SCS10yr	7.8	177.43	179.24		179.24	0.000001	0.03	194.15	287.93	0.01
Coyle	Swayze	1186	SCS25yr	9.69	177.43	179.84		179.84	0	0.02	452.42	609.23	0
Coyle	Swayze	1186	SCS50yr	11.98	177.43	180.6		180.6	0	0.01	1056.57	943.71	0
Coyle	Swayze	1186	SCS100yr	14.42	177.43	180.67		180.67	0	0.01	1122.66	948.57	0
Coyle	Swayze	1186	SCS200yr	19.04	177.43	180.76		180.76	0	0.01	1205.09	960.06	0
Coyle	Swayze	1186	RSnow100yr	8.94	177.43	179.61		179.61	0	0.02	327.13	427.85	0
Coyle	Swayze	1083	SCS2yr	4.96	177.41	179.08	178.46	179.08	0	0.01	232.18	279.98	0
Coyle	Swayze	1083	SCS5yr	6.5	177.41	179.14	178.58	179.14	0	0.01	250.62	293.11	0
Coyle	Swayze	1083	SCS10yr	7.8	177.41	179.24	178.69	179.24	0	0.01	278.83	303.2	0
Coyle	Swayze	1083	SCS25yr	9.69	177.41	179.84	178.79	179.84	0	0.01	526.8	569.35	0
Coyle	Swayze	1083	SCS50yr	11.98	177.41	180.6	178.89	180.6	0	0.01	1057.41	819.15	0
Coyle	Swayze	1083	SCS100yr	14.42	177.41	180.67	178.89	180.67	0	0.01	1115.19	839.07	0
Coyle	Swayze	1083	SCS200yr	19.04	177.41	180.76	178.89	180.76	0	0.01	1189.35	877.55	0
Coyle	Swayze	1083	RSnow100yr	8.94	177.41	179.61	178.75	179.61	0	0.01	411.79	403.87	0
Coyle	Swayze	1075		Bridge									
Coyle	Swayze	1064	SCS2yr	6	177.28	179.07	177.88	179.07	0.000002	0.06	120.21	191.24	0.01
Coyle	Swayze	1064	SCS5yr	7.9	177.28	179.14	177.98	179.14	0.000003	0.07	132.6	201.42	0.02
Coyle	Swayze	1064	SCS10yr	9.56	177.28	179.23	178.05	179.23	0.000003	0.07	152.65	215.61	0.02
Coyle	Swayze	1064	SCS25yr	12.04	177.28	179.84	178.16	179.84	0.000001	0.03	364.7	554.37	0.01
Coyle	Swayze	1064	SCS50yr	14.36	177.28	180.6	178.25	180.6	0	0.02	938.16	834.92	0
Coyle	Swayze	1064	SCS100yr	16.66	177.28	180.67	178.34	180.67	0	0.02	996.63	835.47	0
Coyle	Swayze	1064	SCS200yr	22.02	177.28	180.76	178.53	180.76	0	0.03	1068.55	836.1	0
Coyle	Swayze	1064	RSnow100yr	11.47	177.28	179.61	178.13	179.61	0.000001	0.04	260.82	376.7	0.01
Coyle	Swayze	1004	SCS2yr	6	177.26	179.07		179.07	0.000038	0.19	70.68	181.73	0.06
Coyle	Swayze	1004	SCS5yr	7.9	177.26	179.14		179.14	0.000045	0.21	82.63	197.4	0.06
Coyle	Swayze	1004	SCS10yr	9.56	177.26	179.23		179.23	0.000038	0.2	102.91	226.74	0.06
Coyle	Swayze	1004	SCS25yr	12.04	177.26	179.84		179.84	0.000004	0.09	352.1	624.18	0.02
Coyle	Swayze	1004	SCS50yr	14.36	177.26	180.6		180.6	0	0.04	905.5	756.58	0.01
Coyle	Swayze	1004	SCS100yr	16.66	177.26	180.67		180.67	0.000001	0.04	958.45	756.58	0.01
Coyle	Swayze	1004	SCS200yr	22.02	177.26	180.76		180.76	0.000001	0.05	1023.55	756.58	0.01
Coyle	Swayze	1004	RSnow100yr	11.47	177.26	179.61		179.61	0.00001	0.12	228.04	432.85	0.03
Coyle	Swayze	1003	SCS2yr	6	177.24	179.07	178.02	179.07	0.000034	0.23	91.17	249.88	0.06
Coyle	Swayze	1003	SCS5yr	7.9	177.24	179.13	178.17	179.14	0.000037	0.24	107.06	256.32	0.06
Coyle	Swayze	1003	SCS10yr	9.56	177.24	179.23	178.26	179.23	0.00003	0.23	132.63	272.35	0.05
Coyle	Swayze	1003	SCS25yr	12.04	177.24	179.84	178.39	179.84	0.000003	0.09	353.03	415.11	0.02
Coyle	Swayze	1003	SCS50yr	14.36	177.24	180.6	178.69	180.6	0.000001	0.05	710.82	478.21	0.01
Coyle	Swayze	1003	SCS100yr	16.66	177.24	180.67	178.7	180.67	0.000001	0.05	744.29	478.4	0.01
Coyle	Swayze	1003	SCS200yr	22.02	177.24	180.76	178.8	180.76	0.000001	0.06	785.47	478.63	0.01
Coyle	Swayze	1003	RSnow100yr	11.47	177.24	179.61	178.38	179.61	0.000007	0.13	257.48	386.73	0.03
Coyle	Swayze	980	SCS2yr	6	176.89	179.07	177.64	179.07	0.000012	0.14	127.45	298.32	0.03
Coyle	Swayze	980	SCS5yr	7.9	176.89	179.13	177.76	179.13	0.000014	0.15	146.64	312.73	0.04
Coyle	Swayze	980	SCS10yr	9.56	176.89	179.23	177.86	179.23	0.000012	0.14	178.57	340.26	0.03
Coyle	Swayze	980	SCS25yr	12.04	176.89	179.84	177.98	179.84	0.000001	0.06	399.61	364.64	0.01
Coyle	Swayze	980	SCS50yr	14.36	176.89	180.6	178.08	180.6	0	0.03	676.47	365.79	0.01
Coyle	Swayze	980	SCS100yr	16.66	176.89	180.67	178.17	180.67	0	0.04	702.07	365.9	0.01
Coyle	Swayze	980	SCS200yr	22.02	176.89	180.76	178.41	180.76	0.000001	0.05	733.56	366.1	0.01
Coyle	Swayze	980	RSnow100yr	11.47	176.89	179.61	177.96	179.61	0.000003	0.08	313.78	364.3	0.02
Coyle	Swayze	965		Culvert									
Coyle	Swayze	953	SCS2yr	6	176.83	178.54	177.63	178.56	0.000415	0.67	8.94	79.83	0.18
Coyle	Swayze	953	SCS5yr	7.9	176.83	178.85	177.75	178.85	0.000016	0.15	57.66	182.4	0.04
Coyle	Swayze	953	SCS10yr	9.56	176.83	179.23	177.84	179.23	0.000002	0.07	133.47	200.34	0.01
Coyle	Swayze	953	SCS25yr	12.04	176.83	179.84	177.98	179.84	0	0.04	256.44	200.34	0.01
Coyle	Swayze	953	SCS50yr	14.36	176.83	180.6	178.1	180.6	0	0.02	408.81	200.34	0
Coyle	Swayze	953	SCS100yr	16.66	176.83	180.67	178.18	180.67	0	0.03	422.78	200.34	0
Coyle	Swayze	953	SCS200yr	22.02	176.83	180.76	178.38	180.76	0	0.03	439.97	200.34	0.01
Coyle	Swayze	953	RSnow100yr	11.47	176.83	179.61	177.95	179.61	0.000001	0.04	209.31	200.34	0.01
Coyle	Swayze	883	SCS2yr	6	177.1	178.5	177.85	178.53	0.000642	0.82	17.05	110.18	0.23
Coyle	Swayze	883	SCS5yr	7.9	177.1	178.85	177.96	178.85	0.000038	0.23	115.48	264.64	0.06
Coyle	Swayze	883	SCS10yr	9.56	177.1	179.23	178.07	179.23	0.000008	0.12	216.41	264.64	0.03
Coyle	Swayze	883	SCS25yr	12.04	177.1	179.84	178.18	179.84	0.000002	0.08	378.89	264.64	0.01
Coyle	Swayze	883	SCS50yr	14.36	177.1	180.6	178.47	180.6	0.000001	0.05	580.17	264.64	0.01
Coyle	Swayze	883	SCS100yr	16.66	177.1	180.67	178.53	180.67	0.000001	0.06	598.64	264.64	0.01
Coyle	Swayze	883	SCS200yr	22.02	177.1	180.76	178.58	180.76	0.000001	0.07	621.33	264.64	0.01

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Swayze	883	RSnow100yr	11.47	177.1	179.61	178.15	179.61	0.000003	0.09	316.62	264.64	0.02
Coyle	Swayze	816	SCS2yr	6	177.1	178.49		178.5	0.000226	0.5	25.86	126.72	0.14
Coyle	Swayze	816	SCS5yr	7.9	177.1	178.84		178.84	0.000045	0.26	84.51	176.72	0.07
Coyle	Swayze	816	SCS10yr	9.56	177.1	179.23		179.23	0.000012	0.15	164.31	223.91	0.03
Coyle	Swayze	816	SCS25yr	12.04	177.1	179.84		179.84	0.000003	0.09	301.94	223.91	0.02
Coyle	Swayze	816	SCS50yr	14.36	177.1	180.6		180.6	0.000001	0.06	472.27	223.91	0.01
Coyle	Swayze	816	SCS100yr	16.66	177.1	180.67		180.67	0.000001	0.07	487.89	223.91	0.01
Coyle	Swayze	816	SCS200yr	22.02	177.1	180.76		180.76	0.000002	0.09	507.08	223.91	0.02
Coyle	Swayze	816	RSnow100yr	11.47	177.1	179.61		179.61	0.000005	0.11	249.22	223.91	0.02
Coyle	Swayze	753	SCS2yr	6	177.09	178.48		178.48	0.000265	0.51	29.78	100.81	0.15
Coyle	Swayze	753	SCS5yr	7.9	177.09	178.84		178.84	0.000031	0.21	108.97	262.02	0.05
Coyle	Swayze	753	SCS10yr	9.56	177.09	179.23		179.23	0.000005	0.1	210.63	265.55	0.02
Coyle	Swayze	753	SCS25yr	12.04	177.09	179.84		179.84	0.000001	0.06	373.92	265.55	0.01
Coyle	Swayze	753	SCS50yr	14.36	177.09	180.6		180.6	0	0.04	575.94	265.55	0.01
Coyle	Swayze	753	SCS100yr	16.66	177.09	180.67		180.67	0	0.04	594.46	265.55	0.01
Coyle	Swayze	753	SCS200yr	22.02	177.09	180.76		180.76	0.000001	0.05	617.21	265.55	0.01
Coyle	Swayze	753	RSnow100yr	11.47	177.09	179.61		179.61	0.000002	0.07	311.38	265.55	0.01
Coyle	Swayze	683	SCS2yr	6	177.15	178.46		178.46	0.00026	0.5	30.39	151.33	0.15
Coyle	Swayze	683	SCS5yr	7.9	177.15	178.84		178.84	0.000022	0.18	119.79	269.16	0.05
Coyle	Swayze	683	SCS10yr	9.56	177.15	179.23		179.23	0.000005	0.09	226	282.26	0.02
Coyle	Swayze	683	SCS25yr	12.04	177.15	179.84		179.84	0.000001	0.06	411.61	305.53	0.01
Coyle	Swayze	683	SCS50yr	14.36	177.15	180.6		180.6	0	0.04	644.53	306.88	0.01
Coyle	Swayze	683	SCS100yr	16.66	177.15	180.67		180.67	0	0.04	665.94	307.07	0.01
Coyle	Swayze	683	SCS200yr	22.02	177.15	180.76		180.76	0.000001	0.05	692.26	307.26	0.01
Coyle	Swayze	683	RSnow100yr	11.47	177.15	179.61		179.61	0.000002	0.07	339.69	305.1	0.01
Coyle	Swayze	623	SCS2yr	5.51	177.12	178.45	177.77	178.45	0.000091	0.3	48.1	218.67	0.09
Coyle	Swayze	623	SCS5yr	7.37	177.12	178.84	178	178.84	0.000009	0.12	161.45	278.92	0.03
Coyle	Swayze	623	SCS10yr	9.1	177.12	179.23	178.05	179.23	0.000003	0.07	274.21	329.37	0.02
Coyle	Swayze	623	SCS25yr	11.52	177.12	179.84	178.12	179.84	0.000001	0.05	492.82	357.58	0.01
Coyle	Swayze	623	SCS50yr	14.07	177.12	180.6	178.17	180.6	0	0.03	765.38	359	0.01
Coyle	Swayze	623	SCS100yr	16.61	177.12	180.67	178.19	180.67	0	0.04	790.43	359.13	0.01
Coyle	Swayze	623	SCS200yr	22.02	177.12	180.76	178.28	180.76	0.000001	0.05	821.2	359.27	0.01
Coyle	Swayze	623	RSnow100yr	10.64	177.12	179.61	178.1	179.61	0.000001	0.06	408.63	357.13	0.01
Coyle	Swayze	602	SCS2yr	5.51	176.48	178.44	177.23	178.45	0.000169	0.45	13.63	139.48	0.12
Coyle	Swayze	602	SCS5yr	7.37	176.48	178.83	177.37	178.84	0.000125	0.46	18.26	231.35	0.11
Coyle	Swayze	602	SCS10yr	9.1	176.48	179.21	177.48	179.22	0.000094	0.45	22.92	291.24	0.1
Coyle	Swayze	602	SCS25yr	11.52	176.48	179.83	177.61	179.84	0.000062	0.43	30.32	354.72	0.08
Coyle	Swayze	602	SCS50yr	14.07	176.48	180.6	177.7	180.6	0.000001	0.06	416.24	356.18	0.01
Coyle	Swayze	602	SCS100yr	16.61	176.48	180.67	177.78	180.67	0.000001	0.07	429.11	356.3	0.01
Coyle	Swayze	602	SCS200yr	22.02	176.48	180.76	177.96	180.76	0.000002	0.09	444.93	356.47	0.01
Coyle	Swayze	602	RSnow100yr	10.64	176.48	179.59	177.58	179.6	0.000072	0.44	27.49	349.98	0.09
Coyle	Swayze	589		Culvert									
Coyle	Swayze	572	SCS2yr	5.51	176.39	178.12	177.27	178.15	0.000581	0.71	8.61	46.71	0.21
Coyle	Swayze	572	SCS5yr	7.37	176.39	178.25	177.41	178.29	0.000698	0.83	9.91	74.4	0.23
Coyle	Swayze	572	SCS10yr	9.1	176.39	178.34	177.52	178.38	0.000847	0.95	10.72	100.62	0.26
Coyle	Swayze	572	SCS25yr	11.52	176.39	178.42	177.65	178.48	0.001095	1.12	11.54	136.59	0.3
Coyle	Swayze	572	SCS50yr	14.07	176.39	178.48	177.76	178.56	0.001382	1.3	12.2	184.01	0.34
Coyle	Swayze	572	SCS100yr	16.61	176.39	178.53	177.87	178.63	0.001708	1.48	12.7	210.96	0.38
Coyle	Swayze	572	SCS200yr	21.82	176.39	178.59	178.07	178.75	0.002559	1.86	13.3	228.33	0.46
Coyle	Swayze	572	RSnow100yr	10.64	176.39	178.39	177.61	178.44	0.001002	1.06	11.27	116.15	0.28
Coyle	Swayze	552	SCS2yr	5.51	177.11	178.11	177.6	178.13	0.000833	0.74	9.29	32.28	0.25
Coyle	Swayze	552	SCS5yr	7.37	177.11	178.24	177.68	178.27	0.000734	0.77	14.25	40.33	0.24
Coyle	Swayze	552	SCS10yr	9.1	177.11	178.33	177.75	178.35	0.000738	0.81	18.14	54.9	0.25
Coyle	Swayze	552	SCS25yr	11.52	177.11	178.41	177.84	178.44	0.000768	0.87	23.86	75.41	0.26
Coyle	Swayze	552	SCS50yr	14.07	177.11	178.49	177.93	178.52	0.000811	0.93	29.79	88.01	0.27
Coyle	Swayze	552	SCS100yr	16.61	177.11	178.55	178.01	178.58	0.00082	0.96	35.35	103.09	0.27
Coyle	Swayze	552	SCS200yr	21.82	177.11	178.63	178.25	178.66	0.00093	1.07	44.76	126.83	0.29
Coyle	Swayze	552	RSnow100yr	10.64	177.11	178.38	177.81	178.41	0.000767	0.85	21.72	69.22	0.25
Coyle	Swayze	496	SCS2yr	5.51	176.9	178.01	177.56	178.07	0.001554	1.08	6.08	14.58	0.35
Coyle	Swayze	496	SCS5yr	7.37	176.9	178.14	177.68	178.21	0.00172	1.23	8.95	30.18	0.37
Coyle	Swayze	496	SCS10yr	9.1	176.9	178.22	177.77	178.29	0.001698	1.28	12.12	45.46	0.38
Coyle	Swayze	496	SCS25yr	11.52	176.9	178.31	177.89	178.38	0.001686	1.34	17.23	69.42	0.38
Coyle	Swayze	496	SCS50yr	14.07	176.9	178.39	178.01	178.45	0.001652	1.38	24.03	116.64	0.38
Coyle	Swayze	496	SCS100yr	16.61	176.9	178.45	178.28	178.51	0.001615	1.41	31.9	127.77	0.38
Coyle	Swayze	496	SCS200yr	21.82	176.9	178.56	178.37	178.6	0.00124	1.3	46.47	136.02	0.34
Coyle	Swayze	496	RSnow100yr	10.64	176.9	178.28	177.85	178.35	0.001715	1.33	15.18	60.92	0.38
Coyle	Swayze	388	SCS2yr	5.51	176.59	177.91	177.3	177.94	0.000845	0.9	10.35	33.02	0.26
Coyle	Swayze	388	SCS5yr	7.37	176.59	178.03	177.43	178.07	0.000853	0.96	15.51	54.61	0.27
Coyle	Swayze	388	SCS10yr	9.1	176.59	178.13	177.51	178.16	0.000824	0.99	21.73	81.75	0.27
Coyle	Swayze	388	SCS25yr	11.52	176.59	178.22	177.75	178.25	0.000772	1	30.05	94.98	0.26
Coyle	Swayze	388	SCS50yr	14.07	176.59	178.3	177.91	178.33	0.000716	1	38.2	100.18	0.26
Coyle	Swayze	388	SCS100yr	16.61	176.59	178.37	178.01	178.39	0.0007	1.02	44.73	102.71	0.25
Coyle	Swayze	388	SCS200yr	21.82	176.59	178.48	178.17	178.5	0.000658	1.03	60.58	155.41	0.25
Coyle	Swayze	388	RSnow100yr	10.64	176.59	178.19	177.65	178.22	0.000773	0.99	27.12	91.09	0.26
Coyle	Swayze	313	SCS2yr	5.51	176.43	177.82	177.18	177.87	0.001052	1.02	8.09	20.23	0.3
Coyle	Swayze	313	SCS5yr	7.37	176.43	177.93	177.31	177.99	0.001268	1.19	10.56	29.39	0.33
Coyle	Swayze	313	SCS10yr	9.1	176.43	178	177.41	178.07	0.001449	1.32	13.11	42.1	0.35
Coyle	Swayze	313	SCS25yr	11.52	176.43	178.08	177.55	178.16	0.001676	1.47	16.98	55.31	0.38
Coyle	Swayze	313	SCS50yr	14.07	176.43	178.16	177.7	178.24	0.001733	1.55	22.75	86.49	0.39
Coyle	Swayze	313	SCS100yr	16.61	176.43	178.24	177.97	178.31	0.001549	1.51	30.81	105.24	0.38
Coyle	Swayze	313	SCS200yr	21.82	176.43	178.38	178.2	178.43	0.001233	1.43	47.7	126.63	0.34
Coyle	Swayze	313	RSnow100yr	10.64	176.43	178.05	177.5	178.13	0.001639	1.43	15.41	51.83	0.38
Coyle	Swayze	246	SCS2yr	5.51	176.34	177.76	177.1	177.8	0.000982	1	9.39	34.86	0.29
Coyle	Swayze	246	SCS5yr	7.37	176.34	177.85	177.23	177.91	0.001197	1.16	13.94	57.07	0.32
Coyle	Swayze	246	SCS10yr	9.1	176.34	177.92	177.33	177.98	0.001314	1.26	18.03	61.95	0.34
Coyle	Swayze	246	SCS25yr	11.52	176.34	177.98	177.47	178.05	0.001527	1.4	22.19	67.74	0.37
Coyle	Swayze	246	SCS50yr	14.07	176.34	178.05	177.54	178.13	0.001627	1.49	27.43	74.89	0.38
Coyle	Swayze	246	SCS100yr	16.61	176.34	178.14	177.94	178.21	0.001512	1.49	34.56	84.83	0.37
Coyle	Swayze	246	SCS200yr	21.82	176.34	178.33	178	178.36	0.000909	1.24	69.06	179.45	0.29
Coyle	Swayze	246	RSnow100yr	10.64	176.34	177.95	177.42	178.02	0.001482	1.36	20.41	65.25	0.36
Coyle	Swayze	162	SCS2yr	5.51	176.36	177.68	177.11	177.72	0.001029	0.96	12.99	55.04	0.28
Coyle	Swayze	162	SCS5yr	7.37	176.36	177.76	177.28	177.8	0.001232	1.1	16.89	77.52	0.31
Coyle	Swayze	162	SCS10yr	9.1	176.36	177.81	177.45	177.86	0.001419	1.22	20.17	102.67	0.34
Coyle	Swayze	162	SCS25yr	11.52	176.36	177.89	177.63	177.93	0.001279	1.2	32.73	134.05	0.32
Coyle	Swayze	162	SCS50yr	14.07	176.36	177.98	177.65	178.01	0.001008	1.11	45.96	140.53	0.29
Coyle	Swayze	162	SCS100yr	16.61	176.36	178.1	177.82	178.11	0.000707	0.98	61.96	144.8	0.25
Coyle	Swayze	162	SCS200yr	21.82	176.36	178.29	177.91	178.3	0.000451	0.84	91.92	157.76	0.2
Coyle	Swayze	162	RSnow100yr	10.64	176.36	177.86	177.57	177.9	0.001344	1.21	28.58	126.23	0.33
Coyle	Swayze	108	SCS2yr	5.51	176.31	177.68	176.9	177.69	0.000184	0.43	37.75	115.71	0.13
Coyle	Swayze	108	SCS5yr	7.37	176.31	177.76	176.99	177.77	0.000202	0.47	47.2	118.2	0.13
Coyle	Swayze	108	SCS10yr	9.1	176.31	177.82	177.07	177.83	0.000225	0.52	53.99	123.28	0.14
Coyle	Swayze	108	SCS25yr	11.52	176.31	177.89	177.2	177.89	0.000256	0.57	62.41	127.79	0.15

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Swayze	108	SCS50yr	14.07	176.31	177.98	177.33	177.98	0.000248	0.58	74.12	133.87	0.15
Coyle	Swayze	108	SCS100yr	16.61	176.31	178.09	177.46	178.09	0.000216	0.57	89.51	146.24	0.14
Coyle	Swayze	108	SCS200yr	21.82	176.31	178.28	177.61	178.29	0.000178	0.56	118.98	153.26	0.13
Coyle	Swayze	108	RSnow100yr	10.64	176.31	177.86	177.15	177.86	0.000255	0.56	58.65	126.93	0.15
Coyle	Swayze	25	SCS2yr	5.51	176.28	177.64	176.97	177.66	0.000644	0.8	17.89	79.53	0.23
Coyle	Swayze	25	SCS5yr	7.37	176.28	177.71	177.1	177.74	0.000755	0.9	24.98	106.94	0.25
Coyle	Swayze	25	SCS10yr	9.1	176.28	177.76	177.2	177.79	0.000827	0.97	30.73	112.68	0.26
Coyle	Swayze	25	SCS25yr	11.52	176.28	177.83	177.54	177.86	0.000897	1.04	38.08	120.58	0.28
Coyle	Swayze	25	SCS50yr	14.07	176.28	177.93	177.6	177.95	0.000747	0.99	50.7	132.28	0.26
Coyle	Swayze	25	SCS100yr	16.61	176.28	178.05	177.69	178.07	0.000544	0.89	67.74	142.12	0.22
Coyle	Swayze	25	SCS200yr	21.82	176.28	178.27	177.79	178.27	0.000259	0.67	125.48	211.74	0.16
Coyle	Swayze	25	RSnow100yr	10.64	176.28	177.79	177.46	177.83	0.000936	1.04	34.26	117.12	0.28
Coyle	Nunn	2530	SCS2yr	1.93	179.06	179.8		179.8	0.000343	0.28	13.06	97.03	0.15
Coyle	Nunn	2530	SCS5yr	2.67	179.06	179.85		179.85	0.00032	0.26	18.59	124.08	0.15
Coyle	Nunn	2530	SCS10yr	3.32	179.06	179.88		179.89	0.000302	0.25	23.51	147.65	0.14
Coyle	Nunn	2530	SCS25yr	4.16	179.06	179.92		179.92	0.000277	0.25	29.31	166.36	0.14
Coyle	Nunn	2530	SCS50yr	4.88	179.06	179.95		179.95	0.000273	0.26	33.61	183.34	0.14
Coyle	Nunn	2530	SCS100yr	5.54	179.06	179.97		179.97	0.000275	0.27	37.32	199.04	0.14
Coyle	Nunn	2530	SCS200yr	7	179.06	180		180	0.000282	0.29	44.86	222.38	0.14
Coyle	Nunn	2530	RSnow100yr	3.77	179.06	179.9		179.91	0.000292	0.25	26.53	155.22	0.14
Coyle	Nunn	2529.9	SCS2yr	1.93	178.81	179.76		179.76	0.000749	0.42	7.34	59.72	0.23
Coyle	Nunn	2529.9	SCS5yr	2.67	178.81	179.81		179.82	0.000634	0.43	10.91	75.3	0.21
Coyle	Nunn	2529.9	SCS10yr	3.32	178.81	179.85		179.85	0.000569	0.43	14.36	100.33	0.2
Coyle	Nunn	2529.9	SCS25yr	4.16	178.81	179.89		179.89	0.000545	0.44	18.94	136.11	0.2
Coyle	Nunn	2529.9	SCS50yr	4.88	178.81	179.91		179.92	0.000523	0.45	22.67	152.97	0.2
Coyle	Nunn	2529.9	SCS100yr	5.54	178.81	179.93		179.94	0.000517	0.46	25.8	168.89	0.2
Coyle	Nunn	2529.9	SCS200yr	7	178.81	179.97		179.97	0.000515	0.48	32.57	214.26	0.2
Coyle	Nunn	2529.9	RSnow100yr	3.77	178.81	179.87		179.88	0.000549	0.43	16.62	116.19	0.2
Coyle	Nunn	2529.8	SCS2yr	1.93	178.83	179.67		179.68	0.00122	0.53	4.21	24.95	0.29
Coyle	Nunn	2529.8	SCS5yr	2.67	178.83	179.73		179.74	0.001226	0.59	5.89	34.77	0.3
Coyle	Nunn	2529.8	SCS10yr	3.32	178.83	179.77		179.78	0.001218	0.63	7.52	44.17	0.3
Coyle	Nunn	2529.8	SCS25yr	4.16	178.83	179.8		179.82	0.001282	0.68	9.52	64.46	0.31
Coyle	Nunn	2529.8	SCS50yr	4.88	178.83	179.83		179.85	0.001322	0.72	11.55	102.88	0.32
Coyle	Nunn	2529.8	SCS100yr	5.54	178.83	179.85		179.87	0.001355	0.74	13.72	129.16	0.33
Coyle	Nunn	2529.8	SCS200yr	7	178.83	179.89		179.91	0.001343	0.77	19.44	176.05	0.33
Coyle	Nunn	2529.8	RSnow100yr	3.77	178.83	179.79		179.81	0.001258	0.66	8.54	55.14	0.31
Coyle	Nunn	2529.6	SCS2yr	1.93	178.8	179.52		179.53	0.00083	0.47	6.54	45.91	0.24
Coyle	Nunn	2529.6	SCS5yr	2.67	178.8	179.57		179.58	0.000981	0.5	9	62.6	0.26
Coyle	Nunn	2529.6	SCS10yr	3.32	178.8	179.6		179.61	0.001098	0.51	11.38	80.36	0.27
Coyle	Nunn	2529.6	SCS25yr	4.16	178.8	179.63		179.64	0.001161	0.54	13.79	93.43	0.28
Coyle	Nunn	2529.6	SCS50yr	4.88	178.8	179.65		179.66	0.001185	0.56	15.99	104.71	0.29
Coyle	Nunn	2529.6	SCS100yr	5.54	178.8	179.67		179.68	0.001201	0.58	17.94	120.34	0.29
Coyle	Nunn	2529.6	SCS200yr	7	178.8	179.7		179.71	0.001235	0.63	22.87	165.19	0.3
Coyle	Nunn	2529.6	RSnow100yr	3.77	178.8	179.62		179.62	0.00114	0.52	12.69	86.54	0.28
Coyle	Nunn	2529.5	SCS2yr	1.93	178.71	179.39	179.27	179.4	0.001508	0.52	7.29	71.06	0.31
Coyle	Nunn	2529.5	SCS5yr	2.67	178.71	179.43	179.35	179.44	0.001358	0.48	10.37	82.1	0.29
Coyle	Nunn	2529.5	SCS10yr	3.32	178.71	179.46	179.37	179.46	0.001282	0.47	12.82	94.57	0.28
Coyle	Nunn	2529.5	SCS25yr	4.16	178.71	179.49		179.49	0.001214	0.49	15.65	103.97	0.28
Coyle	Nunn	2529.5	SCS50yr	4.88	178.71	179.51		179.51	0.00121	0.51	17.91	111.66	0.28
Coyle	Nunn	2529.5	SCS100yr	5.54	178.71	179.52		179.53	0.001199	0.52	19.86	117.69	0.28
Coyle	Nunn	2529.5	SCS200yr	7	178.71	179.55		179.56	0.001242	0.55	23.6	128.3	0.29
Coyle	Nunn	2529.5	RSnow100yr	3.77	178.71	179.47		179.48	0.001249	0.48	14.33	99.61	0.28
Coyle	Nunn	2529.4	SCS2yr	1.93	178.7	179.23		179.24	0.001284	0.47	6.48	45.6	0.28
Coyle	Nunn	2529.4	SCS5yr	2.67	178.7	179.28		179.28	0.001261	0.48	9.22	65.89	0.28
Coyle	Nunn	2529.4	SCS10yr	3.32	178.7	179.31		179.31	0.001338	0.51	11.17	81.45	0.29
Coyle	Nunn	2529.4	SCS25yr	4.16	178.7	179.34		179.34	0.00135	0.51	14.07	112.34	0.29
Coyle	Nunn	2529.4	SCS50yr	4.88	178.7	179.36		179.37	0.001338	0.51	16.92	137.62	0.29
Coyle	Nunn	2529.4	SCS100yr	5.54	178.7	179.38		179.38	0.001341	0.52	19.52	155.76	0.29
Coyle	Nunn	2529.4	SCS200yr	7	178.7	179.41		179.42	0.001267	0.52	25.46	185.47	0.29
Coyle	Nunn	2529.4	RSnow100yr	3.77	178.7	179.32		179.33	0.001338	0.52	12.68	93.59	0.29
Coyle	Nunn	2529.3	SCS2yr	1.93	178.67	179.15		179.15	0.00036	0.27	13.81	107.85	0.15
Coyle	Nunn	2529.3	SCS5yr	2.67	178.67	179.21		179.21	0.000281	0.26	23.06	194.86	0.14
Coyle	Nunn	2529.3	SCS10yr	3.32	178.67	179.25		179.25	0.000241	0.24	29.92	222.17	0.13
Coyle	Nunn	2529.3	SCS25yr	4.16	178.67	179.28		179.28	0.000212	0.24	38.71	258.74	0.12
Coyle	Nunn	2529.3	SCS50yr	4.88	178.67	179.31		179.31	0.000195	0.23	45.69	285.91	0.12
Coyle	Nunn	2529.3	SCS100yr	5.54	178.67	179.33		179.33	0.000185	0.23	51.53	306.41	0.11
Coyle	Nunn	2529.3	SCS200yr	7	178.67	179.36		179.37	0.000176	0.23	64.24	362.97	0.11
Coyle	Nunn	2529.3	RSnow100yr	3.77	178.67	179.27		179.27	0.000218	0.24	35	243.13	0.12
Coyle	Nunn	2529.2	SCS2yr	1.93	178.42	179.13		179.13	0.000237	0.27	10.77	53.38	0.13
Coyle	Nunn	2529.2	SCS5yr	2.67	178.42	179.19		179.19	0.000248	0.29	15.46	97.28	0.14
Coyle	Nunn	2529.2	SCS10yr	3.32	178.42	179.22		179.23	0.000261	0.31	18.97	113.31	0.14
Coyle	Nunn	2529.2	SCS25yr	4.16	178.42	179.26		179.26	0.000266	0.33	23.66	134.59	0.15
Coyle	Nunn	2529.2	SCS50yr	4.88	178.42	179.29		179.29	0.000273	0.35	27.38	151.22	0.15
Coyle	Nunn	2529.2	SCS100yr	5.54	178.42	179.31		179.31	0.000294	0.37	30.34	162.72	0.16
Coyle	Nunn	2529.2	SCS200yr	7	178.42	179.34		179.35	0.000321	0.4	36.89	191.97	0.16
Coyle	Nunn	2529.2	RSnow100yr	3.77	178.42	179.25		179.25	0.000258	0.32	21.74	128.36	0.14
Coyle	Nunn	2529	SCS2yr	1.93	178.42	179.07	178.77	179.07	0.000569	0.38	7.46	48.8	0.19
Coyle	Nunn	2529	SCS5yr	2.67	178.42	179.13	178.82	179.14	0.000518	0.4	11.48	79.99	0.18
Coyle	Nunn	2529	SCS10yr	3.32	178.42	179.16	178.86	179.17	0.000557	0.43	14.33	114.66	0.19
Coyle	Nunn	2529	SCS25yr	4.16	178.42	179.2	178.91	179.2	0.000559	0.45	19.55	175.08	0.19
Coyle	Nunn	2529	SCS50yr	4.88	178.42	179.22	178.96	179.23	0.000532	0.45	24.68	206.01	0.19
Coyle	Nunn	2529	SCS100yr	5.54	178.42	179.24	178.99	179.25	0.000553	0.47	27.96	219.36	0.2
Coyle	Nunn	2529	SCS200yr	7	178.42	179.28	179.04	179.28	0.00053	0.48	36.46	249.84	0.19
Coyle	Nunn	2529	RSnow100yr	3.77	178.42	179.18	178.89	179.19	0.000537	0.43	17.48	154.98	0.19
Coyle	Nunn	2467	SCS2yr	1.93	178.32	179.03		179.04	0.000506	0.41	7.55	35.99	0.18
Coyle	Nunn	2467	SCS5yr	2.67	178.32	179.1		179.1	0.000521	0.45	10.66	65.09	0.19
Coyle	Nunn	2467	SCS10yr	3.32	178.32	179.12		179.13	0.000636	0.51	12.51	91.34	0.21
Coyle	Nunn	2467	SCS25yr	4.16	178.32	179.15		179.16	0.000713	0.56	16.17	136.14	0.22
Coyle	Nunn	2467	SCS50yr	4.88	178.32	179.18		179.19	0.000755	0.59	20.4	188.87	0.23
Coyle	Nunn	2467	SCS100yr	5.54	178.32	179.19		179.2	0.000828	0.62	22.79	203.66	0.24
Coyle	Nunn	2467	SCS200yr	7	178.32	179.23		179.24	0.00076	0.62	31.8	246.7	0.24
Coyle	Nunn	2467	RSnow100yr	3.77	178.32	179.14		179.15	0.000659	0.53	14.93	120.62	0.21
Coyle	Nunn	2401	SCS2yr	1.93	178.34	179.03		179.03	0.000056	0.15	21.24	115.13	0.06
Coyle	Nunn	2401	SCS5yr	2.67	178.34	179.09		179.09	0.000059	0.16	31.78	205.88	0.06
Coyle	Nunn	2401	SCS10yr	3.32	178.34	179.12		179.12	0.000073	0.18	36.82	231.2	0.07
Coyle	Nunn	2401	SCS25yr	4.16	178.34	179.15		179.15	0.000083	0.2	44.68	265.2	0.08
Coyle	Nunn	2401	SCS50yr	4.88	178.34	179.17		179.17	0.000088	0.21	51.7	287.02	0.08
Coyle	Nunn	2401	SCS100yr	5.54	178.34	179.18		179.19	0.000102	0.23	54.84	299.57	0.09
Coyle	Nunn	2401	SCS200yr	7	178.34	179.22		179.22	0.00011	0.25	66.96	328.52	0.09
Coyle	Nunn	2401	RSnow100yr	3.77	178.34	179.14		179.14	0.000075	0.19	42.35	254.65	0.07
Coyle	Nunn	2316	SCS2yr	1.93	178.3	179.02	178.58	179.02	0.000118	0.2	13.85	74.31	0.09
Coyle	Nunn	2316	SCS5yr	2.67	178.3	179.08	178.64	179.09	0.000129	0.23	20.53	147.04	0.09
Coyle	Nunn	2316	SCS10yr	3.32	178.3	179.11	178.67	179.11	0.000165	0.26	23.77	167.02	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Nunn	2316	SCS25yr	4.16	178.3	179.14	178.69	179.14	0.000191	0.29	29.22	201.8	0.12
Coyle	Nunn	2316	SCS50yr	4.88	178.3	179.16	178.72	179.16	0.000204	0.31	34.54	229.35	0.12
Coyle	Nunn	2316	SCS100yr	5.54	178.3	179.17	178.74	179.17	0.000242	0.34	36.5	237.56	0.13
Coyle	Nunn	2316	SCS200yr	7	178.3	179.21	178.79	179.21	0.000267	0.37	46.35	292.81	0.14
Coyle	Nunn	2316	RSnow100yr	3.77	178.3	179.13	178.68	179.13	0.00017	0.27	27.73	186.8	0.11
Coyle	Nunn	2240	SCS2yr	1.93	178.36	179.01		179.01	0.000167	0.17	22.23	128.09	0.1
Coyle	Nunn	2240	SCS5yr	2.67	178.36	179.07		179.08	0.000149	0.18	34.01	241.57	0.09
Coyle	Nunn	2240	SCS10yr	3.32	178.36	179.09		179.09	0.000177	0.21	38.75	270.63	0.1
Coyle	Nunn	2240	SCS25yr	4.16	178.36	179.12		179.12	0.000186	0.22	47.35	323.2	0.11
Coyle	Nunn	2240	SCS50yr	4.88	178.36	179.15		179.15	0.00019	0.23	55.7	369.69	0.11
Coyle	Nunn	2240	SCS100yr	5.54	178.36	179.15		179.15	0.000227	0.26	57.82	377.49	0.12
Coyle	Nunn	2240	SCS200yr	7	178.36	179.19		179.19	0.000222	0.27	72.49	427.43	0.12
Coyle	Nunn	2240	RSnow100yr	3.77	178.36	179.12		179.12	0.000166	0.21	45.32	308.99	0.1
Coyle	Nunn	2182	SCS2yr	1.93	178.26	178.97	178.77	178.99	0.00144	0.67	7.79	98.28	0.3
Coyle	Nunn	2182	SCS5yr	2.67	178.26	179.06	178.95	179.06	0.00057	0.47	19.46	190.31	0.19
Coyle	Nunn	2182	SCS10yr	3.32	178.26	179.07	178.97	179.08	0.000663	0.51	22.51	204	0.21
Coyle	Nunn	2182	SCS25yr	4.16	178.26	179.1	178.99	179.11	0.000559	0.48	29.31	236.63	0.19
Coyle	Nunn	2182	SCS50yr	4.88	178.26	179.13	179.01	179.13	0.000486	0.46	35.73	263.73	0.18
Coyle	Nunn	2182	SCS100yr	5.54	178.26	179.13	179.02	179.13	0.000613	0.52	36.09	265.06	0.2
Coyle	Nunn	2182	SCS200yr	7	178.26	179.17	179.04	179.17	0.000498	0.49	46.86	277.73	0.19
Coyle	Nunn	2182	RSnow100yr	3.77	178.26	179.1	178.99	179.1	0.0005	0.46	28.29	231.17	0.18
Coyle	Nunn	2150	SCS2yr	1.93	178.21	178.96		178.97	0.000314	0.32	16.56	155.68	0.14
Coyle	Nunn	2150	SCS5yr	2.67	178.21	179.05		179.05	0.000148	0.24	33.56	230.2	0.1
Coyle	Nunn	2150	SCS10yr	3.32	178.21	179.06		179.06	0.000184	0.27	36.82	242.7	0.11
Coyle	Nunn	2150	SCS25yr	4.16	178.21	179.09		179.1	0.000188	0.29	44.82	275.73	0.11
Coyle	Nunn	2150	SCS50yr	4.88	178.21	179.12		179.12	0.000175	0.28	52.17	288.87	0.11
Coyle	Nunn	2150	SCS100yr	5.54	178.21	179.12		179.12	0.000229	0.32	51.91	288.37	0.12
Coyle	Nunn	2150	SCS200yr	7	178.21	179.16		179.16	0.000211	0.32	63.96	308.87	0.12
Coyle	Nunn	2150	RSnow100yr	3.77	178.21	179.09		179.09	0.000162	0.26	43.92	273.08	0.1
Coyle	Nunn	2083	SCS2yr	1.93	178.13	178.96	178.61	178.96	0.00004	0.12	42.32	245.79	0.05
Coyle	Nunn	2083	SCS5yr	2.67	178.13	179.05	178.65	179.05	0.000025	0.11	67.31	302.71	0.04
Coyle	Nunn	2083	SCS10yr	3.32	178.13	179.06	178.67	179.06	0.000033	0.13	71.22	304.65	0.05
Coyle	Nunn	2083	SCS25yr	4.16	178.13	179.09	178.7	179.09	0.000037	0.14	80.58	311.74	0.05
Coyle	Nunn	2083	SCS50yr	4.88	178.13	179.12	178.72	179.12	0.000039	0.14	88.71	316.24	0.05
Coyle	Nunn	2083	SCS100yr	5.54	178.13	179.11	178.74	179.11	0.000051	0.16	87.99	315.87	0.06
Coyle	Nunn	2083	SCS200yr	7	178.13	179.15	178.76	179.15	0.000054	0.17	106.08	370.14	0.06
Coyle	Nunn	2083	RSnow100yr	3.77	178.13	179.09	178.69	179.09	0.000031	0.12	79.76	310.7	0.05
Coyle	Nunn	2014	SCS2yr	1.93	177.94	178.96	178.43	178.96	0.000007	0.06	79.18	302.66	0.02
Coyle	Nunn	2014	SCS5yr	2.67	177.94	179.05	178.46	179.05	0.000007	0.07	108.06	342.85	0.02
Coyle	Nunn	2014	SCS10yr	3.32	177.94	179.06	178.48	179.06	0.000009	0.08	112.4	345.75	0.03
Coyle	Nunn	2014	SCS25yr	4.16	177.94	179.09	178.5	179.09	0.000011	0.09	123.01	357.61	0.03
Coyle	Nunn	2014	SCS50yr	4.88	177.94	179.11	178.52	179.11	0.000012	0.09	132.33	364.88	0.03
Coyle	Nunn	2014	SCS100yr	5.54	177.94	179.11	178.53	179.11	0.000016	0.11	131.35	364.38	0.03
Coyle	Nunn	2014	SCS200yr	7	177.94	179.15	178.55	179.15	0.000019	0.12	146.1	378.56	0.04
Coyle	Nunn	2014	RSnow100yr	3.77	177.94	179.09	178.49	179.09	0.000009	0.08	122.14	356.58	0.03
Coyle	Nunn	1998	SCS2yr	1.93	178	178.92	178.56	178.95	0.0016	0.8	3.18	246.96	0.3
Coyle	Nunn	1998	SCS5yr	2.67	178	179.05	178.65	179.05	0.000009	0.07	30.19	347.26	0.02
Coyle	Nunn	1998	SCS10yr	3.32	178	179.06	178.71	179.06	0.000013	0.08	31.47	354.14	0.03
Coyle	Nunn	1998	SCS25yr	4.16	178	179.09	178.79	179.09	0.000012	0.08	42.06	367.14	0.03
Coyle	Nunn	1998	SCS50yr	4.88	178	179.11	178.89	179.11	0.000003	0.04	116.17	378.69	0.01
Coyle	Nunn	1998	SCS100yr	5.54	178	179.11	178.96	179.11	0.000003	0.04	115.13	378.16	0.01
Coyle	Nunn	1998	SCS200yr	7	178	179.15	178.96	179.15	0.000004	0.05	130.36	385.35	0.02
Coyle	Nunn	1998	RSnow100yr	3.77	178	179.09	178.76	179.09	0.00001	0.07	41.72	366.08	0.03
Coyle	Nunn	1980		Culvert									
Coyle	Nunn	1970	SCS2yr	1.93	178.05	178.65	178.47	178.69	0.003535	0.94	2.04	133.69	0.45
Coyle	Nunn	1970	SCS5yr	2.67	178.05	178.69	178.58	178.76	0.00435	1.12	2.32	149.49	0.51
Coyle	Nunn	1970	SCS10yr	3.32	178.05	178.72	178.62	178.82	0.005244	1.27	2.5	163.92	0.57
Coyle	Nunn	1970	SCS25yr	4.16	178.05	178.75	178.66	178.88	0.006796	1.49	2.64	174.77	0.65
Coyle	Nunn	1970	SCS50yr	4.88	178.05	178.73	178.7	178.93	0.010285	1.81	2.57	171.52	0.8
Coyle	Nunn	1970	SCS100yr	5.54	178.05	178.73	178.73	178.99	0.013527	2.07	2.55	170.36	0.92
Coyle	Nunn	1970	SCS200yr	7	178.05	179.14	178.81	179.14	0.000001	0.03	133.7	283.75	0.01
Coyle	Nunn	1970	RSnow100yr	3.77	178.05	178.73	178.64	178.85	0.006126	1.4	2.57	171.71	0.62
Coyle	Nunn	1937	SCS2yr	1.93	177.86	178.66		178.66	0.00014	0.24	20.67	138.19	0.1
Coyle	Nunn	1937	SCS5yr	2.67	177.86	178.72		178.72	0.0001	0.22	33.48	270.99	0.08
Coyle	Nunn	1937	SCS10yr	3.32	177.86	178.76		178.76	0.000072	0.19	47.5	367.45	0.07
Coyle	Nunn	1937	SCS25yr	4.16	177.86	178.81		178.81	0.000049	0.16	66.21	437.99	0.06
Coyle	Nunn	1937	SCS50yr	4.88	177.86	178.83		178.83	0.00005	0.17	74.2	465.75	0.06
Coyle	Nunn	1937	SCS100yr	5.54	177.86	178.85		178.85	0.000042	0.16	86.63	509.65	0.06
Coyle	Nunn	1937	SCS200yr	7	177.86	179.14		179.14	0.000003	0.05	273.23	700.78	0.02
Coyle	Nunn	1937	RSnow100yr	3.77	177.86	178.79		178.79	0.000059	0.18	57.06	411.48	0.07
Coyle	Nunn	1889		Lat Struct									
Coyle	Nunn	1873	SCS2yr	1.93	177.9	178.64		178.64	0.000416	0.35	9.56	83.4	0.16
Coyle	Nunn	1873	SCS5yr	2.67	177.9	178.7		178.71	0.000394	0.38	16.92	141.52	0.16
Coyle	Nunn	1873	SCS10yr	3.32	177.9	178.75		178.75	0.000354	0.38	24.26	171.11	0.16
Coyle	Nunn	1873	SCS25yr	4.16	177.9	178.8		178.8	0.000336	0.39	33.46	210	0.15
Coyle	Nunn	1873	SCS50yr	4.88	177.9	178.81		178.82	0.000389	0.42	37.01	216.24	0.17
Coyle	Nunn	1873	SCS100yr	5.54	177.9	178.84		178.85	0.000371	0.42	42.99	231.73	0.16
Coyle	Nunn	1873	SCS200yr	7	177.9	179.14		179.14	0.000042	0.18	132.87	394.57	0.06
Coyle	Nunn	1873	RSnow100yr	3.77	177.9	178.77		178.78	0.000343	0.38	28.91	191.01	0.15
Coyle	Nunn	1827	SCS2yr	1.93	177.88	178.59		178.61	0.001379	0.67	4.98	56.32	0.3
Coyle	Nunn	1827	SCS5yr	2.67	177.88	178.66		178.68	0.001076	0.65	10.62	90.42	0.27
Coyle	Nunn	1827	SCS10yr	3.32	177.88	178.72		178.73	0.000858	0.61	16.01	109.16	0.24
Coyle	Nunn	1827	SCS25yr	4.16	177.88	178.77		178.78	0.000701	0.58	22.68	141.39	0.22
Coyle	Nunn	1827	SCS50yr	4.88	177.88	178.78		178.79	0.000832	0.64	24.42	147.02	0.24
Coyle	Nunn	1827	SCS100yr	5.54	177.88	178.81		178.82	0.000776	0.64	28.86	162.16	0.24
Coyle	Nunn	1827	SCS200yr	7	177.88	179.13		179.13	0.000052	0.21	114.29	325.54	0.07
Coyle	Nunn	1827	RSnow100yr	3.77	177.88	178.75		178.76	0.000787	0.6	19.3	124.97	0.23
Coyle	Nunn	1763	SCS2yr	1.93	177.76	178.47		178.5	0.001942	0.81	3.82	23.75	0.35
Coyle	Nunn	1763	SCS5yr	2.67	177.76	178.56		178.59	0.001733	0.85	6.56	42.94	0.34
Coyle	Nunn	1763	SCS10yr	3.32	177.76	178.63	178.37	178.65	0.001547	0.85	10.46	72.08	0.33
Coyle	Nunn	1763	SCS25yr	4.16	177.76	178.7	178.48	178.72	0.001137	0.79	17.14	111.6	0.29
Coyle	Nunn	1763	SCS50yr	4.88	177.76	178.68	178.53	178.71	0.001893	0.99	14.97	94.65	0.37
Coyle	Nunn	1763	SCS100yr	5.54	177.76	178.72		178.75	0.001662	0.96	19.4	125.35	0.35
Coyle	Nunn	1763	SCS200yr	7	177.76	179.13		179.13	0.000041	0.2	133.56	345.72	0.06
Coyle	Nunn	1763	RSnow100yr	3.77	177.76	178.67	178.45	178.69	0.001312	0.82	13.7	87.78	0.31
Coyle	Nunn	1702	SCS2yr	1.93	177.71	178.28		178.34	0.004074	1.02	1.91	4.74	0.49
Coyle	Nunn	1702	SCS5yr	2.67	177.71	178.32	178.18	178.4	0.006127	1.31	2.07	5.46	0.61
Coyle	Nunn	1702	SCS10yr	3.32	177.71	178.31	178.24	178.45	0.009688	1.64	2.05	5.16	0.77
Coyle	Nunn	1702	SCS25yr	4.16	177.71	178.3	178.3	178.53	0.016698	2.11	1.99	4.83	1
Coyle	Nunn	1702	SCS50yr	4.88	177.71	178.48	178.48	178.55	0.004044	1.3	10.38	112.97	0.52
Coyle	Nunn	1702	SCS100yr	5.54	177.71	178.71		178.71	0.000246	0.39	54.09	277.26	0.14
Coyle	Nunn	1702	SCS200yr	7	177.71	179.13		179.13	0.000012	0.11	194.93	353.08	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Nunn	1702	RSnow100yr	3.77	177.71	178.31	178.27	178.49	0.01264	1.87	2.04	5.06	0.88
Coyle	Nunn	1650	SCS2yr	1.93	177.59	178.15		178.16	0.002356	0.66	5.42	46.57	0.36
Coyle	Nunn	1650	SCS5yr	2.67	177.59	178.21		178.22	0.001861	0.65	8.83	81.9	0.33
Coyle	Nunn	1650	SCS10yr	3.32	177.59	178.25		178.26	0.001331	0.59	13.77	137.49	0.28
Coyle	Nunn	1650	SCS25yr	4.16	177.59	178.36		178.36	0.000337	0.34	42.07	384.09	0.15
Coyle	Nunn	1650	SCS50yr	4.88	177.59	178.5		178.5	0.000039	0.14	116.89	678.67	0.05
Coyle	Nunn	1650	SCS100yr	5.54	177.59	178.71		178.71	0.000004	0.05	290.42	936	0.02
Coyle	Nunn	1650	SCS200yr	7	177.59	179.13		179.13	0	0.02	703.51	1042.09	0.01
Coyle	Nunn	1650	RSnow100yr	3.77	177.59	178.28		178.28	0.001266	0.59	17.62	196.91	0.28
Coyle	Nunn	1593	SCS2yr	1.93	177.76	178.09	177.86	178.09	0.000754	0.28	8.72	71.2	0.19
Coyle	Nunn	1593	SCS5yr	2.67	177.76	178.16	177.89	178.16	0.000624	0.28	15.06	119.39	0.18
Coyle	Nunn	1593	SCS10yr	3.32	177.76	178.22	177.91	178.22	0.000371	0.22	25.09	183	0.14
Coyle	Nunn	1593	SCS25yr	4.16	177.76	178.35	177.93	178.35	0.000103	0.15	60.9	377.08	0.08
Coyle	Nunn	1593	SCS50yr	4.88	177.76	178.5	177.95	178.5	0.00002	0.08	132.29	562.57	0.04
Coyle	Nunn	1593	SCS100yr	5.54	177.76	178.71	177.98	178.71	0.000004	0.04	279.05	859.58	0.02
Coyle	Nunn	1593	SCS200yr	7	177.76	179.13	178	179.13	0	0.02	713.89	1064.78	0.01
Coyle	Nunn	1593	RSnow100yr	3.77	177.76	178.25	177.92	178.25	0.000328	0.21	30.36	217.91	0.13
Coyle	Nunn	1486	SCS2yr	1.93	177.65	178.01		178.01	0.000853	0.31	8.8	50.95	0.21
Coyle	Nunn	1486	SCS5yr	2.67	177.65	178.1		178.1	0.000507	0.25	14.53	77.69	0.16
Coyle	Nunn	1486	SCS10yr	3.32	177.65	178.19		178.19	0.000278	0.2	24.37	148.73	0.12
Coyle	Nunn	1486	SCS25yr	4.16	177.65	178.34		178.34	0.000081	0.15	60.42	337.11	0.07
Coyle	Nunn	1486	SCS50yr	4.88	177.65	178.5		178.5	0.000018	0.08	134.28	598.92	0.03
Coyle	Nunn	1486	SCS100yr	5.54	177.65	178.71		178.71	0.000003	0.04	295.86	924.05	0.02
Coyle	Nunn	1486	SCS200yr	7	177.65	179.13		179.13	0	0.02	714.19	1018.87	0.01
Coyle	Nunn	1486	RSnow100yr	3.77	177.65	178.22		178.22	0.000269	0.21	29.06	176.96	0.12
Coyle	Nunn	1390	SCS2yr	1.93	177.6	177.99		177.99	0.000062	0.09	22.56	83.32	0.06
Coyle	Nunn	1390	SCS5yr	2.67	177.6	178.09		178.09	0.000054	0.09	31.71	115.11	0.05
Coyle	Nunn	1390	SCS10yr	3.32	177.6	178.18		178.18	0.00004	0.09	47.29	228.67	0.05
Coyle	Nunn	1390	SCS25yr	4.16	177.6	178.34		178.34	0.000019	0.08	95.71	402.15	0.03
Coyle	Nunn	1390	SCS50yr	4.88	177.6	178.5		178.5	0.000008	0.06	182.12	656.15	0.02
Coyle	Nunn	1390	SCS100yr	5.54	177.6	178.71		178.71	0.000002	0.04	360.48	1048.39	0.01
Coyle	Nunn	1390	SCS200yr	7	177.6	179.13		179.13	0	0.02	814.54	1081.99	0
Coyle	Nunn	1390	RSnow100yr	3.77	177.6	178.21		178.21	0.000052	0.11	53.83	252.16	0.06
Coyle	Nunn	1320	SCS2yr	1.93	177.51	177.99		177.99	0.000019	0.06	39.68	142.24	0.03
Coyle	Nunn	1320	SCS5yr	2.67	177.51	178.09		178.09	0.000018	0.07	55.55	194.85	0.03
Coyle	Nunn	1320	SCS10yr	3.32	177.51	178.18		178.18	0.000013	0.07	76.34	240.44	0.03
Coyle	Nunn	1320	SCS25yr	4.16	177.51	178.34		178.34	0.000008	0.06	121.66	356.17	0.02
Coyle	Nunn	1320	SCS50yr	4.88	177.51	178.5		178.5	0.000004	0.05	198.47	623.17	0.02
Coyle	Nunn	1320	SCS100yr	5.54	177.51	178.71		178.71	0.000001	0.04	375.34	996.67	0.01
Coyle	Nunn	1320	SCS200yr	7	177.51	179.13		179.13	0	0.02	817.66	1058.55	0
Coyle	Nunn	1320	RSnow100yr	3.77	177.51	178.21		178.21	0.000016	0.08	82.97	258.07	0.03
Coyle	Nunn	1238		Lat Struct									
Coyle	Nunn	1235	SCS2yr	1.93	177.35	177.99		177.99	0.000042	0.1	35.41	174.29	0.05
Coyle	Nunn	1235	SCS5yr	2.67	177.35	178.08		178.08	0.000031	0.1	57.06	274.37	0.04
Coyle	Nunn	1235	SCS10yr	3.32	177.35	178.18		178.18	0.000016	0.08	87.62	372.74	0.03
Coyle	Nunn	1235	SCS25yr	4.16	177.35	178.34		178.34	0.000006	0.06	163.82	582.21	0.02
Coyle	Nunn	1235	SCS50yr	4.88	177.35	178.5		178.5	0.000002	0.04	279.77	863.22	0.01
Coyle	Nunn	1235	SCS100yr	5.54	177.35	178.71		178.71	0.000001	0.03	478.09	1001.12	0.01
Coyle	Nunn	1235	SCS200yr	7	177.35	179.13		179.13	0	0.02	918.08	1057.02	0
Coyle	Nunn	1235	RSnow100yr	3.77	177.35	178.21		178.21	0.000016	0.08	98.1	423.11	0.03
Coyle	Nunn	1143	SCS2yr	1.93	177.28	177.98	177.54	177.98	0.000048	0.13	27.29	112.99	0.06
Coyle	Nunn	1143	SCS5yr	2.67	177.28	178.08	177.57	178.08	0.000038	0.13	41.61	191.64	0.05
Coyle	Nunn	1143	SCS10yr	3.32	177.28	178.18	177.6	178.18	0.000029	0.12	65.95	305.11	0.05
Coyle	Nunn	1143	SCS25yr	4.16	177.28	178.34	177.62	178.34	0.00001	0.08	128.89	488.24	0.03
Coyle	Nunn	1143	SCS50yr	4.88	177.28	178.5	177.63	178.5	0.000004	0.06	220.95	619.09	0.02
Coyle	Nunn	1143	SCS100yr	5.54	177.28	178.71	177.64	178.71	0.000001	0.04	372.55	840.12	0.01
Coyle	Nunn	1143	SCS200yr	7	177.28	179.13	177.67	179.13	0	0.02	788.84	1033.78	0.01
Coyle	Nunn	1143	RSnow100yr	3.77	177.28	178.2	177.61	178.2	0.000029	0.13	74.39	331.57	0.05
Coyle	Nunn	1041	SCS2yr	1.93	177.27	177.98		177.98	0.000005	0.01	72.69	185.94	0.01
Coyle	Nunn	1041	SCS5yr	2.67	177.27	178.08		178.08	0.000005	0.01	93.05	233.3	0.01
Coyle	Nunn	1041	SCS10yr	3.32	177.27	178.18		178.18	0.000004	0.01	120.69	385.1	0.01
Coyle	Nunn	1041	SCS25yr	4.16	177.27	178.34		178.34	0.000003	0.02	197.29	566.49	0.01
Coyle	Nunn	1041	SCS50yr	4.88	177.27	178.5		178.5	0.000002	0.01	303.29	733.93	0
Coyle	Nunn	1041	SCS100yr	5.54	177.27	178.71		178.71	0.000001	0.01	480.66	982.75	0
Coyle	Nunn	1041	SCS200yr	7	177.27	179.13		179.13	0	0.01	925.19	1064.42	0
Coyle	Nunn	1041	RSnow100yr	3.77	177.27	178.2		178.2	0.000004	0.02	131.38	420.39	0.01
Coyle	Nunn	949	SCS2yr	1.93	177.2	177.98		177.98	0.000001	0.02	112.15	156.09	0.01
Coyle	Nunn	949	SCS5yr	2.67	177.2	178.08		178.08	0.000001	0.02	128.93	190.23	0.01
Coyle	Nunn	949	SCS10yr	3.32	177.2	178.18		178.18	0.000001	0.03	149.6	239.82	0.01
Coyle	Nunn	949	SCS25yr	4.16	177.2	178.33		178.33	0.000001	0.03	201.38	454.27	0.01
Coyle	Nunn	949	SCS50yr	4.88	177.2	178.5		178.5	0.000001	0.03	289.01	607.45	0.01
Coyle	Nunn	949	SCS100yr	5.54	177.2	178.71		178.71	0.000001	0.03	444.49	882.31	0.01
Coyle	Nunn	949	SCS200yr	7	177.2	179.13		179.13	0	0.02	859.88	1020.74	0
Coyle	Nunn	949	RSnow100yr	3.77	177.2	178.2		178.2	0.000002	0.03	156.18	256.87	0.01
Coyle	Nunn	881	SCS2yr	1.93	177.18	177.98		177.98	0.000011	0.07	47.41	163.97	0.03
Coyle	Nunn	881	SCS5yr	2.67	177.18	178.08		178.08	0.00001	0.07	65.52	201.64	0.03
Coyle	Nunn	881	SCS10yr	3.32	177.18	178.18		178.18	0.000009	0.07	88.76	273.21	0.03
Coyle	Nunn	881	SCS25yr	4.16	177.18	178.33		178.33	0.000006	0.07	147.29	460.8	0.02
Coyle	Nunn	881	SCS50yr	4.88	177.18	178.5		178.5	0.000003	0.05	241.83	700.56	0.02
Coyle	Nunn	881	SCS100yr	5.54	177.18	178.71		178.71	0.000001	0.04	419.92	960.35	0.01
Coyle	Nunn	881	SCS200yr	7	177.18	179.13		179.13	0	0.02	859.92	1053.7	0
Coyle	Nunn	881	RSnow100yr	3.77	177.18	178.2		178.2	0.00001	0.08	96.52	309.15	0.03
Coyle	Nunn	815	SCS2yr	1.93	177.04	177.98	177.29	177.98	0.000046	0.16	28.83	149.43	0.06
Coyle	Nunn	815	SCS5yr	2.67	177.04	178.08	177.33	178.08	0.000035	0.15	44.63	186.51	0.05
Coyle	Nunn	815	SCS10yr	3.32	177.04	178.17	177.38	178.17	0.000024	0.13	66.06	276.91	0.04
Coyle	Nunn	815	SCS25yr	4.16	177.04	178.33	177.42	178.33	0.000011	0.1	124.04	456.03	0.03
Coyle	Nunn	815	SCS50yr	4.88	177.04	178.5	177.45	178.5	0.000004	0.07	222.29	722.91	0.02
Coyle	Nunn	815	SCS100yr	5.54	177.04	178.71	177.47	178.71	0.000001	0.04	398.99	916.75	0.01
Coyle	Nunn	815	SCS200yr	7	177.04	179.13	177.52	179.13	0	0.02	818.51	1042.83	0
Coyle	Nunn	815	RSnow100yr	3.77	177.04	178.2	177.4	178.2	0.000025	0.14	73.77	307.92	0.04
Coyle	Nunn	792	SCS2yr	1.93	176.78	177.98		177.98	0.000058	0.18	15.85	86.54	0.06
Coyle	Nunn	792	SCS5yr	2.67	176.78	178.08		178.08	0.000027	0.13	31.38	228.13	0.04
Coyle	Nunn	792	SCS10yr	3.32	176.78	178.17		178.17	0.000008	0.08	57.14	284.14	0.02
Coyle	Nunn	792	SCS25yr	4.16	176.78	178.33		178.33	0.000002	0.04	112.15	433.11	0.01
Coyle	Nunn	792	SCS50yr	4.88	176.78	178.5		178.5	0.000001	0.02	202.99	645.14	0.01
Coyle	Nunn	792	SCS100yr	5.54	176.78	178.71		178.71	0	0.02	362.82	847.29	0
Coyle	Nunn	792	SCS200yr	7	176.78	179.13		179.13	0	0.01	780.34	1052.58	0
Coyle	Nunn	792	RSnow100yr	3.77	176.78	178.2		178.2	0.000006	0.07	64.79	298.62	0.02
Coyle	Nunn	773	SCS2yr	1.93	177.06	177.97		177.98	0.000421	0.3	8.16	42.51	0.13
Coyle	Nunn	773	SCS5yr	2.67	177.06	178.07		178.08	0.000337	0.29	14.41	92.63	0.12
Coyle	Nunn	773	SCS10yr	3.32	177.06	178.17		178.17	0.000182	0.23	28.56	187.78	0.09
Coyle	Nunn	773	SCS25yr	4.16	177.06	178.33		178.33	0.000042	0.13	67.23	302.82	0.04

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Nunn	773	SCS50yr	4.88	177.06	178.5		178.5	0.000011	0.07	142.51	602.18	0.02
Coyle	Nunn	773	SCS100yr	5.54	177.06	178.71		178.71	0.000002	0.04	293.09	787.28	0.01
Coyle	Nunn	773	SCS200yr	7	177.06	179.13		179.13	0	0.02	649.8	859.59	0
Coyle	Nunn	773	RSnow100yr	3.77	177.06	178.2		178.2	0.000167	0.23	33.75	202.19	0.09
Coyle	Nunn	747	SCS2yr	1.93	176.97	177.96		177.97	0.000197	0.35	11.54	83.07	0.12
Coyle	Nunn	747	SCS5yr	2.67	176.97	178.07		178.07	0.000148	0.33	23.39	155.68	0.11
Coyle	Nunn	747	SCS10yr	3.32	176.97	178.17		178.17	0.000078	0.25	45.75	282.03	0.08
Coyle	Nunn	747	SCS25yr	4.16	176.97	178.33		178.33	0.000019	0.14	100.43	378.07	0.04
Coyle	Nunn	747	SCS50yr	4.88	176.97	178.5		178.5	0.000007	0.09	177.12	562.99	0.02
Coyle	Nunn	747	SCS100yr	5.54	176.97	178.71		178.71	0.000002	0.05	305.89	691.44	0.01
Coyle	Nunn	747	SCS200yr	7	176.97	179.13		179.13	0	0.03	644.27	832.77	0.01
Coyle	Nunn	747	RSnow100yr	3.77	176.97	178.2		178.2	0.000072	0.25	53.62	304.05	0.08
Coyle	Nunn	679	SCS2yr	1.93	176.99	177.94		177.95	0.000477	0.51	7.7	75.49	0.18
Coyle	Nunn	679	SCS5yr	2.67	176.99	178.05		178.06	0.000245	0.4	22.25	192.94	0.13
Coyle	Nunn	679	SCS10yr	3.32	176.99	178.16		178.17	0.000078	0.24	48.72	271.83	0.08
Coyle	Nunn	679	SCS25yr	4.16	176.99	178.33		178.33	0.000019	0.13	101	361.16	0.04
Coyle	Nunn	679	SCS50yr	4.88	176.99	178.5		178.5	0.000007	0.09	176.78	546.11	0.02
Coyle	Nunn	679	SCS100yr	5.54	176.99	178.71		178.71	0.000002	0.05	305.85	680.2	0.01
Coyle	Nunn	679	SCS200yr	7	176.99	179.13		179.13	0	0.03	631.83	810.34	0.01
Coyle	Nunn	679	RSnow100yr	3.77	176.99	178.19		178.19	0.000071	0.24	56.33	285.4	0.07
Coyle	Nunn	599	SCS2yr	1.93	177.03	177.94		177.94	0.000047	0.09	32.11	138.95	0.04
Coyle	Nunn	599	SCS5yr	2.67	177.03	178.05		178.05	0.00003	0.08	49.26	173.56	0.03
Coyle	Nunn	599	SCS10yr	3.32	177.03	178.16		178.16	0.000019	0.07	72.27	233.82	0.03
Coyle	Nunn	599	SCS25yr	4.16	177.03	178.33		178.33	0.000009	0.06	121.91	360.14	0.02
Coyle	Nunn	599	SCS50yr	4.88	177.03	178.5		178.5	0.000004	0.04	197.04	502.69	0.01
Coyle	Nunn	599	SCS100yr	5.54	177.03	178.71		178.71	0.000001	0.03	308.55	578.97	0.01
Coyle	Nunn	599	SCS200yr	7	177.03	179.13		179.13	0	0.02	574.86	648.4	0
Coyle	Nunn	599	RSnow100yr	3.77	177.03	178.19		178.19	0.00002	0.07	78.87	255.51	0.03
Coyle	Nunn	511	SCS2yr	1.93	177.02	177.93		177.93	0.000513	0.27	10.2	58.16	0.13
Coyle	Nunn	511	SCS5yr	2.67	177.02	178.04		178.05	0.00025	0.22	17.72	74.53	0.09
Coyle	Nunn	511	SCS10yr	3.32	177.02	178.16		178.16	0.000125	0.17	28.86	124.51	0.07
Coyle	Nunn	511	SCS25yr	4.16	177.02	178.33		178.33	0.000042	0.12	56.77	215.97	0.04
Coyle	Nunn	511	SCS50yr	4.88	177.02	178.5		178.5	0.000015	0.08	109.15	421.67	0.02
Coyle	Nunn	511	SCS100yr	5.54	177.02	178.71		178.71	0.000004	0.05	215.4	561.52	0.01
Coyle	Nunn	511	SCS200yr	7	177.02	179.13		179.13	0.000001	0.02	466.17	601.44	0.01
Coyle	Nunn	511	RSnow100yr	3.77	177.02	178.19		178.19	0.000125	0.18	32.34	134.43	0.07
Coyle	Nunn	414	SCS2yr	2.4	177.1	177.87	177.46	177.88	0.00051	0.44	7.65	49.08	0.19
Coyle	Nunn	414	SCS5yr	3.22	177.1	178.01	177.54	178.02	0.000325	0.41	12.75	102.6	0.15
Coyle	Nunn	414	SCS10yr	4.04	177.1	178.14	177.59	178.14	0.000213	0.37	19.73	141.94	0.13
Coyle	Nunn	414	SCS25yr	5.25	177.1	178.33	177.66	178.33	0.00004	0.18	71.75	285.89	0.06
Coyle	Nunn	414	SCS50yr	6.31	177.1	178.49	177.74	178.49	0.000015	0.12	134.35	433.87	0.04
Coyle	Nunn	414	SCS100yr	7.24	177.1	178.71	177.76	178.71	0.000005	0.08	235.83	501.65	0.02
Coyle	Nunn	414	SCS200yr	8.99	177.1	179.13	177.84	179.13	0.000001	0.04	453.23	526.82	0.01
Coyle	Nunn	414	RSnow100yr	4.26	177.1	178.18	177.6	178.18	0.000093	0.25	40.15	159.02	0.08
Coyle	Nunn	353	SCS2yr	2.4	177.02	177.84	177.37	177.85	0.000572	0.52	5.44	70.41	0.2
Coyle	Nunn	353	SCS5yr	3.22	177.02	177.98	177.43	177.99	0.000457	0.53	8.04	102.72	0.19
Coyle	Nunn	353	SCS10yr	4.04	177.02	178.11	177.49	178.13	0.000367	0.52	10.65	143.15	0.17
Coyle	Nunn	353	SCS25yr	5.25	177.02	178.31	177.57	178.32	0.000268	0.51	14.52	217.18	0.15
Coyle	Nunn	353	SCS50yr	6.31	177.02	178.48	177.63	178.49	0.000209	0.49	17.96	390.76	0.14
Coyle	Nunn	353	SCS100yr	7.24	177.02	178.7	177.68	178.7	0.000144	0.45	22.27	625.33	0.12
Coyle	Nunn	353	SCS200yr	8.99	177.02	179.12	177.76	179.13	0.000082	0.4	30.79	666.96	0.09
Coyle	Nunn	353	RSnow100yr	4.26	177.02	178.15	177.51	178.16	0.000339	0.52	11.43	151.93	0.17
Coyle	Nunn	338		Culvert									
Coyle	Nunn	321	SCS2yr	2.4	176.72	177.71	177.05	177.72	0.000177	0.33	7.72	74.09	0.11
Coyle	Nunn	321	SCS5yr	3.22	176.72	177.8	177.11	177.8	0.000233	0.4	8.53	78.54	0.13
Coyle	Nunn	321	SCS10yr	4.04	176.72	177.85	177.16	177.86	0.000298	0.47	9.09	86.24	0.15
Coyle	Nunn	321	SCS25yr	5.25	176.72	177.92	177.22	177.93	0.000401	0.57	9.75	102.46	0.18
Coyle	Nunn	321	SCS50yr	6.31	176.72	177.99	177.27	178.02	0.000454	0.64	10.52	134	0.19
Coyle	Nunn	321	SCS100yr	7.24	176.72	178.09	177.3	178.11	0.000451	0.67	11.49	148.45	0.2
Coyle	Nunn	321	SCS200yr	8.99	176.72	178.28	177.37	178.31	0.000425	0.72	13.37	211.81	0.19
Coyle	Nunn	321	RSnow100yr	4.26	176.72	177.88	177.17	177.89	0.000304	0.48	9.33	92	0.16
Coyle	Nunn	287	SCS2yr	2.4	176.52	177.71	177.04	177.71	0.000155	0.35	21.75	87.62	0.11
Coyle	Nunn	287	SCS5yr	3.22	176.52	177.79	177.12	177.79	0.000158	0.37	29.5	101.31	0.11
Coyle	Nunn	287	SCS10yr	4.04	176.52	177.85	177.19	177.85	0.000163	0.39	35.4	108.08	0.12
Coyle	Nunn	287	SCS25yr	5.25	176.52	177.92	177.29	177.92	0.000177	0.42	43.38	128.6	0.12
Coyle	Nunn	287	SCS50yr	6.31	176.52	178	177.49	178	0.000156	0.41	54.83	158.47	0.11
Coyle	Nunn	287	SCS100yr	7.24	176.52	178.09	177.53	178.1	0.000114	0.37	70.52	184.14	0.1
Coyle	Nunn	287	SCS200yr	8.99	176.52	178.29	177.58	178.29	0.000065	0.3	104.08	259.49	0.08
Coyle	Nunn	287	RSnow100yr	4.26	176.52	177.87	177.21	177.88	0.000155	0.38	38.19	116.1	0.11
Coyle	Nunn	195	SCS2yr	2.4	176.42	177.68	176.94	177.69	0.000271	0.49	12.72	74.42	0.15
Coyle	Nunn	195	SCS5yr	3.22	176.42	177.77	177.02	177.77	0.000287	0.52	19.62	92.86	0.15
Coyle	Nunn	195	SCS10yr	4.04	176.42	177.82	177.1	177.83	0.000291	0.54	25.18	104.94	0.15
Coyle	Nunn	195	SCS25yr	5.25	176.42	177.89	177.2	177.9	0.000316	0.59	33.08	134.28	0.16
Coyle	Nunn	195	SCS50yr	6.31	176.42	177.97	177.29	177.98	0.000243	0.53	45.6	156.73	0.14
Coyle	Nunn	195	SCS100yr	7.24	176.42	178.08	177.37	178.08	0.000156	0.45	62.59	161.35	0.12
Coyle	Nunn	195	SCS200yr	8.99	176.42	178.28	177.65	178.28	0.000078	0.34	97.41	191.3	0.08
Coyle	Nunn	195	RSnow100yr	4.26	176.42	177.85	177.12	177.86	0.000269	0.53	28.15	117.45	0.15
Coyle	Nunn	103	SCS2yr	2.4	176.44	177.66	176.93	177.67	0.000246	0.45	10.98	47.01	0.14
Coyle	Nunn	103	SCS5yr	3.22	176.44	177.74	177	177.75	0.00029	0.51	15.89	83.89	0.15
Coyle	Nunn	103	SCS10yr	4.04	176.44	177.79	177.06	177.8	0.000331	0.57	21.03	107.19	0.17
Coyle	Nunn	103	SCS25yr	5.25	176.44	177.85	177.16	177.87	0.000358	0.61	28.15	115.3	0.17
Coyle	Nunn	103	SCS50yr	6.31	176.44	177.95	177.24	177.96	0.000277	0.56	39.26	122.6	0.16
Coyle	Nunn	103	SCS100yr	7.24	176.44	178.06	177.3	178.07	0.000184	0.48	54	131.07	0.13
Coyle	Nunn	103	SCS200yr	8.99	176.44	178.27	177.43	178.27	0.000096	0.38	81.85	140.13	0.09
Coyle	Nunn	103	RSnow100yr	4.26	176.44	177.82	177.08	177.83	0.000299	0.55	24.3	112.34	0.16
Coyle	Nunn	46	SCS2yr	2.4	176.42	177.65	176.98	177.66	0.000238	0.44	15.4	75.3	0.14
Coyle	Nunn	46	SCS5yr	3.22	176.42	177.72	177.06	177.73	0.000261	0.48	21.91	95.34	0.15
Coyle	Nunn	46	SCS10yr	4.04	176.42	177.78	177.15	177.78	0.000288	0.52	27.06	99.94	0.15
Coyle	Nunn	46	SCS25yr	5.25	176.42	177.84	177.27	177.85	0.000308	0.56	33.55	108.91	0.16
Coyle	Nunn	46	SCS50yr	6.31	176.42	177.94	177.36	177.94	0.00024	0.52	44.58	117.83	0.14
Coyle	Nunn	46	SCS100yr	7.24	176.42	178.06	177.39	178.06	0.000158	0.44	59.09	123.91	0.12
Coyle	Nunn	46	SCS200yr	8.99	176.42	178.27	177.5	178.27	0.000088	0.36	86.45	133.07	0.09
Coyle	Nunn	46	RSnow100yr	4.26	176.42	177.81	177.17	177.81	0.000252	0.49	30.28	103.55	0.14
Coyle	Coyle_5	9665	SCS2yr	7.51	176.42	177.62	177.24	177.63	0.000655	0.73	32.08	155.88	0.23
Coyle	Coyle_5	9665	SCS5yr	10.05	176.42	177.69	177.33	177.71	0.000691	0.79	45.53	194.9	0.24
Coyle	Coyle_5	9665	SCS10yr	12.33	176.42	177.74	177.41	177.76	0.000694	0.81	56.33	212.55	0.24
Coyle	Coyle_5	9665	SCS25yr	15.59	176.42	177.81	177.49	177.82	0.000685	0.84	70.08	220.91	0.24
Coyle	Coyle_5	9665	SCS50yr	19.13	176.42	177.91	177.59	177.92	0.000508	0.76	94.69	249.69	0.21
Coyle	Coyle_5	9665	SCS100yr	22.33	176.42	178.04	177.63	178.05	0.00033	0.65	128.26	270.96	0.17
Coyle	Coyle_5	9665	SCS200yr	28.49	176.42	178.26	177.7	178.26	0.000187	0.54	190.31	293.95	0.13
Coyle	Coyle_5	9665	RSnow100yr	13.88	176.42	177.78	177.45	177.79	0.000686	0.82	63.2	216.12	0.24
Coyle	Coyle_5	9577	SCS2yr	7.51	176.28	177.55	176.99	177.57	0.000676	0.79	28.58	170.73	0.24

