Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E1(H)
Date and Time:	Sept.24/2016, 9:36
Staff:	GR,NB
UTM Coordinates:	07w 0512850 7147423
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Ecological Logistics & Research Ltd.

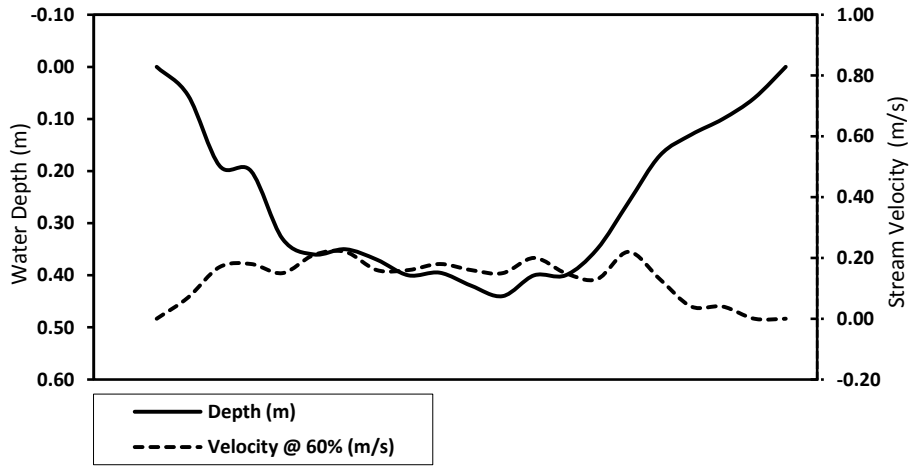
Left Bank	12.11
Right Bank	1.31
Wet.Width	10.8

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	12.11	0.270	0.00	0.00	0.000	0.0000
1	11.57	0.540	0.06	0.07	0.030	0.0021
2	11.03	0.540	0.19	0.17	0.103	0.0174
3	10.49	0.540	0.20	0.18	0.108	0.0194
4	9.95	0.540	0.33	0.15	0.178	0.0267
5	9.41	0.540	0.36	0.21	0.194	0.0408
6	8.87	0.540	0.35	0.22	0.189	0.0416
7	8.33	0.540	0.37	0.16	0.200	0.0320
8	7.79	0.540	0.40	0.16	0.216	0.0346
9	7.25	0.540	0.40	0.18	0.213	0.0384
10	6.71	0.540	0.42	0.16	0.227	0.0363
11	6.17	0.540	0.44	0.15	0.238	0.0356
12	5.63	0.540	0.40	0.20	0.216	0.0432
13	5.09	0.540	0.40	0.15	0.216	0.0324
14	4.55	0.540	0.35	0.13	0.189	0.0246
15	4.01	0.540	0.26	0.22	0.140	0.0309
16	3.47	0.540	0.17	0.13	0.092	0.0119
17	2.93	0.540	0.13	0.04	0.070	0.0028
18	2.39	0.540	0.10	0.04	0.054	0.0022
19	1.85	0.540	0.06	0.00	0.032	0.0000
20	1.31	0.270	0.00	0.00	0.000	0.0000
end	1.31					

Mean Depth (m)	0.26
Mean Velocity (m/s)	0.130

Discharge (m^3/s)	0.4729

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

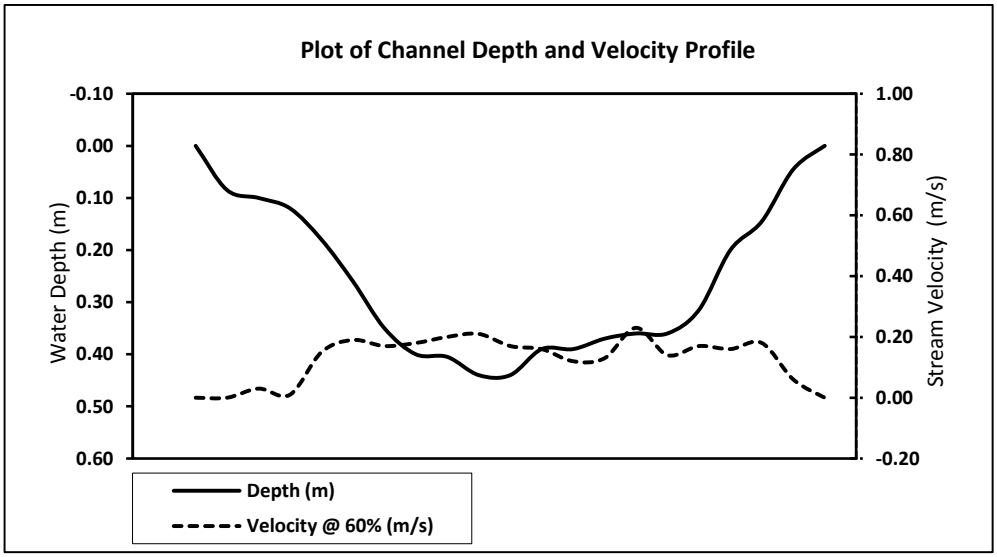
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E1(H)
Date and Time:	Sept.24/2016, 9:36
Staff:	GR,NB
UTM Coordinates:	07w 0512850 7147423
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	12.11
Right Bank	1.31
Wet.Width	10.8

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.31	0.295	0.00	0.00	0.000	0.0000
1	1.90	0.565	0.09	0.00	0.048	0.0000
2	2.44	0.540	0.10	0.03	0.054	0.0016
3	2.98	0.540	0.12	0.01	0.065	0.0006
4	3.52	0.540	0.18	0.15	0.097	0.0146
5	4.06	0.540	0.26	0.19	0.140	0.0267
6	4.60	0.540	0.35	0.17	0.189	0.0321
7	5.14	0.540	0.40	0.18	0.216	0.0389
8	5.68	0.540	0.41	0.20	0.219	0.0437
9	6.22	0.540	0.44	0.21	0.238	0.0499
10	6.76	0.540	0.44	0.17	0.238	0.0404
11	7.30	0.540	0.39	0.16	0.211	0.0337
12	7.84	0.540	0.39	0.12	0.211	0.0253
13	8.38	0.540	0.37	0.13	0.200	0.0260
14	8.92	0.540	0.36	0.23	0.194	0.0447
15	9.46	0.540	0.36	0.14	0.194	0.0272
16	10.00	0.540	0.32	0.17	0.170	0.0289
17	10.54	0.540	0.20	0.16	0.108	0.0173
18	11.08	0.540	0.15	0.18	0.078	0.0141
19	11.62	0.515	0.05	0.06	0.023	0.0014
20	12.11	0.245	0.00	0.00	0.000	0.0000
end	12.11					

Mean Depth (m)	0.26
Mean Velocity (m/s)	0.127

Discharge (m^3/s)	0.4671



Stream Flow & Discharge Calculation