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_5	9577	SCS5yr	10.05	176.28	177.63	177.13	177.65	0.00067	0.82	43.29	211.61	0.24
Coyle	Coyle_5	9577	SCS10yr	12.33	176.28	177.68	177.31	177.7	0.000653	0.83	55.25	228.83	0.24
Coyle	Coyle_5	9577	SCS25yr	15.59	176.28	177.75	177.49	177.76	0.000628	0.84	71.42	257.05	0.23
Coyle	Coyle_5	9577	SCS50yr	19.13	176.28	177.87	177.58	177.88	0.0004	0.72	105.49	283.49	0.19
Coyle	Coyle_5	9577	SCS100yr	22.33	176.28	178.02	177.62	178.02	0.00023	0.58	146.64	296.33	0.15
Coyle	Coyle_5	9577	SCS200yr	28.49	176.28	178.25	177.67	178.25	0.000126	0.47	215.5	339.26	0.11
Coyle	Coyle_5	9577	RSnow100yr	13.88	176.28	177.72	177.43	177.73	0.000637	0.84	63.23	245.66	0.23
Coyle	Coyle_5	9523	SCS2yr	7.51	175.88	177.53	176.64	177.55	0.000331	0.61	32.04	216.07	0.17
Coyle	Coyle_5	9523	SCS5yr	10.05	175.88	177.61	176.76	177.62	0.000308	0.61	57.09	258.15	0.16
Coyle	Coyle_5	9523	SCS10yr	12.33	175.88	177.66	176.85	177.68	0.000321	0.64	71.12	269.46	0.17
Coyle	Coyle_5	9523	SCS25yr	15.59	175.88	177.73	176.96	177.74	0.000323	0.66	88.98	279.36	0.17
Coyle	Coyle_5	9523	SCS50yr	19.13	175.88	177.86	177.08	177.87	0.000215	0.57	125.34	288.74	0.14
Coyle	Coyle_5	9523	SCS100yr	22.33	175.88	178.01	177.18	178.01	0.000134	0.48	170.83	299.99	0.11
Coyle	Coyle_5	9523	SCS200yr	28.49	175.88	178.24	177.59	178.24	0.000083	0.41	241.62	338.83	0.09
Coyle	Coyle_5	9523	RSnow100yr	13.88	175.88	177.7	176.91	177.71	0.000319	0.65	80.2	274.27	0.17
Coyle	Coyle_5	9503		Culvert									
Coyle	Coyle_5	9483	SCS2yr	7.51	175.69	177.37	176.46	177.39	0.000317	0.64	16.09	46.53	0.17
Coyle	Coyle_5	9483	SCS5yr	10.05	175.69	177.5	176.57	177.52	0.000397	0.76	18.48	74.51	0.19
Coyle	Coyle_5	9483	SCS10yr	12.33	175.69	177.59	176.66	177.61	0.000468	0.85	25.88	106.7	0.21
Coyle	Coyle_5	9483	SCS25yr	15.59	175.69	177.7	176.79	177.73	0.000496	0.92	31.71	161.82	0.22
Coyle	Coyle_5	9483	SCS50yr	19.13	175.69	177.84	176.9	177.87	0.000479	0.94	39.14	233.86	0.22
Coyle	Coyle_5	9483	SCS100yr	22.33	175.69	178.01	177.02	178.01	0.000193	0.63	119.36	306.89	0.14
Coyle	Coyle_5	9483	SCS200yr	28.49	175.69	178.24	177.13	178.24	0.000112	0.52	190.96	461.8	0.11
Coyle	Coyle_5	9483	RSnow100yr	13.88	175.69	177.65	176.72	177.68	0.000467	0.87	29.18	131.14	0.21
Coyle	Coyle_5	9450	SCS2yr	7.51	175.96	177.32	176.66	177.36	0.000882	0.94	13.02	57.04	0.27
Coyle	Coyle_5	9450	SCS5yr	10.05	175.96	177.46	176.78	177.5	0.000776	0.95	23.47	95.32	0.26
Coyle	Coyle_5	9450	SCS10yr	12.33	175.96	177.56	176.88	177.59	0.000686	0.94	34.31	123.71	0.25
Coyle	Coyle_5	9450	SCS25yr	15.59	175.96	177.69	177.01	177.71	0.000545	0.88	51.19	148.71	0.22
Coyle	Coyle_5	9450	SCS50yr	19.13	175.96	177.83	177.15	177.84	0.000388	0.79	76.98	211.92	0.19
Coyle	Coyle_5	9450	SCS100yr	22.33	175.96	178	177.46	178.01	0.000233	0.65	114.73	265.03	0.15
Coyle	Coyle_5	9450	SCS200yr	28.49	175.96	178.23	177.56	178.24	0.000141	0.55	173.02	438.88	0.12
Coyle	Coyle_5	9450	RSnow100yr	13.88	175.96	177.64	176.93	177.66	0.000576	0.89	43.87	138.5	0.23
Coyle	Coyle_5	9372	SCS2yr	7.51	175.76	177.27	176.51	177.3	0.000609	0.84	14.75	52.17	0.23
Coyle	Coyle_5	9372	SCS5yr	10.05	175.76	177.42	176.63	177.45	0.000566	0.87	24.43	78.67	0.23
Coyle	Coyle_5	9372	SCS10yr	12.33	175.76	177.52	176.73	177.55	0.000523	0.87	33.44	98.68	0.22
Coyle	Coyle_5	9372	SCS25yr	15.59	175.76	177.65	176.85	177.67	0.000448	0.85	48.72	132.68	0.21
Coyle	Coyle_5	9372	SCS50yr	19.13	175.76	177.8	177.02	177.82	0.000327	0.77	71.79	187.5	0.18
Coyle	Coyle_5	9372	SCS100yr	22.33	175.76	177.98	177.26	177.99	0.0002	0.64	106.09	274.73	0.14
Coyle	Coyle_5	9372	SCS200yr	28.49	175.76	178.22	177.46	178.23	0.0001	0.49	206.51	544.33	0.1
Coyle	Coyle_5	9372	RSnow100yr	13.88	175.76	177.6	176.77	177.62	0.000465	0.85	41.99	124.03	0.21
Coyle	Coyle_5	9286	SCS2yr	7.51	175.7	177.19	176.51	177.24	0.000967	1.05	10.47	25.72	0.29
Coyle	Coyle_5	9286	SCS5yr	10.05	175.7	177.33	176.64	177.38	0.001038	1.16	17	70.71	0.31
Coyle	Coyle_5	9286	SCS10yr	12.33	175.7	177.44	176.75	177.49	0.000876	1.12	28	121.78	0.28
Coyle	Coyle_5	9286	SCS25yr	15.59	175.7	177.61	176.88	177.63	0.00053	0.93	53.61	176.82	0.23
Coyle	Coyle_5	9286	SCS50yr	19.13	175.7	177.78	177.11	177.79	0.000286	0.73	86.01	224.2	0.17
Coyle	Coyle_5	9286	SCS100yr	22.33	175.7	177.97	177.17	177.97	0.000145	0.55	126.91	298.84	0.12
Coyle	Coyle_5	9286	SCS200yr	28.49	175.7	178.22	177.56	178.22	0.000069	0.41	238.39	522.16	0.09
Coyle	Coyle_5	9286	RSnow100yr	13.88	175.7	177.54	176.79	177.57	0.00067	1.02	42.04	170.63	0.25
Coyle	Coyle_5	9200	SCS2yr	7.51	175.62	177.13	176.33	177.17	0.000594	0.84	14.5	54.08	0.23
Coyle	Coyle_5	9200	SCS5yr	10.05	175.62	177.28	176.44	177.31	0.000571	0.88	24.97	96.25	0.23
Coyle	Coyle_5	9200	SCS10yr	12.33	175.62	177.41	176.54	177.43	0.000416	0.8	38.67	107.9	0.2
Coyle	Coyle_5	9200	SCS25yr	15.59	175.62	177.58	176.67	177.6	0.000291	0.71	58.69	127.3	0.17
Coyle	Coyle_5	9200	SCS50yr	19.13	175.62	177.76	176.83	177.77	0.000202	0.63	82.94	148.84	0.14
Coyle	Coyle_5	9200	SCS100yr	22.33	175.62	177.96	176.95	177.96	0.000134	0.55	115.92	230.64	0.12
Coyle	Coyle_5	9200	SCS200yr	28.49	175.62	178.21	177.35	178.21	0.000082	0.46	198.28	404.26	0.09
Coyle	Coyle_5	9200	RSnow100yr	13.88	175.62	177.52	176.6	177.53	0.000308	0.71	50.55	119.45	0.17
Coyle	Coyle_5	9123	SCS2yr	7.51	175.52	177.11	176.29	177.13	0.000345	0.66	25.96	74.11	0.18
Coyle	Coyle_5	9123	SCS5yr	10.05	175.52	177.26	176.42	177.27	0.000293	0.65	38.02	87.43	0.17
Coyle	Coyle_5	9123	SCS10yr	12.33	175.52	177.4	176.52	177.41	0.000236	0.62	50.46	97.51	0.15
Coyle	Coyle_5	9123	SCS25yr	15.59	175.52	177.57	176.66	177.58	0.000196	0.6	69.57	124.41	0.14
Coyle	Coyle_5	9123	SCS50yr	19.13	175.52	177.75	177.02	177.76	0.000146	0.55	94.03	145.76	0.12
Coyle	Coyle_5	9123	SCS100yr	22.33	175.52	177.95	177.07	177.95	0.000103	0.49	124.53	256.71	0.1
Coyle	Coyle_5	9123	SCS200yr	28.49	175.52	178.21	177.15	178.21	0.000082	0.47	231.75	477.01	0.09
Coyle	Coyle_5	9123	RSnow100yr	13.88	175.52	177.5	176.59	177.51	0.000201	0.59	61.65	114.83	0.14
Coyle	Coyle_5	9052	SCS2yr	7.51	175.45	177.09	176.13	177.11	0.000263	0.58	21.36	55.21	0.16
Coyle	Coyle_5	9052	SCS5yr	10.05	175.45	177.24	176.23	177.25	0.000268	0.63	30.91	73.48	0.16
Coyle	Coyle_5	9052	SCS10yr	12.33	175.45	177.37	176.31	177.39	0.000241	0.63	42.33	93.26	0.15
Coyle	Coyle_5	9052	SCS25yr	15.59	175.45	177.55	176.42	177.56	0.000208	0.62	61.92	134	0.15
Coyle	Coyle_5	9052	SCS50yr	19.13	175.45	177.74	176.52	177.75	0.000157	0.58	92.21	193.93	0.13
Coyle	Coyle_5	9052	SCS100yr	22.33	175.45	177.94	176.62	177.95	0.000094	0.48	132.47	340.04	0.1
Coyle	Coyle_5	9052	SCS200yr	28.49	175.45	178.2	176.8	178.2	0.000051	0.38	245.57	400.46	0.08
Coyle	Coyle_5	9052	RSnow100yr	13.88	175.45	177.48	176.36	177.5	0.000208	0.61	53.83	117.56	0.14
Coyle	Coyle_5	8951	SCS2yr	7.51	175.35	177.08	176.13	177.08	0.00016	0.47	35.96	81.79	0.12
Coyle	Coyle_5	8951	SCS5yr	10.05	175.35	177.23	176.25	177.23	0.000144	0.47	48.66	91.45	0.12
Coyle	Coyle_5	8951	SCS10yr	12.33	175.35	177.36	176.35	177.37	0.000126	0.47	62.75	114.69	0.11
Coyle	Coyle_5	8951	SCS25yr	15.59	175.35	177.54	176.49	177.55	0.000108	0.46	87.72	192.2	0.1
Coyle	Coyle_5	8951	SCS50yr	19.13	175.35	177.73	176.82	177.73	0.000078	0.42	125.89	302.67	0.09
Coyle	Coyle_5	8951	SCS100yr	22.33	175.35	177.94	176.89	177.94	0.000045	0.34	206.78	351.55	0.07
Coyle	Coyle_5	8951	SCS200yr	28.49	175.35	178.2	176.96	178.2	0.000024	0.26	299.2	355.74	0.05
Coyle	Coyle_5	8951	RSnow100yr	13.88	175.35	177.48	176.4	177.48	0.000104	0.44	77.3	150.93	0.1
Coyle	Coyle_5	8868	SCS2yr	7.51	175.23	177.07		177.07	0.00012	0.43	47.41	130.68	0.11
Coyle	Coyle_5	8868	SCS5yr	10.05	175.23	177.22		177.22	0.000092	0.4	68.34	151.2	0.09
Coyle	Coyle_5	8868	SCS10yr	12.33	175.23	177.36		177.36	0.000072	0.37	91.05	166.79	0.08
Coyle	Coyle_5	8868	SCS25yr	15.59	175.23	177.54		177.54	0.000064	0.37	125.05	232.53	0.08
Coyle	Coyle_5	8868	SCS50yr	19.13	175.23	177.73		177.73	0.000044	0.32	173.59	285.83	0.07
Coyle	Coyle_5	8868	SCS100yr	22.33	175.23	177.94		177.94	0.000027	0.27	236.05	324.85	0.05
Coyle	Coyle_5	8868	SCS200yr	28.49	175.23	178.2		178.2	0.000019	0.24	333.8	418.23	0.05
Coyle	Coyle_5	8868	RSnow100yr	13.88	175.23	177.47		177.47	0.000056	0.34	110.72	198.74	0.08
Coyle	Coyle_5	8775	SCS2yr	7.51	175.26	177.04	175.97	177.06	0.000242	0.61	26.72	89.35	0.15
Coyle	Coyle_5	8775	SCS5yr	10.05	175.26	177.2	176.1	177.21	0.000204	0.6	42.09	107.28	0.14
Coyle	Coyle_5	8775	SCS10yr	12.33	175.26	177.34	176.21	177.35	0.000155	0.55	58.38	116.3	0.12
Coyle	Coyle_5	8775	SCS25yr	15.59	175.26	177.52	176.33	177.53	0.000117	0.5	80.58	128.75	0.11
Coyle	Coyle_5	8775	SCS50yr	19.13	175.26	177.72	176.5	177.72	0.000087	0.46	106.9	162.52	0.1
Coyle	Coyle_5	8775	SCS100yr	22.33	175.26	177.93	176.68	177.93	0.00006	0.4	152.01	297.49	0.08
Coyle	Coyle_5	8775	SCS200yr	28.49	175.26	178.19	177.06	178.2	0.000045	0.38	250.49	473.34	0.07
Coyle	Coyle_5	8775	RSnow100yr	13.88	175.26	177.46	176.28	177.47	0.00012	0.5	72.39	124.41	0.11
Coyle	Coyle_5	8698	SCS2yr	7.51	175.12	177.04	175.81	177.04	0.000096	0.4	43.58	102.15	0.1
Coyle	Coyle_5	8698	SCS5yr	10.05	175.12	177.19	175.93	177.2	0.000086	0.4	60.02	114.04	0.09
Coyle	Coyle_5	8698	SCS10yr	12.33	175.12	177.34	176.02	177.34	0.000074	0.39	76.78	128.12	0.09
Coyle	Coyle_5	8698	SCS25yr	15.59	175.12	177.52	176.15	177.52	0.000066	0.39	100.21	159.43	0.08
Coyle	Coyle_5	8698	SCS50yr	19.13	175.12	177.72	176.27	177.72	0.000052	0.37	129.71	183.75	0.08
Coyle	Coyle_5	8698	SCS100yr	22.33	175.12	177.93	176.34	177.93	0.000039	0.34	164.7	240.15	0.07
Coyle	Coyle_5	8698	SCS200yr	28.49	175.12	178.19	176.85	178.19	0.000038	0.35	218.7	456.59	0.07

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_5	8698	RSnow100yr	13.88	175.12	177.46	176.08	177.46	0.000062	0.37	91.39	140.37	0.08
Coyle	Coyle_5	8630	SCS2yr	7.51	175.16	177.03	175.92	177.03	0.000149	0.48	30.24	51.25	0.12
Coyle	Coyle_5	8630	SCS5yr	10.05	175.16	177.18	176.04	177.19	0.000155	0.52	38.46	56.42	0.12
Coyle	Coyle_5	8630	SCS10yr	12.33	175.16	177.33	176.14	177.33	0.000145	0.53	47.06	61.07	0.12
Coyle	Coyle_5	8630	SCS25yr	15.59	175.16	177.51	176.27	177.52	0.000132	0.54	58.74	73.93	0.12
Coyle	Coyle_5	8630	SCS50yr	19.13	175.16	177.71	176.55	177.71	0.000109	0.52	80.07	133.1	0.11
Coyle	Coyle_5	8630	SCS100yr	22.33	175.16	177.92	176.64	177.93	0.000078	0.46	116.03	194.82	0.09
Coyle	Coyle_5	8630	SCS200yr	28.49	175.16	178.19	176.82	178.19	0.000059	0.43	173.3	300.31	0.08
Coyle	Coyle_5	8630	RSnow100yr	13.88	175.16	177.45	176.24	177.45	0.000128	0.52	54.43	63.26	0.11
Coyle	Coyle_5	8580	SCS2yr	7.51	175.12	177.02	175.88	177.03	0.000128	0.45	31.18	44.99	0.11
Coyle	Coyle_5	8580	SCS5yr	10.05	175.12	177.17	176	177.18	0.000143	0.51	38.5	50.59	0.12
Coyle	Coyle_5	8580	SCS10yr	12.33	175.12	177.32	176.12	177.33	0.000141	0.53	46.26	56.56	0.12
Coyle	Coyle_5	8580	SCS25yr	15.59	175.12	177.5	176.26	177.51	0.000138	0.55	57.78	68.31	0.12
Coyle	Coyle_5	8580	SCS50yr	19.13	175.12	177.7	176.54	177.71	0.000118	0.54	75.24	115.87	0.11
Coyle	Coyle_5	8580	SCS100yr	22.33	175.12	177.92	176.6	177.92	0.000084	0.49	108.43	202.32	0.1
Coyle	Coyle_5	8580	SCS200yr	28.49	175.12	178.18	176.7	178.19	0.000062	0.44	171.2	268.22	0.08
Coyle	Coyle_5	8580	RSnow100yr	13.88	175.12	177.44	176.2	177.45	0.000134	0.54	53.48	66.65	0.12
Coyle	Coyle_5	8545	SCS2yr	7.51	174.6	177.01	175.58	177.02	0.000066	0.34	17.73	59.63	0.08
Coyle	Coyle_5	8545	SCS5yr	10.05	174.6	177.15	175.7	177.17	0.000087	0.41	19.32	66.59	0.09
Coyle	Coyle_5	8545	SCS10yr	12.33	174.6	177.29	175.81	177.32	0.000099	0.46	20.84	75.02	0.1
Coyle	Coyle_5	8545	SCS25yr	15.59	174.6	177.5	175.94	177.51	0.000013	0.18	74.09	109.56	0.04
Coyle	Coyle_5	8545	SCS50yr	19.13	174.6	177.7	176.04	177.7	0.000011	0.17	99.45	138.12	0.03
Coyle	Coyle_5	8545	SCS100yr	22.33	174.6	177.92	176.15	177.92	0.000007	0.15	133.43	186.24	0.03
Coyle	Coyle_5	8545	SCS200yr	28.49	174.6	178.18	176.24	178.18	0.000006	0.14	188.8	244.55	0.02
Coyle	Coyle_5	8545	RSnow100yr	13.88	174.6	177.44	175.87	177.44	0.00002	0.22	49.22	94.45	0.05
Coyle	Coyle_5	8531		Bridge									
Coyle	Coyle_5	8519	SCS2yr	8.1	174.62	176.98	175.5	177	0.000091	0.42	17.01	95.23	0.09
Coyle	Coyle_5	8519	SCS5yr	10.8	174.62	177.1	175.62	177.13	0.000127	0.51	18.22	103.71	0.11
Coyle	Coyle_5	8519	SCS10yr	13.27	174.62	177.23	175.72	177.23	0.000025	0.24	72.37	114.55	0.05
Coyle	Coyle_5	8519	SCS25yr	16.86	174.62	177.35	175.86	177.36	0.000025	0.24	88.5	135.55	0.05
Coyle	Coyle_5	8519	SCS50yr	20.6	174.62	177.67	175.98	177.67	0.000013	0.2	135.16	161.27	0.04
Coyle	Coyle_5	8519	SCS100yr	24.04	174.62	177.91	176.09	177.91	0.00001	0.17	180.99	206.5	0.03
Coyle	Coyle_5	8519	SCS200yr	30.68	174.62	178.18	176.25	178.18	0.000008	0.17	246.58	320.16	0.03
Coyle	Coyle_5	8519	RSnow100yr	14.96	174.62	177.32	175.79	177.32	0.000022	0.23	84.04	132.03	0.05
Coyle	Coyle_5	8477	SCS2yr	8.1	175.01	176.98	175.67	176.99	0.000091	0.41	42.63	73.72	0.09
Coyle	Coyle_5	8477	SCS5yr	10.8	175.01	177.11	175.78	177.11	0.000107	0.46	52.18	81.16	0.1
Coyle	Coyle_5	8477	SCS10yr	13.27	175.01	177.22	175.88	177.23	0.000116	0.49	61.88	91.15	0.11
Coyle	Coyle_5	8477	SCS25yr	16.86	175.01	177.34	176.01	177.35	0.000129	0.54	73.91	101.2	0.12
Coyle	Coyle_5	8477	SCS50yr	20.6	175.01	177.66	176.15	177.67	0.000081	0.47	110.76	130.96	0.09
Coyle	Coyle_5	8477	SCS100yr	24.04	175.01	177.91	176.32	177.91	0.000061	0.43	144.97	155.72	0.08
Coyle	Coyle_5	8477	SCS200yr	30.68	175.01	178.18	176.62	178.18	0.00005	0.42	192.96	276.69	0.08
Coyle	Coyle_5	8477	RSnow100yr	14.96	175.01	177.31	175.95	177.32	0.000111	0.5	70.71	98.14	0.11
Coyle	Coyle_5	8391	SCS2yr	8.1	174.94	176.97	175.64	176.98	0.000115	0.46	34.32	53.01	0.11
Coyle	Coyle_5	8391	SCS5yr	10.8	174.94	177.09	175.76	177.1	0.000144	0.54	41.04	59.41	0.12
Coyle	Coyle_5	8391	SCS10yr	13.27	174.94	177.2	175.86	177.21	0.000159	0.59	48.04	65.86	0.13
Coyle	Coyle_5	8391	SCS25yr	16.86	174.94	177.33	176	177.34	0.000186	0.66	56.65	74.14	0.14
Coyle	Coyle_5	8391	SCS50yr	20.6	174.94	177.65	176.13	177.66	0.000125	0.59	85.22	103.19	0.12
Coyle	Coyle_5	8391	SCS100yr	24.04	174.94	177.9	176.28	177.9	0.000091	0.54	114.81	138.84	0.1
Coyle	Coyle_5	8391	SCS200yr	30.68	174.94	178.17	176.53	178.17	0.000073	0.51	157.39	275.01	0.09
Coyle	Coyle_5	8391	RSnow100yr	14.96	174.94	177.3	175.93	177.31	0.000158	0.6	54.51	72.12	0.13
Coyle	Coyle_5	8305	SCS2yr	8.1	174.9	176.96	175.55	176.97	0.000082	0.4	41.35	59.11	0.09
Coyle	Coyle_5	8305	SCS5yr	10.8	174.9	177.08	175.67	177.09	0.0001	0.46	48.54	61.68	0.1
Coyle	Coyle_5	8305	SCS10yr	13.27	174.9	177.19	175.77	177.2	0.000111	0.5	55.5	64.53	0.11
Coyle	Coyle_5	8305	SCS25yr	16.86	174.9	177.32	175.91	177.32	0.00013	0.56	63.5	67.34	0.12
Coyle	Coyle_5	8305	SCS50yr	20.6	174.9	177.64	176.04	177.65	0.000094	0.52	89.83	103.54	0.1
Coyle	Coyle_5	8305	SCS100yr	24.04	174.9	177.89	176.17	177.9	0.000085	0.52	122.23	150.69	0.1
Coyle	Coyle_5	8305	SCS200yr	30.68	174.9	178.16	176.59	178.17	0.000067	0.49	185.26	343.9	0.09
Coyle	Coyle_5	8305	RSnow100yr	14.96	174.9	177.29	175.84	177.3	0.00011	0.51	61.64	66.69	0.11
Coyle	Coyle_5	8217	SCS2yr	8.1	174.66	176.96	175.43	176.96	0.000057	0.35	51.99	68.16	0.08
Coyle	Coyle_5	8217	SCS5yr	10.8	174.66	177.08	175.56	177.08	0.000071	0.41	60.26	71.91	0.09
Coyle	Coyle_5	8217	SCS10yr	13.27	174.66	177.19	175.67	177.19	0.00008	0.45	68.41	76.71	0.09
Coyle	Coyle_5	8217	SCS25yr	16.86	174.66	177.31	175.83	177.31	0.000096	0.5	77.94	82.01	0.1
Coyle	Coyle_5	8217	SCS50yr	20.6	174.66	177.63	175.96	177.64	0.000077	0.49	109.95	124.32	0.09
Coyle	Coyle_5	8217	SCS100yr	24.04	174.66	177.88	176.31	177.89	0.000058	0.45	142.6	170.07	0.08
Coyle	Coyle_5	8217	SCS200yr	30.68	174.66	178.16	176.48	178.16	0.000054	0.46	216.97	331.14	0.08
Coyle	Coyle_5	8217	RSnow100yr	14.96	174.66	177.28	175.75	177.29	0.00008	0.46	75.8	80.79	0.09
Coyle	Coyle_5	8137	SCS2yr	8.1	174.68	176.96	175.49	176.96	0.000057	0.35	57.88	68.05	0.08
Coyle	Coyle_5	8137	SCS5yr	10.8	174.68	177.07	175.62	177.08	0.000074	0.41	66.65	84.77	0.09
Coyle	Coyle_5	8137	SCS10yr	13.27	174.68	177.18	175.74	177.19	0.000084	0.45	76.47	96.37	0.09
Coyle	Coyle_5	8137	SCS25yr	16.86	174.68	177.3	175.92	177.31	0.000102	0.52	88.47	105.85	0.11
Coyle	Coyle_5	8137	SCS50yr	20.6	174.68	177.63	176.24	177.63	0.000068	0.46	133.34	156.29	0.09
Coyle	Coyle_5	8137	SCS100yr	24.04	174.68	177.88	176.31	177.88	0.000051	0.42	174.57	196.51	0.08
Coyle	Coyle_5	8137	SCS200yr	30.68	174.68	178.16	176.43	178.16	0.000046	0.42	240.56	252.43	0.07
Coyle	Coyle_5	8137	RSnow100yr	14.96	174.68	177.27	175.82	177.28	0.000086	0.47	85.83	103.96	0.1
Coyle	Coyle_5	8069	SCS2yr	8.1	174.6	176.95	175.28	176.95	0.00006	0.37	49.05	55.66	0.08
Coyle	Coyle_5	8069	SCS5yr	10.8	174.6	177.06	175.4	177.07	0.000082	0.45	55.65	60.62	0.09
Coyle	Coyle_5	8069	SCS10yr	13.27	174.6	177.17	175.5	177.18	0.000101	0.51	62.56	79.72	0.1
Coyle	Coyle_5	8069	SCS25yr	16.86	174.6	177.29	175.63	177.3	0.00013	0.6	70.97	88.59	0.12
Coyle	Coyle_5	8069	SCS50yr	20.6	174.6	177.62	175.76	177.63	0.000106	0.59	102.3	144.63	0.11
Coyle	Coyle_5	8069	SCS100yr	24.04	174.6	177.87	175.88	177.88	0.000079	0.53	155.55	201.32	0.1
Coyle	Coyle_5	8069	SCS200yr	30.68	174.6	178.15	176.08	178.16	0.000062	0.5	214.86	223.52	0.09
Coyle	Coyle_5	8069	RSnow100yr	14.96	174.6	177.26	175.56	177.27	0.000107	0.54	69.25	87.03	0.11
Coyle	Coyle_5	7992	SCS2yr	8.1	174.72	176.94		176.95	0.000074	0.39	39.38	41.09	0.09
Coyle	Coyle_5	7992	SCS5yr	10.8	174.72	177.06		177.06	0.000102	0.48	44.17	44.18	0.1
Coyle	Coyle_5	7992	SCS10yr	13.27	174.72	177.16		177.17	0.000122	0.54	48.96	46.81	0.11
Coyle	Coyle_5	7992	SCS25yr	16.86	174.72	177.27		177.29	0.000155	0.63	54.37	48.67	0.13
Coyle	Coyle_5	7992	SCS50yr	20.6	174.72	177.61		177.62	0.000127	0.62	72.19	62.43	0.12
Coyle	Coyle_5	7992	SCS100yr	24.04	174.72	177.86		177.87	0.000108	0.61	90.07	77.32	0.11
Coyle	Coyle_5	7992	SCS200yr	30.68	174.72	178.14		178.15	0.000104	0.63	114.03	90.27	0.11
Coyle	Coyle_5	7992	RSnow100yr	14.96	174.72	177.25		177.26	0.000127	0.57	53.37	48.38	0.12
Coyle	Coyle_5	7930	SCS2yr	8.1	174.42	176.95		176.95	0.000019	0.21	81.72	86.91	0.04
Coyle	Coyle_5	7930	SCS5yr	10.8	174.42	177.06		177.06	0.000025	0.26	92.12	96.85	0.05
Coyle	Coyle_5	7930	SCS10yr	13.27	174.42	177.16		177.17	0.000029	0.28	102.57	100.9	0.06
Coyle	Coyle_5	7930	SCS25yr	16.86	174.42	177.28		177.28	0.000035	0.32	114.21	102.82	0.06
Coyle	Coyle_5	7930	SCS50yr	20.6	174.42	177.61		177.61	0.000025	0.29	149.93	110.53	0.05
Coyle	Coyle_5	7930	SCS100yr	24.04	174.42	177.87		177.87	0.000021	0.28	179.3	120.39	0.05
Coyle	Coyle_5	7930	SCS200yr	30.68	174.42	178.14		178.14	0.000022	0.3	215.83	141.8	0.05
Coyle	Coyle_5	7930	RSnow100yr	14.96	174.42	177.26		177.26	0.000029	0.29	112.03	102.55	0.06
Coyle	Disher	1008	SCS2yr	6.99	176.44	177.35	177.11	177.48	0.0043	1.56	4.79	10.21	0.56
Coyle	Disher	1008	SCS5yr	10.29	176.44	177.63	177.28	177.73	0.002592	1.48	10.91	38.75	0.46
Coyle	Disher	1008	SCS10yr	13.23	176.44	177.86	177.49	177.91	0.001343	1.21	20.81	47.77	0.34
Coyle	Disher	1008	SCS25yr	17.33	176.44	178.13	177.71	178.16	0.000702	1	34.93	55.74	0.25

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher	1008	SCS50yr	20.94	176.44	178.4	177.79	178.42	0.0004	0.84	52.46	69.48	0.2
Coyle	Disher	1008	SCS100yr	24.23	176.44	178.59	177.82	178.6	0.000305	0.78	66.06	80.05	0.18
Coyle	Disher	1008	SCS200yr	30.29	176.44	178.74	177.9	178.75	0.000253	0.75	105.46	174.88	0.16
Coyle	Disher	1008	RSnow100yr	17.51	176.44	178.14	177.7	178.17	0.00069	0.99	35.49	56.07	0.25
Coyle	Disher	924	SCS2yr	6.99	175.47	177.36	176.14	177.37	0.000225	0.5	13.93	19.31	0.14
Coyle	Disher	924	SCS5yr	10.29	175.47	177.62	176.3	177.64	0.000276	0.62	16.53	50.66	0.15
Coyle	Disher	924	SCS10yr	13.23	175.47	177.82	176.43	177.85	0.000309	0.71	18.56	59.88	0.17
Coyle	Disher	924	SCS25yr	17.33	175.47	178.08	176.61	178.12	0.000343	0.82	21.17	66.79	0.18
Coyle	Disher	924	SCS50yr	20.94	175.47	178.34	176.7	178.38	0.000339	0.88	23.8	80.48	0.18
Coyle	Disher	924	SCS100yr	24.23	175.47	178.58	176.78	178.59	0.000046	0.34	67.92	87.12	0.07
Coyle	Disher	924	SCS200yr	30.29	175.47	178.74	176.94	178.75	0.000023	0.25	106.67	96.03	0.05
Coyle	Disher	924	RSnow100yr	17.51	175.47	178.09	176.61	178.13	0.000345	0.82	21.26	67.31	0.18
Coyle	Disher	910		Culvert									
Coyle	Disher	898	SCS2yr	6.99	175.65	177.26	176.45	177.31	0.000861	0.97	7.59	11.13	0.26
Coyle	Disher	898	SCS5yr	10.29	175.65	177.44	176.62	177.52	0.001213	1.26	8.7	15.71	0.32
Coyle	Disher	898	SCS10yr	13.23	175.65	177.57	176.76	177.68	0.001538	1.49	9.45	17.98	0.36
Coyle	Disher	898	SCS25yr	17.33	175.65	177.7	176.93	177.86	0.00204	1.8	10.25	20.61	0.42
Coyle	Disher	898	SCS50yr	20.94	175.65	177.87	177.09	178.06	0.0022	1.98	11.27	37.9	0.45
Coyle	Disher	898	SCS100yr	24.23	175.65	177.99	177.21	178.22	0.002406	2.15	12	46.96	0.47
Coyle	Disher	898	SCS200yr	30.29	175.65	178.19	177.41	178.48	0.002783	2.46	13.16	59.57	0.51
Coyle	Disher	898	RSnow100yr	17.51	175.65	177.71	176.94	177.87	0.002077	1.82	10.26	20.67	0.43
Coyle	Disher	874	SCS2yr	6.99	175.66	177.23		177.28	0.001012	1.09	7.77	8.75	0.29
Coyle	Disher	874	SCS5yr	10.29	175.66	177.4		177.49	0.001423	1.4	9.41	32.61	0.35
Coyle	Disher	874	SCS10yr	13.23	175.66	177.52		177.64	0.001779	1.64	10.75	36.46	0.4
Coyle	Disher	874	SCS25yr	17.33	175.66	177.65		177.81	0.002245	1.93	12.46	40.92	0.45
Coyle	Disher	874	SCS50yr	20.94	175.66	177.82	177.2	178.01	0.002298	2.08	16.3	51.72	0.47
Coyle	Disher	874	SCS100yr	24.23	175.66	177.97	177.32	178.14	0.002027	2.05	24.74	59.57	0.44
Coyle	Disher	874	SCS200yr	30.29	175.66	178.25		178.34	0.00121	1.71	42.42	71.5	0.35
Coyle	Disher	874	RSnow100yr	17.51	175.66	177.65		177.81	0.002292	1.95	12.46	40.93	0.46
Coyle	Disher	819	SCS2yr	6.99	175.53	177.19	176.39	177.23	0.000766	0.97	9.09	10.71	0.26
Coyle	Disher	819	SCS5yr	10.29	175.53	177.37	176.57	177.42	0.000785	1.07	15.29	21.8	0.27
Coyle	Disher	819	SCS10yr	13.23	175.53	177.5	176.71	177.55	0.000887	1.19	18.02	22.68	0.29
Coyle	Disher	819	SCS25yr	17.33	175.53	177.63	176.89	177.7	0.001056	1.37	21.23	24.91	0.32
Coyle	Disher	819	SCS50yr	20.94	175.53	177.83	177.01	177.89	0.000979	1.4	26.52	30.4	0.31
Coyle	Disher	819	SCS100yr	24.23	175.53	178	177.18	178.04	0.000648	1.21	45.93	68.91	0.26
Coyle	Disher	819	SCS200yr	30.29	175.53	178.25	177.4	178.28	0.00048	1.11	64.54	81.12	0.22
Coyle	Disher	819	RSnow100yr	17.51	175.53	177.63	176.89	177.7	0.001079	1.38	21.22	24.9	0.32
Coyle	Disher	736	SCS2yr	6.99	175.44	177.11		177.16	0.00084	1.04	9.11	23.27	0.27
Coyle	Disher	736	SCS5yr	10.29	175.44	177.27		177.34	0.001104	1.28	14.82	40.77	0.32
Coyle	Disher	736	SCS10yr	13.23	175.44	177.4		177.47	0.001065	1.32	20.46	44.56	0.32
Coyle	Disher	736	SCS25yr	17.33	175.44	177.55		177.61	0.001037	1.37	27.21	48.08	0.32
Coyle	Disher	736	SCS50yr	20.94	175.44	177.78		177.82	0.000673	1.19	38.66	51.71	0.26
Coyle	Disher	736	SCS100yr	24.23	175.44	177.96		177.99	0.000516	1.1	48.61	61.7	0.23
Coyle	Disher	736	SCS200yr	30.29	175.44	178.22		178.24	0.000405	1.05	68.26	88.97	0.21
Coyle	Disher	736	RSnow100yr	17.51	175.44	177.55		177.61	0.001072	1.39	27.05	47.99	0.32
Coyle	Disher	658	SCS2yr	6.99	175.39	177.05	176.22	177.1	0.000758	1.01	9.32	15.62	0.26
Coyle	Disher	658	SCS5yr	10.29	175.39	177.22	176.42	177.26	0.000696	1.03	21.56	54.55	0.25
Coyle	Disher	658	SCS10yr	13.23	175.39	177.36	176.57	177.39	0.000644	1.05	29.37	59.02	0.25
Coyle	Disher	658	SCS25yr	17.33	175.39	177.51	176.76	177.54	0.000605	1.07	38.33	62.04	0.24
Coyle	Disher	658	SCS50yr	20.94	175.39	177.75	176.91	177.77	0.000378	0.91	54.03	66.67	0.2
Coyle	Disher	658	SCS100yr	24.23	175.39	177.94	177.06	177.96	0.00029	0.85	66.91	70.17	0.17
Coyle	Disher	658	SCS200yr	30.29	175.39	178.2	177.33	178.22	0.000234	0.81	86	75.74	0.16
Coyle	Disher	658	RSnow100yr	17.51	175.39	177.5	176.78	177.54	0.000629	1.09	38.03	61.9	0.25
Coyle	Disher	588	SCS2yr	6.99	175.26	177.01	176.11	177.05	0.00068	0.98	10.15	15.15	0.25
Coyle	Disher	588	SCS5yr	10.29	175.26	177.13	176.31	177.2	0.001066	1.29	12.31	19.73	0.31
Coyle	Disher	588	SCS10yr	13.23	175.26	177.23	176.48	177.33	0.001363	1.52	14.54	25.19	0.36
Coyle	Disher	588	SCS25yr	17.33	175.26	177.35	176.67	177.47	0.001663	1.74	17.66	28.49	0.4
Coyle	Disher	588	SCS50yr	20.94	175.26	177.65	176.89	177.73	0.001043	1.52	27.46	35.97	0.33
Coyle	Disher	588	SCS100yr	24.23	175.26	177.91	176.98	177.93	0.000349	0.95	61.02	74.99	0.19
Coyle	Disher	588	SCS200yr	30.29	175.26	178.18	177.35	178.2	0.000265	0.89	83.75	93.5	0.17
Coyle	Disher	588	RSnow100yr	17.51	175.26	177.33	176.67	177.46	0.001774	1.79	17.23	28.07	0.41
Coyle	Disher	508	SCS2yr	6.99	175.2	176.99		177.01	0.000286	0.65	25.04	56.07	0.16
Coyle	Disher	508	SCS5yr	10.29	175.2	177.12		177.14	0.000345	0.75	32.49	58.81	0.18
Coyle	Disher	508	SCS10yr	13.23	175.2	177.24		177.25	0.000359	0.8	39.31	61.06	0.18
Coyle	Disher	508	SCS25yr	17.33	175.2	177.36		177.38	0.000389	0.86	47.19	63.82	0.19
Coyle	Disher	508	SCS50yr	20.94	175.2	177.66		177.67	0.000223	0.72	67.17	69.42	0.15
Coyle	Disher	508	SCS100yr	24.23	175.2	177.91		177.91	0.00016	0.65	84.36	73.23	0.13
Coyle	Disher	508	SCS200yr	30.29	175.2	178.17		178.18	0.00014	0.65	104.83	79.65	0.12
Coyle	Disher	508	RSnow100yr	17.51	175.2	177.35		177.37	0.000418	0.89	46.26	63.43	0.2
Coyle	Disher	435	SCS2yr	6.99	175.13	176.98		176.99	0.000231	0.59	28.27	59.1	0.15
Coyle	Disher	435	SCS5yr	10.29	175.13	177.1		177.12	0.000285	0.69	35.89	61.59	0.16
Coyle	Disher	435	SCS10yr	13.23	175.13	177.22		177.23	0.000299	0.74	42.94	63.68	0.17
Coyle	Disher	435	SCS25yr	17.33	175.13	177.34		177.35	0.000329	0.8	50.99	66.05	0.18
Coyle	Disher	435	SCS50yr	20.94	175.13	177.65		177.66	0.000188	0.67	72.66	75.7	0.14
Coyle	Disher	435	SCS100yr	24.23	175.13	177.89		177.9	0.00015	0.64	93.56	91.65	0.13
Coyle	Disher	435	SCS200yr	30.29	175.13	178.17		178.17	0.00012	0.61	119.22	97.17	0.11
Coyle	Disher	435	RSnow100yr	17.51	175.13	177.32		177.34	0.000356	0.83	49.9	65.76	0.19
Coyle	Disher	343	SCS2yr	6.99	174.97	176.96	175.86	176.97	0.000143	0.48	30.55	49.25	0.11
Coyle	Disher	343	SCS5yr	10.29	174.97	177.08	176.07	177.09	0.000198	0.59	36.63	51.71	0.14
Coyle	Disher	343	SCS10yr	13.23	174.97	177.19	176.22	177.2	0.000226	0.66	42.42	53.75	0.15
Coyle	Disher	343	SCS25yr	17.33	174.97	177.31	176.54	177.33	0.000268	0.74	49.01	55.86	0.16
Coyle	Disher	343	SCS50yr	20.94	174.97	177.63	176.69	177.64	0.000167	0.64	67.93	62.28	0.13
Coyle	Disher	343	SCS100yr	24.23	174.97	177.88	176.74	177.89	0.000108	0.55	98.6	98.16	0.11
Coyle	Disher	343	SCS200yr	30.29	174.97	178.16	176.82	178.16	0.000088	0.53	127.97	115.6	0.1
Coyle	Disher	343	RSnow100yr	17.51	174.97	177.3	176.55	177.31	0.000289	0.77	47.98	55.55	0.17
Coyle	Disher	279	SCS2yr	6.99	175.01	176.96		176.96	0.000091	0.38	37.85	58.85	0.09
Coyle	Disher	279	SCS5yr	10.29	175.01	177.08		177.08	0.000127	0.47	44.97	61.37	0.11
Coyle	Disher	279	SCS10yr	13.23	175.01	177.18		177.19	0.000143	0.53	51.74	62.99	0.12
Coyle	Disher	279	SCS25yr	17.33	175.01	177.3		177.31	0.000169	0.59	59.3	64.38	0.13
Coyle	Disher	279	SCS50yr	20.94	175.01	177.63		177.63	0.000104	0.51	81.09	70.44	0.11
Coyle	Disher	279	SCS100yr	24.23	175.01	177.88		177.88	0.000077	0.47	100.94	88.75	0.09
Coyle	Disher	279	SCS200yr	30.29	175.01	178.15		178.16	0.000068	0.47	126.6	100.18	0.09
Coyle	Disher	279	RSnow100yr	17.51	175.01	177.28		177.29	0.000183	0.61	58.05	64.1	0.14
Coyle	Disher	215	SCS2yr	6.99	174.78	176.95	175.71	176.96	0.000055	0.32	54.5	75.48	0.07
Coyle	Disher	215	SCS5yr	10.29	174.78	177.07	175.89	177.07	0.000078	0.4	63.42	76.78	0.09
Coyle	Disher	215	SCS10yr	13.23	174.78	177.18	176.08	177.18	0.000091	0.44	71.79	77.9	0.1
Coyle	Disher	215	SCS25yr	17.33	174.78	177.3	176.35	177.3	0.00011	0.5	81.03	79.1	0.11
Coyle	Disher	215	SCS50yr	20.94	174.78	177.62	176.46	177.63	0.00007	0.44	107.36	82.7	0.09
Coyle	Disher	215	SCS100yr	24.23	174.78	177.88	176.51	177.88	0.000055	0.42	128.58	95.03	0.08
Coyle	Disher	215	SCS200yr	30.29	174.78	178.15	176.63	178.15	0.000049	0.42	170.64	145.41	0.08
Coyle	Disher	215	RSnow100yr	17.51	174.78	177.28	176.35	177.28	0.000119	0.52	79.46	79.01	0.11
Coyle	Disher	146	SCS2yr	6.99	174.72	176.95		176.95	0.00004	0.28	54.02	68.59	0.06

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Disher	146	SCS5yr	10.29	174.72	177.07		177.07	0.000061	0.36	62.23	72.71	0.08
Coyle	Disher	146	SCS10yr	13.23	174.72	177.18		177.18	0.000072	0.4	70.2	76.64	0.09
Coyle	Disher	146	SCS25yr	17.33	174.72	177.29		177.3	0.00009	0.46	79.42	81.64	0.1
Coyle	Disher	146	SCS50yr	20.94	174.72	177.62		177.62	0.000061	0.42	108.55	92.77	0.08
Coyle	Disher	146	SCS100yr	24.23	174.72	177.87		177.88	0.000052	0.41	135.68	116.37	0.08
Coyle	Disher	146	SCS200yr	30.29	174.72	178.15		178.15	0.000044	0.4	170.45	135.49	0.07
Coyle	Disher	146	RSnow100yr	17.51	174.72	177.27		177.28	0.000097	0.48	77.77	80.68	0.1
Coyle	Disher	72	SCS2yr	6.99	174.7	176.94	175.53	176.95	0.000085	0.42	35.68	54.51	0.09
Coyle	Disher	72	SCS5yr	10.29	174.7	177.06	175.71	177.06	0.000128	0.53	41.94	57.61	0.11
Coyle	Disher	72	SCS10yr	13.23	174.7	177.16	175.79	177.17	0.000151	0.59	48.18	60.25	0.13
Coyle	Disher	72	SCS25yr	17.33	174.7	177.28	176.11	177.29	0.000185	0.68	55.15	62.39	0.14
Coyle	Disher	72	SCS50yr	20.94	174.7	177.61	176.32	177.62	0.000119	0.59	77.92	74.24	0.11
Coyle	Disher	72	SCS100yr	24.23	174.7	177.86	176.38	177.87	0.000091	0.55	119.86	146.85	0.1
Coyle	Disher	72	SCS200yr	30.29	174.7	178.14	176.53	178.15	0.000069	0.51	163.49	170.86	0.09
Coyle	Disher	72	RSnow100yr	17.51	174.7	177.25	176.12	177.27	0.000202	0.7	53.79	62.05	0.15
Coyle	Disher	17	SCS2yr	6.99	174.71	176.95		176.95	0.000014	0.17	89.16	96.09	0.04
Coyle	Disher	17	SCS5yr	10.29	174.71	177.06		177.06	0.000023	0.22	100.82	109.07	0.05
Coyle	Disher	17	SCS10yr	13.23	174.71	177.16		177.17	0.00003	0.26	112.83	119.93	0.06
Coyle	Disher	17	SCS25yr	17.33	174.71	177.28		177.28	0.000037	0.3	127.24	134.34	0.06
Coyle	Disher	17	SCS50yr	20.94	174.71	177.61		177.61	0.000025	0.27	177.8	161.24	0.05
Coyle	Disher	17	SCS100yr	24.23	174.71	177.87		177.87	0.000019	0.25	219.88	170.14	0.05
Coyle	Disher	17	SCS200yr	30.29	174.71	178.14		178.14	0.000016	0.25	268.68	186.4	0.04
Coyle	Disher	17	RSnow100yr	17.51	174.71	177.26		177.26	0.00004	0.32	124.37	131.17	0.07
Coyle	Ridgeville_E	5708	SCS2yr	0.45	188.36	188.77		188.78	0.001752	0.43	1.05	4.66	0.29
Coyle	Ridgeville_E	5708	SCS5yr	0.7	188.36	188.82	188.65	188.84	0.002083	0.52	1.34	5.08	0.32
Coyle	Ridgeville_E	5708	SCS10yr	0.93	188.36	188.86	188.69	188.88	0.002544	0.61	1.54	5.51	0.36
Coyle	Ridgeville_E	5708	SCS25yr	1.31	188.36	188.92	188.74	188.94	0.002825	0.71	1.84	5.9	0.39
Coyle	Ridgeville_E	5708	SCS50yr	1.67	188.36	188.94	188.77	188.98	0.003401	0.83	2.02	5.97	0.44
Coyle	Ridgeville_E	5708	SCS100yr	1.99	188.36	188.97	188.81	189.01	0.003881	0.92	2.16	6.02	0.47
Coyle	Ridgeville_E	5708	SCS200yr	2.56	188.36	189.01	188.86	189.07	0.004498	1.06	2.42	6.36	0.52
Coyle	Ridgeville_E	5708	RSnow100yr	1.53	188.36	188.93	188.76	188.97	0.003176	0.79	1.95	5.94	0.42
Coyle	Ridgeville_E	5664	SCS2yr	0.45	188.34	188.54	188.54	188.57	0.032483	0.81	0.56	8.84	1.03
Coyle	Ridgeville_E	5664	SCS5yr	0.7	188.34	188.56	188.56	188.6	0.031091	0.94	0.74	9.18	1.05
Coyle	Ridgeville_E	5664	SCS10yr	0.93	188.34	188.58	188.58	188.63	0.02302	0.94	0.99	9.61	0.94
Coyle	Ridgeville_E	5664	SCS25yr	1.31	188.34	188.61	188.6	188.67	0.022752	1.06	1.24	10.03	0.97
Coyle	Ridgeville_E	5664	SCS50yr	1.67	188.34	188.65		188.7	0.015724	1.03	1.63	10.52	0.83
Coyle	Ridgeville_E	5664	SCS100yr	1.99	188.34	188.68		188.73	0.012323	1.01	1.97	10.89	0.76
Coyle	Ridgeville_E	5664	SCS200yr	2.56	188.34	188.72		188.78	0.010477	1.03	2.48	11.66	0.72
Coyle	Ridgeville_E	5664	RSnow100yr	1.53	188.34	188.63	188.62	188.69	0.017944	1.04	1.47	10.34	0.88
Coyle	Ridgeville_E	5623	SCS2yr	0.45	188.29	188.44		188.45	0.000815	0.2	2.31	19.42	0.18
Coyle	Ridgeville_E	5623	SCS5yr	0.7	188.29	188.48		188.49	0.000724	0.22	3.11	19.66	0.18
Coyle	Ridgeville_E	5623	SCS10yr	0.93	188.29	188.52		188.52	0.000666	0.24	3.81	19.87	0.18
Coyle	Ridgeville_E	5623	SCS25yr	1.31	188.29	188.57		188.57	0.000613	0.27	4.83	20.15	0.18
Coyle	Ridgeville_E	5623	SCS50yr	1.67	188.29	188.61		188.62	0.000595	0.3	5.65	20.38	0.18
Coyle	Ridgeville_E	5623	SCS100yr	1.99	188.29	188.65		188.65	0.000584	0.31	6.36	20.75	0.18
Coyle	Ridgeville_E	5623	SCS200yr	2.56	188.29	188.69		188.69	0.000644	0.35	7.25	21.2	0.19
Coyle	Ridgeville_E	5623	RSnow100yr	1.53	188.29	188.6		188.6	0.000603	0.29	5.33	20.27	0.18
Coyle	Ridgeville_E	5567	SCS2yr	0.45	188.09	188.35	188.27	188.36	0.003224	0.46	1.01	7.9	0.38
Coyle	Ridgeville_E	5567	SCS5yr	0.7	188.09	188.4	188.3	188.41	0.00312	0.54	1.42	10.03	0.39
Coyle	Ridgeville_E	5567	SCS10yr	0.93	188.09	188.43	188.33	188.45	0.003052	0.6	1.78	10.39	0.39
Coyle	Ridgeville_E	5567	SCS25yr	1.31	188.09	188.48	188.37	188.51	0.003032	0.68	2.34	11.53	0.41
Coyle	Ridgeville_E	5567	SCS50yr	1.67	188.09	188.52	188.4	188.55	0.00301	0.74	2.83	13.65	0.41
Coyle	Ridgeville_E	5567	SCS100yr	1.99	188.09	188.56	188.42	188.59	0.003007	0.79	3.31	15.32	0.42
Coyle	Ridgeville_E	5567	SCS200yr	2.56	188.09	188.58	188.45	188.62	0.004019	0.94	3.63	15.97	0.49
Coyle	Ridgeville_E	5567	RSnow100yr	1.53	188.09	188.51	188.38	188.53	0.003011	0.72	2.64	12.19	0.41
Coyle	Ridgeville_E	5497	SCS2yr	0.45	187.55	187.8	187.8	187.88	0.023937	1.2	0.38	2.65	1.01
Coyle	Ridgeville_E	5497	SCS5yr	0.7	187.55	187.86	187.86	187.94	0.023149	1.24	0.56	3.59	1
Coyle	Ridgeville_E	5497	SCS10yr	0.93	187.55	187.9	187.9	187.99	0.023386	1.31	0.71	4.23	1.02
Coyle	Ridgeville_E	5497	SCS25yr	1.31	187.55	187.95	187.95	188.05	0.021635	1.41	0.93	4.69	1.01
Coyle	Ridgeville_E	5497	SCS50yr	1.67	187.55	187.99	187.99	188.1	0.021127	1.51	1.11	4.96	1.02
Coyle	Ridgeville_E	5497	SCS100yr	1.99	187.55	188.02	188.02	188.15	0.020323	1.57	1.26	5.14	1.01
Coyle	Ridgeville_E	5497	SCS200yr	2.56	187.55	188.07	188.07	188.21	0.019169	1.68	1.53	5.5	1.01
Coyle	Ridgeville_E	5497	RSnow100yr	1.53	187.55	187.97	187.97	188.08	0.021518	1.47	1.04	4.87	1.02
Coyle	Ridgeville_E	5433	SCS2yr	0.45	187.21	187.48		187.49	0.001141	0.24	1.92	15.77	0.22
Coyle	Ridgeville_E	5433	SCS5yr	0.7	187.21	187.51		187.52	0.001328	0.29	2.41	16.46	0.24
Coyle	Ridgeville_E	5433	SCS10yr	0.93	187.21	187.54		187.54	0.001522	0.33	2.78	16.92	0.26
Coyle	Ridgeville_E	5433	SCS25yr	1.31	187.21	187.56		187.57	0.001841	0.4	3.25	17.61	0.3
Coyle	Ridgeville_E	5433	SCS50yr	1.67	187.21	187.58		187.6	0.002122	0.46	3.61	18.09	0.32
Coyle	Ridgeville_E	5433	SCS100yr	1.99	187.21	187.6		187.61	0.002417	0.52	3.88	18.51	0.35
Coyle	Ridgeville_E	5433	SCS200yr	2.56	187.21	187.62		187.64	0.002886	0.6	4.31	19.52	0.39
Coyle	Ridgeville_E	5433	RSnow100yr	1.53	187.21	187.58		187.59	0.002012	0.44	3.48	17.86	0.31
Coyle	Ridgeville_E	5339	SCS2yr	0.45	187.05	187.23	187.21	187.24	0.011334	0.45	1.01	17.66	0.6
Coyle	Ridgeville_E	5339	SCS5yr	0.7	187.05	187.26	187.22	187.27	0.007805	0.43	1.62	22.99	0.52
Coyle	Ridgeville_E	5339	SCS10yr	0.93	187.05	187.28	187.24	187.29	0.0059	0.41	2.27	27.88	0.46
Coyle	Ridgeville_E	5339	SCS25yr	1.31	187.05	187.32		187.32	0.004027	0.41	3.17	28.81	0.4
Coyle	Ridgeville_E	5339	SCS50yr	1.67	187.05	187.35		187.36	0.003163	0.41	4.1	31.95	0.36
Coyle	Ridgeville_E	5339	SCS100yr	1.99	187.05	187.37		187.38	0.002545	0.41	4.9	32.49	0.33
Coyle	Ridgeville_E	5339	SCS200yr	2.56	187.05	187.41		187.42	0.001905	0.41	6.27	33.18	0.3
Coyle	Ridgeville_E	5339	RSnow100yr	1.53	187.05	187.33		187.34	0.00347	0.41	3.73	30.84	0.38
Coyle	Ridgeville_E	5256	SCS2yr	0.45	186.48	186.79		186.8	0.003042	0.58	0.79	3.29	0.38
Coyle	Ridgeville_E	5256	SCS5yr	0.7	186.48	186.85		186.88	0.003158	0.69	1.04	4.54	0.4
Coyle	Ridgeville_E	5256	SCS10yr	0.93	186.48	186.91		186.94	0.003261	0.78	1.31	5.46	0.42
Coyle	Ridgeville_E	5256	SCS25yr	1.31	186.48	186.98		187.02	0.003377	0.9	1.72	6.21	0.44
Coyle	Ridgeville_E	5256	SCS50yr	1.67	186.48	187.03	186.85	187.08	0.00346	0.99	2.15	8.27	0.45
Coyle	Ridgeville_E	5256	SCS100yr	1.99	186.48	187.07	186.89	187.13	0.003573	1.06	2.52	10.38	0.47
Coyle	Ridgeville_E	5256	SCS200yr	2.56	186.48	187.14	186.96	187.2	0.003604	1.16	3.47	15.57	0.48
Coyle	Ridgeville_E	5256	RSnow100yr	1.53	186.48	187.01	186.83	187.06	0.00343	0.95	1.98	7.92	0.45
Coyle	Ridgeville_E	5204	SCS2yr	0.45	186.16	186.38	186.38	186.45	0.02451	1.18	0.39	2.75	1.01
Coyle	Ridgeville_E	5204	SCS5yr	0.7	186.16	186.43	186.43	186.52	0.022815	1.32	0.53	2.98	1.01
Coyle	Ridgeville_E	5204	SCS10yr	0.93	186.16	186.47	186.47	186.57	0.021787	1.4	0.67	3.37	1
Coyle	Ridgeville_E	5204	SCS25yr	1.31	186.16	186.53	186.53	186.65	0.020986	1.53	0.86	3.68	1.01
Coyle	Ridgeville_E	5204	SCS50yr	1.67	186.16	186.57	186.57	186.71	0.02041	1.63	1.03	3.91	1.02
Coyle	Ridgeville_E	5204	SCS100yr	1.99	186.16	186.62	186.62	186.75	0.019527	1.65	1.21	4.4	1
Coyle	Ridgeville_E	5204	SCS200yr	2.56	186.16	186.67	186.67	186.83	0.019016	1.75	1.46	4.76	1.01
Coyle	Ridgeville_E	5204	RSnow100yr	1.53	186.16	186.55	186.55	186.68	0.020602	1.59	0.96	3.82	1.01
Coyle	Ridgeville_E	5123	SCS2yr	0.45	185.79	186.3		186.3	0.000119	0.15	3.01	8.77	0.08
Coyle	Ridgeville_E	5123	SCS5yr	0.7	185.79	186.36		186.36	0.000169	0.2	3.5	8.94	0.1
Coyle	Ridgeville_E	5123	SCS10yr	0.93	185.79	186.4		186.4	0.000214	0.24	3.89	9.06	0.12
Coyle	Ridgeville_E	5123	SCS25yr	1.31	185.79	186.46		186.46	0.000279	0.3	4.44	9.24	0.13
Coyle	Ridgeville_E	5123	SCS50yr	1.67	185.79	186.51		186.51	0.000329	0.34	4.9	9.38	0.15
Coyle	Ridgeville_E	5123	SCS100yr	1.99	185.79	186.54		186.55	0.000383	0.39	5.22	9.48	0.16
Coyle	Ridgeville_E	5123	SCS200yr	2.56	185.79	186.6		186.61	0.000457	0.45	5.8	9.67	0.18
Coyle	Ridgeville_E	5123	RSnow100yr	1.53	185.79	186.47		186.47	0.000357	0.34	4.52	9.26	0.15

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	5028	SCS2yr	0.45	185.58	186.29		186.29	0.000107	0.18	4.3	16.33	0.08
Coyle	Ridgeville_E	5028	SCS5yr	0.7	185.58	186.34		186.34	0.00017	0.25	5.18	19.01	0.1
Coyle	Ridgeville_E	5028	SCS10yr	0.93	185.58	186.38		186.38	0.000225	0.3	6.03	23.8	0.12
Coyle	Ridgeville_E	5028	SCS25yr	1.31	185.58	186.43		186.44	0.00029	0.36	7.39	26.28	0.14
Coyle	Ridgeville_E	5028	SCS50yr	1.67	185.58	186.48		186.48	0.000333	0.4	8.68	29.41	0.15
Coyle	Ridgeville_E	5028	SCS100yr	1.99	185.58	186.51		186.51	0.00038	0.44	9.57	30.34	0.16
Coyle	Ridgeville_E	5028	SCS200yr	2.56	185.58	186.56		186.57	0.00043	0.49	11.3	32.3	0.18
Coyle	Ridgeville_E	5028	RSnow100yr	1.53	185.58	186.43		186.44	0.000393	0.41	7.39	26.28	0.16
Coyle	Ridgeville_E	4962	SCS2yr	2.93	185.34	186.27	185.93	186.27	0.000274	0.37	21.36	70.02	0.14
Coyle	Ridgeville_E	4962	SCS5yr	4.04	185.34	186.32	186.07	186.32	0.000356	0.44	24.58	71.59	0.16
Coyle	Ridgeville_E	4962	SCS10yr	5.09	185.34	186.35	186.09	186.36	0.000432	0.5	27	72.33	0.18
Coyle	Ridgeville_E	4962	SCS25yr	6.76	185.34	186.4	186.12	186.4	0.000534	0.57	30.56	76.08	0.2
Coyle	Ridgeville_E	4962	SCS50yr	8.3	185.34	186.44	186.15	186.45	0.000607	0.63	33.76	78.71	0.22
Coyle	Ridgeville_E	4962	SCS100yr	9.66	185.34	186.46	186.17	186.47	0.000708	0.7	35.63	80.09	0.23
Coyle	Ridgeville_E	4962	SCS200yr	12.08	185.34	186.51	186.2	186.52	0.000789	0.76	46.05	128.44	0.25
Coyle	Ridgeville_E	4962	RSnow100yr	6.77	185.34	186.4	186.12	186.4	0.000537	0.58	30.54	76.07	0.2
Coyle	Ridgeville_E	4923	SCS2yr	2.93	185.55	186.26	185.98	186.26	0.000196	0.28	16.78	45.17	0.12
Coyle	Ridgeville_E	4923	SCS5yr	4.04	185.55	186.31	186.05	186.31	0.000265	0.34	19.82	46.19	0.14
Coyle	Ridgeville_E	4923	SCS10yr	5.09	185.55	186.34	186.11	186.34	0.000346	0.4	21.24	47.6	0.16
Coyle	Ridgeville_E	4923	SCS25yr	6.76	185.55	186.38	186.12	186.39	0.000469	0.48	23.36	49.29	0.19
Coyle	Ridgeville_E	4923	SCS50yr	8.3	185.55	186.42	186.12	186.42	0.000572	0.55	25.21	50.73	0.21
Coyle	Ridgeville_E	4923	SCS100yr	9.66	185.55	186.43	186.12	186.44	0.0007	0.62	26.14	51.26	0.23
Coyle	Ridgeville_E	4923	SCS200yr	12.08	185.55	186.48	186.12	186.49	0.00087	0.72	28.37	52.85	0.26
Coyle	Ridgeville_E	4923	RSnow100yr	6.77	185.55	186.38	186.12	186.38	0.000472	0.48	23.34	49.28	0.19
Coyle	Ridgeville_E	4916		Culvert									
Coyle	Ridgeville_E	4907	SCS2yr	2.93	184.74	185.77	185.33	185.8	0.001494	0.78	3.89	55.72	0.31
Coyle	Ridgeville_E	4907	SCS5yr	4.04	184.74	185.84	185.48	185.89	0.001926	0.95	4.42	59.23	0.35
Coyle	Ridgeville_E	4907	SCS10yr	5.09	184.74	185.92	185.55	185.98	0.002142	1.07	4.95	61.61	0.38
Coyle	Ridgeville_E	4907	SCS25yr	6.76	184.74	185.98	185.64	186.07	0.002977	1.32	5.34	64.28	0.45
Coyle	Ridgeville_E	4907	SCS50yr	8.3	184.74	186.05	185.73	186.09	0.001699	1.05	12.35	69.22	0.35
Coyle	Ridgeville_E	4907	SCS100yr	9.66	184.74	186.09	185.79	186.1	0.000396	0.52	34.74	72.17	0.17
Coyle	Ridgeville_E	4907	SCS200yr	12.08	184.74	186.15	185.89	186.16	0.000439	0.57	39.01	72.99	0.18
Coyle	Ridgeville_E	4907	RSnow100yr	6.77	184.74	185.98	185.65	186.07	0.003026	1.33	5.32	64.15	0.46
Coyle	Ridgeville_E	4840	SCS2yr	2.93	185.35	185.48	185.48	185.53	0.026215	0.98	3	30.96	1
Coyle	Ridgeville_E	4840	SCS5yr	4.04	185.35	185.82		185.82	0.000338	0.29	14.11	39.34	0.14
Coyle	Ridgeville_E	4840	SCS10yr	5.09	185.35	185.91		185.91	0.000276	0.3	17.88	44.92	0.13
Coyle	Ridgeville_E	4840	SCS25yr	6.76	185.35	185.97		185.98	0.000321	0.35	20.8	48.56	0.15
Coyle	Ridgeville_E	4840	SCS50yr	8.3	185.35	186.02		186.03	0.000359	0.39	23.23	49.86	0.16
Coyle	Ridgeville_E	4840	SCS100yr	9.66	185.35	186.07		186.07	0.000378	0.42	25.45	50.62	0.16
Coyle	Ridgeville_E	4840	SCS200yr	12.08	185.35	186.12		186.13	0.000443	0.48	28.18	51.66	0.18
Coyle	Ridgeville_E	4840	RSnow100yr	6.77	185.35	185.97		185.97	0.00033	0.35	20.62	48.2	0.15
Coyle	Ridgeville_E	4756	SCS2yr	2.93	184.67	185.34		185.34	0.000149	0.24	12.35	29.83	0.1
Coyle	Ridgeville_E	4756	SCS5yr	4.04	184.67	185.82		185.82	0.00003	0.16	30.3	46.34	0.05
Coyle	Ridgeville_E	4756	SCS10yr	5.09	184.67	185.9		185.91	0.000035	0.18	34.47	47.9	0.05
Coyle	Ridgeville_E	4756	SCS25yr	6.76	184.67	185.97		185.97	0.000049	0.23	37.45	49.21	0.07
Coyle	Ridgeville_E	4756	SCS50yr	8.3	184.67	186.01		186.02	0.000063	0.26	39.82	50.21	0.07
Coyle	Ridgeville_E	4756	SCS100yr	9.66	184.67	186.06		186.06	0.000075	0.29	41.99	50.96	0.08
Coyle	Ridgeville_E	4756	SCS200yr	12.08	184.67	186.11		186.11	0.0001	0.34	44.6	51.86	0.09
Coyle	Ridgeville_E	4756	RSnow100yr	6.77	184.67	185.96		185.96	0.00005	0.23	37.27	49.11	0.07
Coyle	Ridgeville_E	4660	SCS2yr	2.93	184.65	185.3		185.31	0.00093	0.58	9.12	40.63	0.25
Coyle	Ridgeville_E	4660	SCS5yr	4.04	184.65	185.81		185.81	0.000055	0.22	36.29	63.3	0.07
Coyle	Ridgeville_E	4660	SCS10yr	5.09	184.65	185.9		185.9	0.000059	0.24	42.02	66.2	0.07
Coyle	Ridgeville_E	4660	SCS25yr	6.76	184.65	185.96		185.96	0.00008	0.29	46.05	68.04	0.08
Coyle	Ridgeville_E	4660	SCS50yr	8.3	184.65	186.01		186.01	0.000101	0.33	49.22	69.47	0.09
Coyle	Ridgeville_E	4660	SCS100yr	9.66	184.65	186.05		186.05	0.000116	0.36	52.15	70.65	0.1
Coyle	Ridgeville_E	4660	SCS200yr	12.08	184.65	186.1		186.1	0.000153	0.43	55.6	72.26	0.12
Coyle	Ridgeville_E	4660	RSnow100yr	6.77	184.65	185.96		185.96	0.000082	0.29	45.78	67.95	0.08
Coyle	Ridgeville_E	4570	SCS2yr	2.93	184.35	185.25		185.26	0.00039	0.45	10.66	37.57	0.17
Coyle	Ridgeville_E	4570	SCS5yr	4.04	184.35	185.81		185.81	0.000034	0.2	37.63	56.73	0.06
Coyle	Ridgeville_E	4570	SCS10yr	5.09	184.35	185.9		185.9	0.000039	0.22	42.75	59.27	0.06
Coyle	Ridgeville_E	4570	SCS25yr	6.76	184.35	185.95		185.96	0.000055	0.27	46.23	60.57	0.07
Coyle	Ridgeville_E	4570	SCS50yr	8.3	184.35	186		186	0.000071	0.31	48.94	61.48	0.08
Coyle	Ridgeville_E	4570	SCS100yr	9.66	184.35	186.04		186.04	0.000084	0.34	51.45	62.32	0.09
Coyle	Ridgeville_E	4570	SCS200yr	12.08	184.35	186.08		186.09	0.000114	0.41	54.3	63.3	0.1
Coyle	Ridgeville_E	4570	RSnow100yr	6.77	184.35	185.95		185.95	0.000057	0.27	45.98	60.5	0.07
Coyle	Ridgeville_E	4472	SCS2yr	2.93	183.85	185.25		185.25	0.000002	0.05	60.27	65.06	0.01
Coyle	Ridgeville_E	4472	SCS5yr	4.04	183.85	185.81		185.81	0.000001	0.05	100.65	79.66	0.01
Coyle	Ridgeville_E	4472	SCS10yr	5.09	183.85	185.9		185.9	0.000002	0.06	107.75	81.71	0.01
Coyle	Ridgeville_E	4472	SCS25yr	6.76	183.85	185.95		185.96	0.000003	0.07	112.57	83.79	0.02
Coyle	Ridgeville_E	4472	SCS50yr	8.3	183.85	186		186	0.000004	0.09	116.36	86.75	0.02
Coyle	Ridgeville_E	4472	SCS100yr	9.66	183.85	186.04		186.04	0.000005	0.1	119.91	89.05	0.02
Coyle	Ridgeville_E	4472	SCS200yr	12.08	183.85	186.09		186.09	0.000007	0.12	124.04	93.14	0.03
Coyle	Ridgeville_E	4472	RSnow100yr	6.77	183.85	185.95		185.95	0.000003	0.07	112.22	83.64	0.02
Coyle	Ridgeville_E	4455	SCS2yr	2.93	183.8	185.25	184.19	185.25	0.000043	0.22	14.28	57.9	0.06
Coyle	Ridgeville_E	4455	SCS5yr	4.04	183.8	185.81	184.24	185.81	0.000009	0.12	51.75	70.57	0.03
Coyle	Ridgeville_E	4455	SCS10yr	5.09	183.8	185.9	184.28	185.9	0.000004	0.08	84.58	73.1	0.02
Coyle	Ridgeville_E	4455	SCS25yr	6.76	183.8	185.95	184.35	185.96	0.000006	0.11	88.99	78.4	0.02
Coyle	Ridgeville_E	4455	SCS50yr	8.3	183.8	186	184.4	186	0.000009	0.13	92.66	85.14	0.03
Coyle	Ridgeville_E	4455	SCS100yr	9.66	183.8	186.04	184.44	186.04	0.000011	0.15	96.14	87.08	0.03
Coyle	Ridgeville_E	4455	SCS200yr	12.08	183.8	186.08	184.51	186.09	0.000015	0.18	100.18	92.1	0.04
Coyle	Ridgeville_E	4455	RSnow100yr	6.77	183.8	185.95	184.35	185.95	0.000006	0.11	88.67	77.79	0.02
Coyle	Ridgeville_E	4443		Culvert									
Coyle	Ridgeville_E	4433	SCS2yr	2.93	183.8	184.57	184.27	184.61	0.001704	0.82	3.56	34.72	0.34
Coyle	Ridgeville_E	4433	SCS5yr	4.04	183.8	184.64	184.34	184.69	0.002269	1.02	3.96	35.94	0.4
Coyle	Ridgeville_E	4433	SCS10yr	5.09	183.8	184.69	184.39	184.76	0.002825	1.19	4.26	37.61	0.45
Coyle	Ridgeville_E	4433	SCS25yr	6.76	183.8	184.75	184.48	184.86	0.003795	1.46	4.62	41.39	0.53
Coyle	Ridgeville_E	4433	SCS50yr	8.3	183.8	184.79	184.56	184.94	0.004796	1.7	4.87	43.46	0.6
Coyle	Ridgeville_E	4433	SCS100yr	9.66	183.8	184.82	184.62	185.01	0.005695	1.91	5.07	45.27	0.66
Coyle	Ridgeville_E	4433	SCS200yr	12.08	183.8	184.86	184.73	185.13	0.007609	2.27	5.31	46.51	0.77
Coyle	Ridgeville_E	4433	RSnow100yr	6.77	183.8	184.75	184.49	184.86	0.003804	1.47	4.62	41.43	0.53
Coyle	Ridgeville_E	4421	SCS2yr	2.93	183.67	184.54	184.32	184.58	0.002343	0.99	5.37	32.35	0.4
Coyle	Ridgeville_E	4421	SCS5yr	4.04	183.67	184.62		184.66	0.002076	1.01	8.28	38.55	0.38
Coyle	Ridgeville_E	4421	SCS10yr	5.09	183.67	184.68		184.71	0.00191	1.02	10.65	40.98	0.37
Coyle	Ridgeville_E	4421	SCS25yr	6.76	183.67	184.76		184.79	0.00177	1.05	13.9	42.9	0.36
Coyle	Ridgeville_E	4421	SCS50yr	8.3	183.67	184.82		184.85	0.00175	1.09	16.46	44.77	0.37
Coyle	Ridgeville_E	4421	SCS100yr	9.66	183.67	184.87		184.9	0.001694	1.11	18.73	46.06	0.36
Coyle	Ridgeville_E	4421	SCS200yr	12.08	183.67	184.94		184.97	0.001692	1.17	22.35	49.06	0.37
Coyle	Ridgeville_E	4421	RSnow100yr	6.77	183.67	184.76		184.79	0.001769	1.05	13.93	42.92	0.36
Coyle	Ridgeville_E	4351	SCS2yr	2.93	183.55	184.23		184.31	0.007068	1.24	2.46	7.42	0.63
Coyle	Ridgeville_E	4351	SCS5yr	4.04	183.55	184.31	184.2	184.41	0.006974	1.39	3.37	14.84	0.65
Coyle	Ridgeville_E	4351	SCS10yr	5.09	183.55	184.37	184.29	184.48	0.00687	1.49	4.33	17.97	0.65
Coyle	Ridgeville_E	4351	SCS25yr	6.76	183.55	184.45	184.39	184.56	0.006689	1.61	5.85	23.41	0.66

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	4351	SCS50yr	8.3	183.55	184.51	184.47	184.63	0.006347	1.67	7.44	28.31	0.65
Coyle	Ridgeville_E	4351	SCS100yr	9.66	183.55	184.55	184.51	184.68	0.00653	1.77	8.74	33.31	0.67
Coyle	Ridgeville_E	4351	SCS200yr	12.08	183.55	184.62	184.6	184.75	0.006673	1.89	11.02	36.97	0.69
Coyle	Ridgeville_E	4351	RSnow100yr	6.77	183.55	184.45	184.39	184.56	0.006687	1.61	5.87	23.46	0.66
Coyle	Ridgeville_E	4270	SCS2yr	2.93	183.14	183.97		184.01	0.002145	0.97	4.13	19.72	0.38
Coyle	Ridgeville_E	4270	SCS5yr	4.04	183.14	184.04		184.09	0.002344	1.09	5.68	23.08	0.41
Coyle	Ridgeville_E	4270	SCS10yr	5.09	183.14	184.1		184.15	0.002465	1.18	7.03	26.02	0.42
Coyle	Ridgeville_E	4270	SCS25yr	6.76	183.14	184.17		184.23	0.002623	1.29	9.19	33.51	0.44
Coyle	Ridgeville_E	4270	SCS50yr	8.3	183.14	184.22		184.29	0.002766	1.38	11.18	39.15	0.46
Coyle	Ridgeville_E	4270	SCS100yr	9.66	183.14	184.26		184.33	0.002814	1.43	12.85	41.62	0.47
Coyle	Ridgeville_E	4270	SCS200yr	12.08	183.14	184.33		184.4	0.002873	1.51	15.6	43.75	0.48
Coyle	Ridgeville_E	4270	RSnow100yr	6.77	183.14	184.17		184.23	0.002625	1.29	9.2	33.54	0.44
Coyle	Ridgeville_E	4189	SCS2yr	2.93	183.03	183.78		183.82	0.002694	0.98	5.31	30.78	0.42
Coyle	Ridgeville_E	4189	SCS5yr	4.04	183.03	183.83		183.87	0.003051	1.1	6.95	33.63	0.45
Coyle	Ridgeville_E	4189	SCS10yr	5.09	183.03	183.87		183.92	0.003287	1.2	8.41	36.78	0.47
Coyle	Ridgeville_E	4189	SCS25yr	6.76	183.03	183.93		183.98	0.00347	1.3	10.64	40.15	0.49
Coyle	Ridgeville_E	4189	SCS50yr	8.3	183.03	183.97		184.03	0.003579	1.38	12.52	42.34	0.5
Coyle	Ridgeville_E	4189	SCS100yr	9.66	183.03	184.01		184.07	0.003624	1.43	14.14	44.09	0.51
Coyle	Ridgeville_E	4189	SCS200yr	12.08	183.03	184.07		184.13	0.003686	1.51	16.81	46.48	0.52
Coyle	Ridgeville_E	4189	RSnow100yr	6.77	183.03	183.93		183.98	0.003471	1.3	10.66	40.16	0.49
Coyle	Ridgeville_E	4092	SCS2yr	2.93	183.36	183.53		183.56	0.00258	0.21	6.36	45.69	0.21
Coyle	Ridgeville_E	4092	SCS5yr	4.04	183.36	183.6		183.61	0.002243	0.27	9.34	51.2	0.21
Coyle	Ridgeville_E	4092	SCS10yr	5.09	183.36	183.64		183.66	0.002112	0.31	11.73	53.83	0.21
Coyle	Ridgeville_E	4092	SCS25yr	6.76	183.36	183.7		183.71	0.002113	0.36	14.8	57	0.22
Coyle	Ridgeville_E	4092	SCS50yr	8.3	183.36	183.74		183.76	0.002097	0.4	17.41	59.24	0.23
Coyle	Ridgeville_E	4092	SCS100yr	9.66	183.36	183.78		183.79	0.002086	0.43	19.72	62.21	0.23
Coyle	Ridgeville_E	4092	SCS200yr	12.08	183.36	183.84		183.86	0.002048	0.47	23.57	65.7	0.23
Coyle	Ridgeville_E	4092	RSnow100yr	6.77	183.36	183.7		183.71	0.002114	0.36	14.82	57.03	0.22
Coyle	Ridgeville_E	4008	SCS2yr	2.93	182.5	183.26	183.04	183.31	0.002846	1.03	4.38	29.09	0.43
Coyle	Ridgeville_E	4008	SCS5yr	4.04	182.5	183.33		183.38	0.002915	1.12	6.7	38.94	0.45
Coyle	Ridgeville_E	4008	SCS10yr	5.09	182.5	183.38		183.43	0.002882	1.17	8.87	46.53	0.45
Coyle	Ridgeville_E	4008	SCS25yr	6.76	182.5	183.44		183.49	0.002749	1.22	12.06	51.03	0.44
Coyle	Ridgeville_E	4008	SCS50yr	8.3	182.5	183.49		183.54	0.002672	1.25	14.7	54.04	0.44
Coyle	Ridgeville_E	4008	SCS100yr	9.66	182.5	183.53		183.58	0.002643	1.29	16.92	57.11	0.44
Coyle	Ridgeville_E	4008	SCS200yr	12.08	182.5	183.61		183.65	0.002479	1.31	21.22	63.89	0.44
Coyle	Ridgeville_E	4008	RSnow100yr	6.77	182.5	183.44		183.49	0.002746	1.22	12.09	51.05	0.44
Coyle	Ridgeville_E	3917	SCS2yr	2.93	182.4	183.12		183.14	0.001254	0.65	9.23	43.1	0.28
Coyle	Ridgeville_E	3917	SCS5yr	4.04	182.4	183.21		183.22	0.001076	0.66	13.1	52.42	0.27
Coyle	Ridgeville_E	3917	SCS10yr	5.09	182.4	183.26		183.27	0.001077	0.7	15.82	55.95	0.27
Coyle	Ridgeville_E	3917	SCS25yr	6.76	182.4	183.31		183.32	0.00125	0.79	18.76	61.71	0.3
Coyle	Ridgeville_E	3917	SCS50yr	8.3	182.4	183.35		183.37	0.001306	0.84	21.81	74.01	0.31
Coyle	Ridgeville_E	3917	SCS100yr	9.66	182.4	183.39		183.4	0.001384	0.89	24.51	85.72	0.32
Coyle	Ridgeville_E	3917	SCS200yr	12.08	182.4	183.43		183.46	0.001733	1.04	29.17	97.31	0.36
Coyle	Ridgeville_E	3917	RSnow100yr	6.77	182.4	183.31		183.32	0.001241	0.79	18.84	61.82	0.3
Coyle	Ridgeville_E	3819	SCS2yr	2.93	182.15	183.09	182.72	183.09	0.000206	0.32	18.86	54.38	0.12
Coyle	Ridgeville_E	3819	SCS5yr	4.04	182.15	183.16	182.77	183.17	0.000274	0.39	23.67	74.46	0.14
Coyle	Ridgeville_E	3819	SCS10yr	5.09	182.15	183.21	182.8	183.21	0.000301	0.42	27.44	92.72	0.15
Coyle	Ridgeville_E	3819	SCS25yr	6.76	182.15	183.24	182.84	183.25	0.000436	0.52	30.87	114.76	0.18
Coyle	Ridgeville_E	3819	SCS50yr	8.3	182.15	183.27	182.88	183.28	0.000608	0.63	34.23	119.01	0.21
Coyle	Ridgeville_E	3819	SCS100yr	9.66	182.15	183.3	182.91	183.31	0.000658	0.67	37.66	123.48	0.22
Coyle	Ridgeville_E	3819	SCS200yr	12.08	182.15	183.32	182.94	183.33	0.000878	0.79	40.59	129.69	0.26
Coyle	Ridgeville_E	3819	RSnow100yr	6.77	182.15	183.25	182.84	183.25	0.000431	0.52	31.08	115.58	0.18
Coyle	Ridgeville_E	3774	SCS2yr	2.93	181.68	183.09	182.36	183.09	0.00003	0.15	43.51	123.07	0.05
Coyle	Ridgeville_E	3774	SCS5yr	4.04	181.68	183.16	182.45	183.16	0.000033	0.17	53.07	138.81	0.05
Coyle	Ridgeville_E	3774	SCS10yr	5.09	181.68	183.21	182.52	183.21	0.000037	0.18	60.25	178.98	0.06
Coyle	Ridgeville_E	3774	SCS25yr	6.76	181.68	183.24	182.68	183.24	0.000054	0.22	66.43	198.75	0.07
Coyle	Ridgeville_E	3774	SCS50yr	8.3	181.68	183.27	182.73	183.27	0.000065	0.25	72.25	208.05	0.07
Coyle	Ridgeville_E	3774	SCS100yr	9.66	181.68	183.3	182.76	183.3	0.000073	0.27	78.26	222.09	0.08
Coyle	Ridgeville_E	3774	SCS200yr	12.08	181.68	183.32	182.8	183.32	0.000096	0.31	83.23	225.34	0.09
Coyle	Ridgeville_E	3774	RSnow100yr	6.77	181.68	183.24	182.68	183.24	0.000054	0.22	66.8	199.57	0.07
Coyle	Ridgeville_E	3760		Culvert									
Coyle	Ridgeville_E	3747	SCS2yr	2.93	181.56	182.57	182.28	182.63	0.002864	1.1	3.06	50.42	0.42
Coyle	Ridgeville_E	3747	SCS5yr	4.04	181.56	182.63	182.38	182.72	0.003655	1.33	3.74	60.35	0.49
Coyle	Ridgeville_E	3747	SCS10yr	5.09	181.56	182.69	182.47	182.79	0.004193	1.49	4.32	69.29	0.53
Coyle	Ridgeville_E	3747	SCS25yr	6.76	181.56	182.78	182.65	182.91	0.00462	1.68	5.23	79.53	0.56
Coyle	Ridgeville_E	3747	SCS50yr	8.3	181.56	182.87	182.72	183	0.004734	1.81	6.05	128.06	0.58
Coyle	Ridgeville_E	3747	SCS100yr	9.66	181.56	182.94	182.78	183.09	0.004565	1.87	6.84	154.66	0.58
Coyle	Ridgeville_E	3747	SCS200yr	12.08	181.56	183.11	182.87	183.12	0.000204	0.43	70.59	180.7	0.12
Coyle	Ridgeville_E	3747	RSnow100yr	6.77	181.56	182.78	182.65	182.91	0.004617	1.68	5.24	79.6	0.56
Coyle	Ridgeville_E	3725	SCS2yr	2.93	181.91	182.57	182.52	182.57	0.00065	0.4	14.39	62.31	0.2
Coyle	Ridgeville_E	3725	SCS5yr	4.04	181.91	182.65	182.55	182.66	0.000525	0.41	19.75	67.1	0.18
Coyle	Ridgeville_E	3725	SCS10yr	5.09	181.91	182.72	182.55	182.73	0.000443	0.41	24.51	70.64	0.17
Coyle	Ridgeville_E	3725	SCS25yr	6.76	181.91	182.83	182.55	182.83	0.000359	0.41	32.26	79.4	0.16
Coyle	Ridgeville_E	3725	SCS50yr	8.3	181.91	182.92	182.55	182.92	0.000325	0.42	39.96	102.33	0.15
Coyle	Ridgeville_E	3725	SCS100yr	9.66	181.91	183	182.55	183	0.000359	0.48	49.91	139.44	0.16
Coyle	Ridgeville_E	3725	SCS200yr	12.08	181.91	183.11	182.55	183.11	0.000243	0.43	65.61	143.2	0.14
Coyle	Ridgeville_E	3725	RSnow100yr	6.77	181.91	182.83	182.55	182.83	0.000358	0.41	32.33	79.45	0.16
Coyle	Ridgeville_E	3668	SCS2yr	2.93	181.78	182.34	182.34	182.47	0.018823	1.61	1.83	7.15	0.98
Coyle	Ridgeville_E	3668	SCS5yr	4.04	181.78	182.4	182.4	182.56	0.017239	1.78	2.32	7.68	0.98
Coyle	Ridgeville_E	3668	SCS10yr	5.09	181.78	182.46	182.46	182.64	0.015779	1.89	2.79	8.17	0.96
Coyle	Ridgeville_E	3668	SCS25yr	6.76	181.78	182.54	182.54	182.76	0.014589	2.06	3.49	8.96	0.95
Coyle	Ridgeville_E	3668	SCS50yr	8.3	181.78	182.61	182.61	182.85	0.013761	2.19	4.12	9.58	0.95
Coyle	Ridgeville_E	3668	SCS100yr	9.66	181.78	182.66	182.66	182.92	0.013529	2.3	4.64	10.34	0.95
Coyle	Ridgeville_E	3668	SCS200yr	12.08	181.78	182.74	182.74	183.04	0.013472	2.5	5.52	12.77	0.97
Coyle	Ridgeville_E	3668	RSnow100yr	6.77	181.78	182.54	182.54	182.76	0.014756	2.07	3.48	8.95	0.96
Coyle	Ridgeville_E	3607	SCS2yr	2.93	181.53	182.17	182.03	182.19	0.001782	0.64	7.53	34.87	0.32
Coyle	Ridgeville_E	3607	SCS5yr	4.04	181.53	182.28	182.07	182.29	0.001098	0.59	11.47	37.96	0.27
Coyle	Ridgeville_E	3607	SCS10yr	5.09	181.53	182.22	182.1	182.25	0.00312	0.91	9.27	36.35	0.44
Coyle	Ridgeville_E	3607	SCS25yr	6.76	181.53	182.27	182.14	182.31	0.003213	1	11.29	37.83	0.45
Coyle	Ridgeville_E	3607	SCS50yr	8.3	181.53	182.32	182.18	182.36	0.003365	1.08	13.09	41.32	0.47
Coyle	Ridgeville_E	3607	SCS100yr	9.66	181.53	182.36	182.21	182.4	0.003632	1.18	14.81	49.29	0.49
Coyle	Ridgeville_E	3607	SCS200yr	12.08	181.53	182.42	182.24	182.46	0.003644	1.26	17.97	55.39	0.5
Coyle	Ridgeville_E	3607	RSnow100yr	6.77	181.53	182.28	182.14	182.31	0.003211	1	11.31	37.84	0.45
Coyle	Ridgeville_E	3551	SCS2yr	2.93	181.51	182.14	181.81	182.14	0.000423	0.37	14.7	52.41	0.17
Coyle	Ridgeville_E	3551	SCS5yr	4.04	181.51	182.26	181.86	182.26	0.000286	0.35	21.32	57.5	0.14
Coyle	Ridgeville_E	3551	SCS10yr	5.09	181.51	182.08	181.89	182.1	0.002219	0.79	11.98	50.66	0.37
Coyle	Ridgeville_E	3551	SCS25yr	6.76	181.51	182.14	181.94	182.15	0.002215	0.85	14.79	52.47	0.38
Coyle	Ridgeville_E	3551	SCS50yr	8.3	181.51	182.18	181.98	182.2	0.002227	0.9	17.1	53.97	0.38
Coyle	Ridgeville_E	3551	SCS100yr	9.66	181.51	182.22	181.98	182.24	0.002188	0.93	19.2	55.75	0.39
Coyle	Ridgeville_E	3551	SCS200yr	12.08	181.51	182.28	182.05	182.3	0.00208	0.97	22.92	58.26	0.38
Coyle	Ridgeville_E	3551	RSnow100yr	6.77	181.51	182.14	181.94	182.15	0.002222	0.85	14.79	52.47	0.38
Coyle	Ridgeville_E	3470	SCS2yr	2.93	181.2	181.81	181.81	182.02	0.016185	2	1.49	3.98	0.97

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	3470	SCS5yr	4.04	181.2	181.9	181.9	182.16	0.016133	2.27	1.87	5.33	1
Coyle	Ridgeville_E	3470	SCS10yr	5.09	181.2	181.93	181.93	181.94	0.001685	0.76	14.77	59.1	0.33
Coyle	Ridgeville_E	3470	SCS25yr	6.76	181.2	181.97	181.93	181.98	0.00206	0.87	16.93	60.85	0.37
Coyle	Ridgeville_E	3470	SCS50yr	8.3	181.2	182.03	181.93	182.04	0.001716	0.85	20.66	62.11	0.34
Coyle	Ridgeville_E	3470	SCS100yr	9.66	181.2	182.08	181.93	182.09	0.0015	0.84	23.88	63.09	0.32
Coyle	Ridgeville_E	3470	SCS200yr	12.08	181.2	182.16	181.93	182.17	0.001303	0.84	29.17	69.49	0.3
Coyle	Ridgeville_E	3470	RSnow100yr	6.77	181.2	181.95	181.93	181.97	0.002352	0.92	16.08	60.35	0.39
Coyle	Ridgeville_E	3383	SCS2yr	4.86	180.85	181.66	181.55	181.71	0.003974	1.26	9.31	55.74	0.51
Coyle	Ridgeville_E	3383	SCS5yr	6.81	180.85	181.68	181.65	181.7	0.001731	0.85	21.16	110.32	0.34
Coyle	Ridgeville_E	3383	SCS10yr	8.63	180.85	181.75	181.55	181.76	0.001252	0.77	29.17	124.58	0.29
Coyle	Ridgeville_E	3383	SCS25yr	11.53	180.85	181.89	181.55	181.9	0.000622	0.62	48.51	144.35	0.21
Coyle	Ridgeville_E	3383	SCS50yr	14.16	180.85	181.97	181.68	181.97	0.000522	0.6	59.24	151.13	0.2
Coyle	Ridgeville_E	3383	SCS100yr	16.51	180.85	182.03	181.68	182.03	0.000467	0.59	68.15	153.41	0.19
Coyle	Ridgeville_E	3383	SCS200yr	20.63	180.85	182.11	181.71	182.12	0.000426	0.59	81.39	157.48	0.18
Coyle	Ridgeville_E	3383	RSnow100yr	11.27	180.85	181.88	181.55	181.88	0.000634	0.61	46.05	142.93	0.22
Coyle	Ridgeville_E	3279	SCS2yr	4.86	180.69	181.42	181.36	181.43	0.001785	0.75	12.41	43.59	0.34
Coyle	Ridgeville_E	3279	SCS5yr	6.81	180.69	181.52	181.36	181.53	0.001451	0.76	16.79	45.35	0.31
Coyle	Ridgeville_E	3279	SCS10yr	8.63	180.69	181.63	181.36	181.64	0.001051	0.72	21.91	47.36	0.27
Coyle	Ridgeville_E	3279	SCS25yr	11.53	180.69	181.82	181.37	181.83	0.000655	0.67	31.57	52.44	0.22
Coyle	Ridgeville_E	3279	SCS50yr	14.16	180.69	181.9	181.41	181.91	0.000707	0.73	35.56	55.6	0.24
Coyle	Ridgeville_E	3279	SCS100yr	16.51	180.69	181.96	181.44	181.97	0.000743	0.78	39.14	65.74	0.24
Coyle	Ridgeville_E	3279	SCS200yr	20.63	180.69	182.04	181.48	182.05	0.000829	0.87	45.03	76.51	0.26
Coyle	Ridgeville_E	3279	RSnow100yr	11.27	180.69	181.8	181.37	181.81	0.000684	0.68	30.59	51.92	0.23
Coyle	Ridgeville_E	3189	SCS2yr	4.86	180.48	181.29	181.16	181.3	0.001264	0.72	13.76	51.66	0.29
Coyle	Ridgeville_E	3189	SCS5yr	6.81	180.48	181.43	181.16	181.44	0.000725	0.63	22.58	66.01	0.23
Coyle	Ridgeville_E	3189	SCS10yr	8.63	180.48	181.57	181.16	181.58	0.000442	0.55	32.76	76.77	0.18
Coyle	Ridgeville_E	3189	SCS25yr	11.53	180.48	181.79	181.21	181.8	0.000232	0.46	52.91	111.59	0.14
Coyle	Ridgeville_E	3189	SCS50yr	14.16	180.48	181.87	181.26	181.87	0.000244	0.49	61.92	138.66	0.14
Coyle	Ridgeville_E	3189	SCS100yr	16.51	180.48	181.92	181.29	181.93	0.000283	0.54	71.55	208.19	0.15
Coyle	Ridgeville_E	3189	SCS200yr	20.63	180.48	182.01	181.34	182.01	0.000277	0.56	91.69	270.36	0.15
Coyle	Ridgeville_E	3189	RSnow100yr	11.27	180.48	181.77	181.21	181.78	0.000246	0.47	50.65	106.93	0.14
Coyle	Ridgeville_E	3132	SCS2yr	4.86	180.42	181.25	181.08	181.26	0.00034	0.36	10.29	43.52	0.15
Coyle	Ridgeville_E	3132	SCS5yr	6.81	180.42	181.41	181.1	181.42	0.000157	0.29	19.5	62.07	0.1
Coyle	Ridgeville_E	3132	SCS10yr	8.63	180.42	181.56	181.13	181.57	0.000093	0.25	30.78	92.56	0.08
Coyle	Ridgeville_E	3132	SCS25yr	11.53	180.42	181.79	181.18	181.79	0.000052	0.22	71.88	304.56	0.06
Coyle	Ridgeville_E	3132	SCS50yr	14.16	180.42	181.86	181.24	181.87	0.000058	0.24	97.33	377.42	0.07
Coyle	Ridgeville_E	3132	SCS100yr	16.51	180.42	181.92	181.25	181.92	0.000057	0.24	119.25	400.16	0.07
Coyle	Ridgeville_E	3132	SCS200yr	20.63	180.42	182	181.35	182	0.00005	0.24	154.41	433.16	0.07
Coyle	Ridgeville_E	3132	RSnow100yr	11.27	180.42	181.77	181.18	181.77	0.000057	0.22	65.62	277.83	0.07
Coyle	Ridgeville_E	3069	SCS2yr	4.86	180.28	180.94	180.91	181.15	0.012364	2.02	2.46	6.37	0.89
Coyle	Ridgeville_E	3069	SCS5yr	6.81	180.28	181.07	181.04	181.32	0.011499	2.25	3.17	24.11	0.89
Coyle	Ridgeville_E	3069	SCS10yr	8.63	180.28	181.27	181.14	181.49	0.007046	2.11	4.41	105.2	0.73
Coyle	Ridgeville_E	3069	SCS25yr	11.53	180.28	181.47	181.28	181.71	0.005912	2.23	5.71	334.73	0.69
Coyle	Ridgeville_E	3069	SCS50yr	14.16	180.28	181.86	181.4	181.86	0.000002	0.05	241.19	489.49	0.01
Coyle	Ridgeville_E	3069	SCS100yr	16.51	180.28	181.92	181.52	181.92	0.000002	0.05	268.53	489.49	0.01
Coyle	Ridgeville_E	3069	SCS200yr	20.63	180.28	182	181.73	182	0.000002	0.05	309.8	489.49	0.01
Coyle	Ridgeville_E	3069	RSnow100yr	11.27	180.28	181.45	181.27	181.69	0.006133	2.24	5.54	320.34	0.7
Coyle	Ridgeville_E	3061		Culvert									
Coyle	Ridgeville_E	3052	SCS2yr	4.86	179.92	181.03	180.76	181.09	0.00087	0.72	5.14	40.38	0.25
Coyle	Ridgeville_E	3052	SCS5yr	6.81	179.92	181.14	180.86	181.22	0.000901	0.79	6.14	49.1	0.26
Coyle	Ridgeville_E	3052	SCS10yr	8.63	179.92	181.22	180.93	181.33	0.000931	0.85	6.93	56.14	0.26
Coyle	Ridgeville_E	3052	SCS25yr	11.53	179.92	181.26	181.04	181.43	0.001367	1.05	7.31	71.03	0.32
Coyle	Ridgeville_E	3052	SCS50yr	14.16	179.92	181.29	181.13	181.52	0.001849	1.24	7.54	77.22	0.37
Coyle	Ridgeville_E	3052	SCS100yr	16.51	179.92	181.3	181.21	181.61	0.002405	1.42	7.63	78.7	0.43
Coyle	Ridgeville_E	3052	SCS200yr	20.63	179.92	181.44	181.34	181.8	0.002091	1.44	8.98	88.11	0.41
Coyle	Ridgeville_E	3052	RSnow100yr	11.27	179.92	181.26	181.03	181.42	0.001332	1.03	7.27	69.89	0.32
Coyle	Ridgeville_E	3035	SCS2yr	4.86	180.2	181.05		181.05	0.00033	0.4	19.61	70.55	0.15
Coyle	Ridgeville_E	3035	SCS5yr	6.81	180.2	181.17		181.17	0.000213	0.36	29.04	81.71	0.13
Coyle	Ridgeville_E	3035	SCS10yr	8.63	180.2	181.27		181.27	0.000163	0.34	37.05	84.92	0.11
Coyle	Ridgeville_E	3035	SCS25yr	11.53	180.2	181.34		181.34	0.000182	0.38	43.37	94.69	0.12
Coyle	Ridgeville_E	3035	SCS50yr	14.16	180.2	181.4		181.4	0.000194	0.4	49.04	104.05	0.13
Coyle	Ridgeville_E	3035	SCS100yr	16.51	180.2	181.44		181.45	0.000205	0.43	54.17	108.83	0.13
Coyle	Ridgeville_E	3035	SCS200yr	20.63	180.2	181.61		181.62	0.000138	0.39	73.99	133.2	0.11
Coyle	Ridgeville_E	3035	RSnow100yr	11.27	180.2	181.33		181.34	0.000182	0.38	42.71	93.51	0.12
Coyle	Ridgeville_E	2979	SCS2yr	4.86	180.17	181.02		181.03	0.000765	0.58	19.53	58.76	0.23
Coyle	Ridgeville_E	2979	SCS5yr	6.81	180.17	181.15		181.16	0.000583	0.57	27.43	62.9	0.21
Coyle	Ridgeville_E	2979	SCS10yr	8.63	180.17	181.25		181.26	0.000509	0.58	33.84	65.29	0.2
Coyle	Ridgeville_E	2979	SCS25yr	11.53	180.17	181.32		181.33	0.000631	0.67	38.27	66.5	0.22
Coyle	Ridgeville_E	2979	SCS50yr	14.16	180.17	181.37		181.38	0.000734	0.75	41.94	68.18	0.24
Coyle	Ridgeville_E	2979	SCS100yr	16.51	180.17	181.42		181.43	0.000825	0.82	45.08	70.72	0.26
Coyle	Ridgeville_E	2979	SCS200yr	20.63	180.17	181.59		181.6	0.000673	0.82	59.15	92.5	0.24
Coyle	Ridgeville_E	2979	RSnow100yr	11.27	180.17	181.31		181.32	0.000624	0.67	37.82	66.33	0.22
Coyle	Ridgeville_E	2905	SCS2yr	4.86	180.07	180.66	180.65	180.86	0.014993	1.97	2.51	6.62	0.95
Coyle	Ridgeville_E	2905	SCS5yr	6.81	180.07	180.76	180.76	181.01	0.014269	2.21	3.26	8.14	0.96
Coyle	Ridgeville_E	2905	SCS10yr	8.63	180.07	180.9	180.9	181.13	0.010333	2.18	4.93	23.95	0.85
Coyle	Ridgeville_E	2905	SCS25yr	11.53	180.07	181.08	181.08	181.21	0.005352	1.84	13.26	70.16	0.64
Coyle	Ridgeville_E	2905	SCS50yr	14.16	180.07	181.15	181.15	181.26	0.004648	1.81	19.02	87.19	0.6
Coyle	Ridgeville_E	2905	SCS100yr	16.51	180.07	181.18	181.18	181.3	0.004761	1.87	22.15	88.43	0.61
Coyle	Ridgeville_E	2905	SCS200yr	20.63	180.07	181.11	181.11	181.44	0.013093	2.96	16.14	83.36	1
Coyle	Ridgeville_E	2905	RSnow100yr	11.27	180.07	181.07	181.07	181.2	0.005475	1.84	12.6	64.57	0.64
Coyle	Ridgeville_E	2802	SCS2yr	4.86	179.62	180.43		180.45	0.001472	0.8	14.3	52.08	0.32
Coyle	Ridgeville_E	2802	SCS5yr	6.81	179.62	180.51		180.53	0.001586	0.9	18.87	67.03	0.34
Coyle	Ridgeville_E	2802	SCS10yr	8.63	179.62	180.56		180.59	0.001701	0.97	22.75	78.45	0.36
Coyle	Ridgeville_E	2802	SCS25yr	11.53	179.62	180.64		180.66	0.001819	1.07	29.17	101.32	0.37
Coyle	Ridgeville_E	2802	SCS50yr	14.16	179.62	180.69		180.72	0.001928	1.15	35.12	129.11	0.39
Coyle	Ridgeville_E	2802	SCS100yr	16.51	179.62	180.73		180.76	0.001904	1.18	40.98	140.39	0.39
Coyle	Ridgeville_E	2802	SCS200yr	20.63	179.62	180.8	180.55	180.82	0.001837	1.21	50.57	151.48	0.39
Coyle	Ridgeville_E	2802	RSnow100yr	11.27	179.62	180.63		180.66	0.001809	1.06	28.61	98.2	0.37
Coyle	Ridgeville_E	2728	SCS2yr	4.86	179.52	180.13	180.13	180.21	0.010693	1.45	7.13	49.85	0.78
Coyle	Ridgeville_E	2728	SCS5yr	6.81	179.52	180.17	180.17	180.26	0.011707	1.64	9.28	53.71	0.83
Coyle	Ridgeville_E	2728	SCS10yr	8.63	179.52	180.21	180.21	180.3	0.011761	1.75	11.41	59.73	0.85
Coyle	Ridgeville_E	2728	SCS25yr	11.53	179.52	180.26	180.26	180.36	0.012428	1.92	14.37	65.15	0.89
Coyle	Ridgeville_E	2728	SCS50yr	14.16	179.52	180.3	180.3	180.41	0.012256	2.01	17	67.26	0.89
Coyle	Ridgeville_E	2728	SCS100yr	16.51	179.52	180.32	180.32	180.44	0.013511	2.17	18.41	67.97	0.95
Coyle	Ridgeville_E	2728	SCS200yr	20.63	179.52	180.35	180.35	180.5	0.015532	2.42	20.7	70.12	1.02
Coyle	Ridgeville_E	2728	RSnow100yr	11.27	179.52	180.25	180.25	180.36	0.012443	1.91	14.1	64.91	0.89
Coyle	Ridgeville_E	2645	SCS2yr	4.86	179.18	179.74		179.75	0.001339	0.56	14.26	49.14	0.28
Coyle	Ridgeville_E	2645	SCS5yr	6.81	179.18	179.82		179.83	0.00127	0.62	18.19	51.22	0.29
Coyle	Ridgeville_E	2645	SCS10yr	8.63	179.18	179.88		179.89	0.001238	0.66	21.56	57.18	0.29
Coyle	Ridgeville_E	2645	SCS25yr	11.53	179.18	179.93		179.95	0.001512	0.78	24.74	62.78	0.32
Coyle	Ridgeville_E	2645	SCS50yr	14.16	179.18	180		180.01	0.001494	0.83	29.02	68.13	0.33
Coyle	Ridgeville_E	2645	SCS100yr	16.51	179.18	180.06		180.08	0.001359	0.85	33.77	73.51	0.32
Coyle	Ridgeville_E	2645	SCS200yr	20.63	179.18	180.24		180.26	0.00085	0.77	48.46	93.13	0.26

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	2645	RSnow100yr	11.27	179.18	179.92		179.94	0.001518	0.78	24.29	62.3	0.32
Coyle	Ridgeville_E	2568	SCS2yr	4.86	178.83	179.55	179.41	179.59	0.003028	0.99	7.42	28.49	0.44
Coyle	Ridgeville_E	2568	SCS5yr	6.81	178.83	179.62	179.5	179.67	0.00345	1.15	9.3	30.3	0.48
Coyle	Ridgeville_E	2568	SCS10yr	8.63	178.83	179.67	179.54	179.73	0.003711	1.26	10.96	32.38	0.51
Coyle	Ridgeville_E	2568	SCS25yr	11.53	178.83	179.74	179.59	179.78	0.003034	1.22	17.79	60.99	0.47
Coyle	Ridgeville_E	2568	SCS50yr	14.16	178.83	179.82	179.64	179.86	0.002716	1.24	22.78	67.8	0.45
Coyle	Ridgeville_E	2568	SCS100yr	16.51	178.83	179.93	179.71	179.96	0.00173	1.09	31.1	76.08	0.37
Coyle	Ridgeville_E	2568	SCS200yr	20.63	178.83	180.18	179.73	180.19	0.000807	0.87	54.6	131.31	0.26
Coyle	Ridgeville_E	2568	RSnow100yr	11.27	178.83	179.73	179.59	179.78	0.003023	1.21	17.38	58.91	0.47
Coyle	Ridgeville_E	2477	SCS2yr	4.86	178.74	179.39	179.22	179.41	0.00138	0.72	12.71	49.61	0.3
Coyle	Ridgeville_E	2477	SCS5yr	6.81	178.74	179.45	179.28	179.47	0.001421	0.78	18.23	74.11	0.31
Coyle	Ridgeville_E	2477	SCS10yr	8.63	178.74	179.5	179.32	179.52	0.001465	0.84	21.97	77.48	0.32
Coyle	Ridgeville_E	2477	SCS25yr	11.53	178.74	179.57	179.36	179.59	0.001492	0.9	27.38	80.69	0.33
Coyle	Ridgeville_E	2477	SCS50yr	14.16	178.74	179.71	179.41	179.72	0.000858	0.77	39.2	86.64	0.26
Coyle	Ridgeville_E	2477	SCS100yr	16.51	178.74	179.87	179.43	179.88	0.000506	0.66	53.82	97.16	0.2
Coyle	Ridgeville_E	2477	SCS200yr	20.63	178.74	180.14	179.48	180.15	0.000271	0.56	85.74	136.16	0.16
Coyle	Ridgeville_E	2477	RSnow100yr	11.27	178.74	179.56	179.36	179.58	0.001492	0.9	26.91	80.42	0.33
Coyle	Ridgeville_E	2389	SCS2yr	4.86	178.37	179.18	179.13	179.23	0.003607	1.21	10.79	65.79	0.49
Coyle	Ridgeville_E	2389	SCS5yr	6.81	178.37	179.25		179.29	0.003389	1.25	15.32	67.81	0.48
Coyle	Ridgeville_E	2389	SCS10yr	8.63	178.37	179.3		179.34	0.003349	1.3	18.76	69.03	0.48
Coyle	Ridgeville_E	2389	SCS25yr	11.53	178.37	179.37		179.41	0.003181	1.36	23.97	70.59	0.48
Coyle	Ridgeville_E	2389	SCS50yr	14.16	178.37	179.64		179.65	0.000884	0.86	44.31	80.31	0.27
Coyle	Ridgeville_E	2389	SCS100yr	16.51	178.37	179.83		179.84	0.000494	0.72	61.54	110.35	0.2
Coyle	Ridgeville_E	2389	SCS200yr	20.63	178.37	180.13		180.13	0.000218	0.55	105.82	200.48	0.14
Coyle	Ridgeville_E	2389	RSnow100yr	11.27	178.37	179.36		179.41	0.003251	1.36	23.36	70.33	0.48
Coyle	Ridgeville_E	2326	SCS2yr	4.86	178.23	179.01		179.04	0.003006	1.02	10.42	51.3	0.44
Coyle	Ridgeville_E	2326	SCS5yr	6.81	178.23	179.09		179.12	0.002935	1.11	14.95	63.47	0.45
Coyle	Ridgeville_E	2326	SCS10yr	8.63	178.23	179.14		179.17	0.002862	1.15	18.54	68.36	0.45
Coyle	Ridgeville_E	2326	SCS25yr	11.53	178.23	179.25		179.28	0.002065	1.09	26.7	76.77	0.39
Coyle	Ridgeville_E	2326	SCS50yr	14.16	178.23	179.62		179.62	0.000365	0.59	58.29	94.38	0.18
Coyle	Ridgeville_E	2326	SCS100yr	16.51	178.23	179.82		179.82	0.000218	0.51	77.87	102.65	0.14
Coyle	Ridgeville_E	2326	SCS200yr	20.63	178.23	180.12		180.12	0.000123	0.43	112.17	129.66	0.11
Coyle	Ridgeville_E	2326	RSnow100yr	11.27	178.23	179.23		179.26	0.002343	1.14	25.02	75.95	0.41
Coyle	Ridgeville_E	2257	SCS2yr	4.86	177.98	178.86		178.89	0.001679	0.8	9.33	57.13	0.34
Coyle	Ridgeville_E	2257	SCS5yr	6.81	177.98	178.94		178.97	0.001858	0.91	13.97	67.95	0.36
Coyle	Ridgeville_E	2257	SCS10yr	8.63	177.98	178.99		179.03	0.001896	0.97	17.79	69.57	0.37
Coyle	Ridgeville_E	2257	SCS25yr	11.53	177.98	179.17		179.19	0.000985	0.82	30.87	74.88	0.28
Coyle	Ridgeville_E	2257	SCS50yr	14.16	177.98	179.6		179.61	0.000201	0.48	65.94	87.62	0.13
Coyle	Ridgeville_E	2257	SCS100yr	16.51	177.98	179.81		179.81	0.000137	0.44	84.34	93.49	0.11
Coyle	Ridgeville_E	2257	SCS200yr	20.63	177.98	180.11		180.12	0.000091	0.4	114.86	118.03	0.09
Coyle	Ridgeville_E	2257	RSnow100yr	11.27	177.98	179.13		179.16	0.001188	0.87	28.05	73.93	0.3
Coyle	Ridgeville_E	2179	SCS2yr	4.86	177.94	178.77		178.79	0.001246	0.68	13.61	54.59	0.29
Coyle	Ridgeville_E	2179	SCS5yr	6.81	177.94	178.84		178.86	0.001329	0.76	17.43	57.43	0.31
Coyle	Ridgeville_E	2179	SCS10yr	8.63	177.94	178.9		178.92	0.001347	0.81	20.78	59.27	0.31
Coyle	Ridgeville_E	2179	SCS25yr	11.53	177.94	179.14		179.15	0.000552	0.63	35.62	66.14	0.21
Coyle	Ridgeville_E	2179	SCS50yr	14.16	177.94	179.59		179.6	0.000131	0.4	68.26	78.05	0.11
Coyle	Ridgeville_E	2179	SCS100yr	16.51	177.94	179.8		179.8	0.000097	0.38	85	83.63	0.1
Coyle	Ridgeville_E	2179	SCS200yr	20.63	177.94	180.11		180.11	0.000073	0.37	116.2	145.95	0.09
Coyle	Ridgeville_E	2179	RSnow100yr	11.27	177.94	179.09		179.1	0.000681	0.68	32.54	65.29	0.23
Coyle	Ridgeville_E	2114	SCS2yr	4.86	177.83	178.62		178.67	0.003722	1.08	7.98	48.19	0.49
Coyle	Ridgeville_E	2114	SCS5yr	6.81	177.83	178.7		178.74	0.003287	1.12	12.08	54.66	0.47
Coyle	Ridgeville_E	2114	SCS10yr	8.63	177.83	178.78		178.81	0.002593	1.08	16.63	60.42	0.43
Coyle	Ridgeville_E	2114	SCS25yr	11.53	177.83	179.11		179.12	0.000526	0.64	38.27	69.95	0.21
Coyle	Ridgeville_E	2114	SCS50yr	14.16	177.83	179.59		179.59	0.000121	0.4	75.48	111.81	0.11
Coyle	Ridgeville_E	2114	SCS100yr	16.51	177.83	179.8		179.8	0.000094	0.38	94	124.75	0.09
Coyle	Ridgeville_E	2114	SCS200yr	20.63	177.83	180.11		180.11	0.000069	0.37	125.85	149.07	0.08
Coyle	Ridgeville_E	2114	RSnow100yr	11.27	177.83	179.05		179.06	0.000674	0.7	34.45	68.93	0.23
Coyle	Ridgeville_E	2044	SCS2yr	4.86	177.85	178.47	178.25	178.49	0.001647	0.61	8.19	23.64	0.31
Coyle	Ridgeville_E	2044	SCS5yr	6.81	177.85	178.55	178.31	178.58	0.001734	0.71	10.1	25.6	0.33
Coyle	Ridgeville_E	2044	SCS10yr	8.63	177.85	178.66	178.35	178.69	0.001327	0.72	13.03	27.37	0.3
Coyle	Ridgeville_E	2044	SCS25yr	11.53	177.85	179.08	178.41	179.09	0.000328	0.51	31.08	67.01	0.16
Coyle	Ridgeville_E	2044	SCS50yr	14.16	177.85	179.58	178.46	179.58	0.000084	0.34	72.06	91.57	0.09
Coyle	Ridgeville_E	2044	SCS100yr	16.51	177.85	179.79	178.5	179.79	0.000063	0.32	94.63	124.88	0.08
Coyle	Ridgeville_E	2044	SCS200yr	20.63	177.85	180.1	178.56	180.1	0.000037	0.27	204.2	403.34	0.06
Coyle	Ridgeville_E	2044	RSnow100yr	11.27	177.85	179.02	178.41	179.03	0.000403	0.54	27.26	59.33	0.18
Coyle	Ridgeville_E	1999	SCS2yr	4.86	177.82	178.37	178.2	178.4	0.002574	0.84	9.78	42.27	0.4
Coyle	Ridgeville_E	1999	SCS5yr	6.81	177.82	178.46	178.25	178.49	0.002287	0.89	13.57	46.35	0.39
Coyle	Ridgeville_E	1999	SCS10yr	8.63	177.82	178.61	178.34	178.63	0.001153	0.75	21.16	52.51	0.29
Coyle	Ridgeville_E	1999	SCS25yr	11.53	177.82	179.07	178.4	179.08	0.000213	0.45	48.9	71.22	0.14
Coyle	Ridgeville_E	1999	SCS50yr	14.16	177.82	179.58	178.44	179.58	0.00006	0.31	96.28	136.64	0.08
Coyle	Ridgeville_E	1999	SCS100yr	16.51	177.82	179.79	178.48	179.79	0.000044	0.29	128.07	159.69	0.07
Coyle	Ridgeville_E	1999	SCS200yr	20.63	177.82	180.1	178.53	180.1	0.000026	0.24	240.53	400.81	0.05
Coyle	Ridgeville_E	1999	RSnow100yr	11.27	177.82	179.01	178.4	179.01	0.00026	0.48	44.62	65.74	0.15
Coyle	Ridgeville_E	1921	SCS2yr	4.86	177.81	178.17	178.02	178.19	0.002825	0.69	7.03	23.59	0.4
Coyle	Ridgeville_E	1921	SCS5yr	6.81	177.81	178.34	178.07	178.35	0.00127	0.62	11.96	45.43	0.29
Coyle	Ridgeville_E	1921	SCS10yr	8.63	177.81	178.57	178.1	178.58	0.000386	0.45	27.91	76.28	0.17
Coyle	Ridgeville_E	1921	SCS25yr	11.53	177.81	179.06	178.15	179.07	0.000065	0.26	74.06	106.26	0.08
Coyle	Ridgeville_E	1921	SCS50yr	14.16	177.81	179.58	178.2	179.58	0.000022	0.19	136.03	141.48	0.05
Coyle	Ridgeville_E	1921	SCS100yr	16.51	177.81	179.79	178.24	179.79	0.000017	0.18	168.38	164.9	0.04
Coyle	Ridgeville_E	1921	SCS200yr	20.63	177.81	180.1	178.31	180.1	0.00001	0.16	314.9	448.5	0.03
Coyle	Ridgeville_E	1921	RSnow100yr	11.27	177.81	179	178.15	179	0.00008	0.28	67.23	104.46	0.08
Coyle	Ridgeville_E	1829	SCS2yr	4.86	176.88	177.93		177.98	0.00195	1.1	7.97	26.81	0.37
Coyle	Ridgeville_E	1829	SCS5yr	6.81	176.88	178.26		178.28	0.000653	0.79	18.46	36.21	0.23
Coyle	Ridgeville_E	1829	SCS10yr	8.63	176.88	178.54		178.55	0.000333	0.64	29.58	43.84	0.17
Coyle	Ridgeville_E	1829	SCS25yr	11.53	176.88	179.05		179.06	0.000111	0.45	64.49	87.57	0.1
Coyle	Ridgeville_E	1829	SCS50yr	14.16	176.88	179.57		179.58	0.000048	0.35	134.89	241.46	0.07
Coyle	Ridgeville_E	1829	SCS100yr	16.51	176.88	179.79		179.79	0.000033	0.31	199.91	383.87	0.06
Coyle	Ridgeville_E	1829	SCS200yr	20.63	176.88	180.1		180.1	0.000015	0.22	346.37	542.66	0.04
Coyle	Ridgeville_E	1829	RSnow100yr	11.27	176.88	178.99		178.99	0.000128	0.48	58.9	82.09	0.11
Coyle	Ridgeville_E	1757	SCS2yr	4.86	176.71	177.93	177.28	177.94	0.000175	0.38	25.25	51.1	0.12
Coyle	Ridgeville_E	1757	SCS5yr	6.81	176.71	178.26	177.34	178.26	0.000084	0.32	42.98	59.34	0.09
Coyle	Ridgeville_E	1757	SCS10yr	8.63	176.71	178.54	177.39	178.54	0.000055	0.29	60.73	66.04	0.07
Coyle	Ridgeville_E	1757	SCS25yr	11.53	176.71	179.05	177.49	179.05	0.000027	0.24	98.13	79.23	0.05
Coyle	Ridgeville_E	1757	SCS50yr	14.16	176.71	179.57	177.57	179.57	0.000014	0.2	156.32	145.87	0.04
Coyle	Ridgeville_E	1757	SCS100yr	16.51	176.71	179.79	177.62	179.79	0.000013	0.21	192.7	204.82	0.04
Coyle	Ridgeville_E	1757	SCS200yr	20.63	176.71	180.1	177.68	180.1	0.000006	0.15	413.34	490.14	0.03
Coyle	Ridgeville_E	1757	RSnow100yr	11.27	176.71	178.99	177.46	178.99	0.00003	0.25	92.91	77.64	0.05
Coyle	Ridgeville_E	1734	SCS2yr	4.86	176.61	177.92	177.2	177.93	0.000308	0.48	10.36	50.77	0.16
Coyle	Ridgeville_E	1734	SCS5yr	6.81	176.61	178.24	177.29	178.25	0.000197	0.47	14.72	55.86	0.13
Coyle	Ridgeville_E	1734	SCS10yr	8.63	176.61	178.53	177.37	178.54	0.000014	0.14	55.69	67.92	0.04
Coyle	Ridgeville_E	1734	SCS25yr	11.53	176.61	179.05	177.48	179.05	0.000005	0.11	97.25	99.58	0.02
Coyle	Ridgeville_E	1734	SCS50yr	14.16	176.61	179.57	177.57	179.57	0.000002	0.08	175.83	178.33	0.02
Coyle	Ridgeville_E	1734	SCS100yr	16.51	176.61	179.79	177.65	179.79	0.000001	0.07	287.74	386.27	0.01

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	1734	SCS200yr	20.63	176.61	180.1	177.77	180.1	0.000001	0.06	423.35	492.08	0.01
Coyle	Ridgeville_E	1734	RSnow100yr	11.27	176.61	178.99	177.47	178.99	0.000006	0.11	90.78	94.08	0.02
Coyle	Ridgeville_E	1723		Culvert									
Coyle	Ridgeville_E	1714	SCS2yr	6.89	176.43	177.88	176.94	177.9	0.000322	0.62	11.79	91.3	0.17
Coyle	Ridgeville_E	1714	SCS5yr	9.78	176.43	178.16	177.06	178.19	0.000342	0.73	14.5	143.42	0.18
Coyle	Ridgeville_E	1714	SCS10yr	12.47	176.43	178.41	177.15	178.42	0.000035	0.25	103.16	184.89	0.06
Coyle	Ridgeville_E	1714	SCS25yr	16.71	176.43	179.05	177.29	179.05	0.000005	0.11	237.74	241.93	0.02
Coyle	Ridgeville_E	1714	SCS50yr	20.54	176.43	179.57	177.4	179.57	0.000002	0.07	377.59	289.81	0.01
Coyle	Ridgeville_E	1714	SCS100yr	23.91	176.43	179.78	177.49	179.79	0.000001	0.07	441.26	311.05	0.01
Coyle	Ridgeville_E	1714	SCS200yr	29.8	176.43	180.1	177.66	180.1	0.000001	0.06	553.41	407.21	0.01
Coyle	Ridgeville_E	1714	RSnow100yr	16	176.43	178.98	177.27	178.99	0.000005	0.12	221.48	237.85	0.02
Coyle	Ridgeville_E	1705	SCS2yr	6.89	176.46	177.88		177.89	0.000375	0.56	23.78	104.18	0.17
Coyle	Ridgeville_E	1705	SCS5yr	9.78	176.46	178.17		178.17	0.000099	0.33	60.78	144.8	0.09
Coyle	Ridgeville_E	1705	SCS10yr	12.47	176.46	178.41		178.41	0.000039	0.23	101.94	185.92	0.06
Coyle	Ridgeville_E	1705	SCS25yr	16.71	176.46	179.05		179.05	0.000005	0.1	227.83	213.17	0.02
Coyle	Ridgeville_E	1705	SCS50yr	20.54	176.46	179.57		179.57	0.000002	0.07	361.18	300.08	0.01
Coyle	Ridgeville_E	1705	SCS100yr	23.91	176.46	179.78		179.79	0.000002	0.07	431.89	378.46	0.01
Coyle	Ridgeville_E	1705	SCS200yr	29.8	176.46	180.1		180.1	0.000001	0.06	572.36	499.98	0.01
Coyle	Ridgeville_E	1705	RSnow100yr	16	176.46	178.98		178.99	0.000006	0.11	213.6	206.25	0.02
Coyle	Ridgeville_E	1659	SCS2yr	6.89	176.42	177.84	177.24	177.87	0.000987	0.77	16.56	34.81	0.23
Coyle	Ridgeville_E	1659	SCS5yr	9.78	176.42	178.15	177.5	178.16	0.00058	0.69	28.08	41.15	0.18
Coyle	Ridgeville_E	1659	SCS10yr	12.47	176.42	178.4	177.6	178.41	0.000413	0.65	41.24	63.31	0.16
Coyle	Ridgeville_E	1659	SCS25yr	16.71	176.42	179.05	177.71	179.05	0.000121	0.43	99.57	114.83	0.09
Coyle	Ridgeville_E	1659	SCS50yr	20.54	176.42	179.57	177.8	179.57	0.000055	0.33	186.87	216.25	0.06
Coyle	Ridgeville_E	1659	SCS100yr	23.91	176.42	179.78	177.85	179.78	0.000042	0.3	236.46	238.79	0.06
Coyle	Ridgeville_E	1659	SCS200yr	29.8	176.42	180.1	177.94	180.1	0.00003	0.27	312.99	250.54	0.05
Coyle	Ridgeville_E	1659	RSnow100yr	16	176.42	178.98	177.69	178.98	0.000132	0.44	91.94	109.79	0.09
Coyle	Ridgeville_E	1588	SCS2yr	6.89	176.56	177.85	177.14	177.85	0.000044	0.19	91.38	150.78	0.06
Coyle	Ridgeville_E	1588	SCS5yr	9.78	176.56	178.15	177.19	178.16	0.000027	0.18	139.66	163.08	0.05
Coyle	Ridgeville_E	1588	SCS10yr	12.47	176.56	178.4	177.2	178.4	0.000021	0.18	181.05	177.71	0.04
Coyle	Ridgeville_E	1588	SCS25yr	16.71	176.56	179.05	177.28	179.05	0.000008	0.14	318.49	239.78	0.03
Coyle	Ridgeville_E	1588	SCS50yr	20.54	176.56	179.57	177.32	179.57	0.000005	0.12	450.33	271.64	0.02
Coyle	Ridgeville_E	1588	SCS100yr	23.91	176.56	179.78	177.34	179.78	0.000004	0.12	547.53	372.14	0.02
Coyle	Ridgeville_E	1588	SCS200yr	29.8	176.56	180.1	177.37	180.1	0.000003	0.11	806.22	687.81	0.02
Coyle	Ridgeville_E	1588	RSnow100yr	16	176.56	178.98	177.28	178.98	0.000009	0.14	302.55	229.86	0.03
Coyle	Ridgeville_E	1568	SCS2yr	6.89	176.52	177.82	177.15	177.84	0.000497	0.65	11.93	120.45	0.2
Coyle	Ridgeville_E	1568	SCS5yr	9.78	176.52	178.12	177.26	178.15	0.000417	0.71	15.84	172.93	0.19
Coyle	Ridgeville_E	1568	SCS10yr	12.47	176.52	178.37	177.34	178.39	0.000382	0.76	19	193.23	0.19
Coyle	Ridgeville_E	1568	SCS25yr	16.71	176.52	179.02	177.45	179.04	0.00021	0.71	27.48	329.97	0.15
Coyle	Ridgeville_E	1568	SCS50yr	20.54	176.52	179.54	177.56	179.56	0.000156	0.7	34.25	383.27	0.13
Coyle	Ridgeville_E	1568	SCS100yr	23.91	176.52	179.75	177.63	179.78	0.000165	0.75	36.98	569.8	0.14
Coyle	Ridgeville_E	1568	SCS200yr	29.8	176.52	180.1	177.76	180.1	0.000004	0.12	811.94	679.66	0.02
Coyle	Ridgeville_E	1568	RSnow100yr	16	176.52	178.95	177.43	178.97	0.000214	0.7	26.6	324.11	0.15
Coyle	Ridgeville_E	1559		Bridge									
Coyle	Ridgeville_E	1545	SCS2yr	6.89	176.1	177.27	176.75	177.31	0.001177	0.94	8.31	134.49	0.31
Coyle	Ridgeville_E	1545	SCS5yr	9.78	176.1	177.34	176.87	177.41	0.001855	1.23	9.22	140.13	0.39
Coyle	Ridgeville_E	1545	SCS10yr	12.47	176.1	177.4	176.97	177.5	0.002424	1.46	10.07	146.96	0.45
Coyle	Ridgeville_E	1545	SCS25yr	16.71	176.1	177.49	177.12	177.64	0.003282	1.79	11.23	155.75	0.53
Coyle	Ridgeville_E	1545	SCS50yr	20.54	176.1	178.12	177.27	178.2	0.001019	1.33	19.78	194.12	0.32
Coyle	Ridgeville_E	1545	SCS100yr	23.91	176.1	178.75	177.36	178.81	0.000467	1.1	28.35	212.32	0.23
Coyle	Ridgeville_E	1545	SCS200yr	29.8	176.1	178.75	177.5	178.84	0.000726	1.37	28.34	212.32	0.28
Coyle	Ridgeville_E	1545	RSnow100yr	16	176.1	177.47	177.09	177.62	0.003148	1.74	11.04	154.48	0.52
Coyle	Ridgeville_E	1532	SCS2yr	6.89	175.98	177.27		177.29	0.001037	0.95	24.82	107.95	0.29
Coyle	Ridgeville_E	1532	SCS5yr	9.78	175.98	177.35		177.37	0.001099	1.02	33.78	115.82	0.3
Coyle	Ridgeville_E	1532	SCS10yr	12.47	175.98	177.43		177.45	0.001008	1.02	43.01	117.73	0.29
Coyle	Ridgeville_E	1532	SCS25yr	16.71	175.98	177.54		177.56	0.000893	1.02	56.55	121.96	0.27
Coyle	Ridgeville_E	1532	SCS50yr	20.54	175.98	178.16		178.16	0.000107	0.45	139.97	151.23	0.1
Coyle	Ridgeville_E	1532	SCS100yr	23.91	175.98	178.78		178.78	0.000029	0.28	252.94	209.34	0.06
Coyle	Ridgeville_E	1532	SCS200yr	29.8	175.98	178.79		178.79	0.000044	0.35	255.82	209.53	0.07
Coyle	Ridgeville_E	1532	RSnow100yr	16	175.98	177.52		177.54	0.000914	1.02	54.25	121.42	0.28
Coyle	Ridgeville_E	1481	SCS2yr	6.89	175.81	177.07	176.85	177.19	0.003844	1.72	10.55	69.58	0.53
Coyle	Ridgeville_E	1481	SCS5yr	9.78	175.81	177.24		177.29	0.002169	1.42	22.69	77.32	0.41
Coyle	Ridgeville_E	1481	SCS10yr	12.47	175.81	177.34		177.38	0.001793	1.36	30.72	85.45	0.38
Coyle	Ridgeville_E	1481	SCS25yr	16.71	175.81	177.46		177.5	0.001496	1.33	42.28	93.29	0.35
Coyle	Ridgeville_E	1481	SCS50yr	20.54	175.81	178.15		178.15	0.000152	0.55	113.46	116.87	0.12
Coyle	Ridgeville_E	1481	SCS100yr	23.91	175.81	178.78		178.78	0.000045	0.35	192.11	130.59	0.07
Coyle	Ridgeville_E	1481	SCS200yr	29.8	175.81	178.79		178.79	0.000068	0.44	193.75	130.86	0.08
Coyle	Ridgeville_E	1481	RSnow100yr	16	175.81	177.44		177.48	0.001547	1.33	40.28	92.46	0.36
Coyle	Ridgeville_E	1412	SCS2yr	6.89	175.74	176.9		176.97	0.002355	1.27	7.5	22.29	0.42
Coyle	Ridgeville_E	1412	SCS5yr	9.78	175.74	177	176.65	177.11	0.003049	1.56	10.79	37.83	0.49
Coyle	Ridgeville_E	1412	SCS10yr	12.47	175.74	177.08		177.2	0.003408	1.72	13.74	39	0.52
Coyle	Ridgeville_E	1412	SCS25yr	16.71	175.74	177.21		177.34	0.003328	1.84	19.15	41.62	0.52
Coyle	Ridgeville_E	1412	SCS50yr	20.54	175.74	178.12		178.14	0.000285	0.77	66.81	65.88	0.17
Coyle	Ridgeville_E	1412	SCS100yr	23.91	175.74	178.77		178.77	0.000094	0.53	117.97	91.28	0.1
Coyle	Ridgeville_E	1412	SCS200yr	29.8	175.74	178.78		178.78	0.000145	0.66	118.68	91.46	0.13
Coyle	Ridgeville_E	1412	RSnow100yr	16	175.74	177.17		177.31	0.003602	1.87	17.59	41.01	0.54
Coyle	Ridgeville_E	1357	SCS2yr	6.89	175.56	176.77		176.84	0.002323	1.36	12.87	56.86	0.43
Coyle	Ridgeville_E	1357	SCS5yr	9.78	175.56	176.9		176.96	0.002072	1.39	21.01	67.77	0.41
Coyle	Ridgeville_E	1357	SCS10yr	12.47	175.56	176.99		177.04	0.00187	1.39	27.45	69.21	0.39
Coyle	Ridgeville_E	1357	SCS25yr	16.71	175.56	177.16		177.2	0.001375	1.29	39.39	72.09	0.35
Coyle	Ridgeville_E	1357	SCS50yr	20.54	175.56	178.12		178.12	0.000103	0.5	115.84	86.81	0.1
Coyle	Ridgeville_E	1357	SCS100yr	23.91	175.56	178.77		178.77	0.000042	0.37	174.24	93.72	0.07
Coyle	Ridgeville_E	1357	SCS200yr	29.8	175.56	178.77		178.78	0.000065	0.46	174.92	93.79	0.08
Coyle	Ridgeville_E	1357	RSnow100yr	16	175.56	177.11		177.15	0.001635	1.37	35.59	71.21	0.37
Coyle	Ridgeville_E	1292	SCS2yr	6.89	175.4	176.68		176.72	0.001279	1.07	15.98	64.56	0.32
Coyle	Ridgeville_E	1292	SCS5yr	9.78	175.4	176.82		176.85	0.001113	1.08	24.97	66.31	0.31
Coyle	Ridgeville_E	1292	SCS10yr	12.47	175.4	176.91		176.95	0.001081	1.11	31.33	66.98	0.31
Coyle	Ridgeville_E	1292	SCS25yr	16.71	175.4	177.1		177.13	0.000822	1.06	43.99	68.65	0.27
Coyle	Ridgeville_E	1292	SCS50yr	20.54	175.4	178.12		178.12	0.000072	0.44	118.44	77.52	0.09
Coyle	Ridgeville_E	1292	SCS100yr	23.91	175.4	178.76		178.77	0.000033	0.35	175.41	122.62	0.06
Coyle	Ridgeville_E	1292	SCS200yr	29.8	175.4	178.77		178.77	0.000051	0.43	176.16	124.68	0.08
Coyle	Ridgeville_E	1292	RSnow100yr	16	175.4	177.04		177.07	0.000994	1.13	39.56	67.86	0.3
Coyle	Ridgeville_E	1240	SCS2yr	6.89	175.34	176.64		176.67	0.000948	0.9	15.88	55.29	0.28
Coyle	Ridgeville_E	1240	SCS5yr	9.78	175.34	176.77		176.81	0.00097	0.99	24.67	67.88	0.29
Coyle	Ridgeville_E	1240	SCS10yr	12.47	175.34	176.87		176.9	0.000968	1.04	31.33	69.31	0.29
Coyle	Ridgeville_E	1240	SCS25yr	16.71	175.34	177.07		177.1	0.000724	0.99	46.01	75.32	0.26
Coyle	Ridgeville_E	1240	SCS50yr	20.54	175.34	178.11		178.12	0.00006	0.4	131.74	89.61	0.08
Coyle	Ridgeville_E	1240	SCS100yr	23.91	175.34	178.76		178.76	0.000029	0.32	205.28	134.03	0.06
Coyle	Ridgeville_E	1240	SCS200yr	29.8	175.34	178.77		178.77	0.000044	0.4	206.03	134.17	0.07
Coyle	Ridgeville_E	1240	RSnow100yr	16	175.34	177		177.03	0.000908	1.07	40.47	74.24	0.28
Coyle	Ridgeville_E	1196	SCS2yr	6.89	175.13	176.55		176.61	0.001569	1.25	11.89	48.83	0.35

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	1196	SCS5yr	9.78	175.13	176.69		176.75	0.001517	1.32	19.31	52.72	0.35
Coyle	Ridgeville_E	1196	SCS10yr	12.47	175.13	176.79		176.85	0.001555	1.4	24.52	55.81	0.36
Coyle	Ridgeville_E	1196	SCS25yr	16.71	175.13	177.02		177.06	0.00106	1.27	37.92	60.07	0.31
Coyle	Ridgeville_E	1196	SCS50yr	20.54	175.13	178.11		178.11	0.000089	0.51	112.77	76.76	0.1
Coyle	Ridgeville_E	1196	SCS100yr	23.91	175.13	178.76		178.76	0.000054	0.45	185.45	191.75	0.08
Coyle	Ridgeville_E	1196	SCS200yr	29.8	175.13	178.76		178.77	0.000083	0.56	186.22	191.87	0.1
Coyle	Ridgeville_E	1196	RSnow100yr	16	175.13	176.93		176.98	0.001409	1.41	32.39	58.72	0.35
Coyle	Ridgeville_E	1151	SCS2yr	6.89	175.2	176.47		176.54	0.001789	1.27	9.45	33.09	0.38
Coyle	Ridgeville_E	1151	SCS5yr	9.78	175.2	176.58		176.67	0.00212	1.48	13.99	47.16	0.42
Coyle	Ridgeville_E	1151	SCS10yr	12.47	175.2	176.67		176.77	0.002309	1.61	18.17	50.94	0.44
Coyle	Ridgeville_E	1151	SCS25yr	16.71	175.2	176.96		177.01	0.001177	1.31	33.95	56.4	0.33
Coyle	Ridgeville_E	1151	SCS50yr	20.54	175.2	178.1		178.11	0.000097	0.54	108.87	82.32	0.1
Coyle	Ridgeville_E	1151	SCS100yr	23.91	175.2	178.76		178.76	0.000046	0.42	193.15	215.02	0.07
Coyle	Ridgeville_E	1151	SCS200yr	29.8	175.2	178.76		178.77	0.000071	0.53	193.77	216.67	0.09
Coyle	Ridgeville_E	1151	RSnow100yr	16	175.2	176.83		176.91	0.001791	1.53	26.95	54.11	0.4
Coyle	Ridgeville_E	1086	SCS2yr	6.89	174.97	176.37		176.43	0.001504	1.22	11.89	54.3	0.35
Coyle	Ridgeville_E	1086	SCS5yr	9.78	174.97	176.47	176.04	176.54	0.001715	1.37	19.16	80.53	0.38
Coyle	Ridgeville_E	1086	SCS10yr	12.47	174.97	176.55		176.62	0.001747	1.44	26.28	86.8	0.39
Coyle	Ridgeville_E	1086	SCS25yr	16.71	174.97	176.94		176.95	0.000454	0.87	64.81	112.2	0.21
Coyle	Ridgeville_E	1086	SCS50yr	20.54	174.97	178.1		178.1	0.000025	0.29	207.68	146.69	0.05
Coyle	Ridgeville_E	1086	SCS100yr	23.91	174.97	178.76		178.76	0.000011	0.21	338.12	266.02	0.04
Coyle	Ridgeville_E	1086	SCS200yr	29.8	174.97	178.76		178.76	0.000017	0.27	338.93	266.7	0.04
Coyle	Ridgeville_E	1086	RSnow100yr	16	174.97	176.79		176.82	0.000786	1.08	48.98	103.5	0.27
Coyle	Ridgeville_E	992	SCS2yr	6.89	175.18	176.17		176.24	0.003206	1.26	10.99	48.76	0.47
Coyle	Ridgeville_E	992	SCS5yr	9.78	175.18	176.29		176.35	0.002695	1.28	17.2	54.35	0.44
Coyle	Ridgeville_E	992	SCS10yr	12.47	175.18	176.39		176.44	0.00232	1.28	22.7	57.31	0.42
Coyle	Ridgeville_E	992	SCS25yr	16.71	175.18	176.9		176.91	0.000391	0.7	54.77	65.86	0.18
Coyle	Ridgeville_E	992	SCS50yr	20.54	175.18	178.1		178.1	0.000039	0.33	142.93	88.84	0.06
Coyle	Ridgeville_E	992	SCS100yr	23.91	175.18	178.76		178.76	0.000024	0.3	227.03	188.95	0.05
Coyle	Ridgeville_E	992	SCS200yr	29.8	175.18	178.76		178.76	0.000037	0.37	227.36	189.38	0.06
Coyle	Ridgeville_E	992	RSnow100yr	16	175.18	176.73		176.75	0.000687	0.85	43.65	63.87	0.24
Coyle	Ridgeville_E	904	SCS2yr	6.89	174.93	176.08	175.69	176.11	0.000894	0.8	21.88	74.15	0.27
Coyle	Ridgeville_E	904	SCS5yr	9.78	174.93	176.23	175.79	176.24	0.000738	0.8	32.67	77.14	0.25
Coyle	Ridgeville_E	904	SCS10yr	12.47	174.93	176.34	175.98	176.35	0.000675	0.81	41.14	79.16	0.24
Coyle	Ridgeville_E	904	SCS25yr	16.71	174.93	176.89	176.07	176.9	0.000149	0.49	87.03	84.2	0.12
Coyle	Ridgeville_E	904	SCS50yr	20.54	174.93	178.1	176.12	178.1	0.000021	0.26	194.52	94.03	0.05
Coyle	Ridgeville_E	904	SCS100yr	23.91	174.93	178.76	176.16	178.76	0.000012	0.23	266.37	130.35	0.04
Coyle	Ridgeville_E	904	SCS200yr	29.8	174.93	178.76	176.22	178.76	0.000019	0.28	266.57	130.61	0.05
Coyle	Ridgeville_E	904	RSnow100yr	16	174.93	176.72	176.04	176.72	0.000236	0.58	72.19	83.07	0.15
Coyle	Ridgeville_E	822	SCS2yr	6.89	174.84	175.85		175.97	0.004047	1.61	6.47	45.7	0.55
Coyle	Ridgeville_E	822	SCS5yr	9.78	174.84	175.97	175.76	176.12	0.004583	1.86	8.81	51.05	0.6
Coyle	Ridgeville_E	822	SCS10yr	12.47	174.84	176.04	175.95	176.22	0.005571	2.14	10.35	53.91	0.67
Coyle	Ridgeville_E	822	SCS25yr	16.71	174.84	176.88		176.89	0.000225	0.64	60.12	67.34	0.15
Coyle	Ridgeville_E	822	SCS50yr	20.54	174.84	178.1		178.1	0.00002	0.26	172.6	144.29	0.05
Coyle	Ridgeville_E	822	SCS100yr	23.91	174.84	178.76		178.76	0.000008	0.19	276.62	175.31	0.03
Coyle	Ridgeville_E	822	SCS200yr	29.8	174.84	178.76		178.76	0.000013	0.24	276.84	175.33	0.04
Coyle	Ridgeville_E	822	RSnow100yr	16	174.84	176.69		176.7	0.000396	0.79	47.61	64.61	0.19
Coyle	Ridgeville_E	763	SCS2yr	6.89	174.63	175.6	175.4	175.72	0.004331	1.62	6.35	28.5	0.57
Coyle	Ridgeville_E	763	SCS5yr	9.78	174.63	175.7	175.65	175.83	0.004799	1.83	9.38	33.23	0.61
Coyle	Ridgeville_E	763	SCS10yr	12.47	174.63	175.89		175.97	0.00265	1.54	20.15	77.48	0.47
Coyle	Ridgeville_E	763	SCS25yr	16.71	174.63	176.87		176.88	0.000073	0.39	100.68	85.03	0.09
Coyle	Ridgeville_E	763	SCS50yr	20.54	174.63	178.1		178.1	0.000012	0.22	215.14	110.45	0.04
Coyle	Ridgeville_E	763	SCS100yr	23.91	174.63	178.75		178.76	0.000007	0.18	294.94	135.27	0.03
Coyle	Ridgeville_E	763	SCS200yr	29.8	174.63	178.76		178.76	0.000011	0.23	295.08	135.34	0.04
Coyle	Ridgeville_E	763	RSnow100yr	16	174.63	176.68		176.69	0.000114	0.46	84.53	83.97	0.11
Coyle	Ridgeville_E	675	SCS2yr	6.89	174.47	175.53	175.1	175.54	0.00089	0.76	19.52	53.84	0.26
Coyle	Ridgeville_E	675	SCS5yr	9.78	174.47	175.63	175.14	175.64	0.000913	0.83	24.84	62.06	0.27
Coyle	Ridgeville_E	675	SCS10yr	12.47	174.47	175.86	175.38	175.87	0.000433	0.66	38.57	79.15	0.19
Coyle	Ridgeville_E	675	SCS25yr	16.71	174.47	176.87	175.44	176.87	0.000038	0.29	108.25	110.51	0.06
Coyle	Ridgeville_E	675	SCS50yr	20.54	174.47	178.1	175.5	178.1	0.000005	0.15	307.65	172	0.03
Coyle	Ridgeville_E	675	SCS100yr	23.91	174.47	178.75	175.53	178.75	0.000003	0.12	430.56	206.41	0.02
Coyle	Ridgeville_E	675	SCS200yr	29.8	174.47	178.76	175.58	178.76	0.000005	0.15	430.75	206.43	0.02
Coyle	Ridgeville_E	675	RSnow100yr	16	174.47	176.68	175.44	176.68	0.000053	0.32	93.64	103.19	0.07
Coyle	Ridgeville_E	589	SCS2yr	6.89	174.52	175.38	175.25	175.41	0.002589	1.12	11.99	46.23	0.43
Coyle	Ridgeville_E	589	SCS5yr	9.78	174.52	175.51	175.3	175.53	0.001823	1.05	18.08	48.79	0.37
Coyle	Ridgeville_E	589	SCS10yr	12.47	174.52	175.82	175.38	175.83	0.000489	0.68	34.35	54.44	0.2
Coyle	Ridgeville_E	589	SCS25yr	16.71	174.52	176.87	175.44	176.87	0.000036	0.28	103.86	81.44	0.06
Coyle	Ridgeville_E	589	SCS50yr	20.54	174.52	178.1	175.48	178.1	0.000007	0.17	221.74	167.36	0.03
Coyle	Ridgeville_E	589	SCS100yr	23.91	174.52	178.75	175.51	178.75	0.000004	0.13	432.53	408.28	0.02
Coyle	Ridgeville_E	589	SCS200yr	29.8	174.52	178.76	175.57	178.76	0.000005	0.17	432.83	408.57	0.03
Coyle	Ridgeville_E	589	RSnow100yr	16	174.52	176.67	175.43	176.67	0.000052	0.32	88.51	77.26	0.07
Coyle	Ridgeville_E	483	SCS2yr	6.89	174.16	175.19		175.23	0.001251	0.87	11.45	38.42	0.31
Coyle	Ridgeville_E	483	SCS5yr	9.78	174.16	175.34		175.38	0.001156	0.94	18.03	47.56	0.3
Coyle	Ridgeville_E	483	SCS10yr	12.47	174.16	175.78		175.79	0.000292	0.61	40.79	56.23	0.16
Coyle	Ridgeville_E	483	SCS25yr	16.71	174.16	176.86		176.86	0.000036	0.31	109.24	71.27	0.06
Coyle	Ridgeville_E	483	SCS50yr	20.54	174.16	178.09		178.1	0.000009	0.2	212.03	137.93	0.03
Coyle	Ridgeville_E	483	SCS100yr	23.91	174.16	178.75		178.75	0.000005	0.17	414.21	460.11	0.03
Coyle	Ridgeville_E	483	SCS200yr	29.8	174.16	178.75		178.75	0.000008	0.21	414.36	460.2	0.03
Coyle	Ridgeville_E	483	RSnow100yr	16	174.16	176.67		176.67	0.000047	0.34	95.6	68.08	0.07
Coyle	Ridgeville_E	409	SCS2yr	6.89	173.94	175.01	174.85	175.09	0.002943	1.41	10.68	41.98	0.47
Coyle	Ridgeville_E	409	SCS5yr	9.78	173.94	175.25		175.29	0.001417	1.14	21.29	47.56	0.34
Coyle	Ridgeville_E	409	SCS10yr	12.47	173.94	175.76		175.77	0.000276	0.65	47.99	55.53	0.16
Coyle	Ridgeville_E	409	SCS25yr	16.71	173.94	176.86		176.86	0.00004	0.34	122.43	81.35	0.07
Coyle	Ridgeville_E	409	SCS50yr	20.54	173.94	178.09		178.09	0.000009	0.21	287.96	240.21	0.03
Coyle	Ridgeville_E	409	SCS100yr	23.91	173.94	178.75		178.75	0.000004	0.15	500.2	374.42	0.02
Coyle	Ridgeville_E	409	SCS200yr	29.8	173.94	178.75		178.75	0.000006	0.19	500.3	374.5	0.03
Coyle	Ridgeville_E	409	RSnow100yr	16	173.94	176.66		176.67	0.000054	0.38	106.61	79.36	0.08
Coyle	Ridgeville_E	334	SCS2yr	6.89	174.03	174.87		174.9	0.001879	0.91	14.58	48.42	0.36
Coyle	Ridgeville_E	334	SCS5yr	9.78	174.03	175.21		175.22	0.000518	0.63	32.29	57.96	0.2
Coyle	Ridgeville_E	334	SCS10yr	12.47	174.03	175.75		175.75	0.000122	0.41	67.34	73.67	0.11
Coyle	Ridgeville_E	334	SCS25yr	16.71	174.03	176.86		176.86	0.000017	0.22	168.9	113.44	0.04
Coyle	Ridgeville_E	334	SCS50yr	20.54	174.03	178.09		178.09	0.000004	0.14	377.17	274.16	0.02
Coyle	Ridgeville_E	334	SCS100yr	23.91	174.03	178.75		178.75	0.000002	0.11	598.94	406.66	0.02
Coyle	Ridgeville_E	334	SCS200yr	29.8	174.03	178.75		178.75	0.000003	0.13	599.01	406.7	0.02
Coyle	Ridgeville_E	334	RSnow100yr	16	174.03	176.66		176.66	0.000023	0.24	147.34	105.46	0.05
Coyle	Ridgeville_E	264	SCS2yr	6.89	173.99	174.79		174.8	0.001035	0.68	28.89	104.16	0.27
Coyle	Ridgeville_E	264	SCS5yr	9.78	173.99	175.2		175.2	0.000137	0.34	76.96	127.71	0.11
Coyle	Ridgeville_E	264	SCS10yr	12.47	173.99	175.75		175.75	0.000028	0.21	150.42	137.67	0.05
Coyle	Ridgeville_E	264	SCS25yr	16.71	173.99	176.86		176.86	0.000005	0.13	312.59	154.82	0.02
Coyle	Ridgeville_E	264	SCS50yr	20.54	173.99	178.09		178.09	0.000002	0.09	582.98	310.14	0.01
Coyle	Ridgeville_E	264	SCS100yr	23.91	173.99	178.75		178.75	0.000001	0.07	829.69	432.38	0.01
Coyle	Ridgeville_E	264	SCS200yr	29.8	173.99	178.75		178.75	0.000001	0.09	829.76	432.39	0.01
Coyle	Ridgeville_E	264	RSnow100yr	16	173.99	176.66		176.66	0.000007	0.13	282.38	151.48	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_E	231	SCS2yr	6.89	173.1	174.74	173.88	174.77	0.0006	0.78	9.27	99.62	0.22
Coyle	Ridgeville_E	231	SCS5yr	9.78	173.1	175.15	174.02	175.18	0.000503	0.84	12.26	126.93	0.2
Coyle	Ridgeville_E	231	SCS10yr	12.47	173.1	175.71	174.13	175.74	0.000322	0.81	16.43	131.97	0.17
Coyle	Ridgeville_E	231	SCS25yr	16.71	173.1	176.83	174.3	176.85	0.000153	0.72	24.74	146.66	0.12
Coyle	Ridgeville_E	231	SCS50yr	20.54	173.1	178.07	174.42	178.09	0.000082	0.65	33.96	287.57	0.1
Coyle	Ridgeville_E	231	SCS100yr	23.91	173.1	178.75	174.53	178.75	0.000003	0.14	413.21	440.94	0.02
Coyle	Ridgeville_E	231	SCS200yr	29.8	173.1	178.75	174.7	178.75	0.000005	0.17	413.2	440.94	0.02
Coyle	Ridgeville_E	231	RSnow100yr	16	173.1	176.63	174.27	176.65	0.000172	0.73	23.26	143.51	0.13
Coyle	Ridgeville_E	194		Culvert									
Coyle	Ridgeville_E	171	SCS2yr	6.89	172.94	174.35	173.72	174.42	0.001675	1.14	6.24	23.38	0.34
Coyle	Ridgeville_E	171	SCS5yr	9.78	172.94	174.48	173.89	174.58	0.002347	1.45	7.16	39.65	0.41
Coyle	Ridgeville_E	171	SCS10yr	12.47	172.94	174.59	174.03	174.73	0.002792	1.67	8.02	42.4	0.45
Coyle	Ridgeville_E	171	SCS25yr	16.71	172.94	174.81	174.22	174.99	0.002951	1.89	9.64	46.32	0.47
Coyle	Ridgeville_E	171	SCS50yr	20.54	172.94	175	174.39	175.2	0.002957	2.04	11.07	50.04	0.48
Coyle	Ridgeville_E	171	SCS100yr	23.91	172.94	175.17	174.55	175.39	0.002921	2.15	12.28	52.51	0.49
Coyle	Ridgeville_E	171	SCS200yr	29.8	172.94	175.43	174.73	175.69	0.002863	2.32	14.26	55.65	0.49
Coyle	Ridgeville_E	171	RSnow100yr	16	172.94	174.78	174.19	174.95	0.002882	1.85	9.43	45.39	0.47
Coyle	Ridgeville_E	103	SCS2yr	6.89	172.93	174.34		174.36	0.0007	0.77	16.82	58.95	0.23
Coyle	Ridgeville_E	103	SCS5yr	9.78	172.93	174.48		174.5	0.000602	0.77	26.18	66.41	0.22
Coyle	Ridgeville_E	103	SCS10yr	12.47	172.93	174.62		174.64	0.000464	0.72	35.86	73.61	0.19
Coyle	Ridgeville_E	103	SCS25yr	16.71	172.93	174.87		174.88	0.000268	0.61	55.03	78.54	0.15
Coyle	Ridgeville_E	103	SCS50yr	20.54	172.93	175.08		175.09	0.000187	0.56	71.86	80.27	0.13
Coyle	Ridgeville_E	103	SCS100yr	23.91	172.93	175.26		175.27	0.000148	0.52	86.17	81.73	0.12
Coyle	Ridgeville_E	103	SCS200yr	29.8	172.93	175.55		175.55	0.000111	0.5	109.91	85.02	0.1
Coyle	Ridgeville_E	103	RSnow100yr	16	172.93	174.84		174.85	0.00028	0.62	52.49	78.24	0.15
Coyle	Ridgeville_E	102	SCS2yr	6.89	172.91	174.29		174.32	0.001297	0.98	16.88	80.24	0.31
Coyle	Ridgeville_E	102	SCS5yr	9.78	172.91	174.47		174.48	0.000616	0.75	31.19	85.25	0.22
Coyle	Ridgeville_E	102	SCS10yr	12.47	172.91	174.61		174.62	0.000392	0.64	43.81	88.28	0.18
Coyle	Ridgeville_E	102	SCS25yr	16.71	172.91	174.87		174.87	0.000204	0.52	66.9	92.69	0.13
Coyle	Ridgeville_E	102	SCS50yr	20.54	172.91	175.08		175.08	0.00014	0.47	87.03	95.67	0.11
Coyle	Ridgeville_E	102	SCS100yr	23.91	172.91	175.26		175.26	0.000109	0.44	104.2	97.69	0.1
Coyle	Ridgeville_E	102	SCS200yr	29.8	172.91	175.55		175.55	0.000081	0.41	132.62	100.55	0.09
Coyle	Ridgeville_E	102	RSnow100yr	16	172.91	174.83		174.84	0.000215	0.53	63.88	92.2	0.13
Coyle	Ridgeville_E	29	SCS2yr	6.89	172.63	174.28		174.29	0.0002	0.44	30.98	70.55	0.12
Coyle	Ridgeville_E	29	SCS5yr	9.78	172.63	174.45		174.46	0.000173	0.45	43.84	87.63	0.12
Coyle	Ridgeville_E	29	SCS10yr	12.47	172.63	174.6		174.6	0.000156	0.45	58.35	107.45	0.11
Coyle	Ridgeville_E	29	SCS25yr	16.71	172.63	174.86		174.86	0.0001	0.4	90.23	140.57	0.09
Coyle	Ridgeville_E	29	SCS50yr	20.54	172.63	175.08		175.08	0.000071	0.36	123.67	159.66	0.08
Coyle	Ridgeville_E	29	SCS100yr	23.91	172.63	175.25		175.26	0.000053	0.33	152.54	162.43	0.07
Coyle	Ridgeville_E	29	SCS200yr	29.8	172.63	175.54		175.54	0.000037	0.3	199.95	166.57	0.06
Coyle	Ridgeville_E	29	RSnow100yr	16	172.63	174.83		174.83	0.000101	0.4	85.73	133.07	0.09
Coyle	Ridgeville_W	8265	SCS2yr	1.84	204.69	205.13	205.13	205.25	0.019853	1.53	1.2	5.04	1
Coyle	Ridgeville_W	8265	SCS5yr	2.49	204.69	205.19	205.19	205.33	0.019259	1.65	1.51	5.53	1
Coyle	Ridgeville_W	8265	SCS10yr	3.11	204.69	205.23	205.23	205.39	0.018205	1.77	1.77	5.77	1
Coyle	Ridgeville_W	8265	SCS25yr	4.12	204.69	205.3	205.3	205.49	0.016525	1.92	2.18	6.09	0.99
Coyle	Ridgeville_W	8265	SCS50yr	5.08	204.69	205.36	205.36	205.57	0.015664	2.05	2.53	6.37	0.98
Coyle	Ridgeville_W	8265	SCS100yr	5.94	204.69	205.41	205.41	205.64	0.014875	2.14	2.86	6.62	0.97
Coyle	Ridgeville_W	8265	SCS200yr	7.51	204.69	205.49	205.49	205.76	0.013713	2.29	3.45	7.09	0.96
Coyle	Ridgeville_W	8265	RSnow100yr	4.34	204.69	205.32	205.32	205.51	0.016116	1.94	2.27	6.17	0.98
Coyle	Ridgeville_W	8196	SCS2yr	1.84	203.92	204.91		204.92	0.000247	0.39	5.73	15.71	0.14
Coyle	Ridgeville_W	8196	SCS5yr	2.49	203.92	205		205.01	0.000289	0.45	7.44	21.28	0.15
Coyle	Ridgeville_W	8196	SCS10yr	3.11	203.92	205.06		205.07	0.000343	0.51	8.58	22.16	0.16
Coyle	Ridgeville_W	8196	SCS25yr	4.12	203.92	205.12		205.14	0.000438	0.6	10.07	24.03	0.19
Coyle	Ridgeville_W	8196	SCS50yr	5.08	203.92	205.15		205.17	0.000569	0.7	10.8	24.67	0.22
Coyle	Ridgeville_W	8196	SCS100yr	5.94	203.92	205.19		205.21	0.000634	0.76	11.82	25.55	0.23
Coyle	Ridgeville_W	8196	SCS200yr	7.51	203.92	205.24		205.27	0.000795	0.87	13.07	26.3	0.26
Coyle	Ridgeville_W	8196	RSnow100yr	4.34	203.92	205.12		205.13	0.000494	0.64	9.99	23.97	0.2
Coyle	Ridgeville_W	8170	SCS2yr	1.84	203.64	204.91	204.19	204.92	0.000106	0.29	5.89	12.27	0.09
Coyle	Ridgeville_W	8170	SCS5yr	2.49	203.64	205	204.26	205.01	0.000116	0.32	7.24	16.44	0.1
Coyle	Ridgeville_W	8170	SCS10yr	3.11	203.64	205.05	204.31	205.06	0.000129	0.35	8.13	17.35	0.1
Coyle	Ridgeville_W	8170	SCS25yr	4.12	203.64	205.12	204.4	205.13	0.000161	0.4	9.3	20.85	0.11
Coyle	Ridgeville_W	8170	SCS50yr	5.08	203.64	205.14	204.48	205.16	0.000209	0.46	9.9	21.45	0.13
Coyle	Ridgeville_W	8170	SCS100yr	5.94	203.64	205.18	204.56	205.2	0.000226	0.49	10.78	22.59	0.14
Coyle	Ridgeville_W	8170	SCS200yr	7.51	203.64	205.23	204.7	205.25	0.000278	0.56	11.87	24.2	0.15
Coyle	Ridgeville_W	8170	RSnow100yr	4.34	203.64	205.11	204.41	205.12	0.000184	0.43	9.21	20.51	0.12
Coyle	Ridgeville_W	8157		Culvert									
Coyle	Ridgeville_W	8147	SCS2yr	1.84	203.4	204.08	204.02	204.22	0.01288	1.64	1.14	7.88	0.79
Coyle	Ridgeville_W	8147	SCS5yr	2.49	203.4	204.38	204.11	204.45	0.003808	1.26	2.06	43.34	0.47
Coyle	Ridgeville_W	8147	SCS10yr	3.11	203.4	204.58	204.19	204.58	0.000035	0.14	18.85	62	0.05
Coyle	Ridgeville_W	8147	SCS25yr	4.12	203.4	204.59	204.29	204.6	0.000051	0.17	20.01	62.29	0.06
Coyle	Ridgeville_W	8147	SCS50yr	5.08	203.4	204.61	204.43	204.62	0.000065	0.2	21.07	63.04	0.06
Coyle	Ridgeville_W	8147	SCS100yr	5.94	203.4	204.7	204.4	204.7	0.000043	0.17	26.65	68.09	0.05
Coyle	Ridgeville_W	8147	SCS200yr	7.51	203.4	204.85	204.4	204.85	0.000025	0.14	37.85	76.05	0.04
Coyle	Ridgeville_W	8147	RSnow100yr	4.34	203.4	204.6	204.32	204.6	0.000054	0.18	20.27	62.36	0.06
Coyle	Ridgeville_W	8139	SCS2yr	1.84	203.21	204.07	203.82	204.13	0.003281	1.14	1.78	3.75	0.45
Coyle	Ridgeville_W	8139	SCS5yr	2.49	203.21	204.37	203.91	204.42	0.001399	0.96	3.29	6.62	0.31
Coyle	Ridgeville_W	8139	SCS10yr	3.11	203.21	204.58	203.99	204.58	0.000079	0.26	26.15	85.32	0.08
Coyle	Ridgeville_W	8139	SCS25yr	4.12	203.21	204.49	204.11	204.57	0.00239	1.36	4.45	64.7	0.42
Coyle	Ridgeville_W	8139	SCS50yr	5.08	203.21	204.41	204.2	204.57	0.004992	1.87	3.56	7.49	0.6
Coyle	Ridgeville_W	8139	SCS100yr	5.94	203.21	204.29	204.29	204.6	0.011735	2.62	2.75	5.49	0.89
Coyle	Ridgeville_W	8139	SCS200yr	7.51	203.21	204.41	204.41	204.75	0.011087	2.78	3.52	7.36	0.89
Coyle	Ridgeville_W	8139	RSnow100yr	4.34	203.21	204.48	204.14	204.57	0.002842	1.47	4.26	62.79	0.45
Coyle	Ridgeville_W	8131		Culvert									
Coyle	Ridgeville_W	8122	SCS2yr	1.84	202.95	203.47	203.47	203.63	0.018699	1.75	1.05	44.44	0.99
Coyle	Ridgeville_W	8122	SCS5yr	2.49	202.95	203.55	203.55	203.73	0.016973	1.92	1.32	49.55	0.98
Coyle	Ridgeville_W	8122	SCS10yr	3.11	202.95	203.61	203.61	203.82	0.015622	2.04	1.57	51.98	0.96
Coyle	Ridgeville_W	8122	SCS25yr	4.12	202.95	203.71	203.71	203.95	0.014381	2.21	1.94	54.9	0.95
Coyle	Ridgeville_W	8122	SCS50yr	5.08	202.95	203.78	203.78	204.06	0.01405	2.38	2.24	57.79	0.96
Coyle	Ridgeville_W	8122	SCS100yr	5.94	202.95	203.8	203.8	203.8	0.000322	0.37	24.59	58.29	0.15
Coyle	Ridgeville_W	8122	SCS200yr	7.51	202.95	203.8	203.8	203.81	0.000514	0.47	24.59	58.29	0.19
Coyle	Ridgeville_W	8122	RSnow100yr	4.34	202.95	203.72	203.72	203.98	0.014257	2.25	2.01	55.39	0.95
Coyle	Ridgeville_W	8090	SCS2yr	1.84	202.46	202.9	202.88	203.01	0.015795	1.42	1.3	5.91	0.9
Coyle	Ridgeville_W	8090	SCS5yr	2.49	202.46	202.98	202.98	203.06	0.01249	1.36	2.23	17.87	0.82
Coyle	Ridgeville_W	8090	SCS10yr	3.11	202.46	203.03	203.03	203.1	0.008672	1.27	3.6	35.41	0.7
Coyle	Ridgeville_W	8090	SCS25yr	4.12	202.46	203.07	203.07	203.14	0.008246	1.33	5.1	42.79	0.7
Coyle	Ridgeville_W	8090	SCS50yr	5.08	202.46	203.09	203.09	203.17	0.008973	1.43	6.01	48.08	0.73
Coyle	Ridgeville_W	8090	SCS100yr	5.94	202.46	203.12	203.12	203.19	0.0076	1.39	7.63	51.98	0.68
Coyle	Ridgeville_W	8090	SCS200yr	7.51	202.46	203.14	203.14	203.22	0.009204	1.57	8.59	53.26	0.75
Coyle	Ridgeville_W	8090	RSnow100yr	4.34	202.46	203.08	203.08	203.14	0.008043	1.33	5.44	43.9	0.69
Coyle	Ridgeville_W	8052	SCS2yr	1.84	201.79	202.2	202.2	202.34	0.019317	1.66	1.11	4.01	1
Coyle	Ridgeville_W	8052	SCS5yr	2.49	201.79	202.27	202.27	202.43	0.018392	1.78	1.4	4.37	1

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	8052	SCS10yr	3.11	201.79	202.32	202.32	202.5	0.017312	1.89	1.65	4.63	0.99
Coyle	Ridgeville_W	8052	SCS25yr	4.12	201.79	202.4	202.4	202.62	0.015796	2.06	2.03	5.03	0.98
Coyle	Ridgeville_W	8052	SCS50yr	5.08	201.79	202.47	202.47	202.71	0.014562	2.18	2.41	5.67	0.96
Coyle	Ridgeville_W	8052	SCS100yr	5.94	201.79	202.53	202.53	202.79	0.013823	2.28	2.75	6.15	0.96
Coyle	Ridgeville_W	8052	SCS200yr	7.51	201.79	202.64	202.64	202.78	0.007126	1.84	6.9	30.13	0.71
Coyle	Ridgeville_W	8052	RSnow100yr	4.34	201.79	202.41	202.41	202.64	0.015861	2.1	2.1	5.11	0.99
Coyle	Ridgeville_W	8011	SCS2yr	1.84	201.27	201.8		201.86	0.004835	1.03	1.79	4.73	0.53
Coyle	Ridgeville_W	8011	SCS5yr	2.49	201.27	201.87		201.94	0.00516	1.19	2.12	5.13	0.56
Coyle	Ridgeville_W	8011	SCS10yr	3.11	201.27	201.92		202.01	0.00564	1.33	2.39	5.46	0.6
Coyle	Ridgeville_W	8011	SCS25yr	4.12	201.27	201.99	201.85	202.11	0.006499	1.55	2.77	6.13	0.65
Coyle	Ridgeville_W	8011	SCS50yr	5.08	201.27	202.03	201.92	202.18	0.007741	1.77	3.05	7.76	0.72
Coyle	Ridgeville_W	8011	SCS100yr	5.94	201.27	202.06	201.98	202.25	0.008574	1.94	3.38	10.5	0.77
Coyle	Ridgeville_W	8011	SCS200yr	7.51	201.27	202.16	202.16	202.35	0.008002	2.04	4.91	22.82	0.76
Coyle	Ridgeville_W	8011	RSnow100yr	4.34	201.27	202	201.86	202.13	0.006672	1.59	2.85	6.69	0.66
Coyle	Ridgeville_W	7908	SCS2yr	1.84	200.5	200.83	200.83	200.93	0.021644	1.41	1.31	6.65	1.02
Coyle	Ridgeville_W	7908	SCS5yr	2.49	200.5	200.89	200.89	200.99	0.020761	1.41	1.76	8.67	1
Coyle	Ridgeville_W	7908	SCS10yr	3.11	200.5	200.93	200.92	201.04	0.01879	1.46	2.13	9.3	0.97
Coyle	Ridgeville_W	7908	SCS25yr	4.12	200.5	201	200.98	201.11	0.015843	1.44	2.87	11.32	0.91
Coyle	Ridgeville_W	7908	SCS50yr	5.08	200.5	201.05	201.05	201.16	0.012803	1.45	4.17	36.59	0.84
Coyle	Ridgeville_W	7908	SCS100yr	5.94	200.5	201.08	201.08	201.19	0.011953	1.49	5.28	37.17	0.83
Coyle	Ridgeville_W	7908	SCS200yr	7.51	200.5	201.13	201.13	201.24	0.011413	1.58	6.91	37.8	0.82
Coyle	Ridgeville_W	7908	RSnow100yr	4.34	200.5	201.01	200.99	201.12	0.015381	1.45	3.01	14.75	0.9
Coyle	Ridgeville_W	7815	SCS2yr	1.84	199.03	199.48	199.42	199.57	0.010321	1.3	1.41	4.57	0.75
Coyle	Ridgeville_W	7815	SCS5yr	2.49	199.03	199.54	199.48	199.65	0.010599	1.45	1.72	4.86	0.77
Coyle	Ridgeville_W	7815	SCS10yr	3.11	199.03	199.59	199.54	199.72	0.011066	1.6	1.95	5.07	0.81
Coyle	Ridgeville_W	7815	SCS25yr	4.12	199.03	199.65	199.61	199.82	0.012029	1.84	2.27	5.35	0.86
Coyle	Ridgeville_W	7815	SCS50yr	5.08	199.03	199.7	199.67	199.91	0.012737	2.03	2.56	5.59	0.9
Coyle	Ridgeville_W	7815	SCS100yr	5.94	199.03	199.74	199.73	199.99	0.013558	2.2	2.78	5.8	0.94
Coyle	Ridgeville_W	7815	SCS200yr	7.51	199.03	199.93	199.93	200.04	0.004996	1.62	11.43	78.78	0.6
Coyle	Ridgeville_W	7815	RSnow100yr	4.34	199.03	199.67	199.63	199.85	0.012204	1.89	2.34	5.41	0.87
Coyle	Ridgeville_W	7744	SCS2yr	1.84	198.19	198.6	198.57	198.71	0.014056	1.47	1.26	4.27	0.86
Coyle	Ridgeville_W	7744	SCS5yr	2.49	198.19	198.67		198.8	0.013452	1.55	1.6	4.82	0.86
Coyle	Ridgeville_W	7744	SCS10yr	3.11	198.19	198.73	198.7	198.87	0.012917	1.65	1.9	5.67	0.86
Coyle	Ridgeville_W	7744	SCS25yr	4.12	198.19	198.81	198.77	198.97	0.01174	1.79	2.38	6.27	0.85
Coyle	Ridgeville_W	7744	SCS50yr	5.08	198.19	198.88	198.83	199.06	0.011128	1.9	2.82	7.21	0.84
Coyle	Ridgeville_W	7744	SCS100yr	5.94	198.19	198.93	198.89	199.13	0.010509	1.98	3.25	7.8	0.83
Coyle	Ridgeville_W	7744	SCS200yr	7.51	198.19	199.02	198.98	199.24	0.010062	2.13	3.96	8.51	0.84
Coyle	Ridgeville_W	7744	RSnow100yr	4.34	198.19	198.83	198.78	198.99	0.011571	1.81	2.48	6.5	0.85
Coyle	Ridgeville_W	7660	SCS2yr	1.84	197.42	197.95		198.01	0.005328	1.05	1.76	4.93	0.55
Coyle	Ridgeville_W	7660	SCS5yr	2.49	197.42	198.02		198.09	0.0055	1.2	2.11	5.41	0.58
Coyle	Ridgeville_W	7660	SCS10yr	3.11	197.42	198.07		198.16	0.005735	1.32	2.42	5.82	0.6
Coyle	Ridgeville_W	7660	SCS25yr	4.12	197.42	198.15		198.27	0.006119	1.5	2.89	6.77	0.64
Coyle	Ridgeville_W	7660	SCS50yr	5.08	197.42	198.21	198.08	198.35	0.006388	1.65	3.36	7.73	0.66
Coyle	Ridgeville_W	7660	SCS100yr	5.94	197.42	198.26	198.13	198.42	0.006773	1.78	3.72	8.28	0.69
Coyle	Ridgeville_W	7660	SCS200yr	7.51	197.42	198.34	198.24	198.53	0.007095	1.96	4.45	9.45	0.72
Coyle	Ridgeville_W	7660	RSnow100yr	4.34	197.42	198.17	198.02	198.29	0.00618	1.54	3	7.22	0.64
Coyle	Ridgeville_W	7587	SCS2yr	1.84	196.73	197.19	197.19	197.31	0.021267	1.56	1.18	4.87	1.01
Coyle	Ridgeville_W	7587	SCS5yr	2.49	196.73	197.25	197.25	197.39	0.020469	1.69	1.47	5.31	1.01
Coyle	Ridgeville_W	7587	SCS10yr	3.11	196.73	197.29	197.29	197.46	0.019108	1.81	1.73	5.63	1
Coyle	Ridgeville_W	7587	SCS25yr	4.12	196.73	197.36	197.36	197.56	0.017246	1.96	2.15	6.15	0.99
Coyle	Ridgeville_W	7587	SCS50yr	5.08	196.73	197.43	197.43	197.64	0.015979	2.08	2.55	6.75	0.97
Coyle	Ridgeville_W	7587	SCS100yr	5.94	196.73	197.48	197.48	197.71	0.014608	2.14	2.95	7.31	0.95
Coyle	Ridgeville_W	7587	SCS200yr	7.51	196.73	197.57	197.57	197.82	0.0136	2.29	3.6	8.05	0.94
Coyle	Ridgeville_W	7587	RSnow100yr	4.34	196.73	197.38	197.38	197.58	0.016997	1.99	2.24	6.28	0.99
Coyle	Ridgeville_W	7485	SCS2yr	1.84	194.86	195.6	195.42	195.68	0.005227	1.3	1.49	3.25	0.56
Coyle	Ridgeville_W	7485	SCS5yr	2.49	194.86	195.69	195.51	195.8	0.005469	1.48	1.81	3.46	0.59
Coyle	Ridgeville_W	7485	SCS10yr	3.11	194.86	195.77	195.58	195.91	0.005654	1.63	2.1	3.64	0.61
Coyle	Ridgeville_W	7485	SCS25yr	4.12	194.86	195.89	195.69	196.06	0.005866	1.84	2.55	3.92	0.64
Coyle	Ridgeville_W	7485	SCS50yr	5.08	194.86	195.99	195.79	196.19	0.006043	2.01	2.95	4.18	0.66
Coyle	Ridgeville_W	7485	SCS100yr	5.94	194.86	196.07	195.86	196.3	0.00621	2.15	3.29	4.35	0.68
Coyle	Ridgeville_W	7485	SCS200yr	7.51	194.86	196.2	196	196.47	0.006489	2.38	3.87	4.63	0.71
Coyle	Ridgeville_W	7485	RSnow100yr	4.34	194.86	195.92	195.71	196.09	0.005893	1.88	2.65	3.99	0.64
Coyle	Ridgeville_W	7404	SCS2yr	1.84	194.33	194.87	194.84	195	0.014569	1.65	1.12	3.23	0.89
Coyle	Ridgeville_W	7404	SCS5yr	2.49	194.33	194.94	194.91	195.11	0.014212	1.85	1.36	3.41	0.9
Coyle	Ridgeville_W	7404	SCS10yr	3.11	194.33	195	194.98	195.21	0.013954	2.01	1.58	3.57	0.91
Coyle	Ridgeville_W	7404	SCS25yr	4.12	194.33	195.09	195.07	195.35	0.013771	2.24	1.92	3.81	0.93
Coyle	Ridgeville_W	7404	SCS50yr	5.08	194.33	195.17	195.16	195.47	0.013577	2.42	2.24	4.14	0.95
Coyle	Ridgeville_W	7404	SCS100yr	5.94	194.33	195.24	195.23	195.57	0.013328	2.55	2.52	4.3	0.95
Coyle	Ridgeville_W	7404	SCS200yr	7.51	194.33	195.35	195.35	195.73	0.012911	2.77	3.02	4.55	0.96
Coyle	Ridgeville_W	7404	RSnow100yr	4.34	194.33	195.11	195.1	195.38	0.013769	2.28	1.99	4	0.94
Coyle	Ridgeville_W	7330	SCS2yr	1.84	193.97	194.59		194.63	0.002281	0.82	2.28	5.1	0.38
Coyle	Ridgeville_W	7330	SCS5yr	2.49	193.97	194.69		194.73	0.002265	0.92	2.78	5.4	0.39
Coyle	Ridgeville_W	7330	SCS10yr	3.11	193.97	194.77		194.82	0.002261	1	3.23	5.63	0.39
Coyle	Ridgeville_W	7330	SCS25yr	4.12	193.97	194.9		194.96	0.0022	1.11	3.96	5.99	0.4
Coyle	Ridgeville_W	7330	SCS50yr	5.08	193.97	195		195.07	0.002159	1.2	4.61	6.29	0.4
Coyle	Ridgeville_W	7330	SCS100yr	5.94	193.97	195.09		195.17	0.002132	1.27	5.19	6.64	0.41
Coyle	Ridgeville_W	7330	SCS200yr	7.51	193.97	195.24		195.33	0.002092	1.38	6.23	7.53	0.41
Coyle	Ridgeville_W	7330	RSnow100yr	4.34	193.97	194.92		194.99	0.00219	1.13	4.11	6.06	0.4
Coyle	Ridgeville_W	7249	SCS2yr	1.84	193.58	194.14		194.26	0.011562	1.56	1.18	3.23	0.8
Coyle	Ridgeville_W	7249	SCS5yr	2.49	193.58	194.23		194.38	0.010594	1.72	1.49	3.6	0.79
Coyle	Ridgeville_W	7249	SCS10yr	3.11	193.58	194.31		194.48	0.009961	1.84	1.78	3.89	0.78
Coyle	Ridgeville_W	7249	SCS25yr	4.12	193.58	194.41	194.33	194.62	0.009619	2.03	2.21	4.27	0.79
Coyle	Ridgeville_W	7249	SCS50yr	5.08	193.58	194.5	194.42	194.74	0.009512	2.19	2.6	4.58	0.8
Coyle	Ridgeville_W	7249	SCS100yr	5.94	193.58	194.57	194.49	194.84	0.009462	2.32	2.94	4.84	0.81
Coyle	Ridgeville_W	7249	SCS200yr	7.51	193.58	194.68	194.6	195	0.009821	2.56	3.69	14.85	0.85
Coyle	Ridgeville_W	7249	RSnow100yr	4.34	193.58	194.43	194.35	194.65	0.009582	2.07	2.31	4.34	0.79
Coyle	Ridgeville_W	7166	SCS2yr	1.84	193.17	193.82	193.57	193.86	0.002411	0.86	2.16	4.71	0.39
Coyle	Ridgeville_W	7166	SCS5yr	2.49	193.17	193.9	193.64	193.95	0.002718	1.01	2.54	5.06	0.42
Coyle	Ridgeville_W	7166	SCS10yr	3.11	193.17	193.96	193.7	194.02	0.003063	1.14	2.84	5.44	0.45
Coyle	Ridgeville_W	7166	SCS25yr	4.12	193.17	194.04	193.78	194.13	0.003535	1.33	3.32	6.11	0.5
Coyle	Ridgeville_W	7166	SCS50yr	5.08	193.17	194.11	193.85	194.21	0.003938	1.48	3.73	6.53	0.53
Coyle	Ridgeville_W	7166	SCS100yr	5.94	193.17	194.16	193.91	194.29	0.004241	1.61	4.13	7.78	0.56
Coyle	Ridgeville_W	7166	SCS200yr	7.51	193.17	194.25	194.03	194.41	0.004587	1.8	4.91	9.15	0.59
Coyle	Ridgeville_W	7166	RSnow100yr	4.34	193.17	194.06	193.8	194.15	0.003633	1.37	3.42	6.19	0.51
Coyle	Ridgeville_W	7108	SCS2yr	1.84	193.16	193.73	193.46	193.75	0.001508	0.63	2.91	18.47	0.3
Coyle	Ridgeville_W	7108	SCS5yr	2.49	193.16	193.79	193.51	193.82	0.00173	0.75	3.37	31.34	0.33
Coyle	Ridgeville_W	7108	SCS10yr	3.11	193.16	193.83	193.56	193.87	0.002096	0.86	3.66	34.28	0.37
Coyle	Ridgeville_W	7108	SCS25yr	4.12	193.16	193.89	193.62	193.94	0.002672	1.04	4.08	38.02	0.43
Coyle	Ridgeville_W	7108	SCS50yr	5.08	193.16	193.92	193.68	193.99	0.003453	1.22	4.3	41.71	0.49
Coyle	Ridgeville_W	7108	SCS100yr	5.94	193.16	193.95	193.72	194.04	0.003954	1.35	4.58	42.68	0.53
Coyle	Ridgeville_W	7108	SCS200yr	7.51	193.16	194	193.8	194.13	0.004968	1.58	4.98	44.36	0.6
Coyle	Ridgeville_W	7108	RSnow100yr	4.34	193.16	193.9	193.64	193.96	0.002803	1.07	4.16	38.7	0.44
Coyle	Ridgeville_W	7029	SCS2yr	3.37	192.88	193.5	193.29	193.55	0.003492	1.01	4.96	44.64	0.44

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	7029	SCS5yr	4.68	192.88	193.56	193.44	193.6	0.003654	1.1	7.78	60.74	0.46
Coyle	Ridgeville_W	7029	SCS10yr	5.92	192.88	193.6	193.54	193.64	0.003526	1.13	10.19	66.4	0.45
Coyle	Ridgeville_W	7029	SCS25yr	7.96	192.88	193.66	193.6	193.7	0.003312	1.16	14.17	76.44	0.45
Coyle	Ridgeville_W	7029	SCS50yr	9.9	192.88	193.71	193.63	193.75	0.002771	1.12	18.34	80.64	0.41
Coyle	Ridgeville_W	7029	SCS100yr	11.63	192.88	193.74	193.64	193.78	0.002902	1.17	20.38	81.64	0.43
Coyle	Ridgeville_W	7029	SCS200yr	14.75	192.88	193.79	193.7	193.83	0.002945	1.24	24.34	87.38	0.43
Coyle	Ridgeville_W	7029	RSnow100yr	8.63	192.88	193.67	193.61	193.71	0.003137	1.15	15.55	78.91	0.44
Coyle	Ridgeville_W	6945	SCS2yr	3.37	192.34	192.86	192.86	193	0.015272	1.69	2.12	8.95	0.93
Coyle	Ridgeville_W	6945	SCS5yr	4.68	192.34	192.96	192.94	193.1	0.01118	1.72	3.14	11.06	0.83
Coyle	Ridgeville_W	6945	SCS10yr	5.92	192.34	193.05	193.01	193.18	0.008943	1.73	4.22	13.56	0.76
Coyle	Ridgeville_W	6945	SCS25yr	7.96	192.34	193.17	193.1	193.3	0.00692	1.75	6	18.06	0.7
Coyle	Ridgeville_W	6945	SCS50yr	9.9	192.34	193.26	193.16	193.4	0.006433	1.84	8.34	34.89	0.69
Coyle	Ridgeville_W	6945	SCS100yr	11.63	192.34	193.34	193.2	193.46	0.004943	1.74	12.03	49.11	0.61
Coyle	Ridgeville_W	6945	SCS200yr	14.75	192.34	193.43	193.39	193.53	0.004212	1.72	16.71	61.26	0.57
Coyle	Ridgeville_W	6945	RSnow100yr	8.63	192.34	193.2	193.12	193.33	0.00667	1.77	6.65	22.57	0.69
Coyle	Ridgeville_W	6865	SCS2yr	3.37	191.69	192.48	192.18	192.54	0.00259	1.09	3.26	7.08	0.42
Coyle	Ridgeville_W	6865	SCS5yr	4.68	191.69	192.6	192.28	192.68	0.002816	1.26	4.26	10.23	0.45
Coyle	Ridgeville_W	6865	SCS10yr	5.92	191.69	192.68	192.36	192.77	0.003102	1.41	5.17	12.74	0.48
Coyle	Ridgeville_W	6865	SCS25yr	7.96	191.69	192.77	192.52	192.89	0.003742	1.65	6.5	16.79	0.53
Coyle	Ridgeville_W	6865	SCS50yr	9.9	191.69	192.84	192.67	192.99	0.004101	1.81	7.96	26.4	0.56
Coyle	Ridgeville_W	6865	SCS100yr	11.63	191.69	192.9	192.73	193.07	0.004615	1.99	9.66	38.51	0.6
Coyle	Ridgeville_W	6865	SCS200yr	14.75	191.69	192.97	192.87	193.15	0.005041	2.16	12.75	48.78	0.64
Coyle	Ridgeville_W	6865	RSnow100yr	8.63	191.69	192.8	192.57	192.93	0.003899	1.71	6.94	17.62	0.55
Coyle	Ridgeville_W	6785	SCS2yr	3.37	191.51	192.1	191.99	192.21	0.007786	1.48	2.32	6.02	0.69
Coyle	Ridgeville_W	6785	SCS5yr	4.68	191.51	192.21	192.09	192.34	0.006918	1.61	3.24	11.75	0.68
Coyle	Ridgeville_W	6785	SCS10yr	5.92	191.51	192.3	192.2	192.43	0.0061	1.67	4.45	14.87	0.65
Coyle	Ridgeville_W	6785	SCS25yr	7.96	191.51	192.43	192.33	192.55	0.004971	1.69	7.34	29.34	0.6
Coyle	Ridgeville_W	6785	SCS50yr	9.9	191.51	192.5	192.46	192.63	0.004911	1.78	9.82	40.93	0.61
Coyle	Ridgeville_W	6785	SCS100yr	11.63	191.51	192.54	192.53	192.67	0.005007	1.86	11.66	46.15	0.62
Coyle	Ridgeville_W	6785	SCS200yr	14.75	191.51	192.62	192.62	192.74	0.004727	1.9	16.04	67.13	0.61
Coyle	Ridgeville_W	6785	RSnow100yr	8.63	191.51	192.46	192.4	192.58	0.0048	1.71	8.31	34.26	0.6
Coyle	Ridgeville_W	6686	SCS2yr	3.37	190.83	191.93		191.97	0.00102	0.85	5.05	22.27	0.28
Coyle	Ridgeville_W	6686	SCS5yr	4.68	190.83	191.97		192.03	0.001622	1.1	6	28.35	0.36
Coyle	Ridgeville_W	6686	SCS10yr	5.92	190.83	192	191.61	192.08	0.002218	1.31	6.96	36.88	0.42
Coyle	Ridgeville_W	6686	SCS25yr	7.96	190.83	192.04	191.75	192.15	0.003295	1.64	8.67	49.88	0.51
Coyle	Ridgeville_W	6686	SCS50yr	9.9	190.83	192.09	192.09	192.21	0.003611	1.77	11.58	66.27	0.54
Coyle	Ridgeville_W	6686	SCS100yr	11.63	190.83	192.13	192.13	192.25	0.003606	1.82	14.63	73.21	0.54
Coyle	Ridgeville_W	6686	SCS200yr	14.75	190.83	192.19	192.19	192.31	0.00382	1.93	18.93	80.81	0.56
Coyle	Ridgeville_W	6686	RSnow100yr	8.63	190.83	192.05	191.78	192.18	0.003517	1.71	9.45	55.13	0.53
Coyle	Ridgeville_W	6628	SCS2yr	3.37	190.64	191.92	191.11	191.93	0.000209	0.44	14.03	53.86	0.13
Coyle	Ridgeville_W	6628	SCS5yr	4.68	190.64	191.95	191.2	191.97	0.000339	0.58	15.9	62.36	0.17
Coyle	Ridgeville_W	6628	SCS10yr	5.92	190.64	191.98	191.28	191.99	0.000487	0.7	17.28	66.56	0.2
Coyle	Ridgeville_W	6628	SCS25yr	7.96	190.64	192	191.39	192.03	0.000763	0.89	19.07	71.09	0.25
Coyle	Ridgeville_W	6628	SCS50yr	9.9	190.64	192.02	191.49	192.06	0.001064	1.06	20.61	77.3	0.3
Coyle	Ridgeville_W	6628	SCS100yr	11.63	190.64	192.03	191.58	192.09	0.001363	1.21	21.54	78.38	0.34
Coyle	Ridgeville_W	6628	SCS200yr	14.75	190.64	192.05	191.86	192.12	0.002001	1.47	22.67	79.43	0.41
Coyle	Ridgeville_W	6628	RSnow100yr	8.63	190.64	192.01	191.43	192.04	0.000856	0.94	19.66	73.33	0.27
Coyle	Ridgeville_W	6621		Culvert									
Coyle	Ridgeville_W	6616	SCS2yr	3.37	190.64	191.57	191.16	191.61	0.001213	0.82	4.61	10.44	0.3
Coyle	Ridgeville_W	6616	SCS5yr	4.68	190.64	191.64	191.25	191.69	0.001666	1.02	6.15	29.47	0.35
Coyle	Ridgeville_W	6616	SCS10yr	5.92	190.64	191.68	191.32	191.75	0.002219	1.2	7.16	32.13	0.41
Coyle	Ridgeville_W	6616	SCS25yr	7.96	190.64	191.74	191.44	191.83	0.002819	1.42	9.21	35.91	0.47
Coyle	Ridgeville_W	6616	SCS50yr	9.9	190.64	191.77	191.54	191.88	0.003685	1.65	10.29	42.69	0.54
Coyle	Ridgeville_W	6616	SCS100yr	11.63	190.64	191.8	191.73	191.93	0.004266	1.82	11.55	44.43	0.58
Coyle	Ridgeville_W	6616	SCS200yr	14.75	190.64	191.86	191.86	192	0.004687	1.98	14.62	55.66	0.61
Coyle	Ridgeville_W	6616	RSnow100yr	8.63	190.64	191.74	191.47	191.84	0.003285	1.53	9.26	36.11	0.5
Coyle	Ridgeville_W	6568	SCS2yr	3.37	190.49	191.57	190.96	191.58	0.000145	0.31	20.12	68.94	0.11
Coyle	Ridgeville_W	6568	SCS5yr	4.68	190.49	191.65	191.03	191.65	0.000183	0.37	26.07	88.96	0.12
Coyle	Ridgeville_W	6568	SCS10yr	5.92	190.49	191.68	191.1	191.69	0.000235	0.42	29.31	93.87	0.14
Coyle	Ridgeville_W	6568	SCS25yr	7.96	190.49	191.75	191.17	191.75	0.000284	0.49	35.82	105.44	0.15
Coyle	Ridgeville_W	6568	SCS50yr	9.9	190.49	191.78	191.26	191.79	0.000354	0.56	39.35	107.9	0.17
Coyle	Ridgeville_W	6568	SCS100yr	11.63	190.49	191.81	191.32	191.82	0.000403	0.6	42.81	110.84	0.18
Coyle	Ridgeville_W	6568	SCS200yr	14.75	190.49	191.86	191.41	191.88	0.000487	0.69	48.94	123.35	0.2
Coyle	Ridgeville_W	6568	RSnow100yr	8.63	190.49	191.75	191.23	191.76	0.000326	0.52	36.19	105.7	0.16
Coyle	Ridgeville_W	6516	SCS2yr	3.37	190.34	191.57		191.57	0.000065	0.24	30	80.37	0.07
Coyle	Ridgeville_W	6516	SCS5yr	4.68	190.34	191.64		191.65	0.000081	0.29	36.14	90	0.08
Coyle	Ridgeville_W	6516	SCS10yr	5.92	190.34	191.68		191.68	0.000108	0.34	39.27	95.68	0.1
Coyle	Ridgeville_W	6516	SCS25yr	7.96	190.34	191.74		191.74	0.000142	0.4	45.73	105.89	0.11
Coyle	Ridgeville_W	6516	SCS50yr	9.9	190.34	191.77		191.78	0.000189	0.47	49.03	113.71	0.13
Coyle	Ridgeville_W	6516	SCS100yr	11.63	190.34	191.8		191.81	0.000223	0.51	52.45	116.46	0.14
Coyle	Ridgeville_W	6516	SCS200yr	14.75	190.34	191.85		191.86	0.000281	0.59	58.21	120.97	0.16
Coyle	Ridgeville_W	6516	RSnow100yr	8.63	190.34	191.74		191.75	0.000165	0.43	45.96	106.07	0.12
Coyle	Ridgeville_W	6484	SCS2yr	3.37	190.3	191.57		191.57	0.000021	0.15	49.01	88.36	0.04
Coyle	Ridgeville_W	6484	SCS5yr	4.68	190.3	191.64		191.64	0.000029	0.18	55.53	90.62	0.05
Coyle	Ridgeville_W	6484	SCS10yr	5.92	190.3	191.68		191.68	0.00004	0.21	58.59	91.49	0.06
Coyle	Ridgeville_W	6484	SCS25yr	7.96	190.3	191.74		191.74	0.000055	0.26	64.38	93.49	0.07
Coyle	Ridgeville_W	6484	SCS50yr	9.9	190.3	191.77		191.77	0.000076	0.31	67.19	94.55	0.08
Coyle	Ridgeville_W	6484	SCS100yr	11.63	190.3	191.8		191.8	0.000094	0.35	69.96	95.45	0.09
Coyle	Ridgeville_W	6484	SCS200yr	14.75	190.3	191.85		191.85	0.000126	0.41	74.53	96.69	0.11
Coyle	Ridgeville_W	6484	RSnow100yr	8.63	190.3	191.74		191.74	0.000064	0.28	64.57	93.57	0.08
Coyle	Ridgeville_W	6470	SCS2yr	3.37	189.83	191.57	190.38	191.57	0.000022	0.17	40.2	98.21	0.04
Coyle	Ridgeville_W	6470	SCS5yr	4.68	189.83	191.64	190.46	191.64	0.000032	0.21	45.54	102.72	0.05
Coyle	Ridgeville_W	6470	SCS10yr	5.92	189.83	191.67	190.51	191.68	0.000045	0.25	48.03	106.05	0.06
Coyle	Ridgeville_W	6470	SCS25yr	7.96	189.83	191.74	190.6	191.74	0.000064	0.31	52.8	108.97	0.08
Coyle	Ridgeville_W	6470	SCS50yr	9.9	189.83	191.77	190.68	191.77	0.000088	0.37	55.07	109.61	0.09
Coyle	Ridgeville_W	6470	SCS100yr	11.63	189.83	191.79	190.73	191.8	0.00011	0.41	57.29	110.04	0.1
Coyle	Ridgeville_W	6470	SCS200yr	14.75	189.83	191.84	190.83	191.85	0.000087	0.37	85.2	112.22	0.09
Coyle	Ridgeville_W	6470	RSnow100yr	8.63	189.83	191.74	190.63	191.74	0.000075	0.33	52.93	109.02	0.08
Coyle	Ridgeville_W	6460		Culvert									
Coyle	Ridgeville_W	6451	SCS2yr	3.37	189.43	190.02	189.99	190.16	0.013069	1.66	2.03	5.55	0.86
Coyle	Ridgeville_W	6451	SCS5yr	4.68	189.43	190.12	190.07	190.29	0.012119	1.85	2.53	5.7	0.85
Coyle	Ridgeville_W	6451	SCS10yr	5.92	189.43	190.2	190.14	190.4	0.011539	2	2.96	5.98	0.86
Coyle	Ridgeville_W	6451	SCS25yr	7.96	189.43	190.33	190.25	190.57	0.010365	2.18	3.65	6.55	0.84
Coyle	Ridgeville_W	6451	SCS50yr	9.9	189.43	190.45	190.35	190.72	0.009331	2.31	4.29	7.99	0.82
Coyle	Ridgeville_W	6451	SCS100yr	11.63	189.43	190.55	190.43	190.85	0.008756	2.41	4.82	9.34	0.81
Coyle	Ridgeville_W	6451	SCS200yr	14.75	189.43	190.71	190.57	191.06	0.008079	2.59	5.69	15.53	0.8
Coyle	Ridgeville_W	6451	RSnow100yr	8.63	189.43	190.37	190.29	190.62	0.009941	2.23	3.88	7.06	0.83
Coyle	Ridgeville_W	6439	SCS2yr	3.37	189.31	189.98		190.04	0.004767	1.07	3.16	8.28	0.53
Coyle	Ridgeville_W	6439	SCS5yr	4.68	189.31	190.1		190.16	0.003545	1.1	4.25	9.17	0.48
Coyle	Ridgeville_W	6439	SCS10yr	5.92	189.31	190.21		190.27	0.002893	1.12	5.24	9.71	0.45
Coyle	Ridgeville_W	6439	SCS25yr	7.96	189.31	190.37		190.44	0.002216	1.14	6.83	10.49	0.41
Coyle	Ridgeville_W	6439	SCS50yr	9.9	189.31	190.51		190.58	0.001832	1.15	8.43	12.8	0.38

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	6439	SCS100yr	11.63	189.31	190.63		190.7	0.001481	1.12	10.11	15.34	0.35
Coyle	Ridgeville_W	6439	SCS200yr	14.75	189.31	190.84		190.88	0.000955	1.02	16.53	50.03	0.29
Coyle	Ridgeville_W	6439	RSnow100yr	8.63	189.31	190.42		190.49	0.002067	1.14	7.37	11.22	0.4
Coyle	Ridgeville_W	6387	SCS2yr	3.37	188.82	189.73	189.48	189.82	0.003664	1.33	2.8	5.03	0.51
Coyle	Ridgeville_W	6387	SCS5yr	4.68	188.82	189.83	189.6	189.95	0.004538	1.61	3.29	5.33	0.57
Coyle	Ridgeville_W	6387	SCS10yr	5.92	188.82	189.89	189.7	190.06	0.00547	1.86	3.65	5.54	0.64
Coyle	Ridgeville_W	6387	SCS25yr	7.96	188.82	190.01	189.83	190.24	0.006257	2.17	4.35	6.06	0.7
Coyle	Ridgeville_W	6387	SCS50yr	9.9	188.82	190.12		190.4	0.006624	2.4	5.05	6.62	0.73
Coyle	Ridgeville_W	6387	SCS100yr	11.63	188.82	190.22	190.05	190.53	0.006801	2.57	5.71	7.36	0.75
Coyle	Ridgeville_W	6387	SCS200yr	14.75	188.82	190.32	190.19	190.73	0.008163	2.97	6.55	9.53	0.83
Coyle	Ridgeville_W	6387	RSnow100yr	8.63	188.82	190.05		190.3	0.006415	2.26	4.59	6.26	0.71
Coyle	Ridgeville_W	6337	SCS2yr	3.37	188.65	189.28	189.28	189.45	0.018361	1.87	1.82	5.4	0.99
Coyle	Ridgeville_W	6337	SCS5yr	4.68	188.65	189.4	189.37	189.59	0.012641	1.9	2.55	5.96	0.87
Coyle	Ridgeville_W	6337	SCS10yr	5.92	188.65	189.54	189.44	189.71	0.008856	1.87	3.39	6.52	0.75
Coyle	Ridgeville_W	6337	SCS25yr	7.96	188.65	189.73	189.56	189.91	0.006273	1.88	4.73	7.29	0.66
Coyle	Ridgeville_W	6337	SCS50yr	9.9	188.65	189.9	189.66	190.08	0.005128	1.92	5.97	8.02	0.62
Coyle	Ridgeville_W	6337	SCS100yr	11.63	188.65	190.04	189.74	190.22	0.0043	1.93	7.41	14.99	0.58
Coyle	Ridgeville_W	6337	SCS200yr	14.75	188.65	190.25	189.87	190.41	0.00335	1.9	12.6	34.62	0.53
Coyle	Ridgeville_W	6337	RSnow100yr	8.63	188.65	189.79	189.59	189.97	0.005809	1.9	5.15	7.55	0.65
Coyle	Ridgeville_W	6268	SCS2yr	3.37	188.01	189.08	188.65	189.13	0.001531	0.99	3.82	5.62	0.34
Coyle	Ridgeville_W	6268	SCS5yr	4.68	188.01	189.25	188.76	189.31	0.001565	1.12	4.82	6.14	0.35
Coyle	Ridgeville_W	6268	SCS10yr	5.92	188.01	189.39	188.85	189.47	0.001599	1.23	5.72	6.68	0.36
Coyle	Ridgeville_W	6268	SCS25yr	7.96	188.01	189.6	188.99	189.69	0.001623	1.38	7.16	7.46	0.37
Coyle	Ridgeville_W	6268	SCS50yr	9.9	188.01	189.76	189.11	189.87	0.001657	1.5	8.46	8.44	0.39
Coyle	Ridgeville_W	6268	SCS100yr	11.63	188.01	189.91	189.2	190.03	0.001695	1.61	10.01	14.02	0.4
Coyle	Ridgeville_W	6268	SCS200yr	14.75	188.01	190.11	189.35	190.24	0.001702	1.74	14.63	33.85	0.4
Coyle	Ridgeville_W	6268	RSnow100yr	8.63	188.01	189.66	189.03	189.75	0.001632	1.42	7.61	7.68	0.38
Coyle	Ridgeville_W	6199	SCS2yr	3.37	187.86	188.88	188.59	188.98	0.003436	1.37	2.87	4.89	0.49
Coyle	Ridgeville_W	6199	SCS5yr	4.68	187.86	189.03	188.72	189.15	0.003615	1.57	3.64	5.31	0.51
Coyle	Ridgeville_W	6199	SCS10yr	5.92	187.86	189.15	188.83	189.3	0.003778	1.74	4.3	5.66	0.53
Coyle	Ridgeville_W	6199	SCS25yr	7.96	187.86	189.33	188.99	189.51	0.004026	1.98	5.34	6.48	0.56
Coyle	Ridgeville_W	6199	SCS50yr	9.9	187.86	189.47	189.12	189.68	0.004206	2.18	6.3	7.16	0.59
Coyle	Ridgeville_W	6199	SCS100yr	11.63	187.86	189.58	189.22	189.83	0.004469	2.36	7.29	11.08	0.61
Coyle	Ridgeville_W	6199	SCS200yr	14.75	187.86	189.75	189.41	190.04	0.004589	2.57	9.67	17.19	0.63
Coyle	Ridgeville_W	6199	RSnow100yr	8.63	187.86	189.38	189.03	189.57	0.004092	2.05	5.67	6.72	0.57
Coyle	Ridgeville_W	6114	SCS2yr	3.37	187.63	188.62		188.69	0.003053	1.25	3.08	5.42	0.46
Coyle	Ridgeville_W	6114	SCS5yr	4.68	187.63	188.75		188.85	0.003252	1.44	3.85	5.94	0.49
Coyle	Ridgeville_W	6114	SCS10yr	5.92	187.63	188.86		188.98	0.003452	1.6	4.5	6.34	0.52
Coyle	Ridgeville_W	6114	SCS25yr	7.96	187.63	189.01		189.17	0.003696	1.83	5.52	6.87	0.55
Coyle	Ridgeville_W	6114	SCS50yr	9.9	187.63	189.14		189.33	0.00395	2.02	6.4	7.43	0.58
Coyle	Ridgeville_W	6114	SCS100yr	11.63	187.63	189.24		189.46	0.004163	2.19	7.15	8.11	0.6
Coyle	Ridgeville_W	6114	SCS200yr	14.75	187.63	189.36	189.06	189.64	0.004838	2.49	8.57	15.63	0.66
Coyle	Ridgeville_W	6114	RSnow100yr	8.63	187.63	189.06		189.23	0.003784	1.9	5.83	7.04	0.56
Coyle	Ridgeville_W	6045	SCS2yr	3.37	187.58	188.44		188.5	0.002518	1.09	3.31	5.95	0.42
Coyle	Ridgeville_W	6045	SCS5yr	4.68	187.58	188.56		188.64	0.002779	1.28	4.07	6.56	0.45
Coyle	Ridgeville_W	6045	SCS10yr	5.92	187.58	188.65		188.75	0.003097	1.45	4.68	7.09	0.49
Coyle	Ridgeville_W	6045	SCS25yr	7.96	187.58	188.79		188.92	0.003408	1.67	5.7	7.83	0.52
Coyle	Ridgeville_W	6045	SCS50yr	9.9	187.58	188.89		189.06	0.003759	1.86	6.54	8.49	0.56
Coyle	Ridgeville_W	6045	SCS100yr	11.63	187.58	188.97	188.65	189.17	0.004003	2.02	7.36	13.93	0.58
Coyle	Ridgeville_W	6045	SCS200yr	14.75	187.58	189.15	188.8	189.33	0.003409	2.03	12.69	43.93	0.55
Coyle	Ridgeville_W	6045	RSnow100yr	8.63	187.58	188.82		188.97	0.003529	1.74	6	8.06	0.53
Coyle	Ridgeville_W	5972	SCS2yr	3.37	187.25	188.14	187.97	188.24	0.004908	1.45	2.86	8.54	0.58
Coyle	Ridgeville_W	5972	SCS5yr	4.68	187.25	188.28	188.1	188.39	0.004318	1.55	4.31	11.93	0.56
Coyle	Ridgeville_W	5972	SCS10yr	5.92	187.25	188.4	188.21	188.5	0.003757	1.58	5.76	12.84	0.53
Coyle	Ridgeville_W	5972	SCS25yr	7.96	187.25	188.57	188.34	188.67	0.003171	1.63	8.1	14.82	0.5
Coyle	Ridgeville_W	5972	SCS50yr	9.9	187.25	188.69	188.44	188.8	0.002897	1.68	9.98	15.04	0.49
Coyle	Ridgeville_W	5972	SCS100yr	11.63	187.25	188.8	188.48	188.9	0.002716	1.72	11.58	17.03	0.48
Coyle	Ridgeville_W	5972	SCS200yr	14.75	187.25	188.96	188.63	189.09	0.002863	1.91	15.85	33.4	0.5
Coyle	Ridgeville_W	5972	RSnow100yr	8.63	187.25	188.62	188.37	188.72	0.00303	1.64	8.82	14.95	0.5
Coyle	Ridgeville_W	5873	SCS2yr	3.37	187	187.93	187.57	187.97	0.001635	0.89	3.97	6.46	0.34
Coyle	Ridgeville_W	5873	SCS5yr	4.68	187	188.07	187.65	188.12	0.001674	1.02	4.93	6.92	0.35
Coyle	Ridgeville_W	5873	SCS10yr	5.92	187	188.19	187.73	188.25	0.00171	1.13	5.78	7.34	0.37
Coyle	Ridgeville_W	5873	SCS25yr	7.96	187	188.36	187.84	188.44	0.00178	1.28	7.06	8.1	0.38
Coyle	Ridgeville_W	5873	SCS50yr	9.9	187	188.46	187.93	188.56	0.002036	1.45	7.93	8.98	0.42
Coyle	Ridgeville_W	5873	SCS100yr	11.63	187	188.53	188.01	188.66	0.002291	1.6	8.62	9.66	0.45
Coyle	Ridgeville_W	5873	SCS200yr	14.75	187	188.64	188.15	188.81	0.002778	1.86	10.02	17.86	0.5
Coyle	Ridgeville_W	5873	RSnow100yr	8.63	187	188.4	187.87	188.49	0.00185	1.34	7.4	8.55	0.39
Coyle	Ridgeville_W	5779	SCS2yr	3.37	186.92	187.72	187.44	187.77	0.002634	1.06	3.3	5.96	0.42
Coyle	Ridgeville_W	5779	SCS5yr	4.68	186.92	187.85	187.52	187.93	0.002589	1.2	4.16	6.58	0.43
Coyle	Ridgeville_W	5779	SCS10yr	5.92	186.92	187.97	187.61	188.05	0.002591	1.31	4.94	7.11	0.44
Coyle	Ridgeville_W	5779	SCS25yr	7.96	186.92	188.13	187.72	188.23	0.002591	1.47	6.6	22.03	0.46
Coyle	Ridgeville_W	5779	SCS50yr	9.9	186.92	188.27	187.83	188.36	0.002179	1.46	11.25	39.65	0.43
Coyle	Ridgeville_W	5779	SCS100yr	11.63	186.92	188.38	187.91	188.45	0.001745	1.39	16.08	46.34	0.39
Coyle	Ridgeville_W	5779	SCS200yr	14.75	186.92	188.54	188.27	188.6	0.001298	1.3	24.78	59.19	0.34
Coyle	Ridgeville_W	5779	RSnow100yr	8.63	186.92	188.18	187.76	188.28	0.002518	1.49	7.95	32.56	0.45
Coyle	Ridgeville_W	5690	SCS2yr	3.37	186.68	187.53	187.17	187.58	0.001754	0.94	3.74	5.98	0.35
Coyle	Ridgeville_W	5690	SCS5yr	4.68	186.68	187.66	187.27	187.72	0.001904	1.09	4.55	6.36	0.38
Coyle	Ridgeville_W	5690	SCS10yr	5.92	186.68	187.77	187.34	187.84	0.002047	1.23	5.24	6.7	0.4
Coyle	Ridgeville_W	5690	SCS25yr	7.96	186.68	187.92	187.46	188.02	0.002252	1.42	6.26	7.26	0.43
Coyle	Ridgeville_W	5690	SCS50yr	9.9	186.68	188.03	187.56	188.15	0.002511	1.59	7.08	7.83	0.46
Coyle	Ridgeville_W	5690	SCS100yr	11.63	186.68	188.11	187.65	188.25	0.002746	1.74	7.74	8.31	0.49
Coyle	Ridgeville_W	5690	SCS200yr	14.75	186.68	188.21	187.79	188.41	0.003351	2.02	8.7	11.92	0.55
Coyle	Ridgeville_W	5690	RSnow100yr	8.63	186.68	187.96	187.5	188.07	0.002331	1.48	6.56	7.45	0.44
Coyle	Ridgeville_W	5598	SCS2yr	3.37	186.58	187.41	187.02	187.44	0.001207	0.77	4.54	7.24	0.29
Coyle	Ridgeville_W	5598	SCS5yr	4.68	186.58	187.53	187.1	187.57	0.001362	0.9	5.43	7.58	0.32
Coyle	Ridgeville_W	5598	SCS10yr	5.92	186.58	187.62	187.16	187.68	0.001513	1.02	6.15	7.93	0.34
Coyle	Ridgeville_W	5598	SCS25yr	7.96	186.58	187.76	187.26	187.83	0.001732	1.2	7.21	8.3	0.37
Coyle	Ridgeville_W	5598	SCS50yr	9.9	186.58	187.84	187.35	187.93	0.002066	1.38	7.9	8.54	0.41
Coyle	Ridgeville_W	5598	SCS100yr	11.63	186.58	187.89	187.42	188.01	0.002427	1.54	8.37	8.77	0.45
Coyle	Ridgeville_W	5598	SCS200yr	14.75	186.58	187.74	187.54	187.99	0.006251	2.25	7.09	8.26	0.71
Coyle	Ridgeville_W	5598	RSnow100yr	8.63	186.58	187.79	187.29	187.87	0.001829	1.26	7.49	8.4	0.39
Coyle	Ridgeville_W	5517	SCS2yr	3.37	186.53	187.29	186.98	187.32	0.001786	0.85	4.37	11.71	0.35
Coyle	Ridgeville_W	5517	SCS5yr	4.68	186.53	187.4	187.06	187.44	0.001857	0.97	5.9	15.31	0.37
Coyle	Ridgeville_W	5517	SCS10yr	5.92	186.53	187.49	187.12	187.54	0.001887	1.06	7.5	21.48	0.38
Coyle	Ridgeville_W	5517	SCS25yr	7.96	186.53	187.62	187.23	187.68	0.001887	1.17	11.53	48.95	0.39
Coyle	Ridgeville_W	5517	SCS50yr	9.9	186.53	187.72	187.34	187.77	0.001669	1.17	17.9	72.14	0.37
Coyle	Ridgeville_W	5517	SCS100yr	11.63	186.53	187.79	187.41	187.84	0.00147	1.15	23.62	80.89	0.35
Coyle	Ridgeville_W	5517	SCS200yr	14.75	186.53	187.82	187.56	187.83	0.000468	0.66	80.48	251.69	0.2
Coyle	Ridgeville_W	5517	RSnow100yr	8.63	186.53	187.65	187.27	187.71	0.00183	1.18	13.71	63.49	0.38
Coyle	Ridgeville_W	5426	SCS2yr	3.37	186.36	186.77	186.77	186.93	0.018216	1.76	1.92	6.08	1
Coyle	Ridgeville_W	5426	SCS5yr	4.68	186.36	186.86	186.86	187.05	0.016989	1.92	2.44	6.41	0.99
Coyle	Ridgeville_W	5426	SCS10yr	5.92	186.36	186.92	186.92	187.14	0.016121	2.07	2.86	6.65	0.99
Coyle	Ridgeville_W	5426	SCS25yr	7.96	186.36	187.02	187.02	187.29	0.014889	2.28	3.55	7.29	0.99

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	5426	SCS50yr	9.9	186.36	187.11	187.11	187.41	0.014041	2.44	4.2	7.88	0.98
Coyle	Ridgeville_W	5426	SCS100yr	11.63	186.36	187.18	187.18	187.51	0.013064	2.54	4.85	8.97	0.97
Coyle	Ridgeville_W	5426	SCS200yr	14.75	186.36	187.31	187.31	187.67	0.011802	2.7	6.12	11.29	0.94
Coyle	Ridgeville_W	5426	RSnow100yr	8.63	186.36	187.05	187.05	187.33	0.014547	2.34	3.78	7.5	0.98
Coyle	Ridgeville_W	5337	SCS2yr	3.37	186.22	186.45		186.45	0.002061	0.37	15.53	136.23	0.3
Coyle	Ridgeville_W	5337	SCS5yr	4.68	186.22	186.54		186.55	0.000646	0.27	32.56	197.48	0.18
Coyle	Ridgeville_W	5337	SCS10yr	5.92	186.22	186.78		186.78	0.000061	0.12	82.37	244.2	0.06
Coyle	Ridgeville_W	5337	SCS25yr	7.96	186.22	186.94		186.94	0.000032	0.11	126.13	275.9	0.05
Coyle	Ridgeville_W	5337	SCS50yr	9.9	186.22	186.98		186.98	0.000038	0.12	136.67	278.23	0.05
Coyle	Ridgeville_W	5337	SCS100yr	11.63	186.22	187.01		187.02	0.000042	0.13	146.35	280.41	0.05
Coyle	Ridgeville_W	5337	SCS200yr	14.75	186.22	187.04		187.04	0.000059	0.16	152.91	282.53	0.06
Coyle	Ridgeville_W	5337	RSnow100yr	8.63	186.22	186.96		186.96	0.000034	0.11	129.83	277.11	0.05
Coyle	Ridgeville_W	5285	SCS2yr	3.37	185.99	186.32		186.33	0.002603	0.56	11.74	80.84	0.36
Coyle	Ridgeville_W	5285	SCS5yr	4.68	185.99	186.52		186.53	0.000262	0.23	35.5	166.35	0.12
Coyle	Ridgeville_W	5285	SCS10yr	5.92	185.99	186.78		186.78	0.000025	0.09	87.73	241.69	0.04
Coyle	Ridgeville_W	5285	SCS25yr	7.96	185.99	186.94		186.94	0.000012	0.08	130.76	276.21	0.03
Coyle	Ridgeville_W	5285	SCS50yr	9.9	185.99	186.98		186.98	0.000015	0.09	141.29	279.79	0.03
Coyle	Ridgeville_W	5285	SCS100yr	11.63	185.99	187.01		187.01	0.000017	0.1	150.98	281.63	0.04
Coyle	Ridgeville_W	5285	SCS200yr	14.75	185.99	187.04		187.04	0.000024	0.12	157.41	283.29	0.04
Coyle	Ridgeville_W	5285	RSnow100yr	8.63	185.99	186.95		186.95	0.000013	0.08	134.45	278.16	0.03
Coyle	Ridgeville_W	5107	SCS2yr	3.37	185.27	186.17	185.72	186.18	0.000411	0.43	7.8	212.21	0.17
Coyle	Ridgeville_W	5107	SCS5yr	4.68	185.27	186.47	185.76	186.48	0.000219	0.41	11.46	242.49	0.13
Coyle	Ridgeville_W	5107	SCS10yr	5.92	185.27	186.76	185.81	186.77	0.000147	0.4	14.89	251.01	0.11
Coyle	Ridgeville_W	5107	SCS25yr	7.96	185.27	186.94	185.87	186.94	0.000001	0.03	196.95	255.2	0.01
Coyle	Ridgeville_W	5107	SCS50yr	9.9	185.27	186.98	185.93	186.98	0.000001	0.04	204.04	255.82	0.01
Coyle	Ridgeville_W	5107	SCS100yr	11.63	185.27	187.01	185.97	187.01	0.000001	0.04	270.51	256.26	0.01
Coyle	Ridgeville_W	5107	SCS200yr	14.75	185.27	187.04	186.05	187.04	0.000002	0.05	276.3	256.6	0.01
Coyle	Ridgeville_W	5107	RSnow100yr	8.63	185.27	186.95	185.89	186.95	0.000001	0.04	199.45	255.36	0.01
Coyle	Ridgeville_W	5096		Culvert									
Coyle	Ridgeville_W	5087	SCS2yr	4.22	185	185.72	185.55	185.81	0.005536	1.34	3.15	6.18	0.59
Coyle	Ridgeville_W	5087	SCS5yr	5.89	185	185.82	185.66	185.95	0.006142	1.57	3.74	6.84	0.64
Coyle	Ridgeville_W	5087	SCS10yr	7.48	185	185.85	185.74	186.04	0.008272	1.89	3.95	7.08	0.74
Coyle	Ridgeville_W	5087	SCS25yr	10.03	185	185.87	185.85	186.18	0.013634	2.47	4.05	7.21	0.96
Coyle	Ridgeville_W	5087	SCS50yr	12.21	185	185.95	185.95	186.32	0.014184	2.71	4.51	7.89	1
Coyle	Ridgeville_W	5087	SCS100yr	14.46	185	186.04	186.04	186.46	0.013756	2.87	5.03	8.76	1
Coyle	Ridgeville_W	5087	SCS200yr	18.43	185	186.18	186.18	186.68	0.013007	3.11	5.92	28.35	1
Coyle	Ridgeville_W	5087	RSnow100yr	10.56	185	185.88	185.88	186.22	0.014683	2.58	4.09	7.25	1
Coyle	Ridgeville_W	5065	SCS2yr	4.22	184.81	185.64	185.36	185.71	0.002943	1.19	3.97	13.35	0.45
Coyle	Ridgeville_W	5065	SCS5yr	5.89	184.81	185.76	185.46	185.83	0.002756	1.27	8.43	62.97	0.45
Coyle	Ridgeville_W	5065	SCS10yr	7.48	184.81	185.81	185.57	185.88	0.002688	1.31	12.21	70.31	0.45
Coyle	Ridgeville_W	5065	SCS25yr	10.03	184.81	185.9	185.83	185.95	0.002213	1.27	18.5	73.68	0.41
Coyle	Ridgeville_W	5065	SCS50yr	12.21	184.81	185.96	185.87	186	0.002072	1.28	22.92	88.66	0.4
Coyle	Ridgeville_W	5065	SCS100yr	14.46	184.81	186.02	185.9	186.06	0.001855	1.25	28.5	103.14	0.38
Coyle	Ridgeville_W	5065	SCS200yr	18.43	184.81	186.09	185.95	186.13	0.002013	1.36	36.27	119.61	0.4
Coyle	Ridgeville_W	5065	RSnow100yr	10.56	184.81	185.92	185.84	185.96	0.002156	1.27	19.61	74.6	0.41
Coyle	Ridgeville_W	4993	SCS2yr	4.22	184.52	185.36	185.13	185.46	0.004153	1.41	3.25	7.8	0.54
Coyle	Ridgeville_W	4993	SCS5yr	5.89	184.52	185.52	185.26	185.61	0.003343	1.45	6.58	32.67	0.5
Coyle	Ridgeville_W	4993	SCS10yr	7.48	184.52	185.64	185.53	185.7	0.002354	1.32	11.28	46.73	0.43
Coyle	Ridgeville_W	4993	SCS25yr	10.03	184.52	185.74	185.62	185.8	0.002082	1.33	17.46	69.69	0.41
Coyle	Ridgeville_W	4993	SCS50yr	12.21	184.52	185.77	185.66	185.84	0.002574	1.51	19.35	74.27	0.46
Coyle	Ridgeville_W	4993	SCS100yr	14.46	184.52	185.88	185.72	185.92	0.001842	1.35	28.99	111.02	0.39
Coyle	Ridgeville_W	4993	SCS200yr	18.43	184.52	185.88	185.77	185.95	0.002994	1.73	28.99	111.02	0.5
Coyle	Ridgeville_W	4993	RSnow100yr	10.56	184.52	185.77	185.63	185.82	0.001953	1.31	19.2	73.74	0.4
Coyle	Ridgeville_W	4916	SCS2yr	4.22	184.23	185.12	184.81	185.2	0.002734	1.19	3.68	5.65	0.44
Coyle	Ridgeville_W	4916	SCS5yr	5.89	184.23	185.29	184.93	185.38	0.002691	1.35	4.64	6.15	0.45
Coyle	Ridgeville_W	4916	SCS10yr	7.48	184.23	185.41	185.02	185.51	0.002554	1.43	7.33	31.59	0.45
Coyle	Ridgeville_W	4916	SCS25yr	10.03	184.23	185.58	185.16	185.65	0.001783	1.32	16.39	76.19	0.38
Coyle	Ridgeville_W	4916	SCS50yr	12.21	184.23	185.68	185.28	185.71	0.001013	1.05	39.26	231.54	0.29
Coyle	Ridgeville_W	4916	SCS100yr	14.46	184.23	185.58	185.58	185.72	0.003619	1.89	16.65	77.89	0.55
Coyle	Ridgeville_W	4916	SCS200yr	18.43	184.23	185.67	185.67	185.74	0.002429	1.62	37.86	228.3	0.45
Coyle	Ridgeville_W	4916	RSnow100yr	10.56	184.23	185.61	185.19	185.68	0.001677	1.31	19.28	96.37	0.37
Coyle	Ridgeville_W	4814	SCS2yr	4.22	183.89	184.82	184.52	184.9	0.003102	1.27	3.5	5.4	0.47
Coyle	Ridgeville_W	4814	SCS5yr	5.89	183.89	184.98	184.64	185.09	0.003037	1.43	4.44	5.92	0.48
Coyle	Ridgeville_W	4814	SCS10yr	7.48	183.89	185.02	184.74	185.17	0.004206	1.74	4.69	6.18	0.57
Coyle	Ridgeville_W	4814	SCS25yr	10.03	183.89	184.97	184.89	185.28	0.009186	2.47	4.38	5.88	0.83
Coyle	Ridgeville_W	4814	SCS50yr	12.21	183.89	185	185	185.42	0.01222	2.91	4.54	5.97	0.96
Coyle	Ridgeville_W	4814	SCS100yr	14.46	183.89	185.33	185.33	185.4	0.002269	1.53	30.98	203.51	0.44
Coyle	Ridgeville_W	4814	SCS200yr	18.43	183.89	185.36	185.36	185.44	0.002502	1.64	39.1	233.85	0.46
Coyle	Ridgeville_W	4814	RSnow100yr	10.56	183.89	184.99	184.91	185.31	0.00962	2.56	4.46	5.93	0.85
Coyle	Ridgeville_W	4730	SCS2yr	4.22	183.57	184.51	184.24	184.61	0.003804	1.43	3.14	4.94	0.52
Coyle	Ridgeville_W	4730	SCS5yr	5.89	183.57	184.55	184.37	184.73	0.006214	1.9	3.34	5.32	0.67
Coyle	Ridgeville_W	4730	SCS10yr	7.48	183.57	184.7	184.48	184.82	0.004039	1.71	10.39	121.76	0.55
Coyle	Ridgeville_W	4730	SCS25yr	10.03	183.57	184.79	184.79	184.84	0.002433	1.41	24.92	208.12	0.44
Coyle	Ridgeville_W	4730	SCS50yr	12.21	183.57	184.82	184.82	184.87	0.002468	1.45	31.77	228.33	0.44
Coyle	Ridgeville_W	4730	SCS100yr	14.46	183.57	184.83	184.83	184.89	0.002775	1.55	35.33	241.18	0.47
Coyle	Ridgeville_W	4730	SCS200yr	18.43	183.57	184.86	184.86	184.92	0.003227	1.69	41.24	252.77	0.51
Coyle	Ridgeville_W	4730	RSnow100yr	10.56	183.57	184.79	184.79	184.85	0.002629	1.47	25.29	209.42	0.45
Coyle	Ridgeville_W	4653	SCS2yr	4.22	183.29	184.31	183.97	184.37	0.002299	1.18	4.8	37.2	0.41
Coyle	Ridgeville_W	4653	SCS5yr	5.89	183.29	184.44	184.09	184.48	0.00149	1.05	15.82	150.19	0.34
Coyle	Ridgeville_W	4653	SCS10yr	7.48	183.29	184.38	184.19	184.5	0.004211	1.69	9.11	86.86	0.57
Coyle	Ridgeville_W	4653	SCS25yr	10.03	183.29	184.47	184.47	184.54	0.003078	1.53	20.78	191.37	0.49
Coyle	Ridgeville_W	4653	SCS50yr	12.21	183.29	184.52	184.52	184.57	0.002531	1.44	31.17	252.76	0.45
Coyle	Ridgeville_W	4653	SCS100yr	14.46	183.29	184.53	184.53	184.59	0.002767	1.52	35.47	274.84	0.47
Coyle	Ridgeville_W	4653	SCS200yr	18.43	183.29	184.56	184.56	184.62	0.003074	1.63	43.04	312.29	0.5
Coyle	Ridgeville_W	4653	RSnow100yr	10.56	183.29	184.5	184.5	184.55	0.002439	1.39	26.79	233.2	0.44
Coyle	Ridgeville_W	4593	SCS2yr	4.22	183.15	184.01	183.83	184.15	0.005963	1.71	2.69	7.86	0.63
Coyle	Ridgeville_W	4593	SCS5yr	5.89	183.15	184.07	183.97	184.28	0.008037	2.1	4.07	37.02	0.74
Coyle	Ridgeville_W	4593	SCS10yr	7.48	183.15	184.21	184.21	184.27	0.002926	1.41	17.04	153.24	0.46
Coyle	Ridgeville_W	4593	SCS25yr	10.03	183.15	184.25	184.25	184.31	0.003018	1.47	24.82	224.86	0.47
Coyle	Ridgeville_W	4593	SCS50yr	12.21	183.15	184.28	184.28	184.33	0.003315	1.57	29.56	247.52	0.5
Coyle	Ridgeville_W	4593	SCS100yr	14.46	183.15	184.3	184.3	184.35	0.003291	1.58	35.37	268.44	0.5
Coyle	Ridgeville_W	4593	SCS200yr	18.43	183.15	184.32	184.32	184.37	0.003875	1.74	40.68	278.06	0.54
Coyle	Ridgeville_W	4593	RSnow100yr	10.56	183.15	184.25	184.25	184.31	0.003343	1.55	24.82	224.86	0.5
Coyle	Ridgeville_W	4501	SCS2yr	4.22	182.89	183.81	183.7	183.84	0.001816	0.98	11.65	107.47	0.36
Coyle	Ridgeville_W	4501	SCS5yr	5.89	182.89	183.85	183.8	183.88	0.00221	1.11	16.11	159.05	0.4
Coyle	Ridgeville_W	4501	SCS10yr	7.48	182.89	183.88	183.84	183.91	0.002504	1.21	20.16	197.19	0.42
Coyle	Ridgeville_W	4501	SCS25yr	10.03	182.89	183.94	183.86	183.96	0.001998	1.13	31.38	277.86	0.38
Coyle	Ridgeville_W	4501	SCS50yr	12.21	182.89	183.94	183.89	183.98	0.002867	1.36	32.46	284.17	0.46
Coyle	Ridgeville_W	4501	SCS100yr	14.46	182.89	183.97	183.92	184	0.002613	1.33	38.99	308.73	0.44
Coyle	Ridgeville_W	4501	SCS200yr	18.43	182.89	184.01	183.96	184.04	0.002645	1.37	48.74	363.03	0.45
Coyle	Ridgeville_W	4501	RSnow100yr	10.56	182.89	183.95	183.89	183.97	0.001885	1.11	34.29	291.23	0.37
Coyle	Ridgeville_W	4396	SCS2yr	4.22	182.63	183.18	183.18	183.39	0.017047	2.02	2.09	5.21	1

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	4396	SCS5yr	5.89	182.63	183.4	183.4	183.51	0.006102	1.6	6.02	39.09	0.64
Coyle	Ridgeville_W	4396	SCS10yr	7.48	182.63	183.48	183.48	183.56	0.004363	1.48	11.32	98.12	0.56
Coyle	Ridgeville_W	4396	SCS25yr	10.03	182.63	183.51	183.51	183.62	0.005728	1.74	14.86	136.65	0.64
Coyle	Ridgeville_W	4396	SCS50yr	12.21	182.63	183.58	183.58	183.64	0.003609	1.46	27.08	214.28	0.52
Coyle	Ridgeville_W	4396	SCS100yr	14.46	182.63	183.6	183.6	183.66	0.004031	1.57	31.08	242	0.55
Coyle	Ridgeville_W	4396	SCS200yr	18.43	182.63	183.63	183.63	183.69	0.004233	1.64	39.12	286.87	0.56
Coyle	Ridgeville_W	4396	RSnow100yr	10.56	182.63	183.51	183.51	183.63	0.006344	1.83	14.86	136.65	0.67
Coyle	Ridgeville_W	4311	SCS2yr	4.22	182.36	182.88	182.65	182.88	0.000611	0.29	22.71	100.6	0.15
Coyle	Ridgeville_W	4311	SCS5yr	5.89	182.36	183.04	182.68	183.04	0.000136	0.17	66.15	245.98	0.07
Coyle	Ridgeville_W	4311	SCS10yr	7.48	182.36	183.05	182.7	183.05	0.000204	0.21	67.73	246.08	0.09
Coyle	Ridgeville_W	4311	SCS25yr	10.03	182.36	183.06	182.72	183.06	0.000319	0.27	70.69	246.25	0.11
Coyle	Ridgeville_W	4311	SCS50yr	12.21	182.36	183.07	182.74	183.07	0.000414	0.31	73.65	246.42	0.13
Coyle	Ridgeville_W	4311	SCS100yr	14.46	182.36	183.19	182.76	183.19	0.000183	0.23	109.48	369.51	0.09
Coyle	Ridgeville_W	4311	SCS200yr	18.43	182.36	183.49	182.8	183.49	0.000035	0.13	278.92	801.35	0.04
Coyle	Ridgeville_W	4311	RSnow100yr	10.56	182.36	183	182.73	183	0.000695	0.37	56.24	239.36	0.16
Coyle	Ridgeville_W	4225	SCS2yr	4.22	182.37	182.81	182.62	182.82	0.00087	0.38	16.96	150.91	0.22
Coyle	Ridgeville_W	4225	SCS5yr	5.89	182.37	183.03	182.66	183.03	0.000081	0.16	67.59	307.9	0.07
Coyle	Ridgeville_W	4225	SCS10yr	7.48	182.37	183.03	182.69	183.03	0.000129	0.21	68.01	308.68	0.09
Coyle	Ridgeville_W	4225	SCS25yr	10.03	182.37	183.03	182.74	183.04	0.000224	0.28	68.89	311.02	0.12
Coyle	Ridgeville_W	4225	SCS50yr	12.21	182.37	183.04	182.79	183.04	0.000321	0.33	69.84	314.15	0.14
Coyle	Ridgeville_W	4225	SCS100yr	14.46	182.37	183.18	182.82	183.18	0.000105	0.22	136.79	650.66	0.09
Coyle	Ridgeville_W	4225	SCS200yr	18.43	182.37	183.49	182.84	183.49	0.000004	0.06	662.3	1265.33	0.02
Coyle	Ridgeville_W	4225	RSnow100yr	10.56	182.37	182.92	182.77	182.93	0.001095	0.52	37.58	236.57	0.26
Coyle	Ridgeville_W	4155	SCS2yr	4.22	182.09	182.64	182.54	182.68	0.00754	1.12	6.39	52.9	0.57
Coyle	Ridgeville_W	4155	SCS5yr	5.89	182.09	183.03	182.6	183.03	0.000021	0.09	161.94	752.41	0.03
Coyle	Ridgeville_W	4155	SCS10yr	7.48	182.09	183.03	182.6	183.03	0.000034	0.12	161.96	752.47	0.04
Coyle	Ridgeville_W	4155	SCS25yr	10.03	182.09	183.03	182.74	183.03	0.000061	0.16	162.05	752.67	0.06
Coyle	Ridgeville_W	4155	SCS50yr	12.21	182.09	183.03	182.76	183.03	0.00009	0.2	162.09	752.78	0.07
Coyle	Ridgeville_W	4155	SCS100yr	14.46	182.09	183.18	182.77	183.18	0.000007	0.06	489.77	1256.21	0.02
Coyle	Ridgeville_W	4155	SCS200yr	18.43	182.09	183.49	182.8	183.49	0.000002	0.04	886.29	1282.53	0.01
Coyle	Ridgeville_W	4155	RSnow100yr	10.56	182.09	182.83	182.74	182.84	0.001487	0.65	47.25	411.31	0.27
Coyle	Ridgeville_W	4091	SCS2yr	4.22	182.04	182.65	182.3	182.65	0.000071	0.15	71.75	820.78	0.07
Coyle	Ridgeville_W	4091	SCS5yr	5.89	182.04	183.03	182.34	183.03	0.000001	0.02	594.94	1149.22	0.01
Coyle	Ridgeville_W	4091	SCS10yr	7.48	182.04	183.03	182.36	183.03	0.000001	0.03	594.94	1149.22	0.01
Coyle	Ridgeville_W	4091	SCS25yr	10.03	182.04	183.03	182.39	183.03	0.000002	0.04	594.96	1149.23	0.01
Coyle	Ridgeville_W	4091	SCS50yr	12.21	182.04	183.03	182.41	183.03	0.000003	0.04	594.96	1149.23	0.01
Coyle	Ridgeville_W	4091	SCS100yr	14.46	182.04	183.18	182.45	183.18	0.000002	0.04	775.27	1206.46	0.01
Coyle	Ridgeville_W	4091	SCS200yr	18.43	182.04	183.49	182.48	183.49	0.000001	0.03	1159.82	1272.78	0.01
Coyle	Ridgeville_W	4091	RSnow100yr	10.56	182.04	182.83	182.4	182.83	0.000008	0.06	378.18	1065.92	0.02
Coyle	Ridgeville_W	4025	SCS2yr	4.22	181.69	182.65	181.94	182.65	0	0.01	346.55	922.21	0.01
Coyle	Ridgeville_W	4025	SCS5yr	5.89	181.69	183.03	182.02	183.03	0	0.01	763.87	1225.04	0
Coyle	Ridgeville_W	4025	SCS10yr	7.48	181.69	183.03	182.05	183.03	0	0.01	763.87	1225.04	0
Coyle	Ridgeville_W	4025	SCS25yr	10.03	181.69	183.03	182.1	183.03	0	0.02	763.87	1225.04	0
Coyle	Ridgeville_W	4025	SCS50yr	12.21	181.69	183.03	182.12	183.03	0	0.02	763.84	1225.03	0.01
Coyle	Ridgeville_W	4025	SCS100yr	14.46	181.69	183.18	182.15	183.18	0	0.02	954.19	1250.06	0.01
Coyle	Ridgeville_W	4025	SCS200yr	18.43	181.69	183.49	182.18	183.49	0	0.02	1342.15	1252.24	0
Coyle	Ridgeville_W	4025	RSnow100yr	10.56	181.69	182.83	182.1	182.83	0.000001	0.02	536.39	1108.99	0.01
Coyle	Ridgeville_W	3953	SCS2yr	4.22	181.67	182.65	182.09	182.65	0	0.02	306.96	1016.84	0.01
Coyle	Ridgeville_W	3953	SCS5yr	5.89	181.67	183.03	182.11	183.03	0	0.01	860.08	1255.83	0
Coyle	Ridgeville_W	3953	SCS10yr	7.48	181.67	183.03	182.13	183.03	0	0.01	860.08	1255.83	0
Coyle	Ridgeville_W	3953	SCS25yr	10.03	181.67	183.03	182.17	183.03	0	0.01	860.05	1255.83	0
Coyle	Ridgeville_W	3953	SCS50yr	12.21	181.67	183.03	182.18	183.03	0	0.01	860.03	1255.83	0
Coyle	Ridgeville_W	3953	SCS100yr	14.46	181.67	183.18	182.2	183.18	0	0.01	1054.16	1278.58	0
Coyle	Ridgeville_W	3953	SCS200yr	18.43	181.67	183.49	182.22	183.49	0	0.01	1451.27	1281.5	0
Coyle	Ridgeville_W	3953	RSnow100yr	10.56	181.67	182.83	182.17	182.83	0	0.02	618.88	1202.87	0.01
Coyle	Ridgeville_W	3947		Culvert									
Coyle	Ridgeville_W	3939	SCS2yr	5.23	181.07	182.01	181.9	182.2	0.008454	1.95	2.68	22.26	0.76
Coyle	Ridgeville_W	3939	SCS5yr	7.11	181.07	182.02	182.02	182.37	0.014583	2.6	2.73	23.77	1
Coyle	Ridgeville_W	3939	SCS10yr	9.12	181.07	182.15	182.15	182.55	0.013669	2.82	3.24	81.25	1
Coyle	Ridgeville_W	3939	SCS25yr	12.39	181.07	182.33	182.33	182.83	0.012695	3.12	3.98	225.29	1
Coyle	Ridgeville_W	3939	SCS50yr	14.46	181.07	182.44	182.44	182.99	0.012271	3.28	4.41	301.61	1
Coyle	Ridgeville_W	3939	SCS100yr	17.07	181.07	182.57	182.57	183.18	0.011868	3.47	4.92	504.67	1
Coyle	Ridgeville_W	3939	SCS200yr	21.55	181.07	182.78	182.78	183.49	0.011234	3.75	5.75	1153.06	1
Coyle	Ridgeville_W	3939	RSnow100yr	12.37	181.07	182.33	182.33	182.82	0.012677	3.11	3.98	225.09	1
Coyle	Ridgeville_W	3907	SCS2yr	5.23	181.25	182.02	181.73	182.03	0.001118	0.69	17.09	131.78	0.28
Coyle	Ridgeville_W	3907	SCS5yr	7.11	181.25	182.08	181.89	182.09	0.000918	0.67	29.2	252.66	0.26
Coyle	Ridgeville_W	3907	SCS10yr	9.12	181.25	182.14	181.95	182.15	0.000701	0.61	45.75	313.92	0.23
Coyle	Ridgeville_W	3907	SCS25yr	12.39	181.25	182.18	181.95	182.19	0.000713	0.64	60.34	347.85	0.23
Coyle	Ridgeville_W	3907	SCS50yr	14.46	181.25	182.2	182.05	182.21	0.000795	0.69	67.45	355.99	0.25
Coyle	Ridgeville_W	3907	SCS100yr	17.07	181.25	182.23	182.08	182.24	0.000821	0.72	75.83	368.71	0.25
Coyle	Ridgeville_W	3907	SCS200yr	21.55	181.25	182.27	182.12	182.27	0.000824	0.74	90.48	390.41	0.25
Coyle	Ridgeville_W	3907	RSnow100yr	12.37	181.25	182.18	181.95	182.19	0.000714	0.64	60.2	347.62	0.23
Coyle	Ridgeville_W	3826	SCS2yr	5.23	181.13	181.66	181.64	181.8	0.013242	1.79	3.52	12.33	0.89
Coyle	Ridgeville_W	3826	SCS5yr	7.11	181.13	181.78	181.73	181.91	0.009192	1.77	5.57	28.37	0.77
Coyle	Ridgeville_W	3826	SCS10yr	9.12	181.13	181.83	181.83	181.99	0.009956	1.97	7.2	47.44	0.82
Coyle	Ridgeville_W	3826	SCS25yr	12.39	181.13	181.97	181.97	182.06	0.00555	1.69	18.42	170.14	0.63
Coyle	Ridgeville_W	3826	SCS50yr	14.46	181.13	182.02	182.02	182.08	0.004199	1.53	28.46	251.89	0.56
Coyle	Ridgeville_W	3826	SCS100yr	17.07	181.13	182.04	182.04	182.1	0.004359	1.59	34.14	289.62	0.57
Coyle	Ridgeville_W	3826	SCS200yr	21.55	181.13	182.07	182.07	182.13	0.005014	1.74	42.35	328.55	0.61
Coyle	Ridgeville_W	3826	RSnow100yr	12.37	181.13	181.97	181.97	182.06	0.005528	1.68	18.43	170.2	0.63
Coyle	Ridgeville_W	3739	SCS2yr	5.23	180.79	181.76	181.37	181.76	0.000008	0.06	218.49	844.84	0.02
Coyle	Ridgeville_W	3739	SCS5yr	7.11	180.79	181.87	181.48	181.87	0.000005	0.05	320.42	963.9	0.02
Coyle	Ridgeville_W	3739	SCS10yr	9.12	180.79	181.87	181.52	181.87	0.000008	0.07	320.83	964.47	0.02
Coyle	Ridgeville_W	3739	SCS25yr	12.39	180.79	181.87	181.56	181.87	0.000015	0.09	321.67	965.61	0.03
Coyle	Ridgeville_W	3739	SCS50yr	14.46	180.79	181.87	181.58	181.87	0.000021	0.11	322.41	966.47	0.04
Coyle	Ridgeville_W	3739	SCS100yr	17.07	180.79	181.87	181.6	181.87	0.000029	0.12	323.38	967.6	0.05
Coyle	Ridgeville_W	3739	SCS200yr	21.55	180.79	181.87	181.61	181.87	0.000045	0.15	325.49	970.04	0.06
Coyle	Ridgeville_W	3739	RSnow100yr	12.37	180.79	181.87	181.56	181.87	0.000015	0.09	321.67	965.61	0.03
Coyle	Ridgeville_W	3676	SCS2yr	5.23	180.63	181.76	181.23	181.76	0.000004	0.05	284.12	1107.96	0.02
Coyle	Ridgeville_W	3676	SCS5yr	7.11	180.63	181.87	181.36	181.87	0.000003	0.04	416.1	1216.66	0.01
Coyle	Ridgeville_W	3676	SCS10yr	9.12	180.63	181.87	181.45	181.87	0.000005	0.06	416.44	1216.84	0.02
Coyle	Ridgeville_W	3676	SCS25yr	12.39	180.63	181.87	181.51	181.87	0.000009	0.08	417.12	1217.2	0.03
Coyle	Ridgeville_W	3676	SCS50yr	14.46	180.63	181.87	181.53	181.87	0.000012	0.09	417.73	1217.53	0.03
Coyle	Ridgeville_W	3676	SCS100yr	17.07	180.63	181.87	181.54	181.87	0.000016	0.11	418.52	1217.96	0.04
Coyle	Ridgeville_W	3676	SCS200yr	21.55	180.63	181.87	181.57	181.87	0.000026	0.13	420.27	1218.96	0.04
Coyle	Ridgeville_W	3676	RSnow100yr	12.37	180.63	181.87	181.51	181.87	0.000009	0.08	417.12	1217.2	0.03
Coyle	Ridgeville_W	3607	SCS2yr	5.23	180.45	181.75	180.87	181.75	0.000007	0.08	209.75	753.5	0.02
Coyle	Ridgeville_W	3607	SCS5yr	7.11	180.45	181.87	180.94	181.87	0.000005	0.07	299.08	838.95	0.02
Coyle	Ridgeville_W	3607	SCS10yr	9.12	180.45	181.87	181	181.87	0.000008	0.09	299.15	839.01	0.03
Coyle	Ridgeville_W	3607	SCS25yr	12.39	180.45	181.87	181.09	181.87	0.000015	0.13	299.27	839.13	0.04
Coyle	Ridgeville_W	3607	SCS50yr	14.46	180.45	181.87	181.16	181.87	0.00002	0.15	299.41	839.26	0.04
Coyle	Ridgeville_W	3607	SCS100yr	17.07	180.45	181.87	181.27	181.87	0.000028	0.18	299.54	839.38	0.05
Coyle	Ridgeville_W	3607	SCS200yr	21.55	180.45	181.87	181.39	181.87	0.000045	0.22	299.89	839.71	0.06

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	3607	RSnow100yr	12.37	180.45	181.87	181.09	181.87	0.000015	0.13	299.27	839.13	0.04
Coyle	Ridgeville_W	3541	SCS2yr	5.23	180.4	181.75	181.08	181.75	0.000001	0.03	456.7	1177.64	0.01
Coyle	Ridgeville_W	3541	SCS5yr	7.11	180.4	181.87	181.15	181.87	0.000001	0.03	598.39	1244.41	0.01
Coyle	Ridgeville_W	3541	SCS10yr	9.12	180.4	181.87	181.19	181.87	0.000002	0.04	598.41	1244.42	0.01
Coyle	Ridgeville_W	3541	SCS25yr	12.39	180.4	181.87	181.25	181.87	0.000003	0.06	598.46	1244.43	0.02
Coyle	Ridgeville_W	3541	SCS50yr	14.46	180.4	181.87	181.27	181.87	0.000004	0.07	598.55	1244.46	0.02
Coyle	Ridgeville_W	3541	SCS100yr	17.07	180.4	181.87	181.3	181.87	0.000005	0.08	598.57	1244.47	0.02
Coyle	Ridgeville_W	3541	SCS200yr	21.55	180.4	181.87	181.32	181.87	0.000009	0.1	598.76	1244.53	0.03
Coyle	Ridgeville_W	3541	RSnow100yr	12.37	180.4	181.87	181.25	181.87	0.000003	0.06	598.46	1244.43	0.02
Coyle	Ridgeville_W	3467	SCS2yr	5.23	180.12	181.75		181.75	0	0.02	643.02	868.52	0
Coyle	Ridgeville_W	3467	SCS5yr	7.11	180.12	181.87		181.87	0	0.02	742.04	875.71	0.01
Coyle	Ridgeville_W	3467	SCS10yr	9.12	180.12	181.87		181.87	0.000001	0.03	742.06	875.71	0.01
Coyle	Ridgeville_W	3467	SCS25yr	12.39	180.12	181.87		181.87	0.000001	0.03	742.03	875.71	0.01
Coyle	Ridgeville_W	3467	SCS50yr	14.46	180.12	181.87		181.87	0.000001	0.04	742.06	875.71	0.01
Coyle	Ridgeville_W	3467	SCS100yr	17.07	180.12	181.87		181.87	0.000002	0.05	742.03	875.71	0.01
Coyle	Ridgeville_W	3467	SCS200yr	21.55	180.12	181.87		181.87	0.000003	0.06	742.06	875.71	0.02
Coyle	Ridgeville_W	3467	RSnow100yr	12.37	180.12	181.87		181.87	0.000001	0.03	742.03	875.71	0.01
Coyle	Ridgeville_W	3454	SCS2yr	5.23	179.98	181.75	180.68	181.75	0.000001	0.03	446.91	725.4	0.01
Coyle	Ridgeville_W	3454	SCS5yr	7.11	179.98	181.87	180.8	181.87	0.000001	0.03	512.06	739.34	0.01
Coyle	Ridgeville_W	3454	SCS10yr	9.12	179.98	181.87	180.94	181.87	0.000001	0.04	512.06	739.34	0.01
Coyle	Ridgeville_W	3454	SCS25yr	12.39	179.98	181.87	181.1	181.87	0.000002	0.06	512.04	739.33	0.01
Coyle	Ridgeville_W	3454	SCS50yr	14.46	179.98	181.87	181.17	181.87	0.000003	0.07	512.05	739.34	0.02
Coyle	Ridgeville_W	3454	SCS100yr	17.07	179.98	181.87	181.23	181.87	0.000004	0.08	512.03	739.32	0.02
Coyle	Ridgeville_W	3454	SCS200yr	21.55	179.98	181.87	181.23	181.87	0.000006	0.1	512.01	739.31	0.02
Coyle	Ridgeville_W	3454	RSnow100yr	12.37	179.98	181.87	181.1	181.87	0.000002	0.06	512.04	739.33	0.01
Coyle	Ridgeville_W	3442		Culvert									
Coyle	Ridgeville_W	3430	SCS2yr	5.23	179.17	180.53	179.9	180.57	0.000811	0.82	6.35	10.58	0.26
Coyle	Ridgeville_W	3430	SCS5yr	7.11	179.17	180.68	179.99	180.73	0.000973	0.98	7.23	16.99	0.29
Coyle	Ridgeville_W	3430	SCS10yr	9.12	179.17	180.82	180.09	180.88	0.001103	1.13	8.09	44.46	0.31
Coyle	Ridgeville_W	3430	SCS25yr	12.39	179.17	181	180.23	181.09	0.001345	1.35	9.16	178.74	0.35
Coyle	Ridgeville_W	3430	SCS50yr	14.46	179.17	181.07	180.31	181.18	0.001585	1.51	9.57	192.24	0.38
Coyle	Ridgeville_W	3430	SCS100yr	17.07	179.17	181.11	180.41	181.26	0.002036	1.74	9.81	204.1	0.43
Coyle	Ridgeville_W	3430	SCS200yr	21.55	179.17	181.1	180.57	181.35	0.003298	2.21	9.76	199.39	0.55
Coyle	Ridgeville_W	3430	RSnow100yr	12.37	179.17	181	180.23	181.09	0.001343	1.35	9.16	178.59	0.35
Coyle	Ridgeville_W	3405	SCS2yr	5.23	179.42	180.49	180.06	180.54	0.001455	1.01	8.5	38.87	0.33
Coyle	Ridgeville_W	3405	SCS5yr	7.11	179.42	180.67	180.18	180.69	0.000873	0.87	16.8	55.51	0.27
Coyle	Ridgeville_W	3405	SCS10yr	9.12	179.42	180.82	180.29	180.84	0.000567	0.77	26.97	73.19	0.22
Coyle	Ridgeville_W	3405	SCS25yr	12.39	179.42	181.02	180.58	181.03	0.000351	0.67	45.37	100.21	0.18
Coyle	Ridgeville_W	3405	SCS50yr	14.46	179.42	181.11	180.6	181.12	0.000171	0.49	89.53	222.32	0.13
Coyle	Ridgeville_W	3405	SCS100yr	17.07	179.42	181.18	180.67	181.18	0.000097	0.38	148.34	339.2	0.09
Coyle	Ridgeville_W	3405	SCS200yr	21.55	179.42	181.21	180.74	181.21	0.000122	0.43	161.11	358.68	0.11
Coyle	Ridgeville_W	3405	RSnow100yr	12.37	179.42	181.02	180.56	181.03	0.000352	0.67	45.26	100.14	0.18
Coyle	Ridgeville_W	3329	SCS2yr	5.23	179.25	180.41	179.83	180.45	0.000942	0.87	6.65	8.41	0.27
Coyle	Ridgeville_W	3329	SCS5yr	7.11	179.25	180.57	179.94	180.62	0.001036	1.01	8.08	9.46	0.29
Coyle	Ridgeville_W	3329	SCS10yr	9.12	179.25	180.72	180.04	180.78	0.001089	1.12	10.19	21.65	0.31
Coyle	Ridgeville_W	3329	SCS25yr	12.39	179.25	180.92	180.19	180.99	0.001055	1.21	16.12	34.87	0.31
Coyle	Ridgeville_W	3329	SCS50yr	14.46	179.25	181.02	180.27	181.08	0.001027	1.24	19.93	40.95	0.31
Coyle	Ridgeville_W	3329	SCS100yr	17.07	179.25	181.13	180.38	181.16	0.000641	1.02	40.57	109.22	0.25
Coyle	Ridgeville_W	3329	SCS200yr	21.55	179.25	181.14	180.52	181.19	0.000955	1.26	42.29	114.16	0.3
Coyle	Ridgeville_W	3329	RSnow100yr	12.37	179.25	180.92	180.19	180.99	0.001055	1.21	16.09	34.71	0.31
Coyle	Ridgeville_W	3257	SCS2yr	5.23	179.27	180.25	179.89	180.34	0.002551	1.28	4.39	6.24	0.43
Coyle	Ridgeville_W	3257	SCS5yr	7.11	179.27	180.39	180.01	180.5	0.002875	1.49	5.24	6.64	0.47
Coyle	Ridgeville_W	3257	SCS10yr	9.12	179.27	180.51	180.13	180.65	0.003169	1.68	6.09	7.48	0.5
Coyle	Ridgeville_W	3257	SCS25yr	12.39	179.27	180.65	180.3	180.84	0.003885	2.01	7.7	24.58	0.57
Coyle	Ridgeville_W	3257	SCS50yr	14.46	179.27	180.67	180.4	180.92	0.005022	2.31	8.22	27.78	0.65
Coyle	Ridgeville_W	3257	SCS100yr	17.07	179.27	180.63	180.51	181.01	0.007697	2.81	7.34	21.57	0.8
Coyle	Ridgeville_W	3257	SCS200yr	21.55	179.27	180.98	180.98	181.08	0.002334	1.82	33.19	142.86	0.46
Coyle	Ridgeville_W	3257	RSnow100yr	12.37	179.27	180.65	180.3	180.84	0.003879	2.01	7.68	24.51	0.57
Coyle	Ridgeville_W	3183	SCS2yr	5.23	179.13	180.15		180.19	0.001325	0.94	5.86	7.78	0.32
Coyle	Ridgeville_W	3183	SCS5yr	7.11	179.13	180.26		180.33	0.001614	1.13	6.79	8.58	0.36
Coyle	Ridgeville_W	3183	SCS10yr	9.12	179.13	180.37		180.45	0.00184	1.29	7.93	16.67	0.39
Coyle	Ridgeville_W	3183	SCS25yr	12.39	179.13	180.54	180.01	180.63	0.001723	1.37	15.84	89.93	0.39
Coyle	Ridgeville_W	3183	SCS50yr	14.46	179.13	180.65	180.09	180.7	0.001242	1.22	30.17	195.48	0.33
Coyle	Ridgeville_W	3183	SCS100yr	17.07	179.13	180.78	180.18	180.8	0.000607	0.91	59.1	260.34	0.24
Coyle	Ridgeville_W	3183	SCS200yr	21.55	179.13	180.82	180.66	180.85	0.00066	0.97	72.88	302.78	0.25
Coyle	Ridgeville_W	3183	RSnow100yr	12.37	179.13	180.54	180.01	180.63	0.001728	1.37	15.73	88.9	0.39
Coyle	Ridgeville_W	3134	SCS2yr	5.23	179.08	180.04	179.67	180.11	0.002409	1.14	4.77	6.63	0.4
Coyle	Ridgeville_W	3134	SCS5yr	7.11	179.08	180.11	179.78	180.21	0.003327	1.42	5.26	6.87	0.48
Coyle	Ridgeville_W	3134	SCS10yr	9.12	179.08	180.17	179.88	180.32	0.004374	1.7	5.68	7.2	0.56
Coyle	Ridgeville_W	3134	SCS25yr	12.39	179.08	180.23	180.03	180.46	0.006563	2.16	6.11	7.54	0.69
Coyle	Ridgeville_W	3134	SCS50yr	14.46	179.08	180.17	180.11	180.53	0.01109	2.7	5.66	7.19	0.88
Coyle	Ridgeville_W	3134	SCS100yr	17.07	179.08	180.22	180.22	180.67	0.012966	3.01	6.02	7.47	0.96
Coyle	Ridgeville_W	3134	SCS200yr	21.55	179.08	180.61	180.61	180.77	0.003774	2.03	21.22	73.19	0.55
Coyle	Ridgeville_W	3134	RSnow100yr	12.37	179.08	180.23	180.03	180.46	0.006554	2.16	6.1	7.54	0.69
Coyle	Ridgeville_W	3051	SCS2yr	5.23	178.96	179.75	179.55	179.83	0.004771	1.35	5.95	48.51	0.53
Coyle	Ridgeville_W	3051	SCS5yr	7.11	178.96	179.81	179.81	179.89	0.004539	1.4	10.52	95.52	0.53
Coyle	Ridgeville_W	3051	SCS10yr	9.12	178.96	179.85	179.85	179.92	0.004677	1.47	14.44	117.55	0.54
Coyle	Ridgeville_W	3051	SCS25yr	12.39	178.96	179.9	179.9	179.96	0.004587	1.52	21.31	149.39	0.54
Coyle	Ridgeville_W	3051	SCS50yr	14.46	178.96	179.95		179.99	0.003166	1.32	29.77	170.13	0.45
Coyle	Ridgeville_W	3051	SCS100yr	17.07	178.96	179.98		180.02	0.002997	1.31	35.07	178.68	0.44
Coyle	Ridgeville_W	3051	SCS200yr	21.55	178.96	180.27		180.27	0.000302	0.5	115.78	393.19	0.15
Coyle	Ridgeville_W	3051	RSnow100yr	12.37	178.96	179.9	179.9	179.96	0.004577	1.52	21.29	149.36	0.54
Coyle	Ridgeville_W	2961	SCS2yr	5.23	178.74	179.46		179.5	0.002754	1.03	10.01	56.3	0.43
Coyle	Ridgeville_W	2961	SCS5yr	7.11	178.74	179.77		179.77	0.0002	0.37	58.23	296.34	0.12
Coyle	Ridgeville_W	2961	SCS10yr	9.12	178.74	179.86		179.86	0.000132	0.32	90.41	422	0.1
Coyle	Ridgeville_W	2961	SCS25yr	12.39	178.74	179.89		179.9	0.000177	0.38	105.84	475.28	0.12
Coyle	Ridgeville_W	2961	SCS50yr	14.46	178.74	179.94		179.94	0.000155	0.36	129.4	547.08	0.11
Coyle	Ridgeville_W	2961	SCS100yr	17.07	178.74	179.97		179.97	0.000169	0.39	143.87	579	0.12
Coyle	Ridgeville_W	2961	SCS200yr	21.55	178.74	180.27		180.27	0.000028	0.18	342.79	776.54	0.05
Coyle	Ridgeville_W	2961	RSnow100yr	12.37	178.74	179.9		179.9	0.000175	0.38	106.17	476.36	0.12
Coyle	Ridgeville_W	2874	SCS2yr	5.23	178.67	179.4		179.4	0.000498	0.41	28.74	164.3	0.17
Coyle	Ridgeville_W	2874	SCS5yr	7.11	178.67	179.77		179.77	0.000026	0.13	142.83	544.74	0.04
Coyle	Ridgeville_W	2874	SCS10yr	9.12	178.67	179.86		179.86	0.000023	0.13	202.2	754.38	0.04
Coyle	Ridgeville_W	2874	SCS25yr	12.39	178.67	179.89		179.89	0.000032	0.16	227.85	791.5	0.05
Coyle	Ridgeville_W	2874	SCS50yr	14.46	178.67	179.94		179.94	0.000029	0.15	266.41	861.69	0.05
Coyle	Ridgeville_W	2874	SCS100yr	17.07	178.67	179.96		179.96	0.000033	0.17	288.34	876.88	0.05
Coyle	Ridgeville_W	2874	SCS200yr	21.55	178.67	180.27		180.27	0.000008	0.09	578.45	997.65	0.02
Coyle	Ridgeville_W	2874	RSnow100yr	12.37	178.67	179.89		179.89	0.000031	0.15	228.44	792.48	0.05
Coyle	Ridgeville_W	2776	SCS2yr	5.23	178.54	179.36	179.01	179.37	0.000275	0.37	39.75	263.25	0.14
Coyle	Ridgeville_W	2776	SCS5yr	7.11	178.54	179.77	179.06	179.77	0.000009	0.09	246.09	864.34	0.03
Coyle	Ridgeville_W	2776	SCS10yr	9.12	178.54	179.86	179.12	179.86	0.000008	0.09	329.41	957.2	0.03
Coyle	Ridgeville_W	2776	SCS25yr	12.39	178.54	179.89	179.15	179.89	0.000011	0.11	360.92	973.38	0.03

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	2776	SCS50yr	14.46	178.54	179.94	179.21	179.94	0.000011	0.11	406.82	1004.87	0.03
Coyle	Ridgeville_W	2776	SCS100yr	17.07	178.54	179.96	179.25	179.96	0.000013	0.12	432.07	1022.71	0.03
Coyle	Ridgeville_W	2776	SCS200yr	21.55	178.54	180.27	179.3	180.27	0.000004	0.07	746.16	1031.5	0.02
Coyle	Ridgeville_W	2776	RSnow100yr	12.37	178.54	179.89	179.15	179.89	0.000011	0.11	361.67	973.68	0.03
Coyle	Ridgeville_W	2703	SCS2yr	5.23	178.36	179.36	179.06	179.36	0.000042	0.17	73.31	399.74	0.06
Coyle	Ridgeville_W	2703	SCS5yr	7.11	178.36	179.76	179.1	179.76	0.000002	0.05	329.15	796.16	0.01
Coyle	Ridgeville_W	2703	SCS10yr	9.12	178.36	179.86	179.13	179.86	0.000002	0.05	402.61	811.03	0.01
Coyle	Ridgeville_W	2703	SCS25yr	12.39	178.36	179.89	179.15	179.89	0.000003	0.06	429	812.85	0.02
Coyle	Ridgeville_W	2703	SCS50yr	14.46	178.36	179.93	179.17	179.93	0.000003	0.07	466.78	815.44	0.02
Coyle	Ridgeville_W	2703	SCS100yr	17.07	178.36	179.96	179.18	179.96	0.000004	0.07	487.03	816.83	0.02
Coyle	Ridgeville_W	2703	SCS200yr	21.55	178.36	180.27	179.21	180.27	0.000002	0.06	740.48	858.07	0.01
Coyle	Ridgeville_W	2703	RSnow100yr	12.37	178.36	179.89	179.16	179.89	0.000003	0.06	429.62	812.89	0.02
Coyle	Ridgeville_W	2548	SCS2yr	5.23	178.1	179.36	178.48	179.36	0	0.01	280.67	563.51	0
Coyle	Ridgeville_W	2548	SCS5yr	7.11	178.1	179.76	178.51	179.76	0	0.01	560.98	796.11	0
Coyle	Ridgeville_W	2548	SCS10yr	9.12	178.1	179.86	178.52	179.86	0	0.01	634.17	807.24	0
Coyle	Ridgeville_W	2548	SCS25yr	12.39	178.1	179.89	178.56	179.89	0	0.02	660.38	808.44	0
Coyle	Ridgeville_W	2548	SCS50yr	14.46	178.1	179.93	178.58	179.93	0	0.02	697.94	810.16	0.01
Coyle	Ridgeville_W	2548	SCS100yr	17.07	178.1	179.96	178.6	179.96	0	0.02	718.03	811.36	0.01
Coyle	Ridgeville_W	2548	SCS200yr	21.55	178.1	180.27	178.61	180.27	0	0.02	968.37	824.37	0.01
Coyle	Ridgeville_W	2548	RSnow100yr	12.37	178.1	179.89	178.56	179.89	0	0.02	661	808.47	0
Coyle	Ridgeville_W	2503	SCS2yr	5.23	177.97	179.3	178.65	179.35	0.000643	0.74	6.46	316.08	0.22
Coyle	Ridgeville_W	2503	SCS5yr	7.11	177.97	179.7	178.73	179.75	0.0004	0.72	8.87	712.82	0.19
Coyle	Ridgeville_W	2503	SCS10yr	9.12	177.97	179.86	178.82	179.86	0	0.01	580.52	714.47	0
Coyle	Ridgeville_W	2503	SCS25yr	12.39	177.97	179.89	178.97	179.89	0	0.01	603.73	714.86	0
Coyle	Ridgeville_W	2503	SCS50yr	14.46	177.97	179.93	179.06	179.93	0	0.02	636.91	715.22	0
Coyle	Ridgeville_W	2503	SCS100yr	17.07	177.97	179.96	179.17	179.96	0	0.02	654.64	715.7	0
Coyle	Ridgeville_W	2503	SCS200yr	21.55	177.97	180.27	179.36	180.27	0	0.02	875.23	728.45	0
Coyle	Ridgeville_W	2503	RSnow100yr	12.37	177.97	179.89	178.97	179.89	0	0.01	604.27	714.86	0
Coyle	Ridgeville_W	2497		Culvert									
Coyle	Ridgeville_W	2489	SCS2yr	6.17	177.8	178.87	178.52	179	0.003329	1.58	3.9	69.13	0.51
Coyle	Ridgeville_W	2489	SCS5yr	8.38	177.8	179.01	178.67	179.19	0.003947	1.88	4.45	100.2	0.57
Coyle	Ridgeville_W	2489	SCS10yr	10.55	177.8	179.08	178.79	179.34	0.005093	2.23	4.74	141.63	0.65
Coyle	Ridgeville_W	2489	SCS25yr	13.63	177.8	179.12	178.95	179.52	0.007763	2.8	4.87	162.15	0.81
Coyle	Ridgeville_W	2489	SCS50yr	16.72	177.8	179.11	179.11	179.72	0.011749	3.44	4.86	159.91	1
Coyle	Ridgeville_W	2489	SCS100yr	19.7	177.8	179.25	179.25	179.93	0.011338	3.63	5.42	246.68	1
Coyle	Ridgeville_W	2489	SCS200yr	24.81	177.8	179.48	179.48	180.26	0.010673	3.91	6.35	428.05	0.99
Coyle	Ridgeville_W	2489	RSnow100yr	13.43	177.8	179.12	178.95	179.5	0.007511	2.76	4.87	163.1	0.8
Coyle	Ridgeville_W	2471	SCS2yr	6.17	177.76	178.87		178.93	0.001594	1.1	6.49	12.46	0.35
Coyle	Ridgeville_W	2471	SCS5yr	8.38	177.76	179.04		179.09	0.001368	1.13	13.07	66.49	0.34
Coyle	Ridgeville_W	2471	SCS10yr	10.55	177.76	179.15		179.19	0.001042	1.05	22.56	96.18	0.3
Coyle	Ridgeville_W	2471	SCS25yr	13.63	177.76	179.27		179.3	0.000824	0.99	35.53	146.79	0.27
Coyle	Ridgeville_W	2471	SCS50yr	16.72	177.76	179.33		179.36	0.000792	1	46.67	209.81	0.27
Coyle	Ridgeville_W	2471	SCS100yr	19.7	177.76	179.37		179.4	0.00084	1.05	55.86	251.81	0.27
Coyle	Ridgeville_W	2471	SCS200yr	24.81	177.76	179.42		179.45	0.000896	1.11	70.71	308.74	0.29
Coyle	Ridgeville_W	2471	RSnow100yr	13.43	177.76	179.26		179.29	0.000829	0.99	34.76	143.31	0.27
Coyle	Ridgeville_W	2401	SCS2yr	6.17	177.6	178.76		178.81	0.001582	1.08	6.18	7.44	0.34
Coyle	Ridgeville_W	2401	SCS5yr	8.38	177.6	178.9		178.98	0.001816	1.26	7.52	14.99	0.37
Coyle	Ridgeville_W	2401	SCS10yr	10.55	177.6	178.99		179.09	0.002122	1.43	9.54	116.23	0.41
Coyle	Ridgeville_W	2401	SCS25yr	13.63	177.6	179.09	178.61	179.2	0.002313	1.57	14.93	181.97	0.43
Coyle	Ridgeville_W	2401	SCS50yr	16.72	177.6	179.16	178.73	179.26	0.002385	1.65	22.78	236.86	0.44
Coyle	Ridgeville_W	2401	SCS100yr	19.7	177.6	179.22	178.88	179.3	0.002157	1.61	32.57	279.27	0.42
Coyle	Ridgeville_W	2401	SCS200yr	24.81	177.6	179.31	179.22	179.36	0.001665	1.47	53.45	380.08	0.37
Coyle	Ridgeville_W	2401	RSnow100yr	13.43	177.6	179.09	178.6	179.19	0.002291	1.56	14.56	177.72	0.43
Coyle	Ridgeville_W	2332	SCS2yr	6.17	177.52	178.68		178.72	0.001138	0.96	8.81	21.02	0.3
Coyle	Ridgeville_W	2332	SCS5yr	8.38	177.52	178.83		178.87	0.001091	1.03	12.81	41.06	0.3
Coyle	Ridgeville_W	2332	SCS10yr	10.55	177.52	178.93		178.97	0.001107	1.09	17.97	128.59	0.31
Coyle	Ridgeville_W	2332	SCS25yr	13.63	177.52	179.03		179.07	0.001125	1.16	29.03	263.71	0.32
Coyle	Ridgeville_W	2332	SCS50yr	16.72	177.52	179.1		179.14	0.001054	1.16	37.68	281.85	0.31
Coyle	Ridgeville_W	2332	SCS100yr	19.7	177.52	179.15		179.19	0.001015	1.16	45.55	299.02	0.3
Coyle	Ridgeville_W	2332	SCS200yr	24.81	177.52	179.24		179.27	0.000921	1.15	60.54	350.55	0.29
Coyle	Ridgeville_W	2332	RSnow100yr	13.43	177.52	179.02		179.07	0.001127	1.16	28.47	262.68	0.32
Coyle	Ridgeville_W	2268	SCS2yr	6.17	177.38	178.56		178.63	0.001751	1.17	6.48	12.71	0.37
Coyle	Ridgeville_W	2268	SCS5yr	8.38	177.38	178.7		178.78	0.001861	1.32	9.64	35.36	0.39
Coyle	Ridgeville_W	2268	SCS10yr	10.55	177.38	178.78	178.37	178.87	0.002163	1.48	12.84	57.65	0.43
Coyle	Ridgeville_W	2268	SCS25yr	13.63	177.38	178.88	178.52	178.97	0.002124	1.55	21.48	122.88	0.43
Coyle	Ridgeville_W	2268	SCS50yr	16.72	177.38	178.97		179.05	0.001799	1.49	34.6	247.2	0.4
Coyle	Ridgeville_W	2268	SCS100yr	19.7	177.38	179.06		179.11	0.001442	1.39	47.95	269.59	0.36
Coyle	Ridgeville_W	2268	SCS200yr	24.81	177.38	179.17		179.21	0.001109	1.28	70.49	311.52	0.32
Coyle	Ridgeville_W	2268	RSnow100yr	13.43	177.38	178.87	178.51	178.97	0.002138	1.55	20.72	116.1	0.43
Coyle	Ridgeville_W	2175	SCS2yr	6.17	177.37	178.44		178.49	0.001234	0.96	8.95	32.92	0.31
Coyle	Ridgeville_W	2175	SCS5yr	8.38	177.37	178.62		178.65	0.00088	0.91	19.16	77.69	0.27
Coyle	Ridgeville_W	2175	SCS10yr	10.55	177.37	178.69		178.73	0.000899	0.96	25.31	88.69	0.28
Coyle	Ridgeville_W	2175	SCS25yr	13.63	177.37	178.82		178.84	0.000727	0.92	38.68	119.53	0.25
Coyle	Ridgeville_W	2175	SCS50yr	16.72	177.37	178.92		178.94	0.000616	0.89	51.56	152.35	0.24
Coyle	Ridgeville_W	2175	SCS100yr	19.7	177.37	179.01		179.02	0.000506	0.84	64.24	237.98	0.22
Coyle	Ridgeville_W	2175	SCS200yr	24.81	177.37	179.12		179.14	0.000438	0.82	83.09	275.43	0.2
Coyle	Ridgeville_W	2175	RSnow100yr	13.43	177.37	178.81		178.84	0.000736	0.92	37.84	118.21	0.25
Coyle	Ridgeville_W	2082	SCS2yr	6.17	177.22	178.3	177.84	178.36	0.001537	1.05	6.33	8.23	0.35
Coyle	Ridgeville_W	2082	SCS5yr	8.38	177.22	178.47	177.95	178.54	0.001582	1.19	7.82	9.24	0.36
Coyle	Ridgeville_W	2082	SCS10yr	10.55	177.22	178.63	178.04	178.65	0.000705	0.87	28.14	90.73	0.25
Coyle	Ridgeville_W	2082	SCS25yr	13.63	177.22	178.77	178.16	178.79	0.000512	0.79	41.79	104.16	0.21
Coyle	Ridgeville_W	2082	SCS50yr	16.72	177.22	178.88	178.29	178.89	0.000447	0.78	53.91	123.03	0.2
Coyle	Ridgeville_W	2082	SCS100yr	19.7	177.22	178.97	178.39	178.98	0.00039	0.76	66.34	134.91	0.19
Coyle	Ridgeville_W	2082	SCS200yr	24.81	177.22	179.09	178.62	179.1	0.000351	0.75	83.24	143.47	0.18
Coyle	Ridgeville_W	2082	RSnow100yr	13.43	177.22	178.76	178.16	178.78	0.000518	0.8	40.99	101.67	0.21
Coyle	Ridgeville_W	2016	SCS2yr	6.17	177.16	178.17		178.24	0.002051	1.21	5.73	7.98	0.4
Coyle	Ridgeville_W	2016	SCS5yr	8.38	177.16	178.33		178.42	0.002126	1.38	7.14	12.52	0.42
Coyle	Ridgeville_W	2016	SCS10yr	10.55	177.16	178.49		178.58	0.001853	1.41	11.82	44.47	0.4
Coyle	Ridgeville_W	2016	SCS25yr	13.63	177.16	178.67		178.73	0.001315	1.3	22.58	66.61	0.35
Coyle	Ridgeville_W	2016	SCS50yr	16.72	177.16	178.79		178.84	0.001096	1.25	31.84	86.8	0.32
Coyle	Ridgeville_W	2016	SCS100yr	19.7	177.16	178.9		178.94	0.000914	1.2	42.14	105.33	0.3
Coyle	Ridgeville_W	2016	SCS200yr	24.81	177.16	179.03		179.07	0.000822	1.2	55.47	183.75	0.29
Coyle	Ridgeville_W	2016	RSnow100yr	13.43	177.16	178.66		178.72	0.001337	1.31	21.96	66.24	0.35
Coyle	Ridgeville_W	1936	SCS2yr	6.17	177.06	177.92		178.02	0.003668	1.39	4.67	7.68	0.51
Coyle	Ridgeville_W	1936	SCS5yr	8.38	177.06	178.1		178.21	0.003249	1.5	6.13	9.52	0.5
Coyle	Ridgeville_W	1936	SCS10yr	10.55	177.06	178.29		178.4	0.002552	1.51	8.48	14.9	0.46
Coyle	Ridgeville_W	1936	SCS25yr	13.63	177.06	178.48		178.59	0.002276	1.58	12.21	33.86	0.45
Coyle	Ridgeville_W	1936	SCS50yr	16.72	177.06	178.62		178.72	0.00193	1.57	18.39	48.82	0.42
Coyle	Ridgeville_W	1936	SCS100yr	19.7	177.06	178.77		178.85	0.001417	1.43	26.55	58.26	0.36
Coyle	Ridgeville_W	1936	SCS200yr	24.81	177.06	178.91		178.98	0.001326	1.47	35.17	77.92	0.36
Coyle	Ridgeville_W	1936	RSnow100yr	13.43	177.06	178.47		178.58	0.002286	1.58	11.9	31.96	0.45
Coyle	Ridgeville_W	1864	SCS2yr	6.17	176.66	177.71		177.79	0.002664	1.3	5.29	7.67	0.45

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	1864	SCS5yr	8.38	176.66	177.91		178.01	0.00232	1.4	6.93	8.67	0.44
Coyle	Ridgeville_W	1864	SCS10yr	10.55	176.66	178.16		178.25	0.001704	1.38	9.77	21.71	0.39
Coyle	Ridgeville_W	1864	SCS25yr	13.63	176.66	178.38		178.46	0.00133	1.35	17.11	41.38	0.35
Coyle	Ridgeville_W	1864	SCS50yr	16.72	176.66	178.55		178.61	0.00102	1.27	26.77	68.37	0.31
Coyle	Ridgeville_W	1864	SCS100yr	19.7	176.66	178.73		178.77	0.000678	1.11	43.04	117.99	0.26
Coyle	Ridgeville_W	1864	SCS200yr	24.81	176.66	178.88		178.91	0.000547	1.05	61.19	126.93	0.24
Coyle	Ridgeville_W	1864	RSnow100yr	13.43	176.66	178.37		178.45	0.001332	1.35	16.71	40.68	0.35
Coyle	Ridgeville_W	1780	SCS2yr	6.17	176.3	177.6		177.65	0.001098	0.99	7.06	8.03	0.3
Coyle	Ridgeville_W	1780	SCS5yr	8.38	176.3	177.81		177.87	0.00109	1.11	8.83	8.82	0.31
Coyle	Ridgeville_W	1780	SCS10yr	10.55	176.3	178.08		178.14	0.000884	1.13	11.33	9.84	0.28
Coyle	Ridgeville_W	1780	SCS25yr	13.63	176.3	178.29		178.36	0.000928	1.26	13.52	10.71	0.3
Coyle	Ridgeville_W	1780	SCS50yr	16.72	176.3	178.43		178.52	0.001055	1.41	15.21	15.92	0.32
Coyle	Ridgeville_W	1780	SCS100yr	19.7	176.3	178.61		178.7	0.000975	1.44	23.3	76.39	0.31
Coyle	Ridgeville_W	1780	SCS200yr	24.81	176.3	178.77		178.85	0.000925	1.47	39.07	120.82	0.31
Coyle	Ridgeville_W	1780	RSnow100yr	13.43	176.3	178.28		178.35	0.000916	1.24	13.43	10.67	0.3
Coyle	Ridgeville_W	1736	SCS2yr	6.17	176.34	177.48		177.57	0.002621	1.37	5.35	8.03	0.45
Coyle	Ridgeville_W	1736	SCS5yr	8.38	176.34	177.71		177.8	0.002159	1.43	7.26	9.02	0.42
Coyle	Ridgeville_W	1736	SCS10yr	10.55	176.34	178		178.09	0.001475	1.38	10.29	12.6	0.36
Coyle	Ridgeville_W	1736	SCS25yr	13.63	176.34	178.22		178.31	0.001407	1.47	17	50.32	0.36
Coyle	Ridgeville_W	1736	SCS50yr	16.72	176.34	178.4		178.47	0.001067	1.37	28.01	80.33	0.32
Coyle	Ridgeville_W	1736	SCS100yr	19.7	176.34	178.62		178.65	0.000563	1.07	51.99	138.45	0.24
Coyle	Ridgeville_W	1736	SCS200yr	24.81	176.34	178.78		178.8	0.000416	0.97	77.61	176.89	0.21
Coyle	Ridgeville_W	1736	RSnow100yr	13.43	176.34	178.21		178.3	0.001428	1.48	16.43	49.63	0.36
Coyle	Ridgeville_W	1665	SCS2yr	6.17	176.05	177.37	176.81	177.43	0.001384	1.13	6.23	7.12	0.34
Coyle	Ridgeville_W	1665	SCS5yr	8.38	176.05	177.6	176.94	177.68	0.001315	1.25	7.98	8.01	0.34
Coyle	Ridgeville_W	1665	SCS10yr	10.55	176.05	177.93	177.06	178	0.000962	1.23	11.68	28.33	0.3
Coyle	Ridgeville_W	1665	SCS25yr	13.63	176.05	178.18	177.21	178.23	0.000691	1.14	24.04	56.24	0.26
Coyle	Ridgeville_W	1665	SCS50yr	16.72	176.05	178.37	177.34	178.41	0.000519	1.06	35.6	64.68	0.23
Coyle	Ridgeville_W	1665	SCS100yr	19.7	176.05	178.6	177.46	178.62	0.000301	0.86	61.87	125.26	0.18
Coyle	Ridgeville_W	1665	SCS200yr	24.81	176.05	178.76	177.66	178.78	0.000251	0.82	83.76	138.46	0.16
Coyle	Ridgeville_W	1665	RSnow100yr	13.43	176.05	178.17	177.2	178.22	0.000701	1.15	23.37	55.79	0.26
Coyle	Ridgeville_W	1587	SCS2yr	6.17	176.01	177.26	176.7	177.32	0.001379	1.12	6.29	7.38	0.34
Coyle	Ridgeville_W	1587	SCS5yr	8.38	176.01	177.5	176.82	177.57	0.001294	1.23	8.16	8.34	0.34
Coyle	Ridgeville_W	1587	SCS10yr	10.55	176.01	177.86	176.94	177.93	0.000863	1.18	12.84	21.26	0.29
Coyle	Ridgeville_W	1587	SCS25yr	13.63	176.01	178.11	177.09	178.17	0.000758	1.21	19.92	41.06	0.27
Coyle	Ridgeville_W	1587	SCS50yr	16.72	176.01	178.31	177.23	178.36	0.000646	1.19	29.49	55.09	0.26
Coyle	Ridgeville_W	1587	SCS100yr	19.7	176.01	178.58	177.35	178.6	0.0002	0.72	86.46	138.89	0.15
Coyle	Ridgeville_W	1587	SCS200yr	24.81	176.01	178.75	177.55	178.76	0.000194	0.73	112.15	177.17	0.14
Coyle	Ridgeville_W	1587	RSnow100yr	13.43	176.01	178.1	177.08	178.16	0.000757	1.2	19.47	39.24	0.27
Coyle	Ridgeville_W	1495	SCS2yr	6.17	175.87	177.14		177.19	0.001485	1.06	6.53	7.34	0.32
Coyle	Ridgeville_W	1495	SCS5yr	8.38	175.87	177.38		177.45	0.001376	1.16	8.47	8.21	0.31
Coyle	Ridgeville_W	1495	SCS10yr	10.55	175.87	177.79		177.84	0.00087	1.1	14.12	31.86	0.26
Coyle	Ridgeville_W	1495	SCS25yr	13.63	175.87	178.06		178.1	0.00066	1.05	27.7	73.85	0.23
Coyle	Ridgeville_W	1495	SCS50yr	16.72	175.87	178.28		178.31	0.000423	0.9	50.32	119.36	0.19
Coyle	Ridgeville_W	1495	SCS100yr	19.7	175.87	178.57		178.58	0.000173	0.62	93.32	170.16	0.12
Coyle	Ridgeville_W	1495	SCS200yr	24.81	175.87	178.74		178.74	0.000145	0.59	125.17	209.66	0.11
Coyle	Ridgeville_W	1495	RSnow100yr	13.43	175.87	178.05		178.09	0.000667	1.05	26.84	70.5	0.23
Coyle	Ridgeville_W	1428	SCS2yr	6.17	175.95	177.02		177.08	0.001779	1.14	5.82	7.46	0.37
Coyle	Ridgeville_W	1428	SCS5yr	8.38	175.95	177.29		177.36	0.001361	1.18	8	8.68	0.34
Coyle	Ridgeville_W	1428	SCS10yr	10.55	175.95	177.74		177.79	0.000682	1.03	15.4	36.06	0.25
Coyle	Ridgeville_W	1428	SCS25yr	13.63	175.95	178.03		178.06	0.000446	0.92	34.83	92.07	0.21
Coyle	Ridgeville_W	1428	SCS50yr	16.72	175.95	178.26		178.28	0.000267	0.77	63.27	149.87	0.17
Coyle	Ridgeville_W	1428	SCS100yr	19.7	175.95	178.56		178.57	0.000109	0.54	121.97	240.22	0.11
Coyle	Ridgeville_W	1428	SCS200yr	24.81	175.95	178.73		178.73	0.000086	0.5	165.06	270.22	0.1
Coyle	Ridgeville_W	1428	RSnow100yr	13.43	175.95	178.02		178.05	0.000452	0.93	33.71	89	0.21
Coyle	Ridgeville_W	1346	SCS2yr	6.17	175.84	176.88		176.93	0.001813	0.98	6.3	8.17	0.36
Coyle	Ridgeville_W	1346	SCS5yr	8.38	175.84	177.21		177.25	0.001017	0.91	9.54	11.58	0.28
Coyle	Ridgeville_W	1346	SCS10yr	10.55	175.84	177.74		177.75	0.00024	0.58	35.27	95.56	0.15
Coyle	Ridgeville_W	1346	SCS25yr	13.63	175.84	178.03		178.04	0.000121	0.46	70.32	148.5	0.11
Coyle	Ridgeville_W	1346	SCS50yr	16.72	175.84	178.26		178.27	0.000074	0.39	107.74	174.44	0.09
Coyle	Ridgeville_W	1346	SCS100yr	19.7	175.84	178.56		178.56	0.000035	0.29	162.18	197.8	0.06
Coyle	Ridgeville_W	1346	SCS200yr	24.81	175.84	178.73		178.73	0.000034	0.3	196.68	212.36	0.06
Coyle	Ridgeville_W	1346	RSnow100yr	13.43	175.84	178.02		178.03	0.000124	0.46	68.49	147.35	0.11
Coyle	Ridgeville_W	1263	SCS2yr	6.17	175.74	176.73		176.79	0.001668	1.08	6.35	8.95	0.36
Coyle	Ridgeville_W	1263	SCS5yr	8.38	175.74	177.16		177.19	0.000616	0.85	15.23	33.31	0.24
Coyle	Ridgeville_W	1263	SCS10yr	10.55	175.74	177.73		177.73	0.000099	0.43	55.4	139.43	0.1
Coyle	Ridgeville_W	1263	SCS25yr	13.63	175.74	178.03		178.03	0.000045	0.32	110.7	201.51	0.07
Coyle	Ridgeville_W	1263	SCS50yr	16.72	175.74	178.26		178.26	0.000029	0.28	159.57	223.91	0.06
Coyle	Ridgeville_W	1263	SCS100yr	19.7	175.74	178.56		178.56	0.000016	0.22	230.73	250.14	0.04
Coyle	Ridgeville_W	1263	SCS200yr	24.81	175.74	178.73		178.73	0.000016	0.23	276.09	294.18	0.04
Coyle	Ridgeville_W	1263	RSnow100yr	13.43	175.74	178.02		178.02	0.000046	0.33	108.2	200.41	0.07
Coyle	Ridgeville_W	1185	SCS2yr	6.17	175.47	176.63		176.68	0.001091	0.97	7.65	10.26	0.3
Coyle	Ridgeville_W	1185	SCS5yr	8.38	175.47	177.12		177.14	0.000442	0.79	18.78	44.45	0.2
Coyle	Ridgeville_W	1185	SCS10yr	10.55	175.47	177.72		177.73	0.000069	0.39	57.97	76.17	0.09
Coyle	Ridgeville_W	1185	SCS25yr	13.63	175.47	178.03		178.03	0.000047	0.35	82.26	86.51	0.07
Coyle	Ridgeville_W	1185	SCS50yr	16.72	175.47	178.26		178.26	0.000038	0.34	109.66	138.62	0.07
Coyle	Ridgeville_W	1185	SCS100yr	19.7	175.47	178.56		178.56	0.000025	0.3	155.45	173.19	0.05
Coyle	Ridgeville_W	1185	SCS200yr	24.81	175.47	178.72		178.73	0.000028	0.32	189.42	225.19	0.06
Coyle	Ridgeville_W	1185	RSnow100yr	13.43	175.47	178.01		178.02	0.000047	0.35	81.21	83.63	0.07
Coyle	Ridgeville_W	1109	SCS2yr	6.17	175.13	176.59		176.62	0.00051	0.76	10.09	20.06	0.21
Coyle	Ridgeville_W	1109	SCS5yr	8.38	175.13	177.11		177.12	0.000138	0.49	33.81	56.19	0.12
Coyle	Ridgeville_W	1109	SCS10yr	10.55	175.13	177.72		177.72	0.000029	0.28	84.42	96.93	0.06
Coyle	Ridgeville_W	1109	SCS25yr	13.63	175.13	178.02		178.03	0.000024	0.27	118.3	131.18	0.05
Coyle	Ridgeville_W	1109	SCS50yr	16.72	175.13	178.26		178.26	0.000021	0.27	151.63	162.04	0.05
Coyle	Ridgeville_W	1109	SCS100yr	19.7	175.13	178.55		178.56	0.000018	0.26	212.18	219.07	0.05
Coyle	Ridgeville_W	1109	SCS200yr	24.81	175.13	178.72		178.72	0.000018	0.27	249.99	231.5	0.05
Coyle	Ridgeville_W	1109	RSnow100yr	13.43	175.13	178.01		178.01	0.000024	0.27	116.68	128.89	0.05
Coyle	Ridgeville_W	1050	SCS2yr	6.17	175.1	176.55		176.58	0.000991	0.81	8.96	10.5	0.23
Coyle	Ridgeville_W	1050	SCS5yr	8.38	175.1	177.1		177.11	0.000225	0.49	33.1	60.55	0.11
Coyle	Ridgeville_W	1050	SCS10yr	10.55	175.1	177.72		177.72	0.000046	0.27	77.43	85.3	0.05
Coyle	Ridgeville_W	1050	SCS25yr	13.63	175.1	178.02		178.02	0.000036	0.26	106.25	104.88	0.05
Coyle	Ridgeville_W	1050	SCS50yr	16.72	175.1	178.25		178.26	0.000034	0.26	134.27	138.24	0.05
Coyle	Ridgeville_W	1050	SCS100yr	19.7	175.1	178.55		178.55	0.000024	0.24	178.87	160.19	0.04
Coyle	Ridgeville_W	1050	SCS200yr	24.81	175.1	178.72		178.72	0.000027	0.26	208.01	191.17	0.04
Coyle	Ridgeville_W	1050	RSnow100yr	13.43	175.1	178.01		178.01	0.000036	0.25	104.95	104.17	0.05
Coyle	Ridgeville_W	978	SCS2yr	6.17	174.89	176.51		176.53	0.000371	0.69	13.33	21.83	0.18
Coyle	Ridgeville_W	978	SCS5yr	8.38	174.89	177.09		177.1	0.000101	0.45	37.79	54.16	0.1
Coyle	Ridgeville_W	978	SCS10yr	10.55	174.89	177.72		177.72	0.000029	0.29	75.46	68.4	0.06
Coyle	Ridgeville_W	978	SCS25yr	13.63	174.89	178.02		178.02	0.000026	0.3	100.42	99.05	0.05
Coyle	Ridgeville_W	978	SCS50yr	16.72	174.89	178.25		178.25	0.000025	0.3	128.65	146.81	0.05
Coyle	Ridgeville_W	978	SCS100yr	19.7	174.89	178.55		178.55	0.000019	0.28	183.35	227.63	0.05
Coyle	Ridgeville_W	978	SCS200yr	24.81	174.89	178.72		178.72	0.00002	0.3	224.88	258.69	0.05
Coyle	Ridgeville_W	978	RSnow100yr	13.43	174.89	178.01		178.01	0.000026	0.29	99.21	97.51	0.05

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	957	SCS2yr	6.17	174.53	176.51	175.46	176.52	0.000277	0.58	11.53	11.83	0.15
Coyle	Ridgeville_W	957	SCS5yr	8.38	174.53	177.08	175.59	177.1	0.000118	0.47	18.58	41.38	0.11
Coyle	Ridgeville_W	957	SCS10yr	10.55	174.53	177.7	175.69	177.71	0.000059	0.4	26.2	54.19	0.08
Coyle	Ridgeville_W	957	SCS25yr	13.63	174.53	178.02	175.81	178.02	0.00003	0.3	76.35	104.06	0.06
Coyle	Ridgeville_W	957	SCS50yr	16.72	174.53	178.25	175.93	178.25	0.000028	0.31	102.16	127.81	0.06
Coyle	Ridgeville_W	957	SCS100yr	19.7	174.53	178.55	176.03	178.55	0.00002	0.28	154.53	206.85	0.05
Coyle	Ridgeville_W	957	SCS200yr	24.81	174.53	178.72	176.19	178.72	0.000025	0.32	193.9	262.74	0.05
Coyle	Ridgeville_W	957	RSnow100yr	13.43	174.53	178	175.8	178.01	0.00003	0.3	75.14	101.76	0.06
Coyle	Ridgeville_W	942		Culvert									
Coyle	Ridgeville_W	931	SCS2yr	6.17	174.85	176.27	175.44	176.3	0.000317	0.59	9.51	17.27	0.17
Coyle	Ridgeville_W	931	SCS5yr	8.38	174.85	176.64	175.56	176.67	0.000223	0.59	12.51	31.5	0.15
Coyle	Ridgeville_W	931	SCS10yr	10.55	174.85	176.99	175.64	177.02	0.000171	0.58	15.4	38.02	0.13
Coyle	Ridgeville_W	931	SCS25yr	13.63	174.85	177.52	175.74	177.52	0.000014	0.2	56.74	53.93	0.04
Coyle	Ridgeville_W	931	SCS50yr	16.72	174.85	178.22	175.84	178.22	0.000004	0.12	100.63	70.28	0.02
Coyle	Ridgeville_W	931	SCS100yr	19.7	174.85	178.54	175.94	178.54	0.000003	0.11	130.6	126.66	0.02
Coyle	Ridgeville_W	931	SCS200yr	24.81	174.85	178.71	176.08	178.71	0.000003	0.13	157.41	188.21	0.02
Coyle	Ridgeville_W	931	RSnow100yr	13.43	174.85	177.48	175.74	177.48	0.000015	0.2	54.77	52.65	0.04
Coyle	Ridgeville_W	884	SCS2yr	6.17	174.86	176.28		176.28	0.00004	0.21	40.61	78.83	0.06
Coyle	Ridgeville_W	884	SCS5yr	8.38	174.86	176.65		176.65	0.000015	0.15	70.77	85.61	0.04
Coyle	Ridgeville_W	884	SCS10yr	10.55	174.86	177		177	0.000008	0.13	105.03	108.13	0.03
Coyle	Ridgeville_W	884	SCS25yr	13.63	174.86	177.52		177.52	0.000004	0.1	163.16	117.2	0.02
Coyle	Ridgeville_W	884	SCS50yr	16.72	174.86	178.22		178.22	0.000002	0.08	248.52	126.56	0.01
Coyle	Ridgeville_W	884	SCS100yr	19.7	174.86	178.54		178.54	0.000002	0.08	290.42	132.09	0.01
Coyle	Ridgeville_W	884	SCS200yr	24.81	174.86	178.71		178.71	0.000002	0.1	313.08	135.85	0.02
Coyle	Ridgeville_W	884	RSnow100yr	13.43	174.86	177.48		177.48	0.000004	0.1	158.84	116.29	0.02
Coyle	Ridgeville_W	840	SCS2yr	6.17	174.61	176.15	175.72	176.25	0.00228	1.55	5.12	17.32	0.43
Coyle	Ridgeville_W	840	SCS5yr	8.38	174.61	176.53	175.87	176.62	0.001501	1.49	7.3	73.14	0.36
Coyle	Ridgeville_W	840	SCS10yr	10.55	174.61	176.89	176.01	176.98	0.001128	1.46	9.33	87.28	0.32
Coyle	Ridgeville_W	840	SCS25yr	13.63	174.61	177.42	176.19	177.49	0.000793	1.42	12.3	102.47	0.28
Coyle	Ridgeville_W	840	SCS50yr	16.72	174.61	178.13	176.33	178.2	0.00048	1.3	16.36	110.29	0.23
Coyle	Ridgeville_W	840	SCS100yr	19.7	174.61	178.54	176.45	178.54	0.000001	0.06	228.52	113.57	0.01
Coyle	Ridgeville_W	840	SCS200yr	24.81	174.61	178.71	176.65	178.71	0.000001	0.07	247.98	117.22	0.01
Coyle	Ridgeville_W	840	RSnow100yr	13.43	174.61	177.38	176.18	177.46	0.000813	1.43	12.09	102.06	0.28
Coyle	Ridgeville_W	813		Culvert									
Coyle	Ridgeville_W	793	SCS2yr	6.91	173.94	175.34	174.69	175.42	0.001484	1.25	5.52	6.35	0.35
Coyle	Ridgeville_W	793	SCS5yr	9.39	173.94	175.53	174.84	175.64	0.001755	1.49	6.31	6.78	0.39
Coyle	Ridgeville_W	793	SCS10yr	11.82	173.94	175.68	174.97	175.83	0.002008	1.7	6.96	7.13	0.42
Coyle	Ridgeville_W	793	SCS25yr	14.71	173.94	175.84	175.12	176.03	0.002299	1.93	7.62	7.54	0.46
Coyle	Ridgeville_W	793	SCS50yr	17.85	173.94	175.98	175.27	176.22	0.002619	2.17	8.23	7.98	0.5
Coyle	Ridgeville_W	793	SCS100yr	21.22	173.94	176.11	175.41	176.41	0.002973	2.42	8.78	8.55	0.54
Coyle	Ridgeville_W	793	SCS200yr	27.02	173.94	176.3	175.65	176.71	0.003601	2.82	9.59	9.48	0.6
Coyle	Ridgeville_W	793	RSnow100yr	14.21	173.94	175.81	175.09	176	0.002249	1.89	7.51	7.48	0.45
Coyle	Ridgeville_W	782	SCS2yr	6.91	174.07	175.23		175.38	0.004071	1.76	4.29	5.41	0.56
Coyle	Ridgeville_W	782	SCS5yr	9.39	174.07	175.39		175.59	0.004325	2.01	5.24	5.86	0.6
Coyle	Ridgeville_W	782	SCS10yr	11.82	174.07	175.53		175.77	0.004562	2.23	6.09	6.23	0.62
Coyle	Ridgeville_W	782	SCS25yr	14.71	174.07	175.68		175.97	0.004799	2.46	7.03	6.62	0.65
Coyle	Ridgeville_W	782	SCS50yr	17.85	174.07	175.82		176.16	0.005083	2.68	7.97	7.1	0.68
Coyle	Ridgeville_W	782	SCS100yr	21.22	174.07	175.96	175.68	176.34	0.005267	2.89	9	7.66	0.7
Coyle	Ridgeville_W	782	SCS200yr	27.02	174.07	176.24	175.91	176.66	0.004856	3.07	11.27	8.67	0.69
Coyle	Ridgeville_W	782	RSnow100yr	14.21	174.07	175.66		175.93	0.004761	2.42	6.87	6.56	0.65
Coyle	Ridgeville_W	719	SCS2yr	6.91	173.84	174.99		175.12	0.003801	1.65	4.7	6.21	0.54
Coyle	Ridgeville_W	719	SCS5yr	9.39	173.84	175.15		175.32	0.004097	1.89	5.69	6.53	0.57
Coyle	Ridgeville_W	719	SCS10yr	11.82	173.84	175.27		175.48	0.004473	2.12	6.5	6.79	0.61
Coyle	Ridgeville_W	719	SCS25yr	14.71	173.84	175.39		175.65	0.004899	2.37	7.36	7.11	0.65
Coyle	Ridgeville_W	719	SCS50yr	17.85	173.84	175.5		175.82	0.005564	2.64	8.1	7.38	0.7
Coyle	Ridgeville_W	719	SCS100yr	21.22	173.84	175.56		175.97	0.006681	2.99	8.6	7.6	0.77
Coyle	Ridgeville_W	719	SCS200yr	27.02	173.84	175.62	175.58	176.22	0.009542	3.65	9.01	7.8	0.93
Coyle	Ridgeville_W	719	RSnow100yr	14.21	173.84	175.37		175.62	0.004831	2.33	7.22	7.05	0.64
Coyle	Ridgeville_W	636	SCS2yr	6.91	173.67	174.86	174.35	174.92	0.001475	1.11	7.09	9.29	0.35
Coyle	Ridgeville_W	636	SCS5yr	9.39	173.67	175	174.48	175.08	0.001712	1.3	8.5	10.29	0.38
Coyle	Ridgeville_W	636	SCS10yr	11.82	173.67	175.11	174.59	175.21	0.001987	1.48	9.63	11.09	0.42
Coyle	Ridgeville_W	636	SCS25yr	14.71	173.67	175.22	174.7	175.35	0.002269	1.67	11.87	32.22	0.45
Coyle	Ridgeville_W	636	SCS50yr	17.85	173.67	175.34	174.82	175.48	0.00228	1.77	16.74	42.44	0.46
Coyle	Ridgeville_W	636	SCS100yr	21.22	173.67	175.47	174.94	175.6	0.002057	1.78	22.58	45.89	0.44
Coyle	Ridgeville_W	636	SCS200yr	27.02	173.67	175.68	175.11	175.79	0.001741	1.77	32.72	53.32	0.41
Coyle	Ridgeville_W	636	RSnow100yr	14.21	173.67	175.2	174.68	175.33	0.002214	1.64	11.34	28.73	0.44
Coyle	Ridgeville_W	560	SCS2yr	6.91	173.64	174.72		174.79	0.001891	1.18	6.81	13.27	0.39
Coyle	Ridgeville_W	560	SCS5yr	9.39	173.64	174.85		174.94	0.002067	1.35	9.09	19.32	0.41
Coyle	Ridgeville_W	560	SCS10yr	11.82	173.64	174.94		175.05	0.002314	1.5	11.12	24.22	0.44
Coyle	Ridgeville_W	560	SCS25yr	14.71	173.64	175.07		175.17	0.002217	1.57	14.19	26.58	0.44
Coyle	Ridgeville_W	560	SCS50yr	17.85	173.64	175.2		175.3	0.002017	1.6	18.35	35.04	0.43
Coyle	Ridgeville_W	560	SCS100yr	21.22	173.64	175.35		175.44	0.00182	1.62	24.22	50.18	0.41
Coyle	Ridgeville_W	560	SCS200yr	27.02	173.64	175.61		175.67	0.001112	1.4	38.93	61.28	0.33
Coyle	Ridgeville_W	560	RSnow100yr	14.21	173.64	175.05		175.15	0.002235	1.56	13.67	26.27	0.44
Coyle	Ridgeville_W	485	SCS2yr	6.91	173.6	174.52	174.24	174.6	0.003201	1.33	5.8	13.75	0.49
Coyle	Ridgeville_W	485	SCS5yr	9.39	173.6	174.66	174.35	174.75	0.002961	1.43	8.96	30.24	0.48
Coyle	Ridgeville_W	485	SCS10yr	11.82	173.6	174.77	174.48	174.86	0.002519	1.43	12.67	33.53	0.45
Coyle	Ridgeville_W	485	SCS25yr	14.71	173.6	174.95	174.68	175.01	0.001653	1.29	19	37.81	0.38
Coyle	Ridgeville_W	485	SCS50yr	17.85	173.6	175.13	174.76	175.18	0.001168	1.19	25.97	41.62	0.32
Coyle	Ridgeville_W	485	SCS100yr	21.22	173.6	175.29	174.82	175.33	0.000925	1.14	33.26	47.51	0.29
Coyle	Ridgeville_W	485	SCS200yr	27.02	173.6	175.57	174.92	175.6	0.000621	1.04	47.43	58.03	0.25
Coyle	Ridgeville_W	485	RSnow100yr	14.21	173.6	174.93	174.67	174.99	0.001734	1.3	18.04	37.26	0.38
Coyle	Ridgeville_W	409	SCS2yr	6.91	173.15	174.32		174.4	0.002236	1.34	6.68	22.08	0.42
Coyle	Ridgeville_W	409	SCS5yr	9.39	173.15	174.48		174.56	0.002068	1.41	10.87	28.78	0.41
Coyle	Ridgeville_W	409	SCS10yr	11.82	173.15	174.62		174.7	0.001812	1.43	15.44	37.76	0.4
Coyle	Ridgeville_W	409	SCS25yr	14.71	173.15	174.87		174.91	0.000949	1.16	28.95	77.85	0.29
Coyle	Ridgeville_W	409	SCS50yr	17.85	173.15	175.09		175.11	0.000527	0.94	45.98	78.85	0.22
Coyle	Ridgeville_W	409	SCS100yr	21.22	173.15	175.27		175.28	0.000385	0.86	60.74	87.76	0.19
Coyle	Ridgeville_W	409	SCS200yr	27.02	173.15	175.55		175.57	0.000245	0.75	87.54	98.09	0.16
Coyle	Ridgeville_W	409	RSnow100yr	14.21	173.15	174.84		174.89	0.001026	1.19	26.4	76.66	0.31
Coyle	Ridgeville_W	341	SCS2yr	6.91	173.05	174.27		174.3	0.000782	0.84	12.19	26.53	0.25
Coyle	Ridgeville_W	341	SCS5yr	9.39	173.05	174.44		174.47	0.000733	0.9	17.41	36.71	0.25
Coyle	Ridgeville_W	341	SCS10yr	11.82	173.05	174.58		174.61	0.000663	0.91	23.12	41.47	0.24
Coyle	Ridgeville_W	341	SCS25yr	14.71	173.05	174.85		174.87	0.000414	0.81	34.88	47.2	0.2
Coyle	Ridgeville_W	341	SCS50yr	17.85	173.05	175.07		175.08	0.00032	0.77	45.65	50.84	0.18
Coyle	Ridgeville_W	341	SCS100yr	21.22	173.05	175.24		175.26	0.000282	0.77	54.99	53.15	0.17
Coyle	Ridgeville_W	341	SCS200yr	27.02	173.05	175.53		175.55	0.000239	0.77	70.94	57.66	0.16
Coyle	Ridgeville_W	341	RSnow100yr	14.21	173.05	174.81		174.83	0.00043	0.81	33.34	46.6	0.2
Coyle	Ridgeville_W	274	SCS2yr	6.91	172.49	174.27		174.28	0.000115	0.41	45.06	120.91	0.1
Coyle	Ridgeville_W	274	SCS5yr	9.39	172.49	174.44		174.45	0.00008	0.37	65.9	124.09	0.09
Coyle	Ridgeville_W	274	SCS10yr	11.82	172.49	174.59		174.59	0.000064	0.35	84.28	126.16	0.08
Coyle	Ridgeville_W	274	SCS25yr	14.71	172.49	174.85		174.86	0.000037	0.29	118.13	135.35	0.06

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Ridgeville_W	274	SCS50yr	17.85	172.49	175.07		175.07	0.00003	0.28	149.15	149.43	0.06
Coyle	Ridgeville_W	274	SCS100yr	21.22	172.49	175.25		175.25	0.000026	0.27	176.22	151.73	0.05
Coyle	Ridgeville_W	274	SCS200yr	27.02	172.49	175.54		175.54	0.000021	0.26	220.54	154.85	0.05
Coyle	Ridgeville_W	274	RSnow100yr	14.21	172.49	174.82		174.82	0.000039	0.29	113.74	132.92	0.06
Coyle	Ridgeville	242	SCS2yr	13.08	172.47	174.26	173.34	174.27	0.000327	0.71	35.5	60.08	0.18
Coyle	Ridgeville	242	SCS5yr	18.73	172.47	174.42	173.53	174.44	0.000364	0.8	45.76	63.16	0.19
Coyle	Ridgeville	242	SCS10yr	24.98	172.47	174.57	173.93	174.59	0.000406	0.89	55.01	66.56	0.2
Coyle	Ridgeville	242	SCS25yr	33.04	172.47	174.83	174.07	174.85	0.000333	0.87	73.13	70.21	0.19
Coyle	Ridgeville	242	SCS50yr	38.85	172.47	175.05	174.14	175.07	0.00027	0.84	88.97	73.48	0.17
Coyle	Ridgeville	242	SCS100yr	45.37	172.47	175.23	174.2	175.25	0.000256	0.86	102.5	77.31	0.17
Coyle	Ridgeville	242	SCS200yr	57.47	172.47	175.52	174.3	175.54	0.000232	0.87	125.31	80.59	0.16
Coyle	Ridgeville	242	RSnow100yr	31.23	172.47	174.8	174.05	174.82	0.000324	0.85	70.9	69.77	0.18
Coyle	Ridgeville	151	SCS2yr	13.08	172.32	174.25		174.25	0.000148	0.5	56.66	88.21	0.12
Coyle	Ridgeville	151	SCS5yr	18.73	172.32	174.41		174.42	0.000163	0.55	71.5	91.19	0.13
Coyle	Ridgeville	151	SCS10yr	24.98	172.32	174.55		174.56	0.000181	0.61	84.62	93.4	0.14
Coyle	Ridgeville	151	SCS25yr	33.04	172.32	174.82		174.83	0.000149	0.6	110.11	96.73	0.13
Coyle	Ridgeville	151	SCS50yr	38.85	172.32	175.04		175.05	0.000121	0.58	131.98	99.42	0.12
Coyle	Ridgeville	151	SCS100yr	45.37	172.32	175.22		175.23	0.000113	0.58	150.16	101.67	0.11
Coyle	Ridgeville	151	SCS200yr	57.47	172.32	175.51		175.52	0.000106	0.61	180.16	105.35	0.11
Coyle	Ridgeville	151	RSnow100yr	31.23	172.32	174.79		174.8	0.000144	0.59	107.06	96.36	0.12
Coyle	Ridgeville	82	SCS2yr	13.08	172.15	174.21	172.86	174.24	0.000255	0.71	21.81	16.38	0.16
Coyle	Ridgeville	82	SCS5yr	18.73	172.15	174.36	173.03	174.4	0.000403	0.93	24.28	18.08	0.2
Coyle	Ridgeville	82	SCS10yr	24.98	172.15	174.52	173.2	174.54	0.000273	0.81	54.03	59.99	0.17
Coyle	Ridgeville	82	SCS25yr	33.04	172.15	174.79	173.39	174.81	0.000252	0.84	72.69	76.76	0.17
Coyle	Ridgeville	82	SCS50yr	38.85	172.15	175.02	173.52	175.04	0.000208	0.8	90.56	79.73	0.15
Coyle	Ridgeville	82	SCS100yr	45.37	172.15	175.2	173.66	175.22	0.000195	0.81	105.28	81.93	0.15
Coyle	Ridgeville	82	SCS200yr	57.47	172.15	175.49	173.89	175.51	0.000183	0.84	129.61	85.28	0.15
Coyle	Ridgeville	82	RSnow100yr	31.23	172.15	174.76	173.35	174.78	0.000242	0.81	70.36	76.27	0.16
Coyle	Ridgeville	23	SCS2yr	13.08	172.16	174.21	172.79	174.22	0.000108	0.45	34.21	28.65	0.11
Coyle	Ridgeville	23	SCS5yr	18.73	172.16	174.36	172.91	174.38	0.000165	0.59	38.5	30.2	0.13
Coyle	Ridgeville	23	SCS10yr	24.98	172.16	174.51	173.03	174.53	0.000222	0.71	43.07	31.89	0.15
Coyle	Ridgeville	23	SCS25yr	33.04	172.16	174.77	173.17	174.8	0.000242	0.8	51.88	34.9	0.16
Coyle	Ridgeville	23	SCS50yr	38.85	172.16	175	173.27	175.02	0.000232	0.83	60.05	37.94	0.16
Coyle	Ridgeville	23	SCS100yr	45.37	172.16	175.17	173.36	175.21	0.000241	0.89	66.92	39.07	0.17
Coyle	Ridgeville	23	SCS200yr	57.47	172.16	175.5	173.54	175.5	0.000052	0.44	232.97	132.84	0.08
Coyle	Ridgeville	23	RSnow100yr	31.23	172.16	174.74	173.14	174.77	0.000227	0.77	50.89	34.6	0.16
Coyle	Coyle_4	7906	SCS2yr	14.23	174.34	176.94		176.95	0.000028	0.27	115.26	112.94	0.05
Coyle	Coyle_4	7906	SCS5yr	19.35	174.34	177.06		177.06	0.000039	0.33	128.15	116.88	0.06
Coyle	Coyle_4	7906	SCS10yr	24.06	174.34	177.16		177.16	0.000048	0.38	141.19	132.22	0.07
Coyle	Coyle_4	7906	SCS25yr	30.94	174.34	177.27		177.28	0.000063	0.44	156.47	136.55	0.08
Coyle	Coyle_4	7906	SCS50yr	37.83	174.34	177.61		177.61	0.000046	0.41	204.34	148.93	0.07
Coyle	Coyle_4	7906	SCS100yr	44	174.34	177.86		177.87	0.000038	0.39	243.28	155.8	0.07
Coyle	Coyle_4	7906	SCS200yr	55.28	174.34	178.14		178.14	0.000038	0.41	287.28	163.37	0.07
Coyle	Coyle_4	7906	RSnow100yr	29.63	174.34	177.25		177.26	0.000061	0.43	153.55	136.03	0.08
Coyle	Coyle_4	7863	SCS2yr	14.23	174.11	176.94		176.94	0.000041	0.35	91.62	99.72	0.07
Coyle	Coyle_4	7863	SCS5yr	19.35	174.11	177.05		177.06	0.000058	0.43	102.88	103.68	0.08
Coyle	Coyle_4	7863	SCS10yr	24.06	174.11	177.16		177.16	0.00007	0.48	114.03	113.08	0.09
Coyle	Coyle_4	7863	SCS25yr	30.94	174.11	177.27		177.27	0.000093	0.57	127.21	120.77	0.1
Coyle	Coyle_4	7863	SCS50yr	37.83	174.11	177.6		177.61	0.00007	0.53	172.42	146.76	0.09
Coyle	Coyle_4	7863	SCS100yr	44	174.11	177.86		177.86	0.000057	0.5	211.73	160.86	0.08
Coyle	Coyle_4	7863	SCS200yr	55.28	174.11	178.14		178.14	0.000055	0.51	258.56	177.35	0.08
Coyle	Coyle_4	7863	RSnow100yr	29.63	174.11	177.25		177.25	0.000089	0.55	124.66	120.3	0.1
Coyle	Coyle_4	7805	SCS2yr	14.23	174.13	176.94	175.09	176.94	0.000063	0.43	67.72	65.42	0.08
Coyle	Coyle_4	7805	SCS5yr	19.35	174.13	177.04	175.29	177.05	0.00009	0.53	74.93	67.51	0.1
Coyle	Coyle_4	7805	SCS10yr	24.06	174.13	177.15	175.46	177.16	0.000111	0.6	81.91	68.87	0.11
Coyle	Coyle_4	7805	SCS25yr	30.94	174.13	177.26	175.73	177.27	0.000146	0.71	89.49	70.88	0.13
Coyle	Coyle_4	7805	SCS50yr	37.83	174.13	177.59	176.03	177.6	0.000118	0.68	114.6	79.41	0.12
Coyle	Coyle_4	7805	SCS100yr	44	174.13	177.85	176.14	177.86	0.000106	0.68	136.31	90.3	0.11
Coyle	Coyle_4	7805	SCS200yr	55.28	174.13	178.12	176.33	178.14	0.000124	0.77	165.08	191.29	0.12
Coyle	Coyle_4	7805	RSnow100yr	29.63	174.13	177.24	175.7	177.25	0.00014	0.69	88.04	70.53	0.13
Coyle	Coyle_4	7745	SCS2yr	14.23	174.16	176.93		176.94	0.000076	0.46	70.2	87.92	0.09
Coyle	Coyle_4	7745	SCS5yr	19.35	174.16	177.04		177.05	0.000104	0.55	79.82	91.44	0.11
Coyle	Coyle_4	7745	SCS10yr	24.06	174.16	177.14		177.15	0.000124	0.62	89.3	95.63	0.12
Coyle	Coyle_4	7745	SCS25yr	30.94	174.16	177.25		177.26	0.000158	0.72	99.79	100.55	0.13
Coyle	Coyle_4	7745	SCS50yr	37.83	174.16	177.59		177.6	0.000114	0.66	139.66	130.37	0.12
Coyle	Coyle_4	7745	SCS100yr	44	174.16	177.85		177.85	0.000088	0.61	175.43	145.28	0.1
Coyle	Coyle_4	7745	SCS200yr	55.28	174.16	178.12		178.13	0.000081	0.61	218.75	167.67	0.1
Coyle	Coyle_4	7745	RSnow100yr	29.63	174.16	177.23		177.24	0.000152	0.7	97.77	99.46	0.13
Coyle	Coyle_4	7722	SCS2yr	14.23	173.35	176.93	174.45	176.93	0.000037	0.36	76.66	74.41	0.06
Coyle	Coyle_4	7722	SCS5yr	19.35	173.35	177.04	174.62	177.04	0.000055	0.45	87.27	78.52	0.08
Coyle	Coyle_4	7722	SCS10yr	24.06	173.35	177.14	174.76	177.15	0.000071	0.52	95.49	85.81	0.09
Coyle	Coyle_4	7722	SCS25yr	30.94	173.35	177.24	174.96	177.26	0.000097	0.62	105.13	97.68	0.1
Coyle	Coyle_4	7722	SCS50yr	37.83	173.35	177.58	175.14	177.59	0.000083	0.61	148.54	156.58	0.1
Coyle	Coyle_4	7722	SCS100yr	44	173.35	177.84	175.29	177.85	0.000065	0.56	192.02	175.03	0.09
Coyle	Coyle_4	7722	SCS200yr	55.28	173.35	178.12	175.54	178.13	0.000059	0.56	241.86	184.52	0.08
Coyle	Coyle_4	7722	RSnow100yr	29.63	173.35	177.22	174.93	177.23	0.000093	0.6	103.22	94.12	0.1
Coyle	Coyle_4	7715		Culvert									
Coyle	Coyle_4	7708	SCS2yr	14.23	173.92	176.18	174.79	176.2	0.000237	0.72	32.32	38.26	0.16
Coyle	Coyle_4	7708	SCS5yr	19.35	173.92	176.34	174.97	176.37	0.000303	0.85	38.83	42.94	0.18
Coyle	Coyle_4	7708	SCS10yr	24.06	173.92	176.7	175.12	176.72	0.00023	0.82	60.71	77.7	0.16
Coyle	Coyle_4	7708	SCS25yr	30.94	173.92	177.08	175.32	177.1	0.000151	0.72	93.92	96.67	0.13
Coyle	Coyle_4	7708	SCS50yr	37.83	173.92	177.58	175.51	177.58	0.000081	0.58	147.05	118.86	0.1
Coyle	Coyle_4	7708	SCS100yr	44	173.92	177.84	175.66	177.85	0.000066	0.56	180.63	135.09	0.09
Coyle	Coyle_4	7708	SCS200yr	55.28	173.92	178.12	175.93	178.13	0.000064	0.57	224.41	174.5	0.09
Coyle	Coyle_4	7708	RSnow100yr	29.63	173.92	177.01	175.28	177.03	0.000163	0.74	87.29	93.29	0.14
Coyle	Coyle_4	7652	SCS2yr	14.23	173.83	176.17		176.19	0.000285	0.8	36.16	50.82	0.17
Coyle	Coyle_4	7652	SCS5yr	19.35	173.83	176.32		176.35	0.000341	0.91	44.89	57.22	0.19
Coyle	Coyle_4	7652	SCS10yr	24.06	173.83	176.69		176.71	0.000201	0.77	68.76	73.3	0.15
Coyle	Coyle_4	7652	SCS25yr	30.94	173.83	177.08		177.09	0.000134	0.69	98.98	84.17	0.12
Coyle	Coyle_4	7652	SCS50yr	37.83	173.83	177.57		177.58	0.000081	0.59	145.9	106.69	0.1
Coyle	Coyle_4	7652	SCS100yr	44	173.83	177.84		177.84	0.000073	0.58	176.77	152	0.09
Coyle	Coyle_4	7652	SCS200yr	55.28	173.83	178.12		178.12	0.000072	0.61	214.32	173.88	0.1
Coyle	Coyle_4	7652	RSnow100yr	29.63	173.83	177.01		177.02	0.000143	0.7	93.16	82.2	0.13
Coyle	Coyle_4	7598	SCS2yr	14.23	173.79	176.15		176.17	0.000269	0.77	35.76	45.42	0.16
Coyle	Coyle_4	7598	SCS5yr	19.35	173.79	176.3		176.33	0.000331	0.89	43.07	48.98	0.18
Coyle	Coyle_4	7598	SCS10yr	24.06	173.79	176.68		176.7	0.000211	0.79	63.06	60.27	0.15
Coyle	Coyle_4	7598	SCS25yr	30.94	173.79	177.07		177.08	0.00016	0.75	89.27	77.09	0.13
Coyle	Coyle_4	7598	SCS50yr	37.83	173.79	177.56		177.57	0.000105	0.67	134.39	108.78	0.11
Coyle	Coyle_4	7598	SCS100yr	44	173.79	177.83		177.84	0.000094	0.66	166.48	135.01	0.11
Coyle	Coyle_4	7598	SCS200yr	55.28	173.79	178.11		178.12	0.000092	0.69	209.5	172.93	0.11
Coyle	Coyle_4	7598	RSnow100yr	29.63	173.79	177		177.01	0.000167	0.75	83.98	73.08	0.14
Coyle	Coyle_4	7545	SCS2yr	14.23	173.76	176.13		176.15	0.000301	0.83	32.09	40.72	0.18

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_4	7545	SCS5yr	19.35	173.76	176.27		176.31	0.00039	0.99	38.29	43.79	0.2
Coyle	Coyle_4	7545	SCS10yr	24.06	173.76	176.66		176.68	0.000263	0.89	57.07	54.9	0.17
Coyle	Coyle_4	7545	SCS25yr	30.94	173.76	177.05		177.07	0.000204	0.86	81.19	68.24	0.15
Coyle	Coyle_4	7545	SCS50yr	37.83	173.76	177.55		177.57	0.000127	0.74	120.35	87.55	0.12
Coyle	Coyle_4	7545	SCS100yr	44	173.76	177.82		177.83	0.000113	0.74	146.02	104.23	0.12
Coyle	Coyle_4	7545	SCS200yr	55.28	173.76	178.1		178.11	0.000113	0.77	182.03	152.57	0.12
Coyle	Coyle_4	7545	RSnow100yr	29.63	173.76	176.98		177	0.000211	0.86	76.42	64.81	0.15
Coyle	Coyle_4	7508	SCS2yr	14.23	173.4	176.12	174.55	176.14	0.000251	0.74	42.71	60.2	0.15
Coyle	Coyle_4	7508	SCS5yr	19.35	173.4	176.27	174.77	176.29	0.000315	0.86	51.66	63.17	0.17
Coyle	Coyle_4	7508	SCS10yr	24.06	173.4	176.66	174.96	176.67	0.000191	0.73	78.06	73.4	0.13
Coyle	Coyle_4	7508	SCS25yr	30.94	173.4	177.05	175.21	177.06	0.00014	0.68	108.28	81.89	0.12
Coyle	Coyle_4	7508	SCS50yr	37.83	173.4	177.55	175.49	177.56	0.000087	0.59	153.26	97.78	0.09
Coyle	Coyle_4	7508	SCS100yr	44	173.4	177.82	175.68	177.83	0.00008	0.59	182.55	116	0.09
Coyle	Coyle_4	7508	SCS200yr	55.28	173.4	178.1	176.03	178.11	0.000082	0.62	216.42	126.06	0.09
Coyle	Coyle_4	7508	RSnow100yr	29.63	173.4	176.98	175.15	176.99	0.000147	0.69	102.55	79.57	0.12
Coyle	Coyle_4	7501		Culvert									
Coyle	Coyle_4	7495	SCS2yr	14.23	173.43	175.81	174.51	175.86	0.000475	1.03	23.95	32.62	0.22
Coyle	Coyle_4	7495	SCS5yr	19.35	173.43	176.14	174.73	176.18	0.000416	1.06	40.25	59.95	0.21
Coyle	Coyle_4	7495	SCS10yr	24.06	173.43	176.64	174.91	176.66	0.00019	0.8	74.52	75.06	0.15
Coyle	Coyle_4	7495	SCS25yr	30.94	173.43	177.04	175.14	177.05	0.000138	0.74	105.24	79.88	0.13
Coyle	Coyle_4	7495	SCS50yr	37.83	173.43	177.55	175.36	177.56	0.000086	0.64	147.35	85.82	0.1
Coyle	Coyle_4	7495	SCS100yr	44	173.43	177.82	175.74	177.83	0.00008	0.65	171.24	93.18	0.1
Coyle	Coyle_4	7495	SCS200yr	55.28	173.43	178.09	176.09	178.1	0.000093	0.73	200.5	118.23	0.11
Coyle	Coyle_4	7495	RSnow100yr	29.63	173.43	176.97	175.11	176.99	0.000144	0.75	99.92	79.05	0.13
Coyle	Coyle_4	7435	SCS2yr	14.23	173.56	175.78		175.82	0.000542	1.03	25.98	33.8	0.23
Coyle	Coyle_4	7435	SCS5yr	19.35	173.56	176.12		176.16	0.000482	1.07	41.28	58.31	0.22
Coyle	Coyle_4	7435	SCS10yr	24.06	173.56	176.63		176.65	0.000213	0.81	78.65	85.96	0.15
Coyle	Coyle_4	7435	SCS25yr	30.94	173.56	177.03		177.04	0.000143	0.72	118.13	104.68	0.13
Coyle	Coyle_4	7435	SCS50yr	37.83	173.56	177.54		177.55	0.000077	0.58	179.41	141.05	0.09
Coyle	Coyle_4	7435	SCS100yr	44	173.56	177.81		177.82	0.000065	0.56	223.96	179.09	0.09
Coyle	Coyle_4	7435	SCS200yr	55.28	173.56	178.09		178.09	0.000063	0.57	277.46	219.22	0.09
Coyle	Coyle_4	7435	RSnow100yr	29.63	173.56	176.96		176.98	0.000151	0.73	111.15	102.44	0.13
Coyle	Coyle_T2	4859	SCS2yr	1.02	189.33	189.8	189.5	189.81	0.000248	0.24	5.16	19.71	0.12
Coyle	Coyle_T2	4859	SCS5yr	1.55	189.33	190.26	189.55	190.26	0.000027	0.13	18.18	37.75	0.05
Coyle	Coyle_T2	4859	SCS10yr	2.07	189.33	190.4	189.58	190.4	0.000025	0.14	23.86	43.71	0.05
Coyle	Coyle_T2	4859	SCS25yr	2.94	189.33	190.44	189.63	190.44	0.000041	0.19	25.96	46.36	0.06
Coyle	Coyle_T2	4859	SCS50yr	3.75	189.33	190.47	189.67	190.47	0.000059	0.23	27.44	49.71	0.07
Coyle	Coyle_T2	4859	SCS100yr	4.49	189.33	190.48	189.7	190.49	0.000081	0.27	28.04	50.4	0.08
Coyle	Coyle_T2	4859	SCS200yr	5.82	189.33	190.54	189.75	190.54	0.000113	0.33	30.72	53.66	0.1
Coyle	Coyle_T2	4859	RSnow100yr	3.55	189.33	190.47	189.66	190.47	0.000054	0.22	27.31	49.61	0.07
Coyle	Coyle_T2	4812	SCS2yr	1.02	189.04	189.8	189.25	189.8	0.000074	0.17	8.63	31.55	0.07
Coyle	Coyle_T2	4812	SCS5yr	1.55	189.04	190.26	189.3	190.26	0.000014	0.11	26.33	42.23	0.03
Coyle	Coyle_T2	4812	SCS10yr	2.07	189.04	190.39	189.34	190.4	0.000014	0.12	32.34	44.26	0.04
Coyle	Coyle_T2	4812	SCS25yr	2.94	189.04	190.44	189.4	190.44	0.000025	0.17	34.48	48.13	0.05
Coyle	Coyle_T2	4812	SCS50yr	3.75	189.04	190.47	189.45	190.47	0.000037	0.2	35.95	49.32	0.06
Coyle	Coyle_T2	4812	SCS100yr	4.49	189.04	190.48	189.49	190.48	0.000051	0.24	36.52	51.04	0.07
Coyle	Coyle_T2	4812	SCS200yr	5.82	189.04	190.53	189.56	190.54	0.000074	0.29	39.21	57.56	0.08
Coyle	Coyle_T2	4812	RSnow100yr	3.55	189.04	190.47	189.44	190.47	0.000034	0.19	35.83	49.11	0.05
Coyle	Coyle_T2	4724	SCS2yr	1.02	188.88	189.8		189.8	0.000004	0.05	37.34	70.63	0.02
Coyle	Coyle_T2	4724	SCS5yr	1.55	188.88	190.26		190.26	0.000001	0.04	82.53	118.23	0.01
Coyle	Coyle_T2	4724	SCS10yr	2.07	188.88	190.39		190.39	0.000001	0.04	99.26	122.92	0.01
Coyle	Coyle_T2	4724	SCS25yr	2.94	188.88	190.44		190.44	0.000002	0.06	105	125.55	0.02
Coyle	Coyle_T2	4724	SCS50yr	3.75	188.88	190.47		190.47	0.000004	0.07	108.81	126.65	0.02
Coyle	Coyle_T2	4724	SCS100yr	4.49	188.88	190.48		190.48	0.000005	0.08	110.25	126.85	0.02
Coyle	Coyle_T2	4724	SCS200yr	5.82	188.88	190.53		190.53	0.000007	0.1	116.71	129.08	0.03
Coyle	Coyle_T2	4724	RSnow100yr	3.55	188.88	190.47		190.47	0.000003	0.07	108.5	126.6	0.02
Coyle	Coyle_T2	4705	SCS2yr	1.02	188.77	189.8	189	189.8	0.000034	0.16	8.95	59.23	0.05
Coyle	Coyle_T2	4705	SCS5yr	1.55	188.77	190.25	189.05	190.26	0.000021	0.16	13.52	85.81	0.04
Coyle	Coyle_T2	4705	SCS10yr	2.07	188.77	190.39	189.09	190.39	0.000003	0.06	78.67	90.73	0.02
Coyle	Coyle_T2	4705	SCS25yr	2.94	188.77	190.44	189.14	190.44	0.000005	0.09	82.89	92.28	0.02
Coyle	Coyle_T2	4705	SCS50yr	3.75	188.77	190.47	189.18	190.47	0.000007	0.11	85.71	96.91	0.03
Coyle	Coyle_T2	4705	SCS100yr	4.49	188.77	190.48	189.22	190.48	0.00001	0.13	86.84	101.94	0.03
Coyle	Coyle_T2	4705	SCS200yr	5.82	188.77	190.53	189.28	190.53	0.000015	0.16	92.07	104.51	0.04
Coyle	Coyle_T2	4705	RSnow100yr	3.55	188.77	190.47	189.18	190.47	0.000007	0.1	85.48	95.9	0.03
Coyle	Coyle_T2	4695		Culvert									
Coyle	Coyle_T2	4685	SCS2yr	1.02	188.23	188.92	188.59	188.93	0.001434	0.58	1.77	4.94	0.28
Coyle	Coyle_T2	4685	SCS5yr	1.55	188.23	188.99	188.68	189.02	0.00176	0.72	2.18	5.77	0.32
Coyle	Coyle_T2	4685	SCS10yr	2.07	188.23	189.04	188.75	189.08	0.002126	0.84	2.47	6.26	0.36
Coyle	Coyle_T2	4685	SCS25yr	2.94	188.23	189.11	188.86	189.16	0.002669	1.01	2.84	7.11	0.41
Coyle	Coyle_T2	4685	SCS50yr	3.75	188.23	189.15	188.96	189.23	0.003217	1.16	3.09	7.71	0.45
Coyle	Coyle_T2	4685	SCS100yr	4.49	188.23	189.19	189.01	189.29	0.003511	1.26	3.34	8.3	0.48
Coyle	Coyle_T2	4685	SCS200yr	5.82	188.23	189.23	189.08	189.38	0.004688	1.5	3.56	8.67	0.55
Coyle	Coyle_T2	4685	RSnow100yr	3.55	188.23	189.14	188.94	189.21	0.003118	1.13	3.03	7.56	0.44
Coyle	Coyle_T2	4666	SCS2yr	1.02	188.48	188.91		188.91	0.00033	0.25	4.02	11.57	0.14
Coyle	Coyle_T2	4666	SCS5yr	1.55	188.48	188.99		189	0.000398	0.31	4.94	11.98	0.16
Coyle	Coyle_T2	4666	SCS10yr	2.07	188.48	189.04		189.05	0.000481	0.37	5.58	12.69	0.17
Coyle	Coyle_T2	4666	SCS25yr	2.94	188.48	189.11		189.12	0.000622	0.46	6.44	13.89	0.2
Coyle	Coyle_T2	4666	SCS50yr	3.75	188.48	189.15		189.17	0.000759	0.54	7.11	14.39	0.23
Coyle	Coyle_T2	4666	SCS100yr	4.49	188.48	189.2		189.22	0.000829	0.6	7.81	15.13	0.24
Coyle	Coyle_T2	4666	SCS200yr	5.82	188.48	189.25		189.28	0.001065	0.71	8.6	16.05	0.28
Coyle	Coyle_T2	4666	RSnow100yr	3.55	188.48	189.14		189.16	0.000734	0.52	6.93	14.26	0.22
Coyle	Coyle_T2	4613	SCS2yr	1.02	188.4	188.86		188.87	0.003519	0.56	1.82	10.67	0.41
Coyle	Coyle_T2	4613	SCS5yr	1.55	188.4	188.94		188.95	0.002775	0.56	3.12	24.14	0.37
Coyle	Coyle_T2	4613	SCS10yr	2.07	188.4	188.99		189	0.002181	0.56	4.62	34.16	0.34
Coyle	Coyle_T2	4613	SCS25yr	2.94	188.4	189.05		189.07	0.001745	0.58	6.95	38.27	0.32
Coyle	Coyle_T2	4613	SCS50yr	3.75	188.4	189.1		189.11	0.001614	0.61	8.8	40.78	0.31
Coyle	Coyle_T2	4613	SCS100yr	4.49	188.4	189.15		189.16	0.001351	0.61	11.08	47.61	0.29
Coyle	Coyle_T2	4613	SCS200yr	5.82	188.4	189.19		189.21	0.001453	0.67	13.25	50.22	0.31
Coyle	Coyle_T2	4613	RSnow100yr	3.55	188.4	189.08		189.1	0.001717	0.61	8.22	40.2	0.32
Coyle	Coyle_T2	4523	SCS2yr	1.02	187.92	188.34		188.4	0.008201	1.05	0.97	3.56	0.64
Coyle	Coyle_T2	4523	SCS5yr	1.55	187.92	188.39		188.48	0.01164	1.35	1.15	3.75	0.78
Coyle	Coyle_T2	4523	SCS10yr	2.07	187.92	188.41	188.4	188.56	0.016947	1.68	1.23	3.83	0.95
Coyle	Coyle_T2	4523	SCS25yr	2.94	187.92	188.48	188.48	188.68	0.017934	1.96	1.5	4.09	1.01
Coyle	Coyle_T2	4523	SCS50yr	3.75	187.92	188.61	188.56	188.79	0.011137	1.87	2.07	4.85	0.83
Coyle	Coyle_T2	4523	SCS100yr	4.49	187.92	188.65	188.62	188.87	0.012602	2.08	2.27	6.48	0.89
Coyle	Coyle_T2	4523	SCS200yr	5.82	187.92	188.85	188.85	188.97	0.005467	1.69	5.58	29.5	0.62
Coyle	Coyle_T2	4523	RSnow100yr	3.55	187.92	188.6	188.54	188.77	0.010758	1.81	2.02	4.79	0.81
Coyle	Coyle_T2	4442	SCS2yr	1.02	187.72	188.05		188.06	0.002363	0.59	2.33	14.96	0.36
Coyle	Coyle_T2	4442	SCS5yr	1.55	187.72	188.13		188.14	0.001969	0.63	3.66	20.51	0.34
Coyle	Coyle_T2	4442	SCS10yr	2.07	187.72	188.19		188.2	0.001682	0.65	5.38	33.44	0.32
Coyle	Coyle_T2	4442	SCS25yr	2.94	187.72	188.26		188.28	0.001355	0.65	8.16	38.77	0.3
Coyle	Coyle_T2	4442	SCS50yr	3.75	187.72	188.22		188.26	0.003762	1.02	6.57	37.38	0.49

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	4442	SCS100yr	4.49	187.72	188.24		188.28	0.003982	1.09	7.44	37.98	0.51
Coyle	Coyle_T2	4442	SCS200yr	5.82	187.72	188.29		188.33	0.004046	1.16	9.12	41.46	0.52
Coyle	Coyle_T2	4442	RSnow100yr	3.55	187.72	188.21		188.25	0.003701	1.01	6.32	37.24	0.48
Coyle	Coyle_T2	4355	SCS2yr	1.02	187.28	187.67	187.6	187.72	0.007718	1.02	1.04	4.68	0.63
Coyle	Coyle_T2	4355	SCS5yr	1.55	187.28	187.71	187.66	187.8	0.011002	1.34	1.23	5.14	0.78
Coyle	Coyle_T2	4355	SCS10yr	2.07	187.28	187.73	187.72	187.87	0.014326	1.62	1.38	5.38	0.9
Coyle	Coyle_T2	4355	SCS25yr	2.94	187.28	187.8	187.8	187.98	0.015514	1.9	1.76	6.7	0.96
Coyle	Coyle_T2	4355	SCS50yr	3.75	187.28	187.85	187.81	187.89	0.00467	1.13	8.17	41.59	0.54
Coyle	Coyle_T2	4355	SCS100yr	4.49	187.28	187.89	187.81	187.93	0.004155	1.13	9.8	42.31	0.52
Coyle	Coyle_T2	4355	SCS200yr	5.82	187.28	187.95	187.81	187.98	0.003697	1.15	12.38	43.65	0.5
Coyle	Coyle_T2	4355	RSnow100yr	3.55	187.28	187.84	187.81	187.88	0.004818	1.13	7.73	41.41	0.55
Coyle	Coyle_T2	4272	SCS2yr	1.02	187.19	187.48		187.49	0.001333	0.38	5.12	32.8	0.26
Coyle	Coyle_T2	4272	SCS5yr	1.55	187.19	187.54		187.54	0.001233	0.43	7.04	35.35	0.26
Coyle	Coyle_T2	4272	SCS10yr	2.07	187.19	187.58		187.59	0.001225	0.47	8.59	36.4	0.26
Coyle	Coyle_T2	4272	SCS25yr	2.94	187.19	187.64		187.65	0.001277	0.53	10.73	37.91	0.28
Coyle	Coyle_T2	4272	SCS50yr	3.75	187.19	187.69		187.69	0.001312	0.59	12.57	39.35	0.29
Coyle	Coyle_T2	4272	SCS100yr	4.49	187.19	187.73		187.74	0.001338	0.63	14.17	40.72	0.29
Coyle	Coyle_T2	4272	SCS200yr	5.82	187.19	187.79		187.8	0.001343	0.69	16.9	42.44	0.3
Coyle	Coyle_T2	4272	RSnow100yr	3.55	187.19	187.68		187.68	0.001304	0.57	12.14	39.1	0.28
Coyle	Coyle_T2	4177	SCS2yr	1.02	187.01	187.29		187.3	0.003203	0.61	3.19	21.31	0.4
Coyle	Coyle_T2	4177	SCS5yr	1.55	187.01	187.32		187.34	0.004645	0.79	3.77	22.06	0.49
Coyle	Coyle_T2	4177	SCS10yr	2.07	187.01	187.34		187.36	0.006126	0.96	4.25	23.84	0.58
Coyle	Coyle_T2	4177	SCS25yr	2.94	187.01	187.39		187.42	0.005757	1.04	5.58	25.24	0.57
Coyle	Coyle_T2	4177	SCS50yr	3.75	187.01	187.44		187.47	0.005283	1.09	6.84	26.69	0.56
Coyle	Coyle_T2	4177	SCS100yr	4.49	187.01	187.48		187.51	0.005068	1.14	7.9	28.5	0.56
Coyle	Coyle_T2	4177	SCS200yr	5.82	187.01	187.54		187.58	0.004868	1.23	9.76	30.48	0.56
Coyle	Coyle_T2	4177	RSnow100yr	3.55	187.01	187.43		187.46	0.005375	1.08	6.54	26.44	0.56
Coyle	Coyle_T2	4080	SCS2yr	1.02	186.38	186.8	186.75	186.84	0.007703	0.99	1.37	10.59	0.63
Coyle	Coyle_T2	4080	SCS5yr	1.55	186.38	186.91	186.82	186.94	0.003682	0.87	3.37	23.61	0.46
Coyle	Coyle_T2	4080	SCS10yr	2.07	186.38	186.99		187.01	0.002434	0.81	5.37	26.02	0.39
Coyle	Coyle_T2	4080	SCS25yr	2.94	186.38	187.06		187.08	0.002344	0.88	7.48	30.82	0.39
Coyle	Coyle_T2	4080	SCS50yr	3.75	186.38	187.11		187.13	0.002495	0.96	9	33.02	0.41
Coyle	Coyle_T2	4080	SCS100yr	4.49	186.38	187.15		187.17	0.00257	1.02	10.26	34.02	0.42
Coyle	Coyle_T2	4080	SCS200yr	5.82	186.38	187.2		187.23	0.002705	1.11	12.26	35.44	0.44
Coyle	Coyle_T2	4080	RSnow100yr	3.55	186.38	187.1		187.12	0.002441	0.94	8.69	32.76	0.4
Coyle	Coyle_T2	3997	SCS2yr	1.02	186.19	186.58		186.59	0.001475	0.48	3.4	21.72	0.28
Coyle	Coyle_T2	3997	SCS5yr	1.55	186.19	186.57		186.59	0.0046	0.82	3.01	21.43	0.5
Coyle	Coyle_T2	3997	SCS10yr	2.07	186.19	186.97		186.97	0.000136	0.26	13.91	33.42	0.1
Coyle	Coyle_T2	3997	SCS25yr	2.94	186.19	187.04		187.04	0.000185	0.32	16.21	35.57	0.12
Coyle	Coyle_T2	3997	SCS50yr	3.75	186.19	187.08		187.08	0.000241	0.38	17.64	36.79	0.14
Coyle	Coyle_T2	3997	SCS100yr	4.49	186.19	187.11		187.11	0.000292	0.42	18.77	37.49	0.15
Coyle	Coyle_T2	3997	SCS200yr	5.82	186.19	187.15		187.16	0.000385	0.5	20.5	38.62	0.17
Coyle	Coyle_T2	3997	RSnow100yr	3.55	186.19	187.07		187.07	0.000224	0.36	17.38	36.51	0.13
Coyle	Coyle_T2	3899	SCS2yr	1.02	185.99	186.23	186.22	186.27	0.013375	0.93	1.3	14.93	0.77
Coyle	Coyle_T2	3899	SCS5yr	1.55	185.99	186.49		186.49	0.000403	0.32	7.26	26.13	0.16
Coyle	Coyle_T2	3899	SCS10yr	2.07	185.99	186.97		186.97	0.000031	0.15	22.92	39.56	0.05
Coyle	Coyle_T2	3899	SCS25yr	2.94	185.99	187.03		187.03	0.000047	0.19	25.53	41.38	0.06
Coyle	Coyle_T2	3899	SCS50yr	3.75	185.99	187.07		187.07	0.000065	0.23	27.08	42.25	0.07
Coyle	Coyle_T2	3899	SCS100yr	4.49	185.99	187.1		187.1	0.000082	0.26	28.28	42.97	0.08
Coyle	Coyle_T2	3899	SCS200yr	5.82	185.99	187.14		187.14	0.000117	0.32	30.07	44	0.1
Coyle	Coyle_T2	3899	RSnow100yr	3.55	185.99	187.06		187.06	0.00006	0.22	26.81	42.11	0.07
Coyle	Coyle_T2	3820	SCS2yr	1.02	185.52	185.92		185.94	0.001981	0.58	1.98	9.96	0.33
Coyle	Coyle_T2	3820	SCS5yr	1.55	185.52	186.48		186.48	0.000065	0.21	11.86	26.11	0.07
Coyle	Coyle_T2	3820	SCS10yr	2.07	185.52	186.97		186.97	0.000014	0.13	28.93	44.78	0.04
Coyle	Coyle_T2	3820	SCS25yr	2.94	185.52	187.03		187.03	0.000023	0.17	31.9	48.09	0.05
Coyle	Coyle_T2	3820	SCS50yr	3.75	185.52	187.06		187.07	0.000033	0.21	33.66	49.34	0.06
Coyle	Coyle_T2	3820	SCS100yr	4.49	185.52	187.09		187.09	0.000043	0.24	35.01	50.2	0.06
Coyle	Coyle_T2	3820	SCS200yr	5.82	185.52	187.13		187.13	0.000063	0.3	37	51.48	0.08
Coyle	Coyle_T2	3820	RSnow100yr	3.55	185.52	187.06		187.06	0.000031	0.2	33.36	49.14	0.05
Coyle	Coyle_T2	3768	SCS2yr	1.02	185.23	185.85		185.86	0.00114	0.55	2.06	11.51	0.26
Coyle	Coyle_T2	3768	SCS5yr	1.55	185.23	186.48		186.48	0.000039	0.18	15.65	32.85	0.06
Coyle	Coyle_T2	3768	SCS10yr	2.07	185.23	186.96		186.97	0.000009	0.11	36.29	49.45	0.03
Coyle	Coyle_T2	3768	SCS25yr	2.94	185.23	187.03		187.03	0.000014	0.15	39.45	50.4	0.04
Coyle	Coyle_T2	3768	SCS50yr	3.75	185.23	187.06		187.06	0.000021	0.18	41.26	51.1	0.04
Coyle	Coyle_T2	3768	SCS100yr	4.49	185.23	187.09		187.09	0.000027	0.2	42.64	51.63	0.05
Coyle	Coyle_T2	3768	SCS200yr	5.82	185.23	187.13		187.13	0.00004	0.25	44.65	52.28	0.06
Coyle	Coyle_T2	3768	RSnow100yr	3.55	185.23	187.06		187.06	0.000019	0.17	40.96	50.98	0.04
Coyle	Coyle_T2	3696	SCS2yr	1.02	185.01	185.83		185.84	0.000136	0.24	7.61	29.26	0.1
Coyle	Coyle_T2	3696	SCS5yr	1.55	185.01	186.48		186.48	0.000007	0.09	33.81	49.88	0.02
Coyle	Coyle_T2	3696	SCS10yr	2.07	185.01	186.96		186.96	0.000002	0.06	59.71	56.6	0.02
Coyle	Coyle_T2	3696	SCS25yr	2.94	185.01	187.03		187.03	0.000004	0.08	63.34	59.01	0.02
Coyle	Coyle_T2	3696	SCS50yr	3.75	185.01	187.06		187.06	0.000006	0.1	65.45	59.78	0.02
Coyle	Coyle_T2	3696	SCS100yr	4.49	185.01	187.09		187.09	0.000008	0.12	67.07	60.29	0.03
Coyle	Coyle_T2	3696	SCS200yr	5.82	185.01	187.13		187.13	0.000012	0.15	69.39	60.95	0.03
Coyle	Coyle_T2	3696	RSnow100yr	3.55	185.01	187.06		187.06	0.000006	0.1	65.1	59.67	0.02
Coyle	Coyle_T2	3627	SCS2yr	1.02	184.94	185.83		185.83	0.000031	0.12	14.09	36.18	0.05
Coyle	Coyle_T2	3627	SCS5yr	1.55	184.94	186.48		186.48	0.000003	0.06	44.59	57.85	0.02
Coyle	Coyle_T2	3627	SCS10yr	2.07	184.94	186.96		186.96	0.000001	0.05	75.92	71.77	0.01
Coyle	Coyle_T2	3627	SCS25yr	2.94	184.94	187.03		187.03	0.000002	0.07	80.52	73.93	0.02
Coyle	Coyle_T2	3627	SCS50yr	3.75	184.94	187.06		187.06	0.000004	0.08	83.17	74.99	0.02
Coyle	Coyle_T2	3627	SCS100yr	4.49	184.94	187.09		187.09	0.000005	0.1	85.19	76.03	0.02
Coyle	Coyle_T2	3627	SCS200yr	5.82	184.94	187.13		187.13	0.000008	0.13	88.21	82.51	0.03
Coyle	Coyle_T2	3627	RSnow100yr	3.55	184.94	187.06		187.06	0.000003	0.08	82.73	74.86	0.02
Coyle	Coyle_T2	3609	SCS2yr	1.02	184.91	185.83	185.19	185.83	0.000045	0.16	8.38	35.38	0.06
Coyle	Coyle_T2	3609	SCS5yr	1.55	184.91	186.48	185.25	186.48	0.00001	0.11	17.43	50.96	0.03
Coyle	Coyle_T2	3609	SCS10yr	2.07	184.91	186.96	185.29	186.96	0.000001	0.05	67.67	57.91	0.01
Coyle	Coyle_T2	3609	SCS25yr	2.94	184.91	187.03	185.37	187.03	0.000002	0.07	71.36	58.87	0.01
Coyle	Coyle_T2	3609	SCS50yr	3.75	184.91	187.06	185.44	187.06	0.000003	0.08	73.46	59.37	0.02
Coyle	Coyle_T2	3609	SCS100yr	4.49	184.91	187.09	185.47	187.09	0.000004	0.09	75.05	59.77	0.02
Coyle	Coyle_T2	3609	SCS200yr	5.82	184.91	187.13	185.53	187.13	0.000007	0.12	77.34	60.64	0.03
Coyle	Coyle_T2	3609	RSnow100yr	3.55	184.91	187.06	185.43	187.06	0.000003	0.08	73.11	59.29	0.02
Coyle	Coyle_T2	3595		Culvert									
Coyle	Coyle_T2	3587	SCS2yr	1.02	184.83	185.16	185.16	185.26	0.020378	1.42	0.72	3.71	0.99
Coyle	Coyle_T2	3587	SCS5yr	1.55	184.83	185.23	185.23	185.36	0.019551	1.59	0.97	4.57	1.01
Coyle	Coyle_T2	3587	SCS10yr	2.07	184.83	185.29	185.29	185.44	0.018005	1.71	1.21	5.22	0.99
Coyle	Coyle_T2	3587	SCS25yr	2.94	184.83	185.36	185.36	185.55	0.017346	1.94	1.51	6.54	1.01
Coyle	Coyle_T2	3587	SCS50yr	3.75	184.83	185.43	185.43	185.66	0.016055	2.09	1.79	10.84	1
Coyle	Coyle_T2	3587	SCS100yr	4.49	184.83	185.49	185.49	185.74	0.015337	2.22	2.02	19.19	1
Coyle	Coyle_T2	3587	SCS200yr	5.82	184.83	185.58	185.58	185.88	0.014594	2.43	2.4	22.64	1
Coyle	Coyle_T2	3587	RSnow100yr	3.55	184.83	185.42	185.42	185.63	0.016385	2.06	1.72	8.68	1
Coyle	Coyle_T2	3577	SCS2yr	1.02	184.72	185.07		185.11	0.006259	0.85	1.21	5.13	0.56
Coyle	Coyle_T2	3577	SCS5yr	1.55	184.72	185.13		185.18	0.007483	1.02	1.51	5.52	0.62

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	3577	SCS10yr	2.07	184.72	185.18		185.24	0.008643	1.16	1.79	6.01	0.68
Coyle	Coyle_T2	3577	SCS25yr	2.94	184.72	185.23		185.33	0.010371	1.38	2.13	6.43	0.76
Coyle	Coyle_T2	3577	SCS50yr	3.75	184.72	185.27		185.4	0.01172	1.58	2.39	6.81	0.82
Coyle	Coyle_T2	3577	SCS100yr	4.49	184.72	185.3	185.27	185.45	0.013226	1.75	2.6	8.61	0.88
Coyle	Coyle_T2	3577	SCS200yr	5.82	184.72	185.38	185.38	185.55	0.010913	1.82	3.7	18.22	0.83
Coyle	Coyle_T2	3577	RSnow100yr	3.55	184.72	185.26		185.38	0.011373	1.53	2.33	6.69	0.81
Coyle	Coyle_T2	3535	SCS2yr	1.02	184.75	185.01		185.02	0.000895	0.32	3.2	13.94	0.21
Coyle	Coyle_T2	3535	SCS5yr	1.55	184.75	185.04		185.05	0.001417	0.43	3.62	14.36	0.27
Coyle	Coyle_T2	3535	SCS10yr	2.07	184.75	185.09		185.1	0.001506	0.48	4.29	15.48	0.29
Coyle	Coyle_T2	3535	SCS25yr	2.94	184.75	185.15		185.17	0.001529	0.56	5.44	18.49	0.3
Coyle	Coyle_T2	3535	SCS50yr	3.75	184.75	185.2		185.22	0.00162	0.62	6.38	23.11	0.31
Coyle	Coyle_T2	3535	SCS100yr	4.49	184.75	185.23		185.26	0.001723	0.68	7.3	29.69	0.33
Coyle	Coyle_T2	3535	SCS200yr	5.82	184.75	185.29		185.32	0.001792	0.75	9.04	30.67	0.34
Coyle	Coyle_T2	3535	RSnow100yr	3.55	184.75	185.19		185.21	0.001594	0.61	6.15	21.17	0.31
Coyle	Coyle_T2	3472	SCS2yr	1.02	184.67	184.82	184.82	184.85	0.032276	0.78	1.3	21.9	1.02
Coyle	Coyle_T2	3472	SCS5yr	1.55	184.67	184.97		184.97	0.001117	0.33	4.69	22.91	0.23
Coyle	Coyle_T2	3472	SCS10yr	2.07	184.67	185.02		185.02	0.00096	0.35	5.87	23.16	0.22
Coyle	Coyle_T2	3472	SCS25yr	2.94	184.67	185.09		185.09	0.000878	0.39	7.49	23.59	0.22
Coyle	Coyle_T2	3472	SCS50yr	3.75	184.67	185.13		185.14	0.000955	0.44	8.5	23.85	0.24
Coyle	Coyle_T2	3472	SCS100yr	4.49	184.67	185.16		185.17	0.001073	0.49	9.16	23.96	0.25
Coyle	Coyle_T2	3472	SCS200yr	5.82	184.67	185.21		185.22	0.001187	0.56	10.39	24.1	0.27
Coyle	Coyle_T2	3472	RSnow100yr	3.55	184.67	185.12		185.13	0.000935	0.43	8.27	23.79	0.23
Coyle	Coyle_T2	3410	SCS2yr	1.02	184.12	184.62		184.63	0.000809	0.4	2.52	7.02	0.22
Coyle	Coyle_T2	3410	SCS5yr	1.55	184.12	184.95		184.95	0.000162	0.28	8.12	29.16	0.11
Coyle	Coyle_T2	3410	SCS10yr	2.07	184.12	184.99		185	0.000209	0.33	9.55	30.9	0.12
Coyle	Coyle_T2	3410	SCS25yr	2.94	184.12	185.06		185.07	0.000277	0.4	11.64	33.48	0.14
Coyle	Coyle_T2	3410	SCS50yr	3.75	184.12	185.1		185.1	0.000362	0.47	12.88	34.49	0.17
Coyle	Coyle_T2	3410	SCS100yr	4.49	184.12	185.12		185.13	0.00046	0.54	13.59	35.12	0.19
Coyle	Coyle_T2	3410	SCS200yr	5.82	184.12	185.16		185.17	0.00061	0.65	15.08	36.41	0.22
Coyle	Coyle_T2	3410	RSnow100yr	3.55	184.12	185.09		185.1	0.000341	0.46	12.61	34.26	0.16
Coyle	Coyle_T2	3324	SCS2yr	1.02	183.97	184.57		184.58	0.00044	0.32	4.04	24.88	0.16
Coyle	Coyle_T2	3324	SCS5yr	1.55	183.97	184.94		184.94	0.000044	0.16	18.45	53.12	0.06
Coyle	Coyle_T2	3324	SCS10yr	2.07	183.97	184.99		184.99	0.000058	0.19	21.02	57.64	0.07
Coyle	Coyle_T2	3324	SCS25yr	2.94	183.97	185.05		185.05	0.000081	0.23	25.48	85.44	0.08
Coyle	Coyle_T2	3324	SCS50yr	3.75	183.97	185.08		185.09	0.000106	0.27	28.54	98.14	0.09
Coyle	Coyle_T2	3324	SCS100yr	4.49	183.97	185.1		185.1	0.000154	0.33	30.12	106.67	0.11
Coyle	Coyle_T2	3324	SCS200yr	5.82	183.97	185.14		185.14	0.000201	0.39	34.24	114.05	0.13
Coyle	Coyle_T2	3324	RSnow100yr	3.55	183.97	185.08		185.08	0.0001	0.26	27.83	92.54	0.09
Coyle	Coyle_T2	3242	SCS2yr	1.02	183.77	184.57		184.57	0.000063	0.17	10.72	36.7	0.07
Coyle	Coyle_T2	3242	SCS5yr	1.55	183.77	184.94		184.94	0.000014	0.11	31.06	72.36	0.03
Coyle	Coyle_T2	3242	SCS10yr	2.07	183.77	184.99		184.99	0.00002	0.13	34.51	78.7	0.04
Coyle	Coyle_T2	3242	SCS25yr	2.94	183.77	185.05		185.05	0.000029	0.17	39.51	82.45	0.05
Coyle	Coyle_T2	3242	SCS50yr	3.75	183.77	185.08		185.08	0.00004	0.2	42.24	84.95	0.06
Coyle	Coyle_T2	3242	SCS100yr	4.49	183.77	185.09		185.1	0.000054	0.23	43.43	86.51	0.07
Coyle	Coyle_T2	3242	SCS200yr	5.82	183.77	185.13		185.13	0.000076	0.28	46.49	88.63	0.08
Coyle	Coyle_T2	3242	RSnow100yr	3.55	183.77	185.07		185.07	0.000037	0.19	41.64	84.45	0.06
Coyle	Coyle_T2	3197	SCS2yr	1.02	183.68	184.56		184.56	0.000021	0.11	17.41	50.98	0.04
Coyle	Coyle_T2	3197	SCS5yr	1.55	183.68	184.94		184.94	0.000006	0.08	40.9	72.21	0.02
Coyle	Coyle_T2	3197	SCS10yr	2.07	183.68	184.99		184.99	0.000009	0.09	44.26	74.83	0.03
Coyle	Coyle_T2	3197	SCS25yr	2.94	183.68	185.05		185.05	0.000014	0.12	48.99	78.95	0.03
Coyle	Coyle_T2	3197	SCS50yr	3.75	183.68	185.08		185.08	0.00002	0.15	51.58	80.66	0.04
Coyle	Coyle_T2	3197	SCS100yr	4.49	183.68	185.09		185.09	0.000027	0.17	52.68	81.4	0.05
Coyle	Coyle_T2	3197	SCS200yr	5.82	183.68	185.13		185.13	0.00004	0.21	55.53	84.13	0.06
Coyle	Coyle_T2	3197	RSnow100yr	3.55	183.68	185.07		185.07	0.000018	0.14	51.02	80.32	0.04
Coyle	Coyle_T2	3186	SCS2yr	1.02	183.39	184.56	183.78	184.56	0.000052	0.18	6	49	0.06
Coyle	Coyle_T2	3186	SCS5yr	1.55	183.39	184.94	183.85	184.94	0.000008	0.09	29.71	66.28	0.03
Coyle	Coyle_T2	3186	SCS10yr	2.07	183.39	184.99	183.9	184.99	0.000013	0.12	31.62	68.77	0.03
Coyle	Coyle_T2	3186	SCS25yr	2.94	183.39	185.05	183.98	185.05	0.000022	0.16	34.34	75.88	0.04
Coyle	Coyle_T2	3186	SCS50yr	3.75	183.39	185.08	184.04	185.08	0.000032	0.2	35.92	77.34	0.05
Coyle	Coyle_T2	3186	SCS100yr	4.49	183.39	185.09	184.08	185.09	0.000025	0.18	53.26	77.96	0.05
Coyle	Coyle_T2	3186	SCS200yr	5.82	183.39	185.13	184.15	185.13	0.000037	0.22	55.95	79.18	0.06
Coyle	Coyle_T2	3186	RSnow100yr	3.55	183.39	185.07	184.03	185.07	0.000029	0.19	35.57	77.06	0.05
Coyle	Coyle_T2	3176		Culvert									
Coyle	Coyle_T2	3169	SCS2yr	1.92	183.49	184.03	184.03	184.17	0.016579	1.67	1.15	24.62	0.95
Coyle	Coyle_T2	3169	SCS5yr	3.03	183.49	184.12	184.12	184.33	0.016316	1.97	1.53	39.44	0.98
Coyle	Coyle_T2	3169	SCS10yr	4.08	183.49	184.2	184.2	184.47	0.016021	2.18	1.82	42.81	1
Coyle	Coyle_T2	3169	SCS25yr	5.8	183.49	184.33	184.33	184.68	0.013743	2.36	2.34	46	0.96
Coyle	Coyle_T2	3169	SCS50yr	7.4	183.49	184.45	184.45	184.87	0.011825	2.47	2.82	77.9	0.92
Coyle	Coyle_T2	3169	SCS100yr	8.82	183.49	184.55	184.55	185.03	0.010519	2.54	3.23	80.19	0.89
Coyle	Coyle_T2	3169	SCS200yr	11.39	183.49	184.7	184.7	184.7	0.000015	0.11	53.43	82.93	0.03
Coyle	Coyle_T2	3169	RSnow100yr	6.51	183.49	184.38	184.38	184.77	0.012692	2.41	2.56	46.86	0.94
Coyle	Coyle_T2	3160	SCS2yr	1.92	183.65	184	183.82	184	0.000609	0.26	7.29	42.04	0.18
Coyle	Coyle_T2	3160	SCS5yr	3.03	183.65	184.05	183.86	184.05	0.000225	0.18	13.67	70.51	0.11
Coyle	Coyle_T2	3160	SCS10yr	4.08	183.65	184.1	183.9	184.11	0.000176	0.18	18.72	78.97	0.1
Coyle	Coyle_T2	3160	SCS25yr	5.8	183.65	184.18	183.93	184.18	0.00015	0.19	25.11	87.13	0.1
Coyle	Coyle_T2	3160	SCS50yr	7.4	183.65	184.25	183.96	184.25	0.000126	0.2	30.92	88.07	0.09
Coyle	Coyle_T2	3160	SCS100yr	8.82	183.65	184.29	183.99	184.3	0.000119	0.2	35.12	88.54	0.09
Coyle	Coyle_T2	3160	SCS200yr	11.39	183.65	184.37	184.02	184.38	0.000112	0.22	41.94	89.4	0.09
Coyle	Coyle_T2	3160	RSnow100yr	6.51	183.65	184.21	183.95	184.22	0.000137	0.19	27.84	87.8	0.09
Coyle	Coyle_T2	3094	SCS2yr	1.92	183.46	183.93		183.95	0.001901	0.63	4.97	26.84	0.33
Coyle	Coyle_T2	3094	SCS5yr	3.03	183.46	184.01		184.02	0.001864	0.71	7.16	30.01	0.34
Coyle	Coyle_T2	3094	SCS10yr	4.08	183.46	184.07		184.08	0.001846	0.77	8.98	32.28	0.35
Coyle	Coyle_T2	3094	SCS25yr	5.8	183.46	184.14		184.16	0.001847	0.84	11.52	33.7	0.36
Coyle	Coyle_T2	3094	SCS50yr	7.4	183.46	184.21		184.23	0.00179	0.89	13.83	35.14	0.36
Coyle	Coyle_T2	3094	SCS100yr	8.82	183.46	184.26		184.28	0.001822	0.95	15.48	36.11	0.36
Coyle	Coyle_T2	3094	SCS200yr	11.39	183.46	184.33		184.36	0.001872	1.03	18.21	37.4	0.37
Coyle	Coyle_T2	3094	RSnow100yr	6.51	183.46	184.18		184.2	0.001815	0.87	12.59	34.58	0.36
Coyle	Coyle_T2	3031	SCS2yr	1.92	183.37	183.8		183.82	0.002208	0.67	4.33	23.45	0.36
Coyle	Coyle_T2	3031	SCS5yr	3.03	183.37	183.87		183.89	0.002309	0.77	6.1	25.81	0.38
Coyle	Coyle_T2	3031	SCS10yr	4.08	183.37	183.93		183.95	0.002438	0.86	7.52	27.69	0.4
Coyle	Coyle_T2	3031	SCS25yr	5.8	183.37	183.99		184.02	0.002642	0.98	9.48	29.59	0.42
Coyle	Coyle_T2	3031	SCS50yr	7.4	183.37	184.05		184.09	0.002886	1.09	11.37	34.64	0.45
Coyle	Coyle_T2	3031	SCS100yr	8.82	183.37	184.1		184.14	0.002988	1.16	12.85	36.61	0.46
Coyle	Coyle_T2	3031	SCS200yr	11.39	183.37	184.16		184.21	0.003114	1.27	15.42	39.54	0.48
Coyle	Coyle_T2	3031	RSnow100yr	6.51	183.37	184.02		184.06	0.00276	1.03	10.33	31.96	0.43
Coyle	Coyle_T2	2976	SCS2yr	1.92	183.19	183.65		183.67	0.003252	0.76	3.71	24.82	0.43
Coyle	Coyle_T2	2976	SCS5yr	3.03	183.19	183.74		183.76	0.002633	0.8	6.25	33.57	0.4
Coyle	Coyle_T2	2976	SCS10yr	4.08	183.19	183.77		183.8	0.002946	0.9	7.59	35.11	0.43
Coyle	Coyle_T2	2976	SCS25yr	5.8	183.19	183.85		183.88	0.002662	0.95	10.37	38.02	0.42
Coyle	Coyle_T2	2976	SCS50yr	7.4	183.19	183.9		183.93	0.002751	1.03	12.36	40.42	0.43
Coyle	Coyle_T2	2976	SCS100yr	8.82	183.19	183.93		183.97	0.003099	1.12	13.49	41.45	0.46
Coyle	Coyle_T2	2976	SCS200yr	11.39	183.19	183.99		184.03	0.0032	1.22	16.13	43.91	0.48
Coyle	Coyle_T2	2976	RSnow100yr	6.51	183.19	183.88		183.91	0.002594	0.97	11.46	39.26	0.42

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	2900	SCS2yr	1.92	183.03	183.66		183.66	0.000035	0.11	21.71	52.16	0.05
Coyle	Coyle_T2	2900	SCS5yr	3.03	183.03	183.74		183.74	0.000049	0.15	26.26	55.39	0.06
Coyle	Coyle_T2	2900	SCS10yr	4.08	183.03	183.78		183.78	0.00007	0.18	28.34	55.78	0.07
Coyle	Coyle_T2	2900	SCS25yr	5.8	183.03	183.85		183.85	0.000093	0.23	32.36	56.55	0.08
Coyle	Coyle_T2	2900	SCS50yr	7.4	183.03	183.9		183.9	0.000118	0.27	35.1	56.99	0.09
Coyle	Coyle_T2	2900	SCS100yr	8.82	183.03	183.92		183.92	0.000148	0.3	36.52	57.23	0.11
Coyle	Coyle_T2	2900	SCS200yr	11.39	183.03	183.98		183.98	0.000188	0.36	39.84	57.88	0.12
Coyle	Coyle_T2	2900	RSnow100yr	6.51	183.03	183.87		183.88	0.000102	0.24	33.88	56.79	0.09
Coyle	Coyle_T2	2830	SCS2yr	1.92	182.67	183.65	183.05	183.65	0.000124	0.28	13.97	37.9	0.1
Coyle	Coyle_T2	2830	SCS5yr	3.03	182.67	183.73	183.14	183.73	0.000202	0.38	18.45	43.46	0.13
Coyle	Coyle_T2	2830	SCS10yr	4.08	182.67	183.76	183.21	183.77	0.000309	0.48	19.85	44.66	0.16
Coyle	Coyle_T2	2830	SCS25yr	5.8	182.67	183.82	183.31	183.83	0.000442	0.6	22.82	47.16	0.19
Coyle	Coyle_T2	2830	SCS50yr	7.4	182.67	183.87	183.41	183.88	0.00058	0.71	24.8	48.86	0.22
Coyle	Coyle_T2	2830	SCS100yr	8.82	182.67	183.88	183.48	183.9	0.000761	0.82	25.58	49.47	0.25
Coyle	Coyle_T2	2830	SCS200yr	11.39	182.67	183.93	183.58	183.95	0.00101	0.97	27.86	51.15	0.29
Coyle	Coyle_T2	2830	RSnow100yr	6.51	182.67	183.85	183.36	183.86	0.00049	0.65	23.98	48.31	0.2
Coyle	Coyle_T2	2824		Culvert									
Coyle	Coyle_T2	2816	SCS2yr	1.92	182.63	183.16	183.02	183.21	0.004152	0.98	1.96	24.59	0.5
Coyle	Coyle_T2	2816	SCS5yr	3.03	182.63	183.23	183.11	183.32	0.006098	1.32	2.3	28.59	0.62
Coyle	Coyle_T2	2816	SCS10yr	4.08	182.63	183.29	183.18	183.41	0.007507	1.58	2.58	31.03	0.7
Coyle	Coyle_T2	2816	SCS25yr	5.8	182.63	183.36	183.28	183.56	0.00997	1.98	2.93	32.23	0.83
Coyle	Coyle_T2	2816	SCS50yr	7.4	182.63	183.4	183.38	183.68	0.012833	2.36	3.14	32.95	0.95
Coyle	Coyle_T2	2816	SCS100yr	8.82	182.63	183.43	183.4	183.5	0.004599	1.38	11.96	33.7	0.56
Coyle	Coyle_T2	2816	SCS200yr	11.39	182.63	183.5	183.4	183.58	0.004745	1.51	14.45	36.24	0.58
Coyle	Coyle_T2	2816	RSnow100yr	6.51	182.63	183.38	183.33	183.61	0.011154	2.15	3.03	32.56	0.88
Coyle	Coyle_T2	2742	SCS2yr	1.92	182.68	182.91		182.91	0.003307	0.52	7.26	42.5	0.39
Coyle	Coyle_T2	2742	SCS5yr	3.03	182.68	182.97		182.98	0.002762	0.59	10.22	43.8	0.38
Coyle	Coyle_T2	2742	SCS10yr	4.08	182.68	183.02		183.03	0.002816	0.66	12.25	44.83	0.39
Coyle	Coyle_T2	2742	SCS25yr	5.8	182.68	183.09		183.1	0.002831	0.77	15.39	47.35	0.41
Coyle	Coyle_T2	2742	SCS50yr	7.4	182.68	183.14		183.16	0.002822	0.84	18.02	48.67	0.42
Coyle	Coyle_T2	2742	SCS100yr	8.82	182.68	183.19		183.2	0.002845	0.9	20.18	49.97	0.43
Coyle	Coyle_T2	2742	SCS200yr	11.39	182.68	183.26		183.28	0.00286	1	23.73	51.13	0.44
Coyle	Coyle_T2	2742	RSnow100yr	6.51	182.68	183.11		183.13	0.002815	0.8	16.61	47.95	0.41
Coyle	Coyle_T2	2671	SCS2yr	1.92	182.43	182.73		182.74	0.001952	0.45	7.4	37.56	0.31
Coyle	Coyle_T2	2671	SCS5yr	3.03	182.43	182.76		182.77	0.003306	0.63	8.47	40.56	0.41
Coyle	Coyle_T2	2671	SCS10yr	4.08	182.43	182.81		182.83	0.003075	0.7	10.74	44.27	0.41
Coyle	Coyle_T2	2671	SCS25yr	5.8	182.43	182.89		182.9	0.002807	0.78	14.24	46.99	0.41
Coyle	Coyle_T2	2671	SCS50yr	7.4	182.43	182.95		182.96	0.002754	0.85	17.04	51.24	0.41
Coyle	Coyle_T2	2671	SCS100yr	8.82	182.43	182.99		183.01	0.002699	0.9	19.39	54.67	0.42
Coyle	Coyle_T2	2671	SCS200yr	11.39	182.43	183.06		183.08	0.002622	0.97	24.06	71.83	0.42
Coyle	Coyle_T2	2671	RSnow100yr	6.51	182.43	182.92		182.93	0.002786	0.81	15.51	49.9	0.41
Coyle	Coyle_T2	2594	SCS2yr	1.92	182.06	182.36	182.36	182.42	0.013273	1.3	3.06	26.21	0.83
Coyle	Coyle_T2	2594	SCS5yr	3.03	182.06	182.55		182.57	0.002153	0.77	9.36	36.51	0.37
Coyle	Coyle_T2	2594	SCS10yr	4.08	182.06	182.61		182.62	0.002256	0.85	11.37	37.41	0.38
Coyle	Coyle_T2	2594	SCS25yr	5.8	182.06	182.65		182.67	0.003132	1.06	12.95	38.79	0.46
Coyle	Coyle_T2	2594	SCS50yr	7.4	182.06	182.7		182.73	0.003439	1.17	14.84	40.28	0.49
Coyle	Coyle_T2	2594	SCS100yr	8.82	182.06	182.73		182.77	0.003662	1.26	16.38	40.9	0.51
Coyle	Coyle_T2	2594	SCS200yr	11.39	182.06	182.78		182.83	0.004345	1.44	18.4	42.29	0.56
Coyle	Coyle_T2	2594	RSnow100yr	6.51	182.06	182.67		182.7	0.003253	1.11	13.85	39.6	0.47
Coyle	Coyle_T2	2503	SCS2yr	1.92	181.8	182.26		182.26	0.000534	0.37	10.02	44.02	0.18
Coyle	Coyle_T2	2503	SCS5yr	3.03	181.8	182.53		182.53	0.000123	0.25	24.58	63.11	0.1
Coyle	Coyle_T2	2503	SCS10yr	4.08	181.8	182.58		182.58	0.000163	0.3	28.06	81.7	0.11
Coyle	Coyle_T2	2503	SCS25yr	5.8	181.8	182.6		182.61	0.000285	0.4	29.96	88.36	0.15
Coyle	Coyle_T2	2503	SCS50yr	7.4	181.8	182.64		182.64	0.000365	0.47	33.36	102.56	0.17
Coyle	Coyle_T2	2503	SCS100yr	8.82	181.8	182.67		182.67	0.000428	0.52	36.56	114.75	0.18
Coyle	Coyle_T2	2503	SCS200yr	11.39	181.8	182.69		182.7	0.00062	0.64	39.04	122.69	0.22
Coyle	Coyle_T2	2503	RSnow100yr	6.51	181.8	182.62		182.62	0.000319	0.43	31.59	94.63	0.16
Coyle	Coyle_T2	2431	SCS2yr	1.92	181.6	182.24		182.24	0.000111	0.21	22.06	79.5	0.09
Coyle	Coyle_T2	2431	SCS5yr	3.03	181.6	182.53		182.53	0.000024	0.13	67	227.65	0.04
Coyle	Coyle_T2	2431	SCS10yr	4.08	181.6	182.58		182.58	0.00003	0.15	78.41	252.27	0.05
Coyle	Coyle_T2	2431	SCS25yr	5.8	181.6	182.6		182.6	0.000051	0.2	83.46	255.88	0.06
Coyle	Coyle_T2	2431	SCS50yr	7.4	181.6	182.63		182.63	0.000066	0.23	92.53	270.11	0.07
Coyle	Coyle_T2	2431	SCS100yr	8.82	181.6	182.66		182.66	0.000075	0.25	100.38	284.99	0.08
Coyle	Coyle_T2	2431	SCS200yr	11.39	181.6	182.68		182.68	0.00011	0.3	105.48	294.95	0.1
Coyle	Coyle_T2	2431	RSnow100yr	6.51	181.6	182.61		182.61	0.000058	0.21	87.93	265.24	0.07
Coyle	Coyle_T2	2358	SCS2yr	1.92	181.26	182.24		182.24	0.000012	0.09	50.55	183.2	0.03
Coyle	Coyle_T2	2358	SCS5yr	3.03	181.26	182.53		182.53	0.000004	0.06	127.85	337.18	0.02
Coyle	Coyle_T2	2358	SCS10yr	4.08	181.26	182.58		182.58	0.000005	0.07	144.38	362.09	0.02
Coyle	Coyle_T2	2358	SCS25yr	5.8	181.26	182.6		182.6	0.00001	0.1	151.5	373.62	0.03
Coyle	Coyle_T2	2358	SCS50yr	7.4	181.26	182.63		182.63	0.000013	0.12	164.47	387.88	0.03
Coyle	Coyle_T2	2358	SCS100yr	8.82	181.26	182.66		182.66	0.000017	0.14	175.53	404.08	0.04
Coyle	Coyle_T2	2358	SCS200yr	11.39	181.26	182.67		182.67	0.000027	0.18	182.21	408.48	0.05
Coyle	Coyle_T2	2358	RSnow100yr	6.51	181.26	182.61		182.61	0.000011	0.11	157.96	381.24	0.03
Coyle	Coyle_T2	2300	SCS2yr	1.92	180.91	182.24		182.24	0.000005	0.07	77.36	199.88	0.02
Coyle	Coyle_T2	2300	SCS5yr	3.03	180.91	182.53		182.53	0.000003	0.06	162.9	399.72	0.02
Coyle	Coyle_T2	2300	SCS10yr	4.08	180.91	182.58		182.58	0.000004	0.07	182.16	411.39	0.02
Coyle	Coyle_T2	2300	SCS25yr	5.8	180.91	182.6		182.6	0.000006	0.09	190.05	412.38	0.02
Coyle	Coyle_T2	2300	SCS50yr	7.4	180.91	182.63		182.63	0.000008	0.11	204.09	414.51	0.03
Coyle	Coyle_T2	2300	SCS100yr	8.82	180.91	182.66		182.66	0.00001	0.12	215.61	414.93	0.03
Coyle	Coyle_T2	2300	SCS200yr	11.39	180.91	182.67		182.67	0.000016	0.15	222.27	415.32	0.04
Coyle	Coyle_T2	2300	RSnow100yr	6.51	180.91	182.61		182.61	0.000007	0.1	197.1	414.25	0.03
Coyle	Coyle_T2	2291	SCS2yr	1.92	180.85	182.24	181.27	182.24	0.000035	0.19	12.55	139.46	0.06
Coyle	Coyle_T2	2291	SCS5yr	3.03	180.85	182.53	181.36	182.53	0	0.02	111.86	146.09	0.01
Coyle	Coyle_T2	2291	SCS10yr	4.08	180.85	182.58	181.43	182.58	0.000001	0.03	118.78	146.63	0.01
Coyle	Coyle_T2	2291	SCS25yr	5.8	180.85	182.6	181.52	182.6	0.000001	0.04	121.58	146.84	0.01
Coyle	Coyle_T2	2291	SCS50yr	7.4	180.85	182.63	181.59	182.63	0.000002	0.05	126.56	147.23	0.01
Coyle	Coyle_T2	2291	SCS100yr	8.82	180.85	182.66	181.64	182.66	0.000003	0.06	130.64	147.57	0.02
Coyle	Coyle_T2	2291	SCS200yr	11.39	180.85	182.67	181.73	182.67	0.000004	0.08	132.98	147.82	0.02
Coyle	Coyle_T2	2291	RSnow100yr	6.51	180.85	182.61	181.55	182.61	0.000002	0.05	124.08	147.03	0.01
Coyle	Coyle_T2	2275		Culvert									
Coyle	Coyle_T2	2266	SCS2yr	1.92	180.71	182.08	181.08	182.09	0.000151	0.42	4.57	107.13	0.12
Coyle	Coyle_T2	2266	SCS5yr	3.03	180.71	182.25	181.19	182.25	0.000003	0.06	42.93	193.31	0.02
Coyle	Coyle_T2	2266	SCS10yr	4.08	180.71	182.32	181.28	182.32	0.000004	0.07	50.89	217.93	0.02
Coyle	Coyle_T2	2266	SCS25yr	5.8	180.71	182.32	181.42	182.32	0.000009	0.11	50.89	217.93	0.03
Coyle	Coyle_T2	2266	SCS50yr	7.4	180.71	182.32	181.54	182.32	0.000014	0.14	50.76	217.67	0.04
Coyle	Coyle_T2	2266	SCS100yr	8.82	180.71	182.32	181.63	182.32	0.000021	0.16	50.69	217.54	0.04
Coyle	Coyle_T2	2266	SCS200yr	11.39	180.71	182.32	181.79	182.32	0.000034	0.21	50.67	217.5	0.06
Coyle	Coyle_T2	2266	RSnow100yr	6.51	180.71	182.32	181.47	182.32	0.000011	0.12	50.82	217.79	0.03
Coyle	Coyle_T2	2249	SCS2yr	1.92	180.67	182.08	181.26	182.08	0.000006	0.08	35.24	130.76	0.02
Coyle	Coyle_T2	2249	SCS5yr	3.03	180.67	182.25	181.42	182.25	0.000006	0.09	61.21	170.52	0.02
Coyle	Coyle_T2	2249	SCS10yr	4.08	180.67	182.32	181.54	182.32	0.000002	0.05	110.84	298.44	0.01

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	2249	SCS25yr	5.8	180.67	182.32	181.56	182.32	0.000004	0.07	110.86	298.47	0.02
Coyle	Coyle_T2	2249	SCS50yr	7.4	180.67	182.32	181.56	182.32	0.000024	0.18	74	199.49	0.05
Coyle	Coyle_T2	2249	SCS100yr	8.82	180.67	182.32	181.56	182.32	0.000035	0.21	73.88	199.26	0.06
Coyle	Coyle_T2	2249	SCS200yr	11.39	180.67	182.32	181.56	182.32	0.000058	0.27	73.84	199.18	0.07
Coyle	Coyle_T2	2249	RSnow100yr	6.51	180.67	182.32	181.56	182.32	0.000019	0.16	74.11	199.7	0.04
Coyle	Coyle_T2	2242		Culvert									
Coyle	Coyle_T2	2237	SCS2yr	2.2	180.58	181.26	181.26	181.37	0.006548	1.47	1.59	40.09	0.65
Coyle	Coyle_T2	2237	SCS5yr	3.5	180.58	181.34	181.34	181.47	0.006939	1.65	2.16	45.83	0.68
Coyle	Coyle_T2	2237	SCS10yr	4.79	180.58	181.43	181.43	181.44	0.000444	0.44	17.96	59.04	0.17
Coyle	Coyle_T2	2237	SCS25yr	6.86	180.58	181.45	181.43	181.46	0.000746	0.59	19.41	67.15	0.23
Coyle	Coyle_T2	2237	SCS50yr	8.77	180.58	181.51	181.43	181.52	0.000774	0.63	23.57	88.13	0.23
Coyle	Coyle_T2	2237	SCS100yr	10.49	180.58	181.55	181.43	181.56	0.000771	0.65	27.53	108.61	0.24
Coyle	Coyle_T2	2237	SCS200yr	30.55	180.58	181.85	181.49	181.86	0.00048	0.64	79.63	207.3	0.2
Coyle	Coyle_T2	2237	RSnow100yr	7.45	180.58	181.47	181.43	181.48	0.000764	0.61	20.72	76.06	0.23
Coyle	Coyle_T2	2207	SCS2yr	2.2	180.42	181.07		181.11	0.003288	0.93	2.65	11.26	0.45
Coyle	Coyle_T2	2207	SCS5yr	3.5	180.42	181.16		181.22	0.003837	1.14	3.86	15.94	0.5
Coyle	Coyle_T2	2207	SCS10yr	4.79	180.42	181.23	181.11	181.3	0.004252	1.3	5.2	28.29	0.54
Coyle	Coyle_T2	2207	SCS25yr	6.86	180.42	181.31	181.24	181.4	0.004576	1.47	8.22	42.5	0.57
Coyle	Coyle_T2	2207	SCS50yr	8.77	180.42	181.36	181.34	181.45	0.004642	1.55	10.53	45.41	0.58
Coyle	Coyle_T2	2207	SCS100yr	10.49	180.42	181.4	181.37	181.49	0.004699	1.62	12.36	47.57	0.59
Coyle	Coyle_T2	2207	SCS200yr	30.55	180.42	181.68	181.62	181.8	0.005712	2.19	28.69	75.08	0.68
Coyle	Coyle_T2	2207	RSnow100yr	7.45	180.42	181.33	181.3	181.41	0.00465	1.5	8.92	43.55	0.57
Coyle	Coyle_T2	2114	SCS2yr	2.2	180.37	180.81	180.72	180.82	0.002821	0.69	5.32	28.97	0.39
Coyle	Coyle_T2	2114	SCS5yr	3.5	180.37	180.88	180.76	180.89	0.003032	0.77	7.52	34.22	0.41
Coyle	Coyle_T2	2114	SCS10yr	4.79	180.37	180.93	180.8	180.95	0.00317	0.87	9.43	40.86	0.43
Coyle	Coyle_T2	2114	SCS25yr	6.86	180.37	181	180.84	181.02	0.003257	0.97	12.6	53.69	0.45
Coyle	Coyle_T2	2114	SCS50yr	8.77	180.37	181.05	180.87	181.07	0.003226	1.03	15.49	59.29	0.45
Coyle	Coyle_T2	2114	SCS100yr	10.49	180.37	181.09	180.91	181.11	0.003178	1.08	17.98	64.73	0.46
Coyle	Coyle_T2	2114	SCS200yr	30.55	180.37	181.4	181.15	181.43	0.002631	1.31	46.14	120.53	0.45
Coyle	Coyle_T2	2114	RSnow100yr	7.45	180.37	181.01	180.85	181.04	0.003212	0.99	13.54	55.08	0.45
Coyle	Coyle_T2	2040	SCS2yr	2.2	180.22	180.65	180.55	180.66	0.001713	0.48	7.62	44.13	0.3
Coyle	Coyle_T2	2040	SCS5yr	3.5	180.22	180.72	180.59	180.73	0.001629	0.46	10.82	48.34	0.29
Coyle	Coyle_T2	2040	SCS10yr	4.79	180.22	180.78	180.61	180.78	0.00159	0.51	13.45	53.18	0.29
Coyle	Coyle_T2	2040	SCS25yr	6.86	180.22	180.85	180.64	180.86	0.001563	0.58	17.56	64.61	0.3
Coyle	Coyle_T2	2040	SCS50yr	8.77	180.22	180.9	180.67	180.91	0.001579	0.63	20.9	68.73	0.31
Coyle	Coyle_T2	2040	SCS100yr	10.49	180.22	180.94	180.69	180.95	0.001578	0.67	23.81	72.65	0.31
Coyle	Coyle_T2	2040	SCS200yr	30.55	180.22	181.25	180.87	181.27	0.001686	0.98	50.9	107	0.35
Coyle	Coyle_T2	2040	RSnow100yr	7.45	180.22	180.86	180.65	180.87	0.001571	0.6	18.62	66	0.3
Coyle	Coyle_T2	1947	SCS2yr	2.2	180.07	180.39	180.27	180.41	0.005128	0.75	4.57	28.92	0.5
Coyle	Coyle_T2	1947	SCS5yr	3.5	180.07	180.44	180.36	180.46	0.006506	0.91	6.08	36.62	0.58
Coyle	Coyle_T2	1947	SCS10yr	4.79	180.07	180.46	180.39	180.49	0.00814	1.09	7.04	37.98	0.66
Coyle	Coyle_T2	1947	SCS25yr	6.86	180.07	180.5	180.43	180.55	0.01046	1.34	8.55	42.28	0.76
Coyle	Coyle_T2	1947	SCS50yr	8.77	180.07	180.53	180.47	180.59	0.012067	1.52	9.65	43.23	0.83
Coyle	Coyle_T2	1947	SCS100yr	10.49	180.07	180.54	180.47	180.62	0.01384	1.68	10.41	44.01	0.9
Coyle	Coyle_T2	1947	SCS200yr	30.55	180.07	180.74	180.74	180.89	0.01828	2.58	21.11	67.73	1.11
Coyle	Coyle_T2	1947	RSnow100yr	7.45	180.07	180.51	180.45	180.56	0.010809	1.39	8.96	42.61	0.78
Coyle	Coyle_T2	1857	SCS2yr	2.2	179.63	180.1	180.03	180.11	0.002283	0.58	7.74	81.43	0.35
Coyle	Coyle_T2	1857	SCS5yr	3.5	179.63	180.15		180.16	0.001965	0.58	13.27	132.04	0.33
Coyle	Coyle_T2	1857	SCS10yr	4.79	179.63	180.19		180.19	0.001747	0.59	18.7	157.77	0.31
Coyle	Coyle_T2	1857	SCS25yr	6.86	179.63	180.24		180.24	0.001536	0.59	27.08	186.65	0.3
Coyle	Coyle_T2	1857	SCS50yr	8.77	179.63	180.27		180.27	0.001484	0.61	33.22	192.4	0.3
Coyle	Coyle_T2	1857	SCS100yr	10.49	179.63	180.29		180.3	0.001423	0.63	38.21	193.05	0.3
Coyle	Coyle_T2	1857	SCS200yr	30.55	179.63	180.5		180.5	0.00138	0.79	79.82	228.57	0.31
Coyle	Coyle_T2	1857	RSnow100yr	7.45	179.63	180.25		180.25	0.001542	0.6	28.98	190.23	0.3
Coyle	Coyle_T2	1759	SCS2yr	2.2	179.41	179.87		179.88	0.002249	0.54	7	45.72	0.34
Coyle	Coyle_T2	1759	SCS5yr	3.5	179.41	179.92		179.93	0.002594	0.63	9.48	53.25	0.37
Coyle	Coyle_T2	1759	SCS10yr	4.79	179.41	179.96		179.97	0.002796	0.72	11.83	60.66	0.4
Coyle	Coyle_T2	1759	SCS25yr	6.86	179.41	180.02		180.03	0.002838	0.81	16.09	82.1	0.41
Coyle	Coyle_T2	1759	SCS50yr	8.77	179.41	180.06		180.07	0.002914	0.87	19.32	101.54	0.42
Coyle	Coyle_T2	1759	SCS100yr	10.49	179.41	180.08		180.1	0.002956	0.91	22.59	125.8	0.43
Coyle	Coyle_T2	1759	SCS200yr	30.55	179.41	180.27		180.3	0.003359	1.22	54.37	210.43	0.48
Coyle	Coyle_T2	1759	RSnow100yr	7.45	179.41	180.03		180.05	0.002911	0.83	16.97	85.98	0.42
Coyle	Coyle_T2	1696	SCS2yr	2.2	179.21	179.6		179.63	0.008668	1.07	3.9	38.83	0.67
Coyle	Coyle_T2	1696	SCS5yr	3.5	179.21	179.66		179.69	0.0067	1.01	6.57	44.66	0.6
Coyle	Coyle_T2	1696	SCS10yr	4.79	179.21	179.71		179.74	0.005711	1.02	9.13	55.54	0.56
Coyle	Coyle_T2	1696	SCS25yr	6.86	179.21	179.78		179.8	0.005279	1.1	13.33	77.99	0.56
Coyle	Coyle_T2	1696	SCS50yr	8.77	179.21	179.82		179.84	0.004989	1.14	16.61	86.11	0.55
Coyle	Coyle_T2	1696	SCS100yr	10.49	179.21	179.85		179.88	0.004824	1.18	19.71	100.58	0.55
Coyle	Coyle_T2	1696	SCS200yr	30.55	179.21	180.06		180.08	0.003743	1.33	64.71	324.02	0.51
Coyle	Coyle_T2	1696	RSnow100yr	7.45	179.21	179.79		179.82	0.005097	1.11	14.52	82.66	0.55
Coyle	Coyle_T2	1616	SCS2yr	2.2	178.96	179.44	179.32	179.44	0.001039	0.4	10.24	62.05	0.24
Coyle	Coyle_T2	1616	SCS5yr	3.5	178.96	179.49	179.35	179.5	0.001165	0.46	13.9	74.35	0.26
Coyle	Coyle_T2	1616	SCS10yr	4.79	178.96	179.53	179.37	179.54	0.00133	0.53	17.28	89.58	0.28
Coyle	Coyle_T2	1616	SCS25yr	6.86	178.96	179.58	179.4	179.59	0.001521	0.62	21.86	98.45	0.3
Coyle	Coyle_T2	1616	SCS50yr	8.77	178.96	179.62	179.43	179.63	0.001606	0.67	25.88	119.96	0.32
Coyle	Coyle_T2	1616	SCS100yr	10.49	178.96	179.64	179.45	179.65	0.001722	0.72	29.22	139.64	0.33
Coyle	Coyle_T2	1616	SCS200yr	30.55	178.96	179.87	179.61	179.88	0.001738	0.93	75.11	267.58	0.35
Coyle	Coyle_T2	1616	RSnow100yr	7.45	178.96	179.59	179.41	179.6	0.001624	0.65	22.69	101.44	0.31
Coyle	Coyle_T2	1528	SCS2yr	2.2	178.82	179.42	179.14	179.42	0.000063	0.13	37.79	188.43	0.06
Coyle	Coyle_T2	1528	SCS5yr	3.5	178.82	179.48	179.16	179.48	0.000086	0.17	48.13	220.04	0.07
Coyle	Coyle_T2	1528	SCS10yr	4.79	178.82	179.51	179.19	179.51	0.000107	0.19	56.78	237.61	0.08
Coyle	Coyle_T2	1528	SCS25yr	6.86	178.82	179.56	179.22	179.56	0.000138	0.23	67.55	247.55	0.1
Coyle	Coyle_T2	1528	SCS50yr	8.77	178.82	179.59	179.24	179.59	0.000158	0.26	76.14	252.21	0.1
Coyle	Coyle_T2	1528	SCS100yr	10.49	178.82	179.61	179.27	179.62	0.000183	0.28	81.74	253.87	0.11
Coyle	Coyle_T2	1528	SCS200yr	30.55	178.82	179.83	179.39	179.84	0.000211	0.37	190.2	511.34	0.13
Coyle	Coyle_T2	1528	RSnow100yr	7.45	178.82	179.56	179.23	179.56	0.000153	0.25	69.03	248.64	0.1
Coyle	Coyle_T2	1447	SCS2yr	2.2	178.47	179.42		179.42	0.000034	0.14	42.25	169.24	0.05
Coyle	Coyle_T2	1447	SCS5yr	3.5	178.47	179.47		179.47	0.000059	0.19	50.75	180.41	0.07
Coyle	Coyle_T2	1447	SCS10yr	4.79	178.47	179.51		179.51	0.00008	0.23	57.46	199.43	0.08
Coyle	Coyle_T2	1447	SCS25yr	6.86	178.47	179.55		179.55	0.000123	0.29	66.21	223.16	0.1
Coyle	Coyle_T2	1447	SCS50yr	8.77	178.47	179.58		179.58	0.000152	0.33	73.73	244.54	0.11
Coyle	Coyle_T2	1447	SCS100yr	10.49	178.47	179.6		179.6	0.000185	0.37	78.7	261.23	0.12
Coyle	Coyle_T2	1447	SCS200yr	30.55	178.47	179.81		179.81	0.00035	0.58	147.47	399.15	0.17
Coyle	Coyle_T2	1447	RSnow100yr	7.45	178.47	179.55		179.55	0.000139	0.31	67.25	226.48	0.1
Coyle	Coyle_T2	1361	SCS2yr	2.2	178.38	179.42		179.42	0.000054	0.12	37.71	95.46	0.04
Coyle	Coyle_T2	1361	SCS5yr	3.5	178.38	179.46		179.46	0.000102	0.17	42.21	100.91	0.06
Coyle	Coyle_T2	1361	SCS10yr	4.79	178.38	179.5		179.5	0.000156	0.22	45.58	104.77	0.07
Coyle	Coyle_T2	1361	SCS25yr	6.86	178.38	179.53		179.53	0.000257	0.29	49.42	112.84	0.1
Coyle	Coyle_T2	1361	SCS50yr	8.77	178.38	179.56		179.56	0.000357	0.35	52.62	121.26	0.11
Coyle	Coyle_T2	1361	SCS100yr	10.49	178.38	179.57		179.58	0.00047	0.4	54.36	123.41	0.13
Coyle	Coyle_T2	1361	SCS200yr	30.55	178.38	179.74		179.76	0.001723	0.85	83.17	249.71	0.26
Coyle	Coyle_T2	1361	RSnow100yr	7.45	178.38	179.53		179.54	0.000299	0.31	49.68	113.57	0.1

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	1272	SCS2yr	2.2	178.18	179.42		179.42	0.000007	0.08	97.81	332.18	0.02
Coyle	Coyle_T2	1272	SCS5yr	3.5	178.18	179.46		179.46	0.000013	0.11	114.04	385.18	0.03
Coyle	Coyle_T2	1272	SCS10yr	4.79	178.18	179.49		179.49	0.000021	0.14	127.01	438.2	0.04
Coyle	Coyle_T2	1272	SCS25yr	6.86	178.18	179.53		179.53	0.000034	0.18	142.45	483.47	0.05
Coyle	Coyle_T2	1272	SCS50yr	8.77	178.18	179.55		179.55	0.000046	0.21	155.17	524.53	0.06
Coyle	Coyle_T2	1272	SCS100yr	10.49	178.18	179.56		179.56	0.000061	0.24	161.47	540.94	0.07
Coyle	Coyle_T2	1272	SCS200yr	30.55	178.18	179.71		179.71	0.000198	0.47	254.04	715.52	0.13
Coyle	Coyle_T2	1272	RSnow100yr	7.45	178.18	179.53		179.53	0.000039	0.19	143.13	485.26	0.06
Coyle	Coyle_T2	1200	SCS2yr	2.2	178.18	179.42	178.34	179.42	0.000003	0.05	153.28	464.26	0.02
Coyle	Coyle_T2	1200	SCS5yr	3.5	178.18	179.46	178.39	179.46	0.000005	0.07	174.78	499.33	0.02
Coyle	Coyle_T2	1200	SCS10yr	4.79	178.18	179.49	178.43	179.49	0.000008	0.09	190.91	532.72	0.03
Coyle	Coyle_T2	1200	SCS25yr	6.86	178.18	179.52	178.48	179.52	0.000013	0.12	209.02	568.75	0.03
Coyle	Coyle_T2	1200	SCS50yr	8.77	178.18	179.55	178.51	179.55	0.000019	0.15	223.43	596.46	0.04
Coyle	Coyle_T2	1200	SCS100yr	10.49	178.18	179.56	178.55	179.56	0.000025	0.17	230.16	607.82	0.05
Coyle	Coyle_T2	1200	SCS200yr	30.55	178.18	179.7	178.82	179.7	0.000097	0.36	331.84	815.18	0.1
Coyle	Coyle_T2	1200	RSnow100yr	7.45	178.18	179.53	178.49	179.53	0.000015	0.13	209.71	570.02	0.04
Coyle	Coyle_T2	1186	SCS2yr	2.2	178.07	179.42	178.36	179.42	0	0.02	120.16	426.1	0.01
Coyle	Coyle_T2	1186	SCS5yr	3.5	178.07	179.46	178.43	179.46	0.000001	0.03	133	463.28	0.01
Coyle	Coyle_T2	1186	SCS10yr	4.79	178.07	179.49	178.48	179.49	0.000001	0.03	201.56	493	0.01
Coyle	Coyle_T2	1186	SCS25yr	6.86	178.07	179.52	178.58	179.52	0.000001	0.04	218.51	537.61	0.01
Coyle	Coyle_T2	1186	SCS50yr	8.77	178.07	179.55	178.63	179.55	0.000002	0.04	232.12	562.18	0.01
Coyle	Coyle_T2	1186	SCS100yr	10.49	178.07	179.56	178.68	179.56	0.000002	0.05	238.47	574.43	0.01
Coyle	Coyle_T2	1186	SCS200yr	30.55	178.07	179.7	179.12	179.7	0.000008	0.1	336.6	834.8	0.03
Coyle	Coyle_T2	1186	RSnow100yr	7.45	178.07	179.53	178.59	179.53	0.000001	0.04	219.16	538.77	0.01
Coyle	Coyle_T2	1172		Culvert									
Coyle	Coyle_T2	1164	SCS2yr	2.2	178.11	178.75	178.73	178.91	0.01347	1.77	1.27	33.99	0.89
Coyle	Coyle_T2	1164	SCS5yr	3.5	178.11	178.87	178.86	179.1	0.014477	2.17	1.66	39.34	0.96
Coyle	Coyle_T2	1164	SCS10yr	4.79	178.11	178.98	178.98	179.27	0.014059	2.43	2.04	41	0.98
Coyle	Coyle_T2	1164	SCS25yr	6.86	178.11	179.07	179.07	179.07	0.000023	0.11	37.91	108.1	0.04
Coyle	Coyle_T2	1164	SCS50yr	8.77	178.11	179.07	179.07	179.07	0.000037	0.14	37.91	108.1	0.05
Coyle	Coyle_T2	1164	SCS100yr	10.49	178.11	179.07	179.07	179.07	0.000053	0.16	37.92	108.11	0.06
Coyle	Coyle_T2	1164	SCS200yr	30.55	178.11	179.15	179.07	179.18	0.000288	0.41	47.63	126.24	0.15
Coyle	Coyle_T2	1164	RSnow100yr	7.45	178.11	179.07	179.07	179.07	0.000027	0.12	37.91	108.1	0.04
Coyle	Coyle_T2	1114	SCS2yr	2.2	177.92	178.37	178.28	178.41	0.006286	0.98	2.37	12.47	0.58
Coyle	Coyle_T2	1114	SCS5yr	3.5	177.92	178.42	178.37	178.5	0.008058	1.25	3.21	15.83	0.68
Coyle	Coyle_T2	1114	SCS10yr	4.79	177.92	178.47	178.44	178.57	0.009341	1.46	3.98	18.11	0.75
Coyle	Coyle_T2	1114	SCS25yr	6.86	177.92	178.53	178.53	178.66	0.010794	1.73	5.15	21.27	0.82
Coyle	Coyle_T2	1114	SCS50yr	8.77	177.92	178.58	178.58	178.73	0.010696	1.86	6.34	21.93	0.84
Coyle	Coyle_T2	1114	SCS100yr	10.49	177.92	178.62	178.62	178.79	0.010887	1.98	7.26	22.61	0.86
Coyle	Coyle_T2	1114	SCS200yr	30.55	177.92	179.05	178.95	179.13	0.00388	1.74	37.34	106.16	0.56
Coyle	Coyle_T2	1114	RSnow100yr	7.45	177.92	178.55	178.55	178.68	0.010598	1.76	5.57	21.49	0.82
Coyle	Coyle_T2	1050	SCS2yr	2.2	177.73	178.17	178.06	178.18	0.002105	0.63	6.64	40.27	0.35
Coyle	Coyle_T2	1050	SCS5yr	3.5	177.73	178.24	178.12	178.26	0.001928	0.69	9.64	42.9	0.34
Coyle	Coyle_T2	1050	SCS10yr	4.79	177.73	178.3	178.16	178.32	0.001836	0.73	12.19	44.09	0.34
Coyle	Coyle_T2	1050	SCS25yr	6.86	177.73	178.39	178.18	178.4	0.001716	0.79	15.83	45	0.34
Coyle	Coyle_T2	1050	SCS50yr	8.77	177.73	178.45	178.23	178.47	0.00168	0.84	18.73	45.64	0.34
Coyle	Coyle_T2	1050	SCS100yr	10.49	177.73	178.5	178.26	178.52	0.001664	0.89	21.14	46.3	0.35
Coyle	Coyle_T2	1050	SCS200yr	30.55	177.73	178.91	178.46	178.95	0.001925	1.31	44.11	65.21	0.4
Coyle	Coyle_T2	1050	RSnow100yr	7.45	177.73	178.41	178.21	178.42	0.001695	0.81	16.79	45.21	0.34
Coyle	Coyle_T2	976	SCS2yr	2.2	177.48	178.03		178.04	0.001711	0.61	6.04	36.83	0.32
Coyle	Coyle_T2	976	SCS5yr	3.5	177.48	178.12		178.13	0.00143	0.65	9.61	41.62	0.3
Coyle	Coyle_T2	976	SCS10yr	4.79	177.48	178.18		178.2	0.001402	0.7	12.24	42.68	0.31
Coyle	Coyle_T2	976	SCS25yr	6.86	177.48	178.27		178.28	0.00141	0.77	15.95	45.77	0.31
Coyle	Coyle_T2	976	SCS50yr	8.77	177.48	178.33		178.35	0.001474	0.84	18.88	48.36	0.33
Coyle	Coyle_T2	976	SCS100yr	10.49	177.48	178.38		178.4	0.001548	0.9	21.34	51.28	0.34
Coyle	Coyle_T2	976	SCS200yr	30.55	177.48	178.78		178.82	0.001641	1.25	46.13	68.94	0.37
Coyle	Coyle_T2	976	RSnow100yr	7.45	177.48	178.29		178.31	0.001435	0.8	16.9	46.9	0.32
Coyle	Coyle_T2	878	SCS2yr	2.2	177.1	177.78	177.61	177.82	0.003172	0.89	2.94	15.95	0.44
Coyle	Coyle_T2	878	SCS5yr	3.5	177.1	177.86	177.71	177.92	0.003737	1.09	4.87	29.65	0.49
Coyle	Coyle_T2	878	SCS10yr	4.79	177.1	177.92	177.85	177.98	0.00382	1.19	6.78	32.95	0.51
Coyle	Coyle_T2	878	SCS25yr	6.86	177.1	178	177.93	178.06	0.003839	1.3	9.69	39.08	0.52
Coyle	Coyle_T2	878	SCS50yr	8.77	177.1	178.06	177.95	178.12	0.003764	1.37	12.05	40.43	0.52
Coyle	Coyle_T2	878	SCS100yr	10.49	177.1	178.11	178.02	178.17	0.003718	1.42	13.99	41.31	0.52
Coyle	Coyle_T2	878	SCS200yr	30.55	177.1	178.53	178.28	178.6	0.00311	1.74	36.9	76.17	0.51
Coyle	Coyle_T2	878	RSnow100yr	7.45	177.1	178.02	177.95	178.08	0.003825	1.33	10.44	39.5	0.52
Coyle	Coyle_T2	795	SCS2yr	2.2	176.95	177.62	177.48	177.63	0.001604	0.58	6.37	38.27	0.31
Coyle	Coyle_T2	795	SCS5yr	3.5	176.95	177.68	177.54	177.69	0.001876	0.69	8.68	40.12	0.34
Coyle	Coyle_T2	795	SCS10yr	4.79	176.95	177.73	177.58	177.75	0.002002	0.77	10.75	41.49	0.36
Coyle	Coyle_T2	795	SCS25yr	6.86	176.95	177.8	177.64	177.82	0.002131	0.87	13.9	45.63	0.38
Coyle	Coyle_T2	795	SCS50yr	8.77	176.95	177.84		177.87	0.002372	0.97	15.95	46.58	0.4
Coyle	Coyle_T2	795	SCS100yr	10.49	176.95	177.95		177.97	0.001507	0.86	21.23	48.83	0.33
Coyle	Coyle_T2	795	SCS200yr	30.55	176.95	178.36		178.4	0.001662	1.24	43.68	59.26	0.38
Coyle	Coyle_T2	795	RSnow100yr	7.45	176.95	177.82	177.65	177.84	0.00216	0.89	14.68	46.02	0.38
Coyle	Coyle_T2	705	SCS2yr	2.2	176.85	177.19	177.19	177.28	0.020977	1.44	1.93	13.6	1.01
Coyle	Coyle_T2	705	SCS5yr	3.5	176.85	177.3		177.37	0.010211	1.27	3.96	21.63	0.75
Coyle	Coyle_T2	705	SCS10yr	4.79	176.85	177.38		177.44	0.007401	1.25	5.88	26.39	0.66
Coyle	Coyle_T2	705	SCS25yr	6.86	176.85	177.51		177.55	0.00458	1.2	10.27	43.78	0.54
Coyle	Coyle_T2	705	SCS50yr	8.77	176.85	177.67		177.69	0.001786	0.9	18.15	51.95	0.36
Coyle	Coyle_T2	705	SCS100yr	10.49	176.85	177.88		177.89	0.000649	0.66	29.65	57.91	0.23
Coyle	Coyle_T2	705	SCS200yr	30.55	176.85	178.27		178.29	0.000977	1.03	55.99	75.29	0.29
Coyle	Coyle_T2	705	RSnow100yr	7.45	176.85	177.53		177.58	0.004367	1.2	11.33	46.08	0.54
Coyle	Coyle_T2	628	SCS2yr	2.2	176.5	177.17		177.17	0.000193	0.27	12.1	26.01	0.11
Coyle	Coyle_T2	628	SCS5yr	3.5	176.5	177.29		177.29	0.000257	0.35	15.66	39.59	0.14
Coyle	Coyle_T2	628	SCS10yr	4.79	176.5	177.34		177.35	0.000372	0.45	18.14	47.89	0.17
Coyle	Coyle_T2	628	SCS25yr	6.86	176.5	177.43		177.44	0.000615	0.62	23.12	60.01	0.22
Coyle	Coyle_T2	628	SCS50yr	8.77	176.5	177.63		177.64	0.000352	0.54	36.47	72.52	0.17
Coyle	Coyle_T2	628	SCS100yr	10.49	176.5	177.86		177.86	0.000172	0.43	54.03	79.48	0.12
Coyle	Coyle_T2	628	SCS200yr	30.55	176.5	178.23		178.24	0.000413	0.8	86.29	95.16	0.2
Coyle	Coyle_T2	628	RSnow100yr	7.45	176.5	177.45		177.46	0.000639	0.65	24.44	62.47	0.22
Coyle	Coyle_T2	541	SCS2yr	2.2	176.31	177.09	176.87	177.13	0.002443	0.9	4.24	26.7	0.39
Coyle	Coyle_T2	541	SCS5yr	3.5	176.31	177.2	177.06	177.23	0.002229	0.97	7.64	37.07	0.39
Coyle	Coyle_T2	541	SCS10yr	4.79	176.31	177.24	177.15	177.28	0.00235	1.05	11.77	59.8	0.4
Coyle	Coyle_T2	541	SCS25yr	6.86	176.31	177.3	177.21	177.34	0.002858	1.21	15.12	65.23	0.45
Coyle	Coyle_T2	541	SCS50yr	8.77	176.31	177.6	177.26	177.6	0.000445	0.6	38.71	86.72	0.19
Coyle	Coyle_T2	541	SCS100yr	10.49	176.31	177.85	177.3	177.85	0.00016	0.42	63.24	109.04	0.12
Coyle	Coyle_T2	541	SCS200yr	30.55	176.31	178.2	177.51	178.21	0.000336	0.71	104	121.68	0.18
Coyle	Coyle_T2	541	RSnow100yr	7.45	176.31	177.32	177.22	177.36	0.002789	1.22	16.52	66.93	0.45
Coyle	Coyle_T2	475	SCS2yr	2.2	176.12	176.76	176.66	176.85	0.007847	1.39	1.83	13.56	0.68
Coyle	Coyle_T2	475	SCS5yr	3.5	176.12	176.85	176.85	176.97	0.007976	1.6	4.17	34.81	0.71
Coyle	Coyle_T2	475	SCS10yr	4.79	176.12	176.93	176.93	177.02	0.006346	1.56	7.39	42.74	0.65
Coyle	Coyle_T2	475	SCS25yr	6.86	176.12	177.12	176.99	177.15	0.002336	1.14	15.8	45.72	0.41
Coyle	Coyle_T2	475	SCS50yr	8.77	176.12	177.57	177.03	177.58	0.000288	0.54	42.92	60.57	0.16
Coyle	Coyle_T2	475	SCS100yr	10.49	176.12	177.84	177.06	177.84	0.000162	0.46	59.65	66.02	0.12

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_T2	475	SCS200yr	30.55	176.12	178.16	177.3	178.18	0.000541	0.96	82.39	72.35	0.23
Coyle	Coyle_T2	475	RSnow100yr	7.45	176.12	177.09	177	177.14	0.003369	1.34	14.6	45.33	0.49
Coyle	Coyle_T2	380	SCS2yr	2.2	175.94	176.58	176.33	176.59	0.00123	0.55	5.73	33.87	0.27
Coyle	Coyle_T2	380	SCS5yr	3.5	175.94	176.66	176.42	176.68	0.001343	0.65	9.06	42.14	0.3
Coyle	Coyle_T2	380	SCS10yr	4.79	175.94	176.76	176.49	176.78	0.001078	0.66	13.79	49.86	0.27
Coyle	Coyle_T2	380	SCS25yr	6.86	175.94	177.08	176.59	177.08	0.000304	0.47	30.14	53.75	0.16
Coyle	Coyle_T2	380	SCS50yr	8.77	175.94	177.56	176.65	177.56	0.000078	0.31	57.56	61.31	0.08
Coyle	Coyle_T2	380	SCS100yr	10.49	175.94	177.83	176.68	177.83	0.000054	0.29	73.87	75.59	0.07
Coyle	Coyle_T2	380	SCS200yr	30.55	175.94	178.13	176.96	178.14	0.000238	0.69	100.81	85.02	0.16
Coyle	Coyle_T2	380	RSnow100yr	7.45	175.94	177.03	176.61	177.04	0.000461	0.55	27.51	53.21	0.19
Coyle	Coyle_T2	299	SCS2yr	2.2	175.89	176.43		176.45	0.002617	0.76	5.44	34.49	0.39
Coyle	Coyle_T2	299	SCS5yr	3.5	175.89	176.47		176.51	0.00374	0.98	7.08	36.05	0.48
Coyle	Coyle_T2	299	SCS10yr	4.79	175.89	176.67		176.69	0.001097	0.69	14.71	39.52	0.28
Coyle	Coyle_T2	299	SCS25yr	6.86	175.89	177.05		177.06	0.000284	0.48	30.56	44.03	0.15
Coyle	Coyle_T2	299	SCS50yr	8.77	175.89	177.55		177.56	0.00009	0.35	54.11	50.17	0.09
Coyle	Coyle_T2	299	SCS100yr	10.49	175.89	177.82		177.83	0.000067	0.34	68.05	53.39	0.08
Coyle	Coyle_T2	299	SCS200yr	30.55	175.89	178.11		178.12	0.000319	0.82	83.77	57.33	0.18
Coyle	Coyle_T2	299	RSnow100yr	7.45	175.89	176.99		177	0.000439	0.57	27.87	43.49	0.19
Coyle	Coyle_T2	202	SCS2yr	2.2	175.66	176.1		176.13	0.004553	0.87	4.14	31.53	0.5
Coyle	Coyle_T2	202	SCS5yr	3.5	175.66	176.22		176.24	0.002088	0.73	9.39	50.81	0.36
Coyle	Coyle_T2	202	SCS10yr	4.79	175.66	176.66		176.66	0.00012	0.28	33.42	59.26	0.1
Coyle	Coyle_T2	202	SCS25yr	6.86	175.66	177.05		177.05	0.000048	0.23	57.41	63.59	0.06
Coyle	Coyle_T2	202	SCS50yr	8.77	175.66	177.55		177.55	0.00002	0.18	90.84	69.4	0.04
Coyle	Coyle_T2	202	SCS100yr	10.49	175.66	177.82		177.82	0.000016	0.18	109.97	72.31	0.04
Coyle	Coyle_T2	202	SCS200yr	30.55	175.66	178.1		178.1	0.000083	0.45	130.66	76.08	0.09
Coyle	Coyle_T2	202	RSnow100yr	7.45	175.66	176.98		176.98	0.000071	0.27	53.31	62.97	0.08
Coyle	Coyle_T2	142	SCS2yr	2.2	175.13	175.84		175.89	0.003221	1.02	2.7	17.88	0.45
Coyle	Coyle_T2	142	SCS5yr	3.5	175.13	176.16		176.17	0.000663	0.64	11.89	38.56	0.22
Coyle	Coyle_T2	142	SCS10yr	4.79	175.13	176.65		176.65	0.000093	0.32	33.02	47.63	0.09
Coyle	Coyle_T2	142	SCS25yr	6.86	175.13	177.04		177.05	0.00005	0.28	53.25	55.38	0.07
Coyle	Coyle_T2	142	SCS50yr	8.77	175.13	177.55		177.55	0.000024	0.23	87.7	84.56	0.05
Coyle	Coyle_T2	142	SCS100yr	10.49	175.13	177.82		177.82	0.000018	0.22	112.05	93.37	0.04
Coyle	Coyle_T2	142	SCS200yr	30.55	175.13	178.09		178.1	0.000087	0.51	139.37	105.36	0.1
Coyle	Coyle_T2	142	RSnow100yr	7.45	175.13	176.98		176.98	0.000072	0.33	49.63	54.04	0.08
Coyle	Coyle_T2	79	SCS2yr	2.2	174.61	175.82	175.16	175.83	0.000324	0.5	10.75	49.22	0.16
Coyle	Coyle_T2	79	SCS5yr	3.5	174.61	176.15	175.3	176.16	0.000104	0.34	28.64	57.34	0.09
Coyle	Coyle_T2	79	SCS10yr	4.79	174.61	176.65	175.42	176.65	0.000028	0.22	59.41	68.28	0.05
Coyle	Coyle_T2	79	SCS25yr	6.86	174.61	177.04	175.77	177.04	0.000019	0.2	88.46	79.92	0.04
Coyle	Coyle_T2	79	SCS50yr	8.77	174.61	177.55	175.85	177.55	0.00001	0.17	131.93	89.9	0.03
Coyle	Coyle_T2	79	SCS100yr	10.49	174.61	177.82	175.89	177.82	0.000008	0.17	160.42	117.2	0.03
Coyle	Coyle_T2	79	SCS200yr	30.55	174.61	178.09	176.17	178.09	0.000044	0.4	194.3	131.55	0.07
Coyle	Coyle_T2	79	RSnow100yr	7.45	174.61	176.98	175.8	176.98	0.000026	0.24	83.19	78.01	0.05
Coyle	Coyle_T2	29	SCS2yr	2.2	174.12	175.82		175.82	0.000052	0.26	19.26	50.21	0.07
Coyle	Coyle_T2	29	SCS5yr	3.5	174.12	176.15		176.15	0.000031	0.23	37.56	61.2	0.05
Coyle	Coyle_T2	29	SCS10yr	4.79	174.12	176.65		176.65	0.000011	0.16	74.31	89.22	0.03
Coyle	Coyle_T2	29	SCS25yr	6.86	174.12	177.04		177.04	0.000008	0.15	112.41	103.57	0.03
Coyle	Coyle_T2	29	SCS50yr	8.77	174.12	177.55		177.55	0.000005	0.13	169.61	130.08	0.02
Coyle	Coyle_T2	29	SCS100yr	10.49	174.12	177.82		177.82	0.000004	0.12	205.37	134.63	0.02
Coyle	Coyle_T2	29	SCS200yr	30.55	174.12	178.09		178.09	0.000021	0.3	242.87	141.47	0.05
Coyle	Coyle_T2	29	RSnow100yr	7.45	174.12	176.98		176.98	0.000011	0.18	105.51	101.69	0.03
Coyle	Coyle_3	7409	SCS2yr	17.28	173.56	175.7		175.8	0.00112	1.47	21.16	50.06	0.33
Coyle	Coyle_3	7409	SCS5yr	23.98	173.56	176.07		176.14	0.000742	1.34	45.92	79.75	0.28
Coyle	Coyle_3	7409	SCS10yr	31	173.56	176.62		176.64	0.000284	0.95	93.42	94.56	0.18
Coyle	Coyle_3	7409	SCS25yr	40.56	173.56	177.02		177.04	0.000197	0.86	133.52	101.56	0.15
Coyle	Coyle_3	7409	SCS50yr	49.46	173.56	177.54		177.55	0.000115	0.73	187.33	107.01	0.12
Coyle	Coyle_3	7409	SCS100yr	57.43	173.56	177.81		177.82	0.000103	0.72	216.72	109.85	0.11
Coyle	Coyle_3	7409	SCS200yr	71.71	173.56	178.08		178.09	0.00011	0.77	246.93	112.41	0.12
Coyle	Coyle_3	7409	RSnow100yr	39.78	173.56	176.95		176.97	0.000219	0.9	126.54	101.09	0.16
Coyle	Coyle_3	7354	SCS2yr	17.28	173.44	175.66		175.74	0.000826	1.32	17.17	14.92	0.29
Coyle	Coyle_3	7354	SCS5yr	23.98	173.44	175.99		176.09	0.000908	1.52	22.69	22.46	0.31
Coyle	Coyle_3	7354	SCS10yr	31	173.44	176.53		176.61	0.000609	1.43	39.11	39.63	0.26
Coyle	Coyle_3	7354	SCS25yr	40.56	173.44	176.95		177.02	0.000509	1.42	60.04	66.1	0.25
Coyle	Coyle_3	7354	SCS50yr	49.46	173.44	177.5		177.53	0.000278	1.16	100.51	79.91	0.19
Coyle	Coyle_3	7354	SCS100yr	57.43	173.44	177.77		177.81	0.000241	1.13	128.1	114.85	0.18
Coyle	Coyle_3	7354	SCS200yr	71.71	173.44	178.05		178.08	0.00024	1.18	162.78	139.6	0.18
Coyle	Coyle_3	7354	RSnow100yr	39.78	173.44	176.87		176.95	0.00056	1.47	55.07	62.25	0.26
Coyle	Coyle_3	7291	SCS2yr	17.28	173.51	175.61		175.69	0.000842	1.29	16.33	12.39	0.29
Coyle	Coyle_3	7291	SCS5yr	23.98	173.51	175.93		176.03	0.000916	1.48	20.6	14.04	0.31
Coyle	Coyle_3	7291	SCS10yr	31	173.51	176.48		176.57	0.000662	1.45	29.91	21.07	0.27
Coyle	Coyle_3	7291	SCS25yr	40.56	173.51	176.88		176.98	0.00066	1.58	39.61	27.87	0.28
Coyle	Coyle_3	7291	SCS50yr	49.46	173.51	177.42		177.51	0.000506	1.53	63.04	71.08	0.25
Coyle	Coyle_3	7291	SCS100yr	57.43	173.51	177.71		177.78	0.00041	1.45	86.59	87.22	0.23
Coyle	Coyle_3	7291	SCS200yr	71.71	173.51	177.99		178.06	0.000384	1.46	111.84	96.52	0.22
Coyle	Coyle_3	7291	RSnow100yr	39.78	173.51	176.8		176.9	0.000704	1.6	37.53	26.44	0.29
Coyle	Coyle_3	7206	SCS2yr	17.28	173.41	175.56	174.46	175.62	0.000698	1.19	20.79	18.05	0.26
Coyle	Coyle_3	7206	SCS5yr	23.98	173.41	175.88	174.72	175.95	0.000726	1.33	27	20.25	0.28
Coyle	Coyle_3	7206	SCS10yr	31	173.41	176.46	174.97	176.52	0.000479	1.25	39.91	24.56	0.23
Coyle	Coyle_3	7206	SCS25yr	40.56	173.41	176.86	175.23	176.92	0.000464	1.34	49.99	26.2	0.23
Coyle	Coyle_3	7206	SCS50yr	49.46	173.41	177.41	175.41	177.46	0.000344	1.28	67.28	60.84	0.21
Coyle	Coyle_3	7206	SCS100yr	57.43	173.41	177.7	175.58	177.75	0.000314	1.28	88.13	86.72	0.2
Coyle	Coyle_3	7206	SCS200yr	71.71	173.41	177.97	175.83	178.02	0.000323	1.36	112.56	109.43	0.2
Coyle	Coyle_3	7206	RSnow100yr	39.78	173.41	176.78	175.21	176.84	0.000497	1.37	47.94	25.86	0.24
Coyle	Coyle_3	7167	SCS2yr	17.28	173.33	175.55	174.51	175.6	0.000155	0.56	21.31	20.46	0.12
Coyle	Coyle_3	7167	SCS5yr	23.98	173.33	175.88	174.74	175.93	0.000144	0.6	26.12	25.12	0.12
Coyle	Coyle_3	7167	SCS10yr	31	173.33	176.45	174.86	176.51	0.000088	0.54	34.67	36.83	0.1
Coyle	Coyle_3	7167	SCS25yr	40.56	173.33	176.86	175.02	176.91	0.000081	0.56	52.27	69.01	0.1
Coyle	Coyle_3	7167	SCS50yr	49.46	173.33	177.43	175.16	177.44	0.000024	0.34	121.22	103.56	0.05
Coyle	Coyle_3	7167	SCS100yr	57.43	173.33	177.72	175.28	177.72	0.000017	0.3	154.56	124.94	0.05
Coyle	Coyle_3	7167	SCS200yr	71.71	173.33	177.99	175.5	178	0.000015	0.3	191.57	144.63	0.04
Coyle	Coyle_3	7167	RSnow100yr	39.78	173.33	176.78	175	176.83	0.000076	0.54	48.85	58.82	0.09
Coyle	Coyle_3	7155		Culvert									
Coyle	Coyle_3	7138	SCS2yr	17.28	173.37	175.52	173.98	175.54	0.000171	0.61	28.91	41.38	0.13
Coyle	Coyle_3	7138	SCS5yr	23.98	173.37	175.8	174.12	175.83	0.000217	0.75	32.81	51.99	0.15
Coyle	Coyle_3	7138	SCS10yr	31	173.37	176.29	174.24	176.32	0.000195	0.8	39.57	71.36	0.15
Coyle	Coyle_3	7138	SCS25yr	40.56	173.37	176.53	174.4	176.56	0.000187	0.83	76	77.11	0.15
Coyle	Coyle_3	7138	SCS50yr	49.46	173.37	176.99	174.54	177.02	0.000156	0.83	103.81	101.94	0.14
Coyle	Coyle_3	7138	SCS100yr	57.43	173.37	177.43	174.66	177.46	0.000121	0.79	157.57	139.19	0.13
Coyle	Coyle_3	7138	SCS200yr	71.71	173.37	177.94	174.85	177.95	0.000085	0.71	236.04	184.05	0.11
Coyle	Coyle_3	7138	RSnow100yr	39.78	173.37	176.46	174.39	176.49	0.000197	0.84	72.63	75.61	0.15
Coyle	Coyle_3	7096	SCS2yr	17.28	173.39	175.51		175.53	0.00027	0.75	43.41	53.93	0.17
Coyle	Coyle_3	7096	SCS5yr	23.98	173.39	175.79		175.82	0.000265	0.81	59.34	60.34	0.17
Coyle	Coyle_3	7096	SCS10yr	31	173.39	176.29		176.3	0.000167	0.73	90.38	65.06	0.14

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_3	7096	SCS25yr	40.56	173.39	176.52		176.54	0.000192	0.83	105.98	66.86	0.15
Coyle	Coyle_3	7096	SCS50yr	49.46	173.39	176.99		177.01	0.000142	0.78	138	69.87	0.13
Coyle	Coyle_3	7096	SCS100yr	57.43	173.39	177.43		177.45	0.00011	0.75	169.45	73.29	0.12
Coyle	Coyle_3	7096	SCS200yr	71.71	173.39	177.94		177.95	0.000101	0.77	208.78	84.55	0.12
Coyle	Coyle_3	7096	RSnow100yr	39.78	173.39	176.46		176.48	0.000206	0.84	101.58	66.42	0.16
Coyle	Coyle_3	7036	SCS2yr	17.28	173.41	175.43	174.41	175.5	0.000863	1.24	18.02	26.43	0.29
Coyle	Coyle_3	7036	SCS5yr	23.98	173.41	175.76	174.62	175.8	0.000507	1.06	51.4	68.01	0.23
Coyle	Coyle_3	7036	SCS10yr	31	173.41	176.27	174.81	176.29	0.000247	0.85	87.54	72.04	0.16
Coyle	Coyle_3	7036	SCS25yr	40.56	173.41	176.51	175.05	176.53	0.000266	0.93	104.73	73.42	0.17
Coyle	Coyle_3	7036	SCS50yr	49.46	173.41	176.98	175.16	177	0.000181	0.85	140.58	78.4	0.15
Coyle	Coyle_3	7036	SCS100yr	57.43	173.41	177.43	175.66	177.44	0.000128	0.78	177.18	86.34	0.13
Coyle	Coyle_3	7036	SCS200yr	71.71	173.41	177.93	175.66	177.94	0.000106	0.76	223.71	102.58	0.12
Coyle	Coyle_3	7036	RSnow100yr	39.78	173.41	176.44	175.03	176.47	0.000291	0.96	99.77	73.05	0.18
Coyle	Coyle_3	7011	SCS2yr	17.28	173.37	175.43	174.22	175.47	0.000491	0.99	23.21	56.71	0.22
Coyle	Coyle_3	7011	SCS5yr	23.98	173.37	175.72	174.43	175.78	0.000581	1.18	27.84	97.71	0.25
Coyle	Coyle_3	7011	SCS10yr	31	173.37	176.21	174.63	176.27	0.000468	1.2	35.93	104.8	0.23
Coyle	Coyle_3	7011	SCS25yr	40.56	173.37	176.41	174.83	176.5	0.000618	1.45	39.24	107.98	0.27
Coyle	Coyle_3	7011	SCS50yr	49.46	173.37	176.88	175	176.97	0.00054	1.49	46.84	124.47	0.26
Coyle	Coyle_3	7011	SCS100yr	57.43	173.37	177.32	175.14	177.41	0.000472	1.51	54	143.05	0.24
Coyle	Coyle_3	7011	SCS200yr	71.71	173.37	177.93	175.36	177.94	0.000037	0.47	364.52	195.26	0.07
Coyle	Coyle_3	7011	RSnow100yr	39.78	173.37	176.35	174.82	176.44	0.000647	1.46	38.13	106.71	0.27
Coyle	Coyle_3	6996		Bridge									
Coyle	Coyle_3	6984	SCS2yr	17.28	173.14	175.36	174.13	175.42	0.000373	0.88	17.35	37.88	0.19
Coyle	Coyle_3	6984	SCS5yr	23.98	173.14	175.61	174.32	175.7	0.000467	1.06	19.62	48.45	0.22
Coyle	Coyle_3	6984	SCS10yr	31	173.14	175.8	174.47	175.95	0.000576	1.24	21.41	55.59	0.25
Coyle	Coyle_3	6984	SCS25yr	40.56	173.14	176.08	174.67	176.28	0.000674	1.44	23.9	64.24	0.28
Coyle	Coyle_3	6984	SCS50yr	49.46	173.14	176.34	174.86	176.59	0.000722	1.58	26.26	67.04	0.29
Coyle	Coyle_3	6984	SCS100yr	57.43	173.14	176.56	175.03	176.85	0.000758	1.7	28.24	74.22	0.3
Coyle	Coyle_3	6984	SCS200yr	71.71	173.14	176.76	175.33	177.17	0.000953	1.98	30.06	78.29	0.34
Coyle	Coyle_3	6984	RSnow100yr	39.78	173.14	176.05	174.66	176.25	0.000668	1.43	23.69	64	0.27
Coyle	Coyle_3	6952	SCS2yr	17.28	173.11	175.35		175.4	0.000493	1.02	21.36	28.18	0.23
Coyle	Coyle_3	6952	SCS5yr	23.98	173.11	175.61		175.67	0.000559	1.18	30.28	37.18	0.24
Coyle	Coyle_3	6952	SCS10yr	31	173.11	175.82		175.89	0.000597	1.29	38.4	39.31	0.26
Coyle	Coyle_3	6952	SCS25yr	40.56	173.11	176.12		176.19	0.000568	1.35	51.25	45	0.26
Coyle	Coyle_3	6952	SCS50yr	49.46	173.11	176.41		176.48	0.000503	1.36	65.08	51.67	0.24
Coyle	Coyle_3	6952	SCS100yr	57.43	173.11	176.66		176.72	0.000446	1.34	78.37	56.59	0.23
Coyle	Coyle_3	6952	SCS200yr	71.71	173.11	176.91		176.98	0.000462	1.44	93.25	60.52	0.24
Coyle	Coyle_3	6952	RSnow100yr	39.78	173.11	176.1		176.17	0.000574	1.35	50.1	44.66	0.26
Coyle	Coyle_3	6886	SCS2yr	17.28	173.14	175.31	174.14	175.36	0.000571	1.08	20.21	16.01	0.24
Coyle	Coyle_3	6886	SCS5yr	23.98	173.14	175.55	174.36	175.63	0.000709	1.3	24.54	19.17	0.27
Coyle	Coyle_3	6886	SCS10yr	31	173.14	175.79	174.57	175.85	0.000601	1.28	42.27	47.47	0.26
Coyle	Coyle_3	6886	SCS25yr	40.56	173.14	176.1	174.81	176.15	0.000518	1.28	57.38	49.82	0.24
Coyle	Coyle_3	6886	SCS50yr	49.46	173.14	176.39	174.99	176.44	0.000438	1.26	72.58	53.14	0.23
Coyle	Coyle_3	6886	SCS100yr	57.43	173.14	176.64	175.15	176.69	0.000385	1.24	86.02	55.3	0.22
Coyle	Coyle_3	6886	SCS200yr	71.71	173.14	176.89	175.48	176.94	0.000405	1.34	100.41	58.2	0.22
Coyle	Coyle_3	6886	RSnow100yr	39.78	173.14	176.07	174.79	176.13	0.000526	1.28	56.07	49.6	0.24
Coyle	Coyle_3	6811	SCS2yr	17.28	173.08	175.27		175.32	0.000551	1.05	21.75	30.31	0.24
Coyle	Coyle_3	6811	SCS5yr	23.98	173.08	175.51		175.57	0.000621	1.2	30.47	40.7	0.26
Coyle	Coyle_3	6811	SCS10yr	31	173.08	175.73		175.8	0.000646	1.31	40.8	54.34	0.27
Coyle	Coyle_3	6811	SCS25yr	40.56	173.08	176.06		176.11	0.000518	1.27	60.53	63.82	0.24
Coyle	Coyle_3	6811	SCS50yr	49.46	173.08	176.37		176.41	0.000398	1.19	81.24	73.2	0.22
Coyle	Coyle_3	6811	SCS100yr	57.43	173.08	176.62		176.66	0.000347	1.17	100.99	82.67	0.2
Coyle	Coyle_3	6811	SCS200yr	71.71	173.08	176.88		176.91	0.000331	1.21	122.66	85.55	0.2
Coyle	Coyle_3	6811	RSnow100yr	39.78	173.08	176.03		176.09	0.000531	1.28	58.76	63.34	0.25
Coyle	Coyle_3	6726	SCS2yr	17.28	173.12	175.22		175.27	0.000565	1.06	20.84	24.09	0.24
Coyle	Coyle_3	6726	SCS5yr	23.98	173.12	175.45		175.52	0.000654	1.23	31.16	51.81	0.26
Coyle	Coyle_3	6726	SCS10yr	31	173.12	175.68		175.75	0.000608	1.26	43.75	56.98	0.26
Coyle	Coyle_3	6726	SCS25yr	40.56	173.12	176.02		176.07	0.000468	1.21	63.9	62.27	0.23
Coyle	Coyle_3	6726	SCS50yr	49.46	173.12	176.34		176.38	0.000368	1.15	84.49	68.88	0.21
Coyle	Coyle_3	6726	SCS100yr	57.43	173.12	176.59		176.63	0.000308	1.1	102.88	76.23	0.19
Coyle	Coyle_3	6726	SCS200yr	71.71	173.12	176.85		176.89	0.000308	1.16	125.71	99.87	0.19
Coyle	Coyle_3	6726	RSnow100yr	39.78	173.12	175.99		176.04	0.00048	1.21	62.12	61.84	0.23
Coyle	Coyle_3	6643	SCS2yr	17.28	173.09	175.18		175.22	0.000536	1.03	24.25	27.67	0.23
Coyle	Coyle_3	6643	SCS5yr	23.98	173.09	175.41		175.46	0.000609	1.18	30.83	29.77	0.25
Coyle	Coyle_3	6643	SCS10yr	31	173.09	175.63		175.69	0.000643	1.29	38.15	40.57	0.26
Coyle	Coyle_3	6643	SCS25yr	40.56	173.09	175.97		176.03	0.000554	1.3	54.83	53.06	0.25
Coyle	Coyle_3	6643	SCS50yr	49.46	173.09	176.29		176.34	0.000439	1.25	72.81	57.85	0.23
Coyle	Coyle_3	6643	SCS100yr	57.43	173.09	176.56		176.6	0.000373	1.21	88.45	61.38	0.21
Coyle	Coyle_3	6643	SCS200yr	71.71	173.09	176.81		176.86	0.000386	1.3	104.44	64.77	0.22
Coyle	Coyle_3	6643	RSnow100yr	39.78	173.09	175.94		176	0.000567	1.31	53.26	52.64	0.25
Coyle	Coyle_3	6590	SCS2yr	17.28	173.08	175.15	173.96	175.2	0.000548	1.04	21.66	34.84	0.23
Coyle	Coyle_3	6590	SCS5yr	23.98	173.08	175.37	174.16	175.43	0.000647	1.21	30.7	46.34	0.26
Coyle	Coyle_3	6590	SCS10yr	31	173.08	175.6	174.34	175.66	0.000608	1.25	41.89	50.08	0.26
Coyle	Coyle_3	6590	SCS25yr	40.56	173.08	175.95	174.59	176	0.000477	1.21	60.22	55.18	0.23
Coyle	Coyle_3	6590	SCS50yr	49.46	173.08	176.28	174.78	176.32	0.000375	1.16	79.32	60.75	0.21
Coyle	Coyle_3	6590	SCS100yr	57.43	173.08	176.54	175.14	176.58	0.000321	1.13	96.05	65.69	0.2
Coyle	Coyle_3	6590	SCS200yr	71.71	173.08	176.79	175.49	176.84	0.000337	1.22	113.28	71	0.2
Coyle	Coyle_3	6590	RSnow100yr	39.78	173.08	175.92	174.56	175.97	0.000489	1.22	58.55	54.73	0.23
Coyle	Coyle_3	6552	SCS2yr	17.28	173.05	175.13	174.09	175.17	0.000591	1.06	26.65	40.62	0.24
Coyle	Coyle_3	6552	SCS5yr	23.98	173.05	175.35	174.31	175.4	0.000606	1.15	36.61	45.9	0.25
Coyle	Coyle_3	6552	SCS10yr	31	173.05	175.59	174.5	175.63	0.000555	1.18	47.76	49.17	0.24
Coyle	Coyle_3	6552	SCS25yr	40.56	173.05	175.94	174.96	175.98	0.000446	1.16	65.84	55.23	0.22
Coyle	Coyle_3	6552	SCS50yr	49.46	173.05	176.27	175.12	176.3	0.000353	1.11	85.22	61.65	0.2
Coyle	Coyle_3	6552	SCS100yr	57.43	173.05	176.53	175.26	176.57	0.000303	1.09	102.26	69.21	0.19
Coyle	Coyle_3	6552	SCS200yr	71.71	173.05	176.78	175.38	176.82	0.000344	1.22	120.9	102.46	0.21
Coyle	Coyle_3	6552	RSnow100yr	39.78	173.05	175.91	174.94	175.95	0.000456	1.16	64.16	54.6	0.23
Coyle	Coyle_3	6515	SCS2yr	17.28	172.87	175.12	173.82	175.15	0.000341	0.86	35.98	61.7	0.19
Coyle	Coyle_3	6515	SCS5yr	23.98	172.87	175.35	174.03	175.38	0.000346	0.93	51.43	73.66	0.19
Coyle	Coyle_3	6515	SCS10yr	31	172.87	175.59	174.22	175.61	0.000295	0.92	69.27	76.46	0.18
Coyle	Coyle_3	6515	SCS25yr	40.56	172.87	175.94	174.45	175.96	0.000216	0.85	96.98	80.4	0.16
Coyle	Coyle_3	6515	SCS50yr	49.46	172.87	176.27	175.01	176.29	0.000165	0.8	124.36	84.2	0.14
Coyle	Coyle_3	6515	SCS100yr	57.43	172.87	176.54	175.11	176.55	0.00014	0.78	147.26	89.57	0.13
Coyle	Coyle_3	6515	SCS200yr	71.71	172.87	176.79	175.25	176.81	0.000148	0.83	169.91	98.07	0.14
Coyle	Coyle_3	6515	RSnow100yr	39.78	172.87	175.91	174.43	175.93	0.000222	0.86	94.52	80.09	0.16
Coyle	Coyle_3	6429	SCS2yr	17.28	172.88	175.1	173.77	175.12	0.000305	0.81	37.07	63.87	0.18
Coyle	Coyle_3	6429	SCS5yr	23.98	172.88	175.32	173.97	175.35	0.000312	0.87	53.29	81.21	0.18
Coyle	Coyle_3	6429	SCS10yr	31	172.88	175.57	174.15	175.59	0.000264	0.86	75.42	98.35	0.17
Coyle	Coyle_3	6429	SCS25yr	40.56	172.88	175.92	174.35	175.94	0.00019	0.79	118.22	142.67	0.15
Coyle	Coyle_3	6429	SCS50yr	49.46	172.88	176.26	174.54	176.27	0.00012	0.68	169.48	161.56	0.12
Coyle	Coyle_3	6429	SCS100yr	57.43	172.88	176.53	175	176.54	0.00009	0.62	213.36	185.03	0.11
Coyle	Coyle_3	6429	SCS200yr	71.71	172.88	176.79	175.19	176.8	0.000086	0.64	266.71	217.97	0.1
Coyle	Coyle_3	6429	RSnow100yr	39.78	172.88	175.89	174.34	175.91	0.000198	0.81	113.77	139.9	0.15

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_3	6322	SCS2yr	17.28	172.87	175.08	173.75	175.09	0.000194	0.65	51.89	75.1	0.14
Coyle	Coyle_3	6322	SCS5yr	23.98	172.87	175.31	173.93	175.32	0.000188	0.68	69.22	77.38	0.14
Coyle	Coyle_3	6322	SCS10yr	31	172.87	175.55	174.11	175.56	0.000169	0.69	88.46	82.2	0.14
Coyle	Coyle_3	6322	SCS25yr	40.56	172.87	175.91	174.33	175.92	0.000128	0.66	128.57	135.14	0.12
Coyle	Coyle_3	6322	SCS50yr	49.46	172.87	176.26	174.81	176.26	0.00009	0.59	176.87	153.31	0.1
Coyle	Coyle_3	6322	SCS100yr	57.43	172.87	176.53	174.92	176.53	0.000072	0.56	216.88	172.89	0.09
Coyle	Coyle_3	6322	SCS200yr	71.71	172.87	176.78	175.03	176.79	0.000072	0.58	268.36	188.65	0.1
Coyle	Coyle_3	6322	RSnow100yr	39.78	172.87	175.88	174.31	175.89	0.000133	0.66	124.27	134.14	0.12
Coyle	Coyle_3	6248	SCS2yr	17.28	172.86	175.06	173.71	175.08	0.00024	0.72	38.55	44.36	0.16
Coyle	Coyle_3	6248	SCS5yr	23.98	172.86	175.28	173.89	175.3	0.000272	0.82	50.89	63.51	0.17
Coyle	Coyle_3	6248	SCS10yr	31	172.86	175.52	174.07	175.55	0.000252	0.84	66.97	67.86	0.17
Coyle	Coyle_3	6248	SCS25yr	40.56	172.86	175.89	174.42	175.91	0.000199	0.82	93.15	74.85	0.15
Coyle	Coyle_3	6248	SCS50yr	49.46	172.86	176.24	174.59	176.25	0.000158	0.78	120.08	88.73	0.14
Coyle	Coyle_3	6248	SCS100yr	57.43	172.86	176.51	174.73	176.52	0.000139	0.77	143.01	99.77	0.13
Coyle	Coyle_3	6248	SCS200yr	71.71	172.86	176.76	174.95	176.78	0.000152	0.85	174.18	112.39	0.14
Coyle	Coyle_3	6248	RSnow100yr	39.78	172.86	175.86	174.4	175.88	0.000204	0.82	90.75	73.84	0.15
Coyle	Coyle_3	6185	SCS2yr	17.28	172.84	175.05		175.06	0.000225	0.69	49.1	65.91	0.15
Coyle	Coyle_3	6185	SCS5yr	23.98	172.84	175.27		175.29	0.000226	0.74	64.29	69.65	0.15
Coyle	Coyle_3	6185	SCS10yr	31	172.84	175.52		175.53	0.000202	0.75	81.74	72.72	0.15
Coyle	Coyle_3	6185	SCS25yr	40.56	172.84	175.88		175.9	0.00016	0.73	109.85	80.74	0.14
Coyle	Coyle_3	6185	SCS50yr	49.46	172.84	176.23		176.24	0.000129	0.71	143.07	119.72	0.12
Coyle	Coyle_3	6185	SCS100yr	57.43	172.84	176.51		176.52	0.000108	0.68	177.72	132.56	0.11
Coyle	Coyle_3	6185	SCS200yr	71.71	172.84	176.76		176.77	0.000112	0.72	212.11	141.64	0.12
Coyle	Coyle_3	6185	RSnow100yr	39.78	172.84	175.85		175.86	0.000164	0.73	107.25	79.48	0.14
Coyle	Coyle_3	6131	SCS2yr	17.28	172.87	174.9	174.31	175.01	0.001972	1.81	18.69	40	0.42
Coyle	Coyle_3	6131	SCS5yr	23.98	172.87	175.16	174.52	175.24	0.00152	1.73	30.2	47.45	0.38
Coyle	Coyle_3	6131	SCS10yr	31	172.87	175.44	174.97	175.5	0.001056	1.57	47.84	76.63	0.32
Coyle	Coyle_3	6131	SCS25yr	40.56	172.87	175.86	175.1	175.88	0.000478	1.17	84.43	99.29	0.22
Coyle	Coyle_3	6131	SCS50yr	49.46	172.87	176.22	175.2	176.23	0.000281	0.97	122.9	115.15	0.17
Coyle	Coyle_3	6131	SCS100yr	57.43	172.87	176.5	175.31	176.51	0.000205	0.88	156.68	131.47	0.15
Coyle	Coyle_3	6131	SCS200yr	71.71	172.87	176.75	175.45	176.76	0.000201	0.91	193.61	157.07	0.15
Coyle	Coyle_3	6131	RSnow100yr	39.78	172.87	175.82	175.12	175.85	0.00051	1.2	81	98.33	0.23
Coyle	Coyle_3	6128		Culvert									
Coyle	Coyle_3	6123	SCS2yr	17.28	172.83	174.92	173.84	174.94	0.000434	0.87	34.57	51.56	0.2
Coyle	Coyle_3	6123	SCS5yr	23.98	172.83	175.2	174.04	175.23	0.000359	0.87	53.16	91.67	0.19
Coyle	Coyle_3	6123	SCS10yr	31	172.83	175.47	174.23	175.49	0.000269	0.81	80.16	110.33	0.17
Coyle	Coyle_3	6123	SCS25yr	40.56	172.83	175.86	174.68	175.87	0.000158	0.69	127.09	126.85	0.13
Coyle	Coyle_3	6123	SCS50yr	49.46	172.83	176.22	174.8	176.23	0.000105	0.6	174.5	138.44	0.11
Coyle	Coyle_3	6123	SCS100yr	57.43	172.83	176.49	174.89	176.5	0.000084	0.57	215.58	158.07	0.1
Coyle	Coyle_3	6123	SCS200yr	71.71	172.83	176.75	175.02	176.75	0.000081	0.59	256.88	163.37	0.1
Coyle	Coyle_3	6123	RSnow100yr	39.78	172.83	175.83	174.67	175.84	0.000165	0.7	122.8	125.39	0.13
Coyle	Coyle_3	6052	SCS2yr	17.28	172.8	174.86		174.91	0.000488	0.98	26.14	36.93	0.22
Coyle	Coyle_3	6052	SCS5yr	23.98	172.8	175.15		175.19	0.000478	1.06	37.96	48.09	0.22
Coyle	Coyle_3	6052	SCS10yr	31	172.8	175.41		175.46	0.000423	1.07	52.05	56.06	0.22
Coyle	Coyle_3	6052	SCS25yr	40.56	172.8	175.82		175.85	0.000322	1.03	77.04	71.98	0.19
Coyle	Coyle_3	6052	SCS50yr	49.46	172.8	176.19		176.21	0.000221	0.93	106.14	82.24	0.16
Coyle	Coyle_3	6052	SCS100yr	57.43	172.8	176.46		176.48	0.00018	0.88	129.24	86.07	0.15
Coyle	Coyle_3	6052	SCS200yr	71.71	172.8	176.72		176.74	0.000184	0.93	151.78	90.74	0.15
Coyle	Coyle_3	6052	RSnow100yr	39.78	172.8	175.79		175.82	0.000322	1.02	74.71	67.72	0.19
Coyle	Coyle_3	5980	SCS2yr	17.28	172.81	174.83		174.87	0.000481	0.95	28.21	49.19	0.22
Coyle	Coyle_3	5980	SCS5yr	23.98	172.81	175.12		175.15	0.000413	0.97	43.34	54.89	0.21
Coyle	Coyle_3	5980	SCS10yr	31	172.81	175.39		175.42	0.000348	0.96	59	58.98	0.19
Coyle	Coyle_3	5980	SCS25yr	40.56	172.81	175.81		175.83	0.00025	0.9	84.95	68.58	0.17
Coyle	Coyle_3	5980	SCS50yr	49.46	172.81	176.18		176.2	0.00019	0.85	112.54	79.12	0.15
Coyle	Coyle_3	5980	SCS100yr	57.43	172.81	176.45		176.47	0.000165	0.84	135.7	90.5	0.14
Coyle	Coyle_3	5980	SCS200yr	71.71	172.81	176.71		176.73	0.000176	0.91	159.97	98.7	0.15
Coyle	Coyle_3	5980	RSnow100yr	39.78	172.81	175.77		175.79	0.000256	0.91	82.61	67.75	0.17
Coyle	Coyle_3	5923	SCS2yr	17.28	172.82	174.79		174.84	0.000559	1.02	25.78	45.5	0.24
Coyle	Coyle_3	5923	SCS5yr	23.98	172.82	175.08		175.13	0.000497	1.05	40.45	53.78	0.23
Coyle	Coyle_3	5923	SCS10yr	31	172.82	175.36		175.4	0.00042	1.05	56.64	62.53	0.21
Coyle	Coyle_3	5923	SCS25yr	40.56	172.82	175.78		175.81	0.000292	0.97	86.47	79.76	0.18
Coyle	Coyle_3	5923	SCS50yr	49.46	172.82	176.16		176.19	0.000214	0.9	119.24	94.8	0.16
Coyle	Coyle_3	5923	SCS100yr	57.43	172.82	176.44		176.46	0.00018	0.87	146.59	101.71	0.15
Coyle	Coyle_3	5923	SCS200yr	71.71	172.82	176.7		176.72	0.00019	0.94	173.24	108.3	0.15
Coyle	Coyle_3	5923	RSnow100yr	39.78	172.82	175.75		175.78	0.000301	0.98	83.73	77.83	0.18
Coyle	Coyle_3	5854	SCS2yr	17.28	172.58	174.77		174.81	0.000365	0.89	25.51	25.83	0.19
Coyle	Coyle_3	5854	SCS5yr	23.98	172.58	175.04		175.09	0.000431	1.04	36.03	45.33	0.22
Coyle	Coyle_3	5854	SCS10yr	31	172.58	175.32		175.37	0.00043	1.12	48.9	50.63	0.22
Coyle	Coyle_3	5854	SCS25yr	40.56	172.58	175.73		175.79	0.000382	1.16	78.58	99.22	0.21
Coyle	Coyle_3	5854	SCS50yr	49.46	172.58	176.13		176.17	0.000265	1.05	122.08	117.53	0.18
Coyle	Coyle_3	5854	SCS100yr	57.43	172.58	176.42		176.45	0.000215	1	157.18	127.8	0.16
Coyle	Coyle_3	5854	SCS200yr	71.71	172.58	176.67		176.7	0.00022	1.05	190.73	136.08	0.17
Coyle	Coyle_3	5854	RSnow100yr	39.78	172.58	175.7		175.75	0.000394	1.17	74.97	96.35	0.21
Coyle	Coyle_3	5775	SCS2yr	17.28	172.55	174.73	173.44	174.77	0.000434	0.96	25.39	30.22	0.21
Coyle	Coyle_3	5775	SCS5yr	23.98	172.55	175.01	173.64	175.06	0.000481	1.09	36.01	46.15	0.23
Coyle	Coyle_3	5775	SCS10yr	31	172.55	175.28	173.81	175.34	0.000456	1.15	50.71	59.44	0.23
Coyle	Coyle_3	5775	SCS25yr	40.56	172.55	175.72	174.05	175.76	0.000326	1.07	81.17	83.38	0.2
Coyle	Coyle_3	5775	SCS50yr	49.46	172.55	176.12	174.21	176.15	0.000227	0.97	118.76	102.51	0.17
Coyle	Coyle_3	5775	SCS100yr	57.43	172.55	176.41	174.42	176.43	0.000185	0.93	149.22	108.99	0.15
Coyle	Coyle_3	5775	SCS200yr	71.71	172.55	176.66	174.89	176.69	0.000193	0.99	177.65	115.32	0.16
Coyle	Coyle_3	5775	RSnow100yr	39.78	172.55	175.68	174.03	175.72	0.000338	1.08	78.08	81.37	0.2
Coyle	Coyle_3	5707	SCS2yr	17.28	172.62	174.7		174.74	0.000449	0.94	30.26	39.61	0.21
Coyle	Coyle_3	5707	SCS5yr	23.98	172.62	174.98		175.02	0.000461	1.04	41.95	43.51	0.22
Coyle	Coyle_3	5707	SCS10yr	31	172.62	175.26		175.3	0.000436	1.1	54.77	48.31	0.22
Coyle	Coyle_3	5707	SCS25yr	40.56	172.62	175.7		175.73	0.000336	1.07	80.19	65.55	0.2
Coyle	Coyle_3	5707	SCS50yr	49.46	172.62	176.1		176.13	0.000254	1.01	108.36	74.28	0.18
Coyle	Coyle_3	5707	SCS100yr	57.43	172.62	176.39		176.42	0.000224	1	130.8	82.28	0.17
Coyle	Coyle_3	5707	SCS200yr	71.71	172.62	176.64		176.67	0.00025	1.11	152.79	94.44	0.18
Coyle	Coyle_3	5707	RSnow100yr	39.78	172.62	175.66		175.7	0.000344	1.07	77.75	64.08	0.2
Coyle	Coyle_3	5645	SCS2yr	17.28	172.59	174.67		174.71	0.00047	0.96	23.61	29.26	0.22
Coyle	Coyle_3	5645	SCS5yr	23.98	172.59	174.94		174.99	0.000527	1.11	34.13	43.48	0.24
Coyle	Coyle_3	5645	SCS10yr	31	172.59	175.22		175.27	0.000497	1.16	46.67	47.55	0.23
Coyle	Coyle_3	5645	SCS25yr	40.56	172.59	175.67		175.71	0.000367	1.12	73.46	81.9	0.21
Coyle	Coyle_3	5645	SCS50yr	49.46	172.59	176.08		176.11	0.000254	1.01	114.32	109.87	0.18
Coyle	Coyle_3	5645	SCS100yr	57.43	172.59	176.38		176.4	0.000212	0.98	152.54	156.28	0.16
Coyle	Coyle_3	5645	SCS200yr	71.71	172.59	176.63		176.65	0.000201	0.99	194.08	167.32	0.16
Coyle	Coyle_3	5645	RSnow100yr	39.78	172.59	175.63		175.67	0.000379	1.12	70.49	70.75	0.21
Coyle	Coyle_3	5575	SCS2yr	17.28	172.58	174.65		174.68	0.00037	0.85	39.77	56.91	0.19
Coyle	Coyle_3	5575	SCS5yr	23.98	172.58	174.93		174.96	0.000357	0.91	56.7	63.96	0.19
Coyle	Coyle_3	5575	SCS10yr	31	172.58	175.21		175.24	0.000319	0.93	76.2	72.19	0.19
Coyle	Coyle_3	5575	SCS25yr	40.56	172.58	175.66		175.68	0.00024	0.9	117.72	114.78	0.17
Coyle	Coyle_3	5575	SCS50yr	49.46	172.58	176.08		176.1	0.000158	0.8	168.2	130.66	0.14
Coyle	Coyle_3	5575	SCS100yr	57.43	172.58	176.37		176.39	0.000128	0.76	209.16	148.06	0.13

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_3	5575	SCS200yr	71.71	172.58	176.63		176.64	0.000133	0.81	246.83	149.68	0.13
Coyle	Coyle_3	5575	RSnow100yr	39.78	172.58	175.62		175.65	0.000248	0.91	113.32	110.56	0.17
Coyle	Coyle_3	5484	SCS2yr	17.28	172.61	174.61		174.64	0.000414	0.88	26.87	25.34	0.2
Coyle	Coyle_3	5484	SCS5yr	23.98	172.61	174.87		174.92	0.000473	1.03	35.38	37.7	0.22
Coyle	Coyle_3	5484	SCS10yr	31	172.61	175.15		175.2	0.000468	1.11	46.62	42.78	0.23
Coyle	Coyle_3	5484	SCS25yr	40.56	172.61	175.61		175.66	0.000367	1.1	69.81	56.88	0.21
Coyle	Coyle_3	5484	SCS50yr	49.46	172.61	176.04		176.08	0.000277	1.05	97.37	74.74	0.18
Coyle	Coyle_3	5484	SCS100yr	57.43	172.61	176.34		176.37	0.00024	1.03	121.47	87.31	0.17
Coyle	Coyle_3	5484	SCS200yr	71.71	172.61	176.58		176.62	0.00026	1.12	144.27	92.83	0.18
Coyle	Coyle_3	5484	RSnow100yr	39.78	172.61	175.57		175.62	0.000378	1.1	67.53	56.16	0.21
Coyle	Coyle_3	5398	SCS2yr	17.28	172.6	174.59		174.61	0.000269	0.71	30.41	42.47	0.17
Coyle	Coyle_3	5398	SCS5yr	23.98	172.6	174.85		174.88	0.00029	0.8	43.74	55.69	0.18
Coyle	Coyle_3	5398	SCS10yr	31	172.6	175.14		175.17	0.000257	0.82	60.82	63.66	0.17
Coyle	Coyle_3	5398	SCS25yr	40.56	172.6	175.61		175.63	0.000173	0.76	94.21	76.32	0.14
Coyle	Coyle_3	5398	SCS50yr	49.46	172.6	176.04		176.05	0.000123	0.7	128.55	82.84	0.12
Coyle	Coyle_3	5398	SCS100yr	57.43	172.6	176.34		176.35	0.000106	0.69	154.07	87.96	0.12
Coyle	Coyle_3	5398	SCS200yr	71.71	172.6	176.59		176.6	0.000117	0.76	177.91	110.4	0.12
Coyle	Coyle_3	5398	RSnow100yr	39.78	172.6	175.57		175.59	0.000179	0.77	91.11	75.29	0.14
Coyle	Coyle_3	5334	SCS2yr	17.28	172.59	174.55		174.59	0.000443	0.9	29.97	52.96	0.21
Coyle	Coyle_3	5334	SCS5yr	23.98	172.59	174.82		174.86	0.000414	0.95	44.5	55.14	0.21
Coyle	Coyle_3	5334	SCS10yr	31	172.59	175.12		175.15	0.000344	0.94	61.08	57.76	0.19
Coyle	Coyle_3	5334	SCS25yr	40.56	172.59	175.59		175.62	0.000227	0.87	91.13	68.74	0.16
Coyle	Coyle_3	5334	SCS50yr	49.46	172.59	176.03		176.05	0.00016	0.8	122.19	74.05	0.14
Coyle	Coyle_3	5334	SCS100yr	57.43	172.59	176.33		176.34	0.000138	0.79	145.29	87.47	0.13
Coyle	Coyle_3	5334	SCS200yr	71.71	172.59	176.57		176.59	0.000159	0.88	169.59	107.89	0.14
Coyle	Coyle_3	5334	RSnow100yr	39.78	172.59	175.55		175.57	0.000236	0.87	88.3	67.56	0.16
Coyle	Coyle_3	5259	SCS2yr	17.28	172.54	174.53		174.56	0.000398	0.86	30.79	41.91	0.2
Coyle	Coyle_3	5259	SCS5yr	23.98	172.54	174.79		174.83	0.000392	0.93	42.55	46.11	0.2
Coyle	Coyle_3	5259	SCS10yr	31	172.54	175.09		175.12	0.000338	0.95	56.8	49.92	0.19
Coyle	Coyle_3	5259	SCS25yr	40.56	172.54	175.57		175.6	0.000234	0.89	82.2	54.71	0.17
Coyle	Coyle_3	5259	SCS50yr	49.46	172.54	176.01		176.03	0.000174	0.84	107	58.16	0.15
Coyle	Coyle_3	5259	SCS100yr	57.43	172.54	176.31		176.33	0.000155	0.84	124.81	60.34	0.14
Coyle	Coyle_3	5259	SCS200yr	71.71	172.54	176.56		176.58	0.000181	0.95	142.51	86.02	0.15
Coyle	Coyle_3	5259	RSnow100yr	39.78	172.54	175.53		175.56	0.000242	0.89	79.92	54.38	0.17
Coyle	Coyle_3	5220	SCS2yr	17.28	172.48	174.51		174.54	0.000397	0.86	31.87	31.86	0.2
Coyle	Coyle_3	5220	SCS5yr	23.98	172.48	174.77		174.81	0.000437	0.99	41.16	38.15	0.21
Coyle	Coyle_3	5220	SCS10yr	31	172.48	175.07		175.11	0.000428	1.06	53.62	53.95	0.22
Coyle	Coyle_3	5220	SCS25yr	40.56	172.48	175.56		175.59	0.000277	0.97	86.69	75.25	0.18
Coyle	Coyle_3	5220	SCS50yr	49.46	172.48	176.01		176.03	0.00018	0.86	122.66	83.3	0.15
Coyle	Coyle_3	5220	SCS100yr	57.43	172.48	176.31		176.33	0.000146	0.82	148.31	86.31	0.14
Coyle	Coyle_3	5220	SCS200yr	71.71	172.48	176.55		176.57	0.000179	0.94	171.45	108.85	0.15
Coyle	Coyle_3	5220	RSnow100yr	39.78	172.48	175.52		175.55	0.00029	0.98	83.47	74.37	0.18
Coyle	Coyle_3	5186	SCS2yr	17.28	172	174.51	172.96	174.53	0.000204	0.68	30.53	52.64	0.15
Coyle	Coyle_3	5186	SCS5yr	23.98	172	174.77	173.12	174.8	0.000254	0.81	35.74	58.88	0.17
Coyle	Coyle_3	5186	SCS10yr	31	172	175.06	173.28	175.09	0.000275	0.91	41.54	92.64	0.18
Coyle	Coyle_3	5186	SCS25yr	40.56	172	175.53	173.47	175.58	0.000254	0.97	51.12	105.07	0.17
Coyle	Coyle_3	5186	SCS50yr	49.46	172	175.97	173.64	176.01	0.000234	1.02	59.79	116.66	0.17
Coyle	Coyle_3	5186	SCS100yr	57.43	172	176.31	173.8	176.32	0.000063	0.56	218.31	121.37	0.09
Coyle	Coyle_3	5186	SCS200yr	71.71	172	176.55	174.1	176.56	0.000077	0.65	251.08	150.64	0.1
Coyle	Coyle_3	5186	RSnow100yr	39.78	172	175.49	173.46	175.53	0.000257	0.97	50.29	104.33	0.17
Coyle	Coyle_3	5171		Bridge									
Coyle	Coyle_3	5158	SCS2yr	17.28	172.15	174.44	173.04	174.47	0.000151	0.56	27.33	64.56	0.12
Coyle	Coyle_3	5158	SCS5yr	23.98	172.15	174.67	173.2	174.7	0.000189	0.66	30.86	69.55	0.14
Coyle	Coyle_3	5158	SCS10yr	31	172.15	174.87	173.35	174.93	0.000219	0.76	34.17	73.52	0.15
Coyle	Coyle_3	5158	SCS25yr	40.56	172.15	175.15	173.55	175.23	0.000241	0.85	38.68	76.67	0.16
Coyle	Coyle_3	5158	SCS50yr	49.46	172.15	175.38	173.71	175.48	0.000259	0.94	42.37	82.34	0.17
Coyle	Coyle_3	5158	SCS100yr	57.43	172.15	175.63	173.82	175.64	0.000024	0.3	134.19	83.33	0.05
Coyle	Coyle_3	5158	SCS200yr	71.71	172.15	175.95	173.97	175.97	0.000021	0.3	161.19	84.62	0.05
Coyle	Coyle_3	5158	RSnow100yr	39.78	172.15	175.13	173.52	175.2	0.000241	0.85	38.27	76.25	0.16
Coyle	Coyle_3	5126	SCS2yr	17.28	172.36	174.44		174.46	0.000247	0.7	31.28	48.11	0.16
Coyle	Coyle_3	5126	SCS5yr	23.98	172.36	174.66		174.69	0.00029	0.81	43.78	58.62	0.18
Coyle	Coyle_3	5126	SCS10yr	31	172.36	174.87		174.91	0.000303	0.88	57.08	64.93	0.18
Coyle	Coyle_3	5126	SCS25yr	40.56	172.36	175.17		175.2	0.000279	0.91	76.3	66.28	0.18
Coyle	Coyle_3	5126	SCS50yr	49.46	172.36	175.41		175.44	0.000261	0.94	92.39	67.03	0.17
Coyle	Coyle_3	5126	SCS100yr	57.43	172.36	175.6		175.64	0.00025	0.96	105.51	67.49	0.17
Coyle	Coyle_3	5126	SCS200yr	71.71	172.36	175.93		175.96	0.000236	0.99	127.47	68.78	0.17
Coyle	Coyle_3	5126	RSnow100yr	39.78	172.36	175.14		175.17	0.000283	0.92	74.54	66.18	0.18
Coyle	Coyle_3	5049	SCS2yr	17.28	172.42	174.39		174.44	0.00047	0.92	24.61	32.6	0.22
Coyle	Coyle_3	5049	SCS5yr	23.98	172.42	174.61		174.66	0.000559	1.08	31.66	33.46	0.24
Coyle	Coyle_3	5049	SCS10yr	31	172.42	174.81		174.87	0.000608	1.2	38.53	33.84	0.25
Coyle	Coyle_3	5049	SCS25yr	40.56	172.42	175.1		175.17	0.000604	1.29	48.35	34.56	0.26
Coyle	Coyle_3	5049	SCS50yr	49.46	172.42	175.34		175.41	0.000602	1.37	56.59	35.13	0.26
Coyle	Coyle_3	5049	SCS100yr	57.43	172.42	175.53		175.6	0.000604	1.43	63.34	35.64	0.26
Coyle	Coyle_3	5049	SCS200yr	71.71	172.42	175.84		175.93	0.000605	1.54	74.73	36.68	0.27
Coyle	Coyle_3	5049	RSnow100yr	39.78	172.42	175.07		175.14	0.00061	1.29	47.43	34.49	0.26
Coyle	Coyle_3	4976	SCS2yr	17.28	172.63	174.3		174.38	0.001205	1.31	14.66	11.84	0.34
Coyle	Coyle_3	4976	SCS5yr	23.98	172.63	174.46		174.59	0.001613	1.63	16.68	12.5	0.4
Coyle	Coyle_3	4976	SCS10yr	31	172.63	174.62		174.79	0.001972	1.91	18.68	13.25	0.44
Coyle	Coyle_3	4976	SCS25yr	40.56	172.63	174.86		175.08	0.002174	2.17	22.02	14.46	0.48
Coyle	Coyle_3	4976	SCS50yr	49.46	172.63	175.05		175.31	0.002323	2.38	24.92	15.16	0.5
Coyle	Coyle_3	4976	SCS100yr	57.43	172.63	175.21		175.5	0.002457	2.55	27.3	15.69	0.52
Coyle	Coyle_3	4976	SCS200yr	71.71	172.63	175.46		175.82	0.002636	2.82	31.42	16.5	0.55
Coyle	Coyle_3	4976	RSnow100yr	39.78	172.63	174.83		175.05	0.002188	2.16	21.65	14.38	0.48
Coyle	Coyle_3	4918	SCS2yr	17.28	172.38	174.31		174.33	0.000253	0.67	29.99	24.43	0.16
Coyle	Coyle_3	4918	SCS5yr	23.98	172.38	174.49		174.52	0.000347	0.84	34.58	27.06	0.19
Coyle	Coyle_3	4918	SCS10yr	31	172.38	174.66		174.71	0.000425	0.98	39.41	29.66	0.21
Coyle	Coyle_3	4918	SCS25yr	40.56	172.38	174.92		174.98	0.00047	1.11	48.2	39.23	0.23
Coyle	Coyle_3	4918	SCS50yr	49.46	172.38	175.14		175.2	0.000484	1.19	57	41.28	0.23
Coyle	Coyle_3	4918	SCS100yr	57.43	172.38	175.31		175.38	0.000494	1.26	64.27	42.07	0.24
Coyle	Coyle_3	4918	SCS200yr	71.71	172.38	175.6		175.68	0.000502	1.35	76.76	43.57	0.25
Coyle	Coyle_3	4918	RSnow100yr	39.78	172.38	174.89		174.95	0.000474	1.11	47.15	38.96	0.23
Coyle	Coyle_3	4861	SCS2yr	17.28	172.39	174.3		174.32	0.000229	0.63	38.32	60.61	0.15
Coyle	Coyle_3	4861	SCS5yr	23.98	172.39	174.48		174.5	0.000291	0.76	49.1	61.48	0.17
Coyle	Coyle_3	4861	SCS10yr	31	172.39	174.65		174.68	0.000333	0.86	59.73	62.29	0.19
Coyle	Coyle_3	4861	SCS25yr	40.56	172.39	174.91		174.95	0.000334	0.93	76.39	63.5	0.19
Coyle	Coyle_3	4861	SCS50yr	49.46	172.39	175.13		175.17	0.000334	0.99	90.5	64.61	0.19
Coyle	Coyle_3	4861	SCS100yr	57.43	172.39	175.31		175.35	0.000336	1.03	101.94	65.36	0.2
Coyle	Coyle_3	4861	SCS200yr	71.71	172.39	175.6		175.65	0.000336	1.11	121.39	67.12	0.2
Coyle	Coyle_3	4861	RSnow100yr	39.78	172.39	174.89		174.92	0.000339	0.93	74.66	63.38	0.19
Coyle	Coyle_3	4786	SCS2yr	17.28	172.3	174.28		174.3	0.000281	0.72	41.69	53.97	0.17
Coyle	Coyle_3	4786	SCS5yr	23.98	172.3	174.45		174.48	0.000359	0.87	51.45	59.12	0.19
Coyle	Coyle_3	4786	SCS10yr	31	172.3	174.62		174.65	0.000411	0.98	61.71	62.94	0.21

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_3	4786	SCS25yr	40.56	172.3	174.88		174.92	0.000406	1.05	79.09	67.62	0.21
Coyle	Coyle_3	4786	SCS50yr	49.46	172.3	175.1		175.14	0.000399	1.1	94.43	70.47	0.21
Coyle	Coyle_3	4786	SCS100yr	57.43	172.3	175.28		175.32	0.000397	1.14	107.12	73.05	0.22
Coyle	Coyle_3	4786	SCS200yr	71.71	172.3	175.58		175.62	0.000391	1.21	129.33	77.7	0.22
Coyle	Coyle_3	4786	RSnow100yr	39.78	172.3	174.86		174.89	0.000413	1.05	77.21	67.25	0.21
Coyle	Coyle_3	4706	SCS2yr	17.28	172.27	174.25		174.28	0.000312	0.76	38.66	45.35	0.18
Coyle	Coyle_3	4706	SCS5yr	23.98	172.27	174.41		174.45	0.000411	0.92	46.25	48.31	0.21
Coyle	Coyle_3	4706	SCS10yr	31	172.27	174.58		174.62	0.000483	1.05	54.22	50.78	0.23
Coyle	Coyle_3	4706	SCS25yr	40.56	172.27	174.84		174.89	0.000493	1.14	68.18	55.53	0.23
Coyle	Coyle_3	4706	SCS50yr	49.46	172.27	175.06		175.11	0.00049	1.2	80.68	57.58	0.24
Coyle	Coyle_3	4706	SCS100yr	57.43	172.27	175.23		175.29	0.000492	1.26	90.93	59.3	0.24
Coyle	Coyle_3	4706	SCS200yr	71.71	172.27	175.53		175.58	0.000502	1.36	109.29	65.99	0.24
Coyle	Coyle_3	4706	RSnow100yr	39.78	172.27	174.81		174.86	0.000501	1.14	66.6	55.2	0.23
Coyle	Coyle_3	4615	SCS2yr	17.28	172.17	174.25		174.26	0.000077	0.39	58.08	55.78	0.09
Coyle	Coyle_3	4615	SCS5yr	23.98	172.17	174.41		174.42	0.000105	0.48	67.65	61.09	0.11
Coyle	Coyle_3	4615	SCS10yr	31	172.17	174.58		174.59	0.000126	0.56	77.86	66.09	0.12
Coyle	Coyle_3	4615	SCS25yr	40.56	172.17	174.84		174.86	0.00013	0.61	96.02	70.75	0.12
Coyle	Coyle_3	4615	SCS50yr	49.46	172.17	175.06		175.08	0.000131	0.64	112.07	73.74	0.12
Coyle	Coyle_3	4615	SCS100yr	57.43	172.17	175.24		175.26	0.000133	0.68	125.3	76.37	0.13
Coyle	Coyle_3	4615	SCS200yr	71.71	172.17	175.53		175.55	0.000135	0.73	148.52	81.7	0.13
Coyle	Coyle_3	4615	RSnow100yr	39.78	172.17	174.81		174.83	0.000132	0.61	94.01	70.16	0.12
Coyle	Coyle_3	4542	SCS2yr	17.28	172.15	174.25		174.25	0.000092	0.43	70.45	86.35	0.1
Coyle	Coyle_3	4542	SCS5yr	23.98	172.15	174.41		174.42	0.000114	0.5	84.75	91.08	0.11
Coyle	Coyle_3	4542	SCS10yr	31	172.15	174.57		174.58	0.000125	0.55	99.71	94.43	0.12
Coyle	Coyle_3	4542	SCS25yr	40.56	172.15	174.84		174.85	0.000117	0.57	125.84	100.53	0.11
Coyle	Coyle_3	4542	SCS50yr	49.46	172.15	175.06		175.07	0.00011	0.59	148.74	105.64	0.11
Coyle	Coyle_3	4542	SCS100yr	57.43	172.15	175.24		175.25	0.000108	0.61	167.93	111.1	0.11
Coyle	Coyle_3	4542	SCS200yr	71.71	172.15	175.53		175.54	0.000103	0.63	202.11	120.79	0.11
Coyle	Coyle_3	4542	RSnow100yr	39.78	172.15	174.81		174.82	0.00012	0.58	122.94	100.29	0.12
Coyle	Coyle_3	4451	SCS2yr	17.28	172.11	174.23	172.83	174.24	0.000163	0.57	46.25	59.02	0.13
Coyle	Coyle_3	4451	SCS5yr	23.98	172.11	174.38	172.98	174.4	0.00021	0.69	55.67	61.84	0.15
Coyle	Coyle_3	4451	SCS10yr	31	172.11	174.54	173.12	174.56	0.000245	0.78	65.82	68.17	0.16
Coyle	Coyle_3	4451	SCS25yr	40.56	172.11	174.81	173.3	174.83	0.000235	0.82	85.67	80.34	0.16
Coyle	Coyle_3	4451	SCS50yr	49.46	172.11	175.03	173.44	175.05	0.00022	0.84	104.98	89.78	0.16
Coyle	Coyle_3	4451	SCS100yr	57.43	172.11	175.21	173.68	175.23	0.000208	0.85	121.39	94.3	0.16
Coyle	Coyle_3	4451	SCS200yr	71.71	172.11	175.51	173.94	175.53	0.000187	0.86	150.82	103.1	0.15
Coyle	Coyle_3	4451	RSnow100yr	39.78	172.11	174.78	173.28	174.8	0.000241	0.82	83.3	79.39	0.16
Coyle	Coyle_3	4422	SCS2yr	17.28	172.07	174.22		174.24	0.000153	0.56	47.6	50.59	0.13
Coyle	Coyle_3	4422	SCS5yr	23.98	172.07	174.38		174.4	0.000205	0.68	55.5	52.06	0.15
Coyle	Coyle_3	4422	SCS10yr	31	172.07	174.53		174.55	0.000245	0.78	63.74	54.28	0.16
Coyle	Coyle_3	4422	SCS25yr	40.56	172.07	174.8		174.82	0.000248	0.84	78.65	65.3	0.17
Coyle	Coyle_3	4422	SCS50yr	49.46	172.07	175.02		175.05	0.000274	0.94	95.07	78.74	0.18
Coyle	Coyle_3	4422	SCS100yr	57.43	172.07	175.19		175.22	0.000267	0.96	109.65	84.26	0.18
Coyle	Coyle_3	4422	SCS200yr	71.71	172.07	175.49		175.52	0.000248	0.99	135.71	91.04	0.17
Coyle	Coyle_3	4422	RSnow100yr	39.78	172.07	174.77		174.79	0.000252	0.85	76.85	57.37	0.17
Coyle	Coyle_3	4355	SCS2yr	17.28	172.13	174.21		174.22	0.000177	0.6	31.65	24.13	0.13
Coyle	Coyle_3	4355	SCS5yr	23.98	172.13	174.35		174.38	0.000269	0.77	35.45	31.05	0.17
Coyle	Coyle_3	4355	SCS10yr	31	172.13	174.49		174.53	0.000353	0.92	41.46	52.03	0.19
Coyle	Coyle_3	4355	SCS25yr	40.56	172.13	174.76		174.8	0.000354	0.99	56.57	59.36	0.2
Coyle	Coyle_3	4355	SCS50yr	49.46	172.13	174.98		175.02	0.000338	1.03	70.02	61.48	0.2
Coyle	Coyle_3	4355	SCS100yr	57.43	172.13	175.16		175.2	0.000327	1.05	81.18	63.46	0.2
Coyle	Coyle_3	4355	SCS200yr	71.71	172.13	175.46		175.5	0.000308	1.09	100.76	67.74	0.19
Coyle	Coyle_3	4355	RSnow100yr	39.78	172.13	174.73		174.77	0.000362	1	54.76	59.13	0.2
Coyle	Coyle_1&2	4297	SCS2yr	26.3	172.07	174.21		174.22	0.000085	0.42	66.57	38.71	0.09
Coyle	Coyle_1&2	4297	SCS5yr	35.8	172.07	174.35		174.37	0.000124	0.54	72.23	39.54	0.12
Coyle	Coyle_1&2	4297	SCS10yr	44.76	172.07	174.5		174.52	0.000155	0.63	78.26	43.74	0.13
Coyle	Coyle_1&2	4297	SCS25yr	61.03	172.07	174.76		174.79	0.000201	0.76	91.08	51.95	0.15
Coyle	Coyle_1&2	4297	SCS50yr	75.39	172.07	174.98		175.01	0.000228	0.86	102.57	53.78	0.16
Coyle	Coyle_1&2	4297	SCS100yr	87.84	172.07	175.15		175.19	0.000249	0.93	112.16	56.56	0.17
Coyle	Coyle_1&2	4297	SCS200yr	110.16	172.07	175.44		175.49	0.000281	1.05	131.14	72.51	0.19
Coyle	Coyle_1&2	4297	RSnow100yr	58.91	172.07	174.73		174.76	0.000195	0.75	89.57	51.74	0.15
Coyle	Coyle_1&2	4212	SCS2yr	26.3	172.08	174.19	172.66	174.21	0.000146	0.56	51.51	30.33	0.12
Coyle	Coyle_1&2	4212	SCS5yr	35.8	172.08	174.33	172.78	174.35	0.000217	0.71	55.7	31.16	0.15
Coyle	Coyle_1&2	4212	SCS10yr	44.76	172.08	174.47	172.89	174.5	0.000273	0.83	60.07	31.9	0.17
Coyle	Coyle_1&2	4212	SCS25yr	61.03	172.08	174.71	173.06	174.76	0.000357	1.01	68.06	33.15	0.2
Coyle	Coyle_1&2	4212	SCS50yr	75.39	172.08	174.92	173.19	174.98	0.000414	1.15	75.04	34.36	0.22
Coyle	Coyle_1&2	4212	SCS100yr	87.84	172.08	175.09	173.31	175.16	0.000459	1.25	80.82	35.64	0.23
Coyle	Coyle_1&2	4212	SCS200yr	110.16	172.08	175.36	173.5	175.45	0.000527	1.42	90.8	37.77	0.25
Coyle	Coyle_1&2	4212	RSnow100yr	58.91	172.08	174.69	173.03	174.73	0.000345	0.99	67.16	33.01	0.2
Coyle	Coyle_1&2	4163	SCS2yr	26.3	172.09	174.19	172.67	174.2	0.000138	0.54	53.67	34.61	0.12
Coyle	Coyle_1&2	4163	SCS5yr	35.8	172.09	174.32	172.79	174.34	0.000204	0.68	58.37	36.4	0.15
Coyle	Coyle_1&2	4163	SCS10yr	44.76	172.09	174.46	172.89	174.49	0.000257	0.79	63.59	40.74	0.17
Coyle	Coyle_1&2	4163	SCS25yr	61.03	172.09	174.7	173.06	174.74	0.000324	0.96	74.42	46.69	0.19
Coyle	Coyle_1&2	4163	SCS50yr	75.39	172.09	174.91	173.2	174.96	0.000358	1.06	84.52	49.99	0.2
Coyle	Coyle_1&2	4163	SCS100yr	87.84	172.09	175.08	173.31	175.14	0.000379	1.13	93.09	53.09	0.21
Coyle	Coyle_1&2	4163	SCS200yr	110.16	172.09	175.35	173.49	175.42	0.000408	1.25	108.98	65.3	0.22
Coyle	Coyle_1&2	4163	RSnow100yr	58.91	172.09	174.67	173.04	174.72	0.000315	0.93	73.17	46.14	0.19
Coyle	Coyle_1&2	4097	SCS2yr	26.3	172.07	174.16	172.8	174.19	0.000271	0.75	39.28	24.26	0.17
Coyle	Coyle_1&2	4097	SCS5yr	35.8	172.07	174.28	172.95	174.32	0.00041	0.95	42.18	24.8	0.21
Coyle	Coyle_1&2	4097	SCS10yr	44.76	172.07	174.4	173.08	174.46	0.000523	1.12	45.27	25.32	0.24
Coyle	Coyle_1&2	4097	SCS25yr	61.03	172.07	174.62	173.28	174.71	0.000694	1.37	50.94	26.24	0.28
Coyle	Coyle_1&2	4097	SCS50yr	75.39	172.07	174.81	173.45	174.92	0.000813	1.56	55.92	27.09	0.3
Coyle	Coyle_1&2	4097	SCS100yr	87.84	172.07	174.96	173.58	175.09	0.000904	1.7	60	27.76	0.32
Coyle	Coyle_1&2	4097	SCS200yr	110.16	172.07	175.2	173.81	175.37	0.001049	1.94	66.88	28.87	0.35
Coyle	Coyle_1&2	4097	RSnow100yr	58.91	172.07	174.6	173.26	174.68	0.000669	1.34	50.32	26.13	0.27
Coyle	Coyle_1&2	4015	SCS2yr	26.3	171.68	174.16		174.17	0.000143	0.6	62.28	55.22	0.12
Coyle	Coyle_1&2	4015	SCS5yr	35.8	171.68	174.27		174.29	0.000206	0.75	68.96	57.83	0.15
Coyle	Coyle_1&2	4015	SCS10yr	44.76	171.68	174.4		174.42	0.000251	0.86	76.37	60.52	0.17
Coyle	Coyle_1&2	4015	SCS25yr	61.03	171.68	174.63		174.66	0.000306	1	90.78	65.99	0.19
Coyle	Coyle_1&2	4015	SCS50yr	75.39	171.68	174.82		174.86	0.000352	1.12	105.23	95.63	0.2
Coyle	Coyle_1&2	4015	SCS100yr	87.84	171.68	174.98		175.02	0.000382	1.2	122.08	122.58	0.21
Coyle	Coyle_1&2	4015	SCS200yr	110.16	171.68	175.25		175.29	0.000362	1.24	157.12	134.67	0.21
Coyle	Coyle_1&2	4015	RSnow100yr	58.91	171.68	174.6		174.63	0.000298	0.98	89.16	65.4	0.19
Coyle	Coyle_1&2	3917	SCS2yr	26.3	171.68	174.15		174.16	0.000126	0.57	83.78	93.2	0.12
Coyle	Coyle_1&2	3917	SCS5yr	35.8	171.68	174.26		174.28	0.000176	0.69	94.65	96.44	0.14
Coyle	Coyle_1&2	3917	SCS10yr	44.76	171.68	174.38		174.4	0.000205	0.77	106.78	100.02	0.15
Coyle	Coyle_1&2	3917	SCS25yr	61.03	171.68	174.61		174.63	0.000239	0.88	130.75	110.88	0.17
Coyle	Coyle_1&2	3917	SCS50yr	75.39	171.68	174.81		174.83	0.000245	0.93	152.97	116.06	0.17
Coyle	Coyle_1&2	3917	SCS100yr	87.84	171.68	174.97		174.99	0.000249	0.97	171.65	121.4	0.17
Coyle	Coyle_1&2	3917	SCS200yr	110.16	171.68	175.23		175.26	0.000255	1.04	205.61	134.41	0.18
Coyle	Coyle_1&2	3917	RSnow100yr	58.91	171.68	174.59		174.61	0.000235	0.87	128.02	110.34	0.16
Coyle	Coyle_1&2	3816	SCS2yr	26.3	171.17	174.14		174.15	0.000053	0.41	129.96	111.11	0.08
Coyle	Coyle_1&2	3816	SCS5yr	35.8	171.17	174.26		174.26	0.000076	0.51	142.69	112.86	0.09

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_1&2	3816	SCS10yr	44.76	171.17	174.38		174.39	0.000091	0.57	156.66	114.59	0.1
Coyle	Coyle_1&2	3816	SCS25yr	61.03	171.17	174.6		174.61	0.000115	0.67	183.14	123.16	0.12
Coyle	Coyle_1&2	3816	SCS50yr	75.39	171.17	174.8		174.81	0.000126	0.73	207.96	129.83	0.12
Coyle	Coyle_1&2	3816	SCS100yr	87.84	171.17	174.96		174.97	0.000131	0.77	228.6	132.23	0.13
Coyle	Coyle_1&2	3816	SCS200yr	110.16	171.17	175.23		175.24	0.000135	0.82	264.56	136.24	0.13
Coyle	Coyle_1&2	3816	RSnow100yr	58.91	171.17	174.58		174.59	0.000111	0.66	180.18	121.37	0.12
Coyle	Coyle_1&2	3787	SCS2yr	26.3	171.18	174.14		174.14	0.000022	0.27	200.06	165.65	0.05
Coyle	Coyle_1&2	3787	SCS5yr	35.8	171.18	174.26		174.26	0.000032	0.33	219.08	168.16	0.06
Coyle	Coyle_1&2	3787	SCS10yr	44.76	171.18	174.38		174.38	0.00004	0.38	240.34	177.93	0.07
Coyle	Coyle_1&2	3787	SCS25yr	61.03	171.18	174.61		174.61	0.000047	0.43	281.28	183.28	0.08
Coyle	Coyle_1&2	3787	SCS50yr	75.39	171.18	174.8		174.81	0.00005	0.46	317.51	186.63	0.08
Coyle	Coyle_1&2	3787	SCS100yr	87.84	171.18	174.96		174.96	0.000052	0.48	347.16	189.34	0.08
Coyle	Coyle_1&2	3787	SCS200yr	110.16	171.18	175.23		175.23	0.000055	0.52	398.62	195.67	0.08
Coyle	Coyle_1&2	3787	RSnow100yr	58.91	171.18	174.58		174.59	0.000046	0.42	276.82	182.92	0.07
Coyle	Coyle_1&2	3734	SCS2yr	26.3	171.17	174.14		174.14	0.000041	0.36	129.95	89.6	0.07
Coyle	Coyle_1&2	3734	SCS5yr	35.8	171.17	174.25		174.26	0.000061	0.46	140.09	91.52	0.08
Coyle	Coyle_1&2	3734	SCS10yr	44.76	171.17	174.37		174.38	0.000078	0.53	151.39	94.62	0.1
Coyle	Coyle_1&2	3734	SCS25yr	61.03	171.17	174.6		174.61	0.000102	0.64	173.12	99.76	0.11
Coyle	Coyle_1&2	3734	SCS50yr	75.39	171.17	174.79		174.8	0.000116	0.71	192.95	104.5	0.12
Coyle	Coyle_1&2	3734	SCS100yr	87.84	171.17	174.95		174.96	0.000126	0.76	209.51	107.88	0.13
Coyle	Coyle_1&2	3734	SCS200yr	110.16	171.17	175.21		175.23	0.000139	0.83	239.16	121.12	0.13
Coyle	Coyle_1&2	3734	RSnow100yr	58.91	171.17	174.57		174.58	0.000098	0.62	170.73	99.09	0.11
Coyle	Coyle_1&2	3676	SCS2yr	26.3	171.15	174.13		174.14	0.000078	0.5	104.61	69.09	0.09
Coyle	Coyle_1&2	3676	SCS5yr	35.8	171.15	174.24		174.25	0.00012	0.64	112.1	69.81	0.12
Coyle	Coyle_1&2	3676	SCS10yr	44.76	171.15	174.36		174.37	0.000154	0.75	120.36	70.64	0.14
Coyle	Coyle_1&2	3676	SCS25yr	61.03	171.15	174.58		174.6	0.000206	0.9	135.92	72.49	0.16
Coyle	Coyle_1&2	3676	SCS50yr	75.39	171.15	174.77		174.79	0.000241	1.01	149.81	74.15	0.17
Coyle	Coyle_1&2	3676	SCS100yr	87.84	171.15	174.92		174.95	0.000267	1.1	161.22	75.31	0.18
Coyle	Coyle_1&2	3676	SCS200yr	110.16	171.15	175.18		175.22	0.000304	1.23	181.15	77.92	0.2
Coyle	Coyle_1&2	3676	RSnow100yr	58.91	171.15	174.55		174.57	0.000199	0.88	134.25	72.27	0.15
Coyle	Coyle_1&2	3630	SCS2yr	26.3	171.16	174.13		174.14	0.000077	0.5	127.95	92.99	0.09
Coyle	Coyle_1&2	3630	SCS5yr	35.8	171.16	174.24		174.25	0.000117	0.63	137.99	95.66	0.12
Coyle	Coyle_1&2	3630	SCS10yr	44.76	171.16	174.35		174.37	0.000148	0.73	149.3	97.65	0.13
Coyle	Coyle_1&2	3630	SCS25yr	61.03	171.16	174.57		174.59	0.000192	0.87	170.97	102.37	0.15
Coyle	Coyle_1&2	3630	SCS50yr	75.39	171.16	174.76		174.78	0.000218	0.96	190.7	106.02	0.16
Coyle	Coyle_1&2	3630	SCS100yr	87.84	171.16	174.91		174.93	0.000237	1.03	207.15	109.28	0.17
Coyle	Coyle_1&2	3630	SCS200yr	110.16	171.16	175.17		175.2	0.000257	1.12	236.09	111.97	0.18
Coyle	Coyle_1&2	3630	RSnow100yr	58.91	171.16	174.55		174.56	0.000186	0.85	168.62	101.94	0.15
Coyle	Coyle_1&2	3573	SCS2yr	26.3	171.18	174.11	172.25	174.13	0.000145	0.68	84.45	96.54	0.13
Coyle	Coyle_1&2	3573	SCS5yr	35.8	171.18	174.21	172.46	174.24	0.000219	0.85	94.14	100.29	0.16
Coyle	Coyle_1&2	3573	SCS10yr	44.76	171.18	174.33	172.65	174.35	0.000268	0.97	105.46	101.16	0.18
Coyle	Coyle_1&2	3573	SCS25yr	61.03	171.18	174.54	173.05	174.57	0.000322	1.11	127.11	102.5	0.2
Coyle	Coyle_1&2	3573	SCS50yr	75.39	171.18	174.73	173.36	174.76	0.000346	1.19	146.51	103.64	0.21
Coyle	Coyle_1&2	3573	SCS100yr	87.84	171.18	174.88	173.52	174.92	0.000361	1.25	162.37	104.8	0.21
Coyle	Coyle_1&2	3573	SCS200yr	110.16	171.18	175.14	173.74	175.18	0.000379	1.35	190.05	108.68	0.22
Coyle	Coyle_1&2	3573	RSnow100yr	58.91	171.18	174.52	173.01	174.55	0.000314	1.09	124.82	102.39	0.19
Coyle	Coyle_1&2	3530	SCS2yr	26.3	171.14	174.11		174.12	0.000102	0.58	95.69	86.06	0.11
Coyle	Coyle_1&2	3530	SCS5yr	35.8	171.14	174.21		174.23	0.000156	0.73	104.31	90.01	0.13
Coyle	Coyle_1&2	3530	SCS10yr	44.76	171.14	174.32		174.34	0.000197	0.84	114.64	94.89	0.15
Coyle	Coyle_1&2	3530	SCS25yr	61.03	171.14	174.53		174.56	0.000243	0.97	135.24	100.49	0.17
Coyle	Coyle_1&2	3530	SCS50yr	75.39	171.14	174.72		174.75	0.000272	1.07	154.58	108.16	0.18
Coyle	Coyle_1&2	3530	SCS100yr	87.84	171.14	174.87		174.9	0.000281	1.11	171.26	110.93	0.19
Coyle	Coyle_1&2	3530	SCS200yr	110.16	171.14	175.13		175.16	0.000289	1.18	201.24	119.41	0.19
Coyle	Coyle_1&2	3530	RSnow100yr	58.91	171.14	174.51		174.53	0.000236	0.95	133.02	99.76	0.17
Coyle	Coyle_1&2	3500	SCS2yr	26.3	171.14	174.09	172.16	174.12	0.000175	0.75	49.15	38.37	0.14
Coyle	Coyle_1&2	3500	SCS5yr	35.8	171.14	174.21	172.37	174.22	0.000146	0.7	95.4	84.21	0.13
Coyle	Coyle_1&2	3500	SCS10yr	44.76	171.14	174.32	172.55	174.34	0.000182	0.81	104.79	86.29	0.15
Coyle	Coyle_1&2	3500	SCS25yr	61.03	171.14	174.52	172.85	174.55	0.00023	0.95	124.88	103.79	0.17
Coyle	Coyle_1&2	3500	SCS50yr	75.39	171.14	174.71	173.08	174.74	0.000268	1.06	144.73	111.88	0.18
Coyle	Coyle_1&2	3500	SCS100yr	87.84	171.14	174.86	173.24	174.89	0.000274	1.1	161.97	114.2	0.18
Coyle	Coyle_1&2	3500	SCS200yr	110.16	171.14	175.12	173.52	175.16	0.000278	1.16	192.46	121.19	0.19
Coyle	Coyle_1&2	3500	RSnow100yr	58.91	171.14	174.5	172.81	174.53	0.000223	0.93	122.61	102.87	0.16
Coyle	Coyle_1&2	3431	SCS2yr	26.3	171.14	174.1		174.1	0.000081	0.51	90.83	61.62	0.1
Coyle	Coyle_1&2	3431	SCS5yr	35.8	171.14	174.2		174.21	0.000124	0.65	97.15	62.23	0.12
Coyle	Coyle_1&2	3431	SCS10yr	44.76	171.14	174.31		174.32	0.000161	0.76	103.88	62.92	0.14
Coyle	Coyle_1&2	3431	SCS25yr	61.03	171.14	174.51		174.53	0.000216	0.91	116.91	64.26	0.16
Coyle	Coyle_1&2	3431	SCS50yr	75.39	171.14	174.69		174.72	0.000252	1.02	128.66	65.4	0.18
Coyle	Coyle_1&2	3431	SCS100yr	87.84	171.14	174.84		174.87	0.000276	1.1	138.49	66.41	0.19
Coyle	Coyle_1&2	3431	SCS200yr	110.16	171.14	175.1		175.14	0.000311	1.22	155.61	68.2	0.2
Coyle	Coyle_1&2	3431	RSnow100yr	58.91	171.14	174.49		174.51	0.000208	0.89	115.54	64.12	0.16
Coyle	Coyle_1&2	3352	SCS2yr	26.3	171.13	174.09	172.2	174.1	0.000079	0.5	87.86	58.67	0.1
Coyle	Coyle_1&2	3352	SCS5yr	35.8	171.13	174.19	172.44	174.2	0.000123	0.64	93.68	59.34	0.12
Coyle	Coyle_1&2	3352	SCS10yr	44.76	171.13	174.29	172.72	174.31	0.000162	0.76	99.92	60.02	0.14
Coyle	Coyle_1&2	3352	SCS25yr	61.03	171.13	174.49	173.04	174.52	0.00022	0.92	112.04	61.43	0.16
Coyle	Coyle_1&2	3352	SCS50yr	75.39	171.13	174.67	173.18	174.7	0.00026	1.03	123.07	62.51	0.18
Coyle	Coyle_1&2	3352	SCS100yr	87.84	171.13	174.82	173.28	174.85	0.000275	1.09	146.53	84.98	0.18
Coyle	Coyle_1&2	3352	SCS200yr	110.16	171.13	175.07	173.43	175.11	0.000306	1.21	168.42	88.39	0.2
Coyle	Coyle_1&2	3352	RSnow100yr	58.91	171.13	174.47	173.02	174.5	0.000212	0.9	110.78	61.23	0.16
Coyle	Coyle_1&2	3296	SCS2yr	26.3	171.22	174.08	172.25	174.09	0.000144	0.67	75.27	48.59	0.13
Coyle	Coyle_1&2	3296	SCS5yr	35.8	171.22	174.17	172.46	174.19	0.000231	0.87	79.62	49.23	0.16
Coyle	Coyle_1&2	3296	SCS10yr	44.76	171.22	174.26	172.65	174.3	0.000313	1.03	84.34	50.12	0.19
Coyle	Coyle_1&2	3296	SCS25yr	61.03	171.22	174.45	173.06	174.5	0.000434	1.26	101.3	69.12	0.23
Coyle	Coyle_1&2	3296	SCS50yr	75.39	171.22	174.61	173.24	174.68	0.000515	1.42	113.16	72.77	0.25
Coyle	Coyle_1&2	3296	SCS100yr	87.84	171.22	174.76	173.36	174.83	0.000571	1.54	123.59	75.19	0.26
Coyle	Coyle_1&2	3296	SCS200yr	110.16	171.22	175	173.57	175.08	0.000644	1.71	142.07	77.82	0.28
Coyle	Coyle_1&2	3296	RSnow100yr	58.91	171.22	174.43	173	174.48	0.000416	1.23	100.02	68.9	0.22
Coyle	Coyle_1&2	3211	SCS2yr	26.3	171.14	174.06		174.08	0.000156	0.69	67.72	48.21	0.13
Coyle	Coyle_1&2	3211	SCS5yr	35.8	171.14	174.14		174.17	0.000255	0.9	71.53	48.66	0.17
Coyle	Coyle_1&2	3211	SCS10yr	44.76	171.14	174.22		174.27	0.000349	1.08	75.69	49.12	0.2
Coyle	Coyle_1&2	3211	SCS25yr	61.03	171.14	174.39		174.46	0.000507	1.35	83.97	50.25	0.25
Coyle	Coyle_1&2	3211	SCS50yr	75.39	171.14	174.54		174.63	0.000627	1.55	91.68	51.45	0.28
Coyle	Coyle_1&2	3211	SCS100yr	87.84	171.14	174.67		174.77	0.000721	1.71	98.27	52.81	0.3
Coyle	Coyle_1&2	3211	SCS200yr	110.16	171.14	174.89		175.02	0.000864	1.95	109.98	54.99	0.33
Coyle	Coyle_1&2	3211	RSnow100yr	58.91	171.14	174.38		174.44	0.000483	1.31	83.19	50.13	0.24
Coyle	Coyle_1&2	3142	SCS2yr	26.3	171.1	174.05		174.07	0.000134	0.64	77.49	60.54	0.12
Coyle	Coyle_1&2	3142	SCS5yr	35.8	171.1	174.13		174.15	0.000218	0.84	81.99	61	0.16
Coyle	Coyle_1&2	3142	SCS10yr	44.76	171.1	174.21		174.24	0.000298	1	86.94	61.65	0.19
Coyle	Coyle_1&2	3142	SCS25yr	61.03	171.1	174.37		174.42	0.000431	1.24	96.97	63.28	0.23
Coyle	Coyle_1&2	3142	SCS50yr	75.39	171.1	174.52		174.58	0.000526	1.42	106.41	64.3	0.25
Coyle	Coyle_1&2	3142	SCS100yr	87.84	171.1	174.64		174.72	0.000599	1.55	114.45	65.52	0.27
Coyle	Coyle_1&2	3142	SCS200yr	110.16	171.1	174.85		174.95	0.000707	1.75	128.79	67.92	0.3
Coyle	Coyle_1&2	3142	RSnow100yr	58.91	171.1	174.35		174.4	0.000411	1.21	96.04	63.18	0.22
Coyle	Coyle_1&2	3049	SCS2yr	26.3	171.16	174.04		174.06	0.000099	0.56	87.52	64.64	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_1&2	3049	SCS5yr	35.8	171.16	174.11		174.13	0.000164	0.73	91.97	65.22	0.14
Coyle	Coyle_1&2	3049	SCS10yr	44.76	171.16	174.19		174.22	0.000227	0.88	96.92	65.78	0.16
Coyle	Coyle_1&2	3049	SCS25yr	61.03	171.16	174.34		174.38	0.000335	1.1	106.95	66.94	0.2
Coyle	Coyle_1&2	3049	SCS50yr	75.39	171.16	174.48		174.54	0.000417	1.27	116.45	67.82	0.22
Coyle	Coyle_1&2	3049	SCS100yr	87.84	171.16	174.6		174.67	0.00048	1.39	124.55	68.63	0.24
Coyle	Coyle_1&2	3049	SCS200yr	110.16	171.16	174.81		174.89	0.000577	1.59	138.94	70.61	0.27
Coyle	Coyle_1&2	3049	RSnow100yr	58.91	171.16	174.33		174.37	0.000319	1.07	106.06	66.84	0.19
Coyle	Coyle_1&2	2954	SCS2yr	26.3	171.14	174.03		174.04	0.000159	0.7	75.64	58.31	0.13
Coyle	Coyle_1&2	2954	SCS5yr	35.8	171.14	174.08		174.11	0.00027	0.92	79.06	62.18	0.18
Coyle	Coyle_1&2	2954	SCS10yr	44.76	171.14	174.15		174.19	0.000377	1.1	83.05	63.09	0.21
Coyle	Coyle_1&2	2954	SCS25yr	61.03	171.14	174.28		174.34	0.000557	1.38	91.48	66.4	0.26
Coyle	Coyle_1&2	2954	SCS50yr	75.39	171.14	174.4		174.49	0.000688	1.58	100.13	69.68	0.29
Coyle	Coyle_1&2	2954	SCS100yr	87.84	171.14	174.51		174.61	0.000785	1.73	107.79	71.5	0.31
Coyle	Coyle_1&2	2954	SCS200yr	110.16	171.14	174.71		174.82	0.000923	1.95	121.85	74.87	0.34
Coyle	Coyle_1&2	2954	RSnow100yr	58.91	171.14	174.27		174.33	0.000528	1.34	90.81	65.85	0.25
Coyle	Coyle_1&2	2872	SCS2yr	26.3	171.18	174.02		174.03	0.000122	0.61	91.87	71.66	0.12
Coyle	Coyle_1&2	2872	SCS5yr	35.8	171.18	174.07		174.09	0.000206	0.8	95.54	72.49	0.15
Coyle	Coyle_1&2	2872	SCS10yr	44.76	171.18	174.13		174.16	0.00029	0.96	99.87	74.94	0.18
Coyle	Coyle_1&2	2872	SCS25yr	61.03	171.18	174.25		174.3	0.000434	1.21	109.18	77.09	0.23
Coyle	Coyle_1&2	2872	SCS50yr	75.39	171.18	174.37		174.43	0.000542	1.39	118.55	79.24	0.25
Coyle	Coyle_1&2	2872	SCS100yr	87.84	171.18	174.47		174.54	0.000623	1.52	126.91	82.03	0.27
Coyle	Coyle_1&2	2872	SCS200yr	110.16	171.18	174.66		174.74	0.000737	1.72	142.58	86.97	0.3
Coyle	Coyle_1&2	2872	RSnow100yr	58.91	171.18	174.24		174.29	0.00041	1.17	108.52	76.98	0.22
Coyle	Coyle_1&2	2773	SCS2yr	26.3	171.27	174		174.02	0.000139	0.64	87.99	78.51	0.13
Coyle	Coyle_1&2	2773	SCS5yr	35.8	171.27	174.04		174.07	0.000241	0.85	91.14	80.75	0.17
Coyle	Coyle_1&2	2773	SCS10yr	44.76	171.27	174.09		174.13	0.000345	1.03	94.96	81.69	0.2
Coyle	Coyle_1&2	2773	SCS25yr	61.03	171.27	174.19		174.25	0.000533	1.31	103.3	84.36	0.25
Coyle	Coyle_1&2	2773	SCS50yr	75.39	171.27	174.3		174.37	0.000676	1.51	112.17	86.55	0.28
Coyle	Coyle_1&2	2773	SCS100yr	87.84	171.27	174.39		174.47	0.000781	1.66	120.19	87.93	0.3
Coyle	Coyle_1&2	2773	SCS200yr	110.16	171.27	174.56		174.66	0.000925	1.87	135.35	90.56	0.33
Coyle	Coyle_1&2	2773	RSnow100yr	58.91	171.27	174.19		174.24	0.000501	1.27	102.89	84.16	0.24
Coyle	Coyle_1&2	2698	SCS2yr	26.3	171.17	174		174.01	0.000093	0.53	111.42	97.04	0.1
Coyle	Coyle_1&2	2698	SCS5yr	35.8	171.17	174.04		174.05	0.00016	0.7	115.01	97.43	0.13
Coyle	Coyle_1&2	2698	SCS10yr	44.76	171.17	174.08		174.1	0.000229	0.85	119.31	97.89	0.16
Coyle	Coyle_1&2	2698	SCS25yr	61.03	171.17	174.18		174.21	0.000356	1.09	128.76	98.89	0.2
Coyle	Coyle_1&2	2698	SCS50yr	75.39	171.17	174.28		174.32	0.000454	1.25	138.72	100.02	0.23
Coyle	Coyle_1&2	2698	SCS100yr	87.84	171.17	174.37		174.42	0.000529	1.38	147.7	102.3	0.25
Coyle	Coyle_1&2	2698	SCS200yr	110.16	171.17	174.53		174.6	0.000634	1.56	164.95	104.31	0.28
Coyle	Coyle_1&2	2698	RSnow100yr	58.91	171.17	174.17		174.21	0.000334	1.05	128.37	98.85	0.2
Coyle	Coyle_1&2	2637	SCS2yr	26.3	171.16	174		174	0.000058	0.42	137.2	87.74	0.08
Coyle	Coyle_1&2	2637	SCS5yr	35.8	171.16	174.04		174.04	0.000101	0.56	140.36	88.39	0.11
Coyle	Coyle_1&2	2637	SCS10yr	44.76	171.16	174.08		174.09	0.000147	0.68	144.17	88.84	0.13
Coyle	Coyle_1&2	2637	SCS25yr	61.03	171.16	174.17		174.19	0.000235	0.87	152.73	93.87	0.17
Coyle	Coyle_1&2	2637	SCS50yr	75.39	171.16	174.27		174.3	0.000307	1.02	162.07	95.66	0.19
Coyle	Coyle_1&2	2637	SCS100yr	87.84	171.16	174.36		174.39	0.000365	1.14	170.53	99.48	0.21
Coyle	Coyle_1&2	2637	SCS200yr	110.16	171.16	174.52		174.56	0.000449	1.31	187.31	106.78	0.23
Coyle	Coyle_1&2	2637	RSnow100yr	58.91	171.16	174.17		174.19	0.00022	0.85	152.4	93.64	0.16
Coyle	Coyle_1&2	2543	SCS2yr	26.3	170.82	173.98		174	0.000097	0.58	81.16	52.01	0.11
Coyle	Coyle_1&2	2543	SCS5yr	35.8	170.82	174.01		174.03	0.000174	0.78	82.43	53.05	0.14
Coyle	Coyle_1&2	2543	SCS10yr	44.76	170.82	174.04		174.07	0.000259	0.95	84.01	53.64	0.18
Coyle	Coyle_1&2	2543	SCS25yr	61.03	170.82	174.1		174.16	0.000436	1.26	87.64	57.15	0.23
Coyle	Coyle_1&2	2543	SCS50yr	75.39	170.82	174.18		174.26	0.000598	1.49	91.77	58.07	0.27
Coyle	Coyle_1&2	2543	SCS100yr	87.84	170.82	174.24		174.34	0.00074	1.68	95.49	59.3	0.3
Coyle	Coyle_1&2	2543	SCS200yr	110.16	170.82	174.36		174.5	0.000978	1.98	103.05	62.6	0.35
Coyle	Coyle_1&2	2543	RSnow100yr	58.91	170.82	174.11		174.16	0.000406	1.21	87.7	57.16	0.22
Coyle	Coyle_1&2	2461	SCS2yr	20.66	170.92	173.99	171.88	173.99	0.000006	0.14	322.65	206.86	0.03
Coyle	Coyle_1&2	2461	SCS5yr	28.4	170.92	174.02	172.03	174.02	0.00001	0.19	328.82	207.18	0.03
Coyle	Coyle_1&2	2461	SCS10yr	35.99	170.92	174.06	172.47	174.06	0.000015	0.23	336.3	207.56	0.04
Coyle	Coyle_1&2	2461	SCS25yr	49.91	170.92	174.14	172.56	174.14	0.000025	0.3	352.85	208.28	0.06
Coyle	Coyle_1&2	2461	SCS50yr	62.92	170.92	174.22	172.64	174.22	0.000035	0.36	370.59	209.04	0.06
Coyle	Coyle_1&2	2461	SCS100yr	73.76	170.92	174.3	172.68	174.3	0.000042	0.4	386.49	209.83	0.07
Coyle	Coyle_1&2	2461	SCS200yr	93.48	170.92	174.44	172.76	174.45	0.000053	0.46	416.97	211.13	0.08
Coyle	Coyle_1&2	2461	RSnow100yr	49.69	170.92	174.14	172.55	174.14	0.000025	0.3	352.56	208.27	0.05
Coyle	Coyle_1&2	2409	SCS2yr	20.66	170.89	173.99		173.99	0.000002	0.09	445.1	228.32	0.02
Coyle	Coyle_1&2	2409	SCS5yr	28.4	170.89	174.02		174.02	0.000004	0.12	451.9	228.47	0.02
Coyle	Coyle_1&2	2409	SCS10yr	35.99	170.89	174.06		174.06	0.000006	0.15	460.13	228.66	0.03
Coyle	Coyle_1&2	2409	SCS25yr	49.91	170.89	174.14		174.14	0.000011	0.2	478.32	229.1	0.04
Coyle	Coyle_1&2	2409	SCS50yr	62.92	170.89	174.22		174.22	0.000015	0.24	497.79	229.58	0.04
Coyle	Coyle_1&2	2409	SCS100yr	73.76	170.89	174.3		174.3	0.000018	0.27	515.2	230	0.05
Coyle	Coyle_1&2	2409	SCS200yr	93.48	170.89	174.44		174.44	0.000024	0.31	548.52	230.68	0.05
Coyle	Coyle_1&2	2409	RSnow100yr	49.69	170.89	174.14		174.14	0.000011	0.19	478	229.09	0.04
Coyle	Coyle_1&2	2322	SCS2yr	20.66	170.82	173.99	171.64	173.99	0.00002	0.27	143.09	83.34	0.05
Coyle	Coyle_1&2	2322	SCS5yr	28.4	170.82	174.02	171.81	174.02	0.000036	0.36	145.41	83.57	0.06
Coyle	Coyle_1&2	2322	SCS10yr	35.99	170.82	174.05	171.98	174.06	0.000055	0.45	148.24	83.86	0.08
Coyle	Coyle_1&2	2322	SCS25yr	49.91	170.82	174.13	172.44	174.13	0.000094	0.59	154.53	84.51	0.11
Coyle	Coyle_1&2	2322	SCS50yr	62.92	170.82	174.21	172.59	174.22	0.000132	0.72	161.32	85.19	0.13
Coyle	Coyle_1&2	2322	SCS100yr	73.76	170.82	174.28	172.68	174.29	0.000163	0.81	167.44	85.67	0.14
Coyle	Coyle_1&2	2322	SCS200yr	93.48	170.82	174.41	172.8	174.44	0.000216	0.95	179.28	86.68	0.16
Coyle	Coyle_1&2	2322	RSnow100yr	49.69	170.82	174.12	172.52	174.13	0.000093	0.59	154.42	84.5	0.11
Coyle	Coyle_1&2	2253	SCS2yr	20.66	170.87	173.99	171.73	173.99	0.000035	0.35	118.33	83.25	0.06
Coyle	Coyle_1&2	2253	SCS5yr	28.4	170.87	174.01	171.91	174.02	0.000064	0.47	120.41	83.72	0.09
Coyle	Coyle_1&2	2253	SCS10yr	35.99	170.87	174.04	172.12	174.05	0.000098	0.59	122.95	84.19	0.11
Coyle	Coyle_1&2	2253	SCS25yr	49.91	170.87	174.11	172.36	174.13	0.000169	0.78	128.68	86.26	0.14
Coyle	Coyle_1&2	2253	SCS50yr	62.92	170.87	174.18	172.61	174.21	0.00024	0.94	134.99	87.53	0.17
Coyle	Coyle_1&2	2253	SCS100yr	73.76	170.87	174.25	172.76	174.28	0.000297	1.07	140.77	89.17	0.19
Coyle	Coyle_1&2	2253	SCS200yr	93.48	170.87	174.37	172.92	174.42	0.000393	1.26	152.29	91.99	0.22
Coyle	Coyle_1&2	2253	RSnow100yr	49.69	170.87	174.11	172.36	174.12	0.000168	0.78	128.57	86.24	0.14
Coyle	Coyle_1&2	2200	SCS2yr	20.66	170.79	173.98	171.58	173.99	0.000028	0.32	142.25	126.77	0.06
Coyle	Coyle_1&2	2200	SCS5yr	28.4	170.79	174.01	171.75	174.01	0.000051	0.43	145.3	128.24	0.08
Coyle	Coyle_1&2	2200	SCS10yr	35.99	170.79	174.04	171.9	174.05	0.000077	0.53	149.06	129.55	0.1
Coyle	Coyle_1&2	2200	SCS25yr	49.91	170.79	174.1	172.32	174.12	0.000132	0.71	157.59	132.78	0.12
Coyle	Coyle_1&2	2200	SCS50yr	62.92	170.79	174.17	172.52	174.19	0.000185	0.85	167.1	135.96	0.15
Coyle	Coyle_1&2	2200	SCS100yr	73.76	170.79	174.24	172.65	174.26	0.000227	0.95	175.94	139.87	0.16
Coyle	Coyle_1&2	2200	SCS200yr	93.48	170.79	174.36	172.81	174.39	0.000294	1.11	193.85	145.9	0.19
Coyle	Coyle_1&2	2200	RSnow100yr	49.69	170.79	174.1	172.32	174.11	0.000131	0.7	157.43	132.75	0.12
Coyle	Coyle_1&2	2127	SCS2yr	20.66	169.59	173.98	170.92	173.99	0.000013	0.22	228.17	141.75	0.04
Coyle	Coyle_1&2	2127	SCS5yr	28.4	169.59	174.01	171.13	174.01	0.000023	0.3	231.53	142.27	0.05
Coyle	Coyle_1&2	2127	SCS10yr	35.99	169.59	174.04	171.33	174.04	0.000036	0.37	235.67	143.9	0.06
Coyle	Coyle_1&2	2127	SCS25yr	49.91	169.59	174.1	171.63	174.11	0.000062	0.49	245.05	146.1	0.08
Coyle	Coyle_1&2	2127	SCS50yr	62.92	169.59	174.17	171.88	174.18	0.000088	0.59	255.4	149.12	0.1
Coyle	Coyle_1&2	2127	SCS100yr	73.76	169.59	174.23	172.07	174.24	0.000109	0.67	265.12	159.16	0.11
Coyle	Coyle_1&2	2127	SCS200yr	93.48	169.59	174.36	172.4	174.37	0.000146	0.79	285.66	169.09	0.12
Coyle	Coyle_1&2	2127	RSnow100yr	49.69	169.59	174.1	171.62	174.11	0.000061	0.49	244.88	146.03	0.08

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_1&2	2115		Bridge									
Coyle	Coyle_1&2	2107	SCS2yr	20.66	169.46	173.98	170.8	173.98	0	0.03	359.35	235.97	0.01
Coyle	Coyle_1&2	2107	SCS5yr	28.4	169.46	174	171.03	174	0.000001	0.05	364.01	237.83	0.01
Coyle	Coyle_1&2	2107	SCS10yr	35.99	169.46	174.02	171.21	174.02	0.000001	0.06	369.9	240.64	0.01
Coyle	Coyle_1&2	2107	SCS25yr	49.91	169.46	174.08	171.55	174.08	0.000002	0.08	383.84	246.88	0.01
Coyle	Coyle_1&2	2107	SCS50yr	62.92	169.46	174.15	171.77	174.15	0.000003	0.1	400.15	252.36	0.02
Coyle	Coyle_1&2	2107	SCS100yr	73.76	169.46	174.21	171.94	174.21	0.000003	0.11	415.66	253.93	0.02
Coyle	Coyle_1&2	2107	SCS200yr	93.48	169.46	174.33	172.22	174.33	0.000004	0.13	447.55	256.82	0.02
Coyle	Coyle_1&2	2107	RSnow100yr	49.69	169.46	174.08	171.54	174.08	0.000002	0.08	383.58	246.79	0.01
Coyle	Coyle_1&2	2063	SCS2yr	20.66	170.83	173.98	171.94	173.98	0	0.04	322.06	176.01	0.01
Coyle	Coyle_1&2	2063	SCS5yr	28.4	170.83	174	171.94	174	0.000001	0.05	325.52	176.36	0.01
Coyle	Coyle_1&2	2063	SCS10yr	35.99	170.83	174.02	171.94	174.02	0.000001	0.06	329.84	176.86	0.01
Coyle	Coyle_1&2	2063	SCS25yr	49.91	170.83	174.08	171.94	174.08	0.000002	0.08	339.94	177.93	0.01
Coyle	Coyle_1&2	2063	SCS50yr	62.92	170.83	174.14	171.94	174.15	0.000003	0.1	351.53	179.22	0.02
Coyle	Coyle_1&2	2063	SCS100yr	73.76	170.83	174.21	171.94	174.21	0.000003	0.11	362.49	179.83	0.02
Coyle	Coyle_1&2	2063	SCS200yr	93.48	170.83	174.33	172.04	174.33	0.000004	0.13	411.64	235.34	0.02
Coyle	Coyle_1&2	2063	RSnow100yr	49.69	170.83	174.08	171.94	174.08	0.000002	0.08	339.75	177.91	0.01
Coyle	Coyle_1&2	1969	SCS2yr	20.66	170.81	173.98		173.98	0.000004	0.12	182.98	153.29	0.02
Coyle	Coyle_1&2	1969	SCS5yr	28.4	170.81	174		174	0.000007	0.16	185.93	154.22	0.03
Coyle	Coyle_1&2	1969	SCS10yr	35.99	170.81	174.02		174.02	0.000011	0.2	189.64	155.37	0.04
Coyle	Coyle_1&2	1969	SCS25yr	49.91	170.81	174.08		174.08	0.000019	0.26	198.39	158.2	0.05
Coyle	Coyle_1&2	1969	SCS50yr	62.92	170.81	174.14		174.15	0.000026	0.31	208.58	161.18	0.06
Coyle	Coyle_1&2	1969	SCS100yr	73.76	170.81	174.2		174.21	0.000031	0.35	218.37	164.51	0.06
Coyle	Coyle_1&2	1969	SCS200yr	93.48	170.81	174.32		174.33	0.000038	0.4	239.08	172.1	0.07
Coyle	Coyle_1&2	1969	RSnow100yr	49.69	170.81	174.08		174.08	0.000019	0.26	198.22	158.15	0.05
Coyle	Coyle_1&2	1887	SCS2yr	20.66	170.79	173.97		173.98	0.000035	0.35	112.25	104.63	0.06
Coyle	Coyle_1&2	1887	SCS5yr	28.4	170.79	173.99		174	0.000064	0.48	113.9	108.55	0.09
Coyle	Coyle_1&2	1887	SCS10yr	35.99	170.79	174.01		174.02	0.000098	0.6	116.05	111.09	0.11
Coyle	Coyle_1&2	1887	SCS25yr	49.91	170.79	174.06		174.08	0.000169	0.79	121.37	116.61	0.14
Coyle	Coyle_1&2	1887	SCS50yr	62.92	170.79	174.11		174.14	0.00024	0.96	127.91	124.05	0.17
Coyle	Coyle_1&2	1887	SCS100yr	73.76	170.79	174.16		174.2	0.000292	1.07	134.81	132.03	0.19
Coyle	Coyle_1&2	1887	SCS200yr	93.48	170.79	174.28		174.32	0.000355	1.2	150.71	143.61	0.21
Coyle	Coyle_1&2	1887	RSnow100yr	49.69	170.79	174.05		174.07	0.000168	0.79	121.26	116.5	0.14
Coyle	Coyle_1&2	1822	SCS2yr	20.66	170.88	173.97		173.98	0.000036	0.35	117.81	92.71	0.06
Coyle	Coyle_1&2	1822	SCS5yr	28.4	170.88	173.99		173.99	0.000066	0.48	119.08	93.71	0.09
Coyle	Coyle_1&2	1822	SCS10yr	35.99	170.88	174		174.01	0.000103	0.6	120.72	94.84	0.11
Coyle	Coyle_1&2	1822	SCS25yr	49.91	170.88	174.04		174.06	0.000184	0.81	124.69	97.98	0.15
Coyle	Coyle_1&2	1822	SCS50yr	62.92	170.88	174.09		174.12	0.00027	0.99	129.53	102.06	0.18
Coyle	Coyle_1&2	1822	SCS100yr	73.76	170.88	174.14		174.18	0.000343	1.13	134.49	107.67	0.2
Coyle	Coyle_1&2	1822	SCS200yr	93.48	170.88	174.24		174.3	0.000465	1.35	146.65	128.27	0.24
Coyle	Coyle_1&2	1822	RSnow100yr	49.69	170.88	174.04		174.06	0.000183	0.81	124.61	97.92	0.15
Coyle	Coyle_1&2	1754	SCS2yr	20.66	170.83	173.97	171.71	173.97	0.000018	0.25	176.94	96.47	0.05
Coyle	Coyle_1&2	1754	SCS5yr	28.4	170.83	173.99	171.87	173.99	0.000034	0.34	178.28	96.6	0.06
Coyle	Coyle_1&2	1754	SCS10yr	35.99	170.83	174	172	174.01	0.000053	0.43	179.99	96.78	0.08
Coyle	Coyle_1&2	1754	SCS25yr	49.91	170.83	174.05	172.23	174.05	0.000096	0.58	184.05	97.33	0.11
Coyle	Coyle_1&2	1754	SCS50yr	62.92	170.83	174.09	172.38	174.11	0.000142	0.72	188.86	97.8	0.13
Coyle	Coyle_1&2	1754	SCS100yr	73.76	170.83	174.14	172.44	174.16	0.000181	0.82	193.57	98.22	0.15
Coyle	Coyle_1&2	1754	SCS200yr	93.48	170.83	174.25	172.65	174.27	0.000251	0.99	203.72	99.03	0.17
Coyle	Coyle_1&2	1754	RSnow100yr	49.69	170.83	174.04	172.23	174.05	0.000095	0.58	183.98	97.33	0.11
Coyle	Coyle_1&2	1677	SCS2yr	20.66	170.85	173.97		173.97	0.000007	0.16	308.76	205.83	0.03
Coyle	Coyle_1&2	1677	SCS5yr	28.4	170.85	173.99		173.99	0.000013	0.21	311.63	206.6	0.04
Coyle	Coyle_1&2	1677	SCS10yr	35.99	170.85	174		174	0.00002	0.27	315.31	208.02	0.05
Coyle	Coyle_1&2	1677	SCS25yr	49.91	170.85	174.05		174.05	0.000037	0.36	324.18	213.37	0.07
Coyle	Coyle_1&2	1677	SCS50yr	62.92	170.85	174.1		174.1	0.000054	0.44	334.96	221.25	0.08
Coyle	Coyle_1&2	1677	SCS100yr	73.76	170.85	174.14		174.15	0.000068	0.51	345.8	226.72	0.09
Coyle	Coyle_1&2	1677	SCS200yr	93.48	170.85	174.25		174.25	0.000093	0.61	369.88	234.47	0.11
Coyle	Coyle_1&2	1677	RSnow100yr	49.69	170.85	174.04		174.05	0.000036	0.36	324.01	213.2	0.07
Coyle	Coyle_1&2	1583	SCS2yr	20.66	170.84	173.97		173.97	0.000011	0.2	237.71	168.64	0.04
Coyle	Coyle_1&2	1583	SCS5yr	28.4	170.84	173.98		173.99	0.00002	0.27	239.89	168.8	0.05
Coyle	Coyle_1&2	1583	SCS10yr	35.99	170.84	174		174	0.000032	0.34	242.67	168.99	0.06
Coyle	Coyle_1&2	1583	SCS25yr	49.91	170.84	174.04		174.04	0.000057	0.46	249.33	169.47	0.08
Coyle	Coyle_1&2	1583	SCS50yr	62.92	170.84	174.09		174.09	0.000083	0.56	257.25	170.07	0.1
Coyle	Coyle_1&2	1583	SCS100yr	73.76	170.84	174.13		174.14	0.000105	0.63	265.08	170.68	0.11
Coyle	Coyle_1&2	1583	SCS200yr	93.48	170.84	174.23		174.24	0.000142	0.75	282.2	172.09	0.13
Coyle	Coyle_1&2	1583	RSnow100yr	49.69	170.84	174.04		174.04	0.000056	0.45	249.2	169.46	0.08
Coyle	Coyle_1&2	1496	SCS2yr	20.66	170.81	173.97	171.5	173.97	0.000017	0.24	175.7	89.69	0.04
Coyle	Coyle_1&2	1496	SCS5yr	28.4	170.81	173.98	171.65	173.98	0.000031	0.33	176.72	89.81	0.06
Coyle	Coyle_1&2	1496	SCS10yr	35.99	170.81	173.99	171.78	174	0.000049	0.42	178.03	89.96	0.08
Coyle	Coyle_1&2	1496	SCS25yr	49.91	170.81	174.03	172.14	174.04	0.000089	0.57	181.18	90.45	0.1
Coyle	Coyle_1&2	1496	SCS50yr	62.92	170.81	174.07	172.32	174.09	0.000134	0.71	184.96	91.04	0.13
Coyle	Coyle_1&2	1496	SCS100yr	73.76	170.81	174.11	172.4	174.13	0.000174	0.81	188.73	91.4	0.14
Coyle	Coyle_1&2	1496	SCS200yr	93.48	170.81	174.2	172.53	174.23	0.000248	0.99	197.08	92.31	0.17
Coyle	Coyle_1&2	1496	RSnow100yr	49.69	170.81	174.03	172.13	174.04	0.000088	0.57	181.12	90.44	0.1
Coyle	Coyle_1&2	1439	SCS2yr	20.66	170.83	173.97		173.97	0.00002	0.26	164.07	83.84	0.05
Coyle	Coyle_1&2	1439	SCS5yr	28.4	170.83	173.98		173.98	0.000038	0.36	164.96	83.99	0.07
Coyle	Coyle_1&2	1439	SCS10yr	35.99	170.83	173.99		174	0.00006	0.45	166.09	84.19	0.08
Coyle	Coyle_1&2	1439	SCS25yr	49.91	170.83	174.02		174.03	0.00011	0.62	168.84	84.64	0.11
Coyle	Coyle_1&2	1439	SCS50yr	62.92	170.83	174.06		174.08	0.000165	0.77	172.14	85.16	0.14
Coyle	Coyle_1&2	1439	SCS100yr	73.76	170.83	174.1		174.12	0.000215	0.89	175.45	85.68	0.16
Coyle	Coyle_1&2	1439	SCS200yr	93.48	170.83	174.19		174.22	0.000311	1.08	182.88	87.32	0.19
Coyle	Coyle_1&2	1439	RSnow100yr	49.69	170.83	174.02		174.03	0.000109	0.62	168.78	84.63	0.11
Coyle	Coyle_1&2	1376	SCS2yr	20.66	170.85	173.97		173.97	0.000023	0.28	149.13	74.89	0.05
Coyle	Coyle_1&2	1376	SCS5yr	28.4	170.85	173.98		173.98	0.000043	0.39	149.8	74.97	0.07
Coyle	Coyle_1&2	1376	SCS10yr	35.99	170.85	173.99		173.99	0.000067	0.49	150.68	75.1	0.09
Coyle	Coyle_1&2	1376	SCS25yr	49.91	170.85	174.01		174.03	0.000124	0.67	152.79	75.69	0.12
Coyle	Coyle_1&2	1376	SCS50yr	62.92	170.85	174.05		174.07	0.000189	0.83	155.37	76.36	0.15
Coyle	Coyle_1&2	1376	SCS100yr	73.76	170.85	174.08		174.11	0.000253	0.97	157.95	78.48	0.17
Coyle	Coyle_1&2	1376	SCS200yr	93.48	170.85	174.16		174.2	0.000377	1.2	164.03	81.91	0.21
Coyle	Coyle_1&2	1376	RSnow100yr	49.69	170.85	174.01		174.03	0.000123	0.67	152.75	75.68	0.12
Coyle	Coyle_1&2	1299	SCS2yr	20.66	170.81	173.96		173.97	0.000025	0.3	154.24	90.11	0.05
Coyle	Coyle_1&2	1299	SCS5yr	28.4	170.81	173.97		173.98	0.000047	0.41	154.88	90.51	0.07
Coyle	Coyle_1&2	1299	SCS10yr	35.99	170.81	173.98		173.99	0.000075	0.51	155.71	91.04	0.09
Coyle	Coyle_1&2	1299	SCS25yr	49.91	170.81	174		174.02	0.000141	0.71	157.74	92.48	0.13
Coyle	Coyle_1&2	1299	SCS50yr	62.92	170.81	174.03		174.05	0.000215	0.88	160.28	94.38	0.16
Coyle	Coyle_1&2	1299	SCS100yr	73.76	170.81	174.06		174.09	0.000284	1.02	162.93	99.18	0.18
Coyle	Coyle_1&2	1299	SCS200yr	93.48	170.81	174.12		174.16	0.000435	1.27	169.38	109.88	0.23
Coyle	Coyle_1&2	1299	RSnow100yr	49.69	170.81	174		174.02	0.00014	0.7	157.7	92.45	0.13
Coyle	Coyle_1&2	1213	SCS2yr	20.66	170.87	173.96		173.96	0.000009	0.18	266.49	132.96	0.03
Coyle	Coyle_1&2	1213	SCS5yr	28.4	170.87	173.97		173.97	0.000017	0.24	267.46	133.01	0.05
Coyle	Coyle_1&2	1213	SCS10yr	35.99	170.87	173.98		173.98	0.000028	0.3	268.72	133.08	0.06
Coyle	Coyle_1&2	1213	SCS25yr	49.91	170.87	174		174.01	0.000051	0.42	271.78	133.24	0.08
Coyle	Coyle_1&2	1213	SCS50yr	62.92	170.87	174.03		174.04	0.000078	0.52	275.54	133.43	0.1
Coyle	Coyle_1&2	1213	SCS100yr	73.76	170.87	174.06		174.07	0.000103	0.6	279.34	133.63	0.11

Project Name: Coyle Creek & Draper's Creek Floodplain Mapping
Project No.: 67230
Watershed: Niagara Pennisula Conservation Authority (NPCA)
River: Multiple
Reach: Multiple

Table1 HEC-RAS Hydraulic Output Summary
Plan File: Ex_Coyle_Draper_All Flows .p04

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	WS Elev (m)	Crit WS (m)	EG Elev (m)	EG Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Coyle	Coyle_1&2	1213	SCS200yr	93.48	170.87	174.12		174.13	0.000152	0.74	287.95	134.15	0.13
Coyle	Coyle_1&2	1213	RSnow100yr	49.69	170.87	174		174.01	0.000051	0.41	271.72	133.23	0.08
Coyle	Coyle_1&2	1133	SCS2yr	20.66	170.78	173.96		173.96	0.000009	0.18	248.52	115.38	0.03
Coyle	Coyle_1&2	1133	SCS5yr	28.4	170.78	173.97		173.97	0.000016	0.24	249.28	115.69	0.04
Coyle	Coyle_1&2	1133	SCS10yr	35.99	170.78	173.98		173.98	0.000026	0.31	250.26	116.07	0.06
Coyle	Coyle_1&2	1133	SCS25yr	49.91	170.78	174		174	0.000048	0.42	252.68	117.21	0.08
Coyle	Coyle_1&2	1133	SCS50yr	62.92	170.78	174.02		174.03	0.000074	0.53	255.69	118.17	0.09
Coyle	Coyle_1&2	1133	SCS100yr	73.76	170.78	174.05		174.06	0.000098	0.61	258.78	120.13	0.11
Coyle	Coyle_1&2	1133	SCS200yr	93.48	170.78	174.11		174.12	0.000147	0.75	265.93	121.22	0.13
Coyle	Coyle_1&2	1133	RSnow100yr	49.69	170.78	174		174	0.000047	0.42	252.63	117.2	0.08
Coyle	Coyle_1&2	1049	SCS2yr	20.66	170.78	173.96		173.96	0.000005	0.13	335.39	153.04	0.02
Coyle	Coyle_1&2	1049	SCS5yr	28.4	170.78	173.97		173.97	0.000009	0.18	336.36	153.41	0.03
Coyle	Coyle_1&2	1049	SCS10yr	35.99	170.78	173.98		173.98	0.000014	0.22	337.63	153.61	0.04
Coyle	Coyle_1&2	1049	SCS25yr	49.91	170.78	174		174	0.000026	0.31	340.74	154.15	0.06
Coyle	Coyle_1&2	1049	SCS50yr	62.92	170.78	174.02		174.03	0.00004	0.38	344.61	155.26	0.07
Coyle	Coyle_1&2	1049	SCS100yr	73.76	170.78	174.05		174.05	0.000053	0.45	348.58	157.14	0.08
Coyle	Coyle_1&2	1049	SCS200yr	93.48	170.78	174.11		174.11	0.000079	0.55	357.9	161.72	0.1
Coyle	Coyle_1&2	1049	RSnow100yr	49.69	170.78	174		174	0.000026	0.31	340.68	154.14	0.06
Coyle	Coyle_1&2	1000	SCS2yr	20.66	170.8	173.96		173.96	0.000004	0.12	359.24	165.05	0.02
Coyle	Coyle_1&2	1000	SCS5yr	28.4	170.8	173.97		173.97	0.000008	0.17	360.27	165.42	0.03
Coyle	Coyle_1&2	1000	SCS10yr	35.99	170.8	173.98		173.98	0.000013	0.21	361.6	165.79	0.04
Coyle	Coyle_1&2	1000	SCS25yr	49.91	170.8	174		174	0.000024	0.29	364.89	166.97	0.05
Coyle	Coyle_1&2	1000	SCS50yr	62.92	170.8	174.02		174.02	0.000036	0.37	368.99	167.92	0.07
Coyle	Coyle_1&2	1000	SCS100yr	73.76	170.8	174.05		174.05	0.000048	0.42	373.2	169.78	0.08
Coyle	Coyle_1&2	1000	SCS200yr	93.48	170.8	174.1		174.11	0.000072	0.52	383.04	174.13	0.09
Coyle	Coyle_1&2	1000	RSnow100yr	49.69	170.8	174		174	0.000023	0.29	364.82	166.96	0.05
Coyle	Coyle_1&2	397	SCS2yr	20.66	171.08	173.96		173.96	0.000005	0.12	341.24	161.85	0.02
Coyle	Coyle_1&2	397	SCS5yr	28.4	171.08	173.97		173.97	0.000009	0.17	342.24	162.07	0.03
Coyle	Coyle_1&2	397	SCS10yr	35.99	171.08	173.98		173.98	0.000014	0.21	343.52	162.37	0.04
Coyle	Coyle_1&2	397	SCS25yr	49.91	171.08	174		174	0.000026	0.29	346.68	163.38	0.06
Coyle	Coyle_1&2	397	SCS50yr	62.92	171.08	174.02		174.02	0.000041	0.36	350.63	164.67	0.07
Coyle	Coyle_1&2	397	SCS100yr	73.76	171.08	174.04		174.05	0.000054	0.42	354.69	165.5	0.08
Coyle	Coyle_1&2	397	SCS200yr	93.48	171.08	174.1		174.11	0.000081	0.51	364.09	166.75	0.1
Coyle	Coyle_1&2	397	RSnow100yr	49.69	171.08	174		174	0.000026	0.29	346.62	163.33	0.05
Coyle	Coyle_1&2	335	SCS2yr	20.66	170.77	173.96		173.96	0.000006	0.15	291.17	143.5	0.03
Coyle	Coyle_1&2	335	SCS5yr	28.4	170.77	173.97		173.97	0.000011	0.2	292	144.03	0.04
Coyle	Coyle_1&2	335	SCS10yr	35.99	170.77	173.98		173.98	0.000018	0.25	293.08	144.26	0.05
Coyle	Coyle_1&2	335	SCS25yr	49.91	170.77	173.99		174	0.000033	0.35	295.74	145.17	0.06
Coyle	Coyle_1&2	335	SCS50yr	62.92	170.77	174.02		174.02	0.000051	0.44	299.09	148	0.08
Coyle	Coyle_1&2	335	SCS100yr	73.76	170.77	174.04		174.05	0.000068	0.51	302.57	149.09	0.09
Coyle	Coyle_1&2	335	SCS200yr	93.48	170.77	174.09		174.1	0.000102	0.63	310.73	151.93	0.11
Coyle	Coyle_1&2	335	RSnow100yr	49.69	170.77	173.99		174	0.000033	0.35	295.69	145.16	0.06
Coyle	Coyle_1&2	239	SCS2yr	20.66	170.78	173.96		173.96	0.000004	0.13	319.71	157.13	0.02
Coyle	Coyle_1&2	239	SCS5yr	28.4	170.78	173.97		173.97	0.000008	0.17	320.55	157.28	0.03
Coyle	Coyle_1&2	239	SCS10yr	35.99	170.78	173.97		173.98	0.000013	0.22	321.65	157.6	0.04
Coyle	Coyle_1&2	239	SCS25yr	49.91	170.78	173.99		173.99	0.000024	0.3	324.37	158.12	0.05
Coyle	Coyle_1&2	239	SCS50yr	62.92	170.78	174.01		174.02	0.000037	0.38	327.78	158.95	0.07
Coyle	Coyle_1&2	239	SCS100yr	73.76	170.78	174.04		174.04	0.00005	0.44	331.31	159.64	0.08
Coyle	Coyle_1&2	239	SCS200yr	93.48	170.78	174.09		174.09	0.000075	0.54	339.72	164.91	0.1
Coyle	Coyle_1&2	239	RSnow100yr	49.69	170.78	173.99		173.99	0.000024	0.3	324.31	158.11	0.05
Coyle	Coyle_1&2	172	SCS2yr	20.66	170.76	173.96		173.96	0.000003	0.11	353.37	155.75	0.02
Coyle	Coyle_1&2	172	SCS5yr	28.4	170.76	173.97		173.97	0.000006	0.15	354.19	155.98	0.03
Coyle	Coyle_1&2	172	SCS10yr	35.99	170.76	173.97		173.97	0.00001	0.19	355.26	156.22	0.03
Coyle	Coyle_1&2	172	SCS25yr	49.91	170.76	173.99		173.99	0.000018	0.26	357.91	157.01	0.05
Coyle	Coyle_1&2	172	SCS50yr	62.92	170.76	174.01		174.01	0.000028	0.33	361.26	158.13	0.06
Coyle	Coyle_1&2	172	SCS100yr	73.76	170.76	174.03		174.04	0.000037	0.38	364.72	158.96	0.07
Coyle	Coyle_1&2	172	SCS200yr	93.48	170.76	174.09		174.09	0.000056	0.47	372.96	162.83	0.08
Coyle	Coyle_1&2	172	RSnow100yr	49.69	170.76	173.99		173.99	0.000018	0.26	357.86	157	0.05
Coyle	Coyle_1&2	111	SCS2yr	20.66	169.48	173.96	170.94	173.96	0.000006	0.15	184.82	140.7	0.03
Coyle	Coyle_1&2	111	SCS5yr	28.4	169.48	173.97	171.04	173.97	0.00001	0.2	185.44	140.74	0.04
Coyle	Coyle_1&2	111	SCS10yr	35.99	169.48	173.97	171.12	173.97	0.000017	0.26	186.25	140.81	0.04
Coyle	Coyle_1&2	111	SCS25yr	49.91	169.48	173.99	171.26	173.99	0.000031	0.35	188.25	141.02	0.06
Coyle	Coyle_1&2	111	SCS50yr	62.92	169.48	174	171.37	174.01	0.000048	0.44	190.81	141.31	0.08
Coyle	Coyle_1&2	111	SCS100yr	73.76	169.48	174.02	171.46	174.03	0.000064	0.51	193.49	141.62	0.09
Coyle	Coyle_1&2	111	SCS200yr	93.48	169.48	174.07	171.61	174.08	0.000096	0.63	199.94	142.38	0.11
Coyle	Coyle_1&2	111	RSnow100yr	49.69	169.48	173.99	171.26	173.99	0.000031	0.35	188.21	141.01	0.06
Coyle	Coyle_1&2	93		Bridge									
Coyle	Coyle_1&2	76	SCS2yr	20.66	169.31	173.96	170.94	173.96	0.00001	0.2	169.6	166.74	0.03
Coyle	Coyle_1&2	76	SCS5yr	28.4	169.31	173.96	171.1	173.96	0.000018	0.27	169.59	166.74	0.05
Coyle	Coyle_1&2	76	SCS10yr	35.99	169.31	173.96	171.24	173.96	0.000029	0.35	169.58	166.73	0.06
Coyle	Coyle_1&2	76	SCS25yr	49.91	169.31	173.96	171.44	173.96	0.000056	0.48	169.54	166.73	0.08
Coyle	Coyle_1&2	76	SCS50yr	62.92	169.31	173.96	171.62	173.97	0.000089	0.6	169.49	166.72	0.1
Coyle	Coyle_1&2	76	SCS100yr	73.76	169.31	173.95	171.76	173.97	0.000123	0.71	169.43	166.71	0.12
Coyle	Coyle_1&2	76	SCS200yr	93.48	169.31	173.95	171.98	173.98	0.000198	0.9	169.32	166.69	0.15
Coyle	Coyle_1&2	76	RSnow100yr	49.69	169.31	173.96	171.44	173.96	0.000056	0.48	169.54	166.73	0.08
Coyle	Coyle_1&2	65	SCS2yr	20.66	170.77	173.96	171.27	173.96	0.000007	0.17	215.62	217.1	0.03
Coyle	Coyle_1&2	65	SCS5yr	28.4	170.77	173.96	171.37	173.96	0.000014	0.23	215.62	217.1	0.04
Coyle	Coyle_1&2	65	SCS10yr	35.99	170.77	173.96	171.47	173.96	0.000023	0.29	215.62	217.1	0.05
Coyle	Coyle_1&2	65	SCS25yr	49.91	170.77	173.96	171.62	173.96	0.000043	0.4	215.62	217.1	0.07
Coyle	Coyle_1&2	65	SCS50yr	62.92	170.77	173.96	171.76	173.96	0.000069	0.5	215.62	217.1	0.09
Coyle	Coyle_1&2	65	SCS100yr	73.76	170.77	173.96	171.86	173.97	0.000095	0.59	215.62	217.1	0.11
Coyle	Coyle_1&2	65	SCS200yr	93.48	170.77	173.96	172.03	173.97	0.000152	0.75	215.62	217.1	0.14
Coyle	Coyle_1&2	65	RSnow100yr	49.69	170.77	173.96	171.62	173.96	0.000043	0.4	215.62	217.1	0.07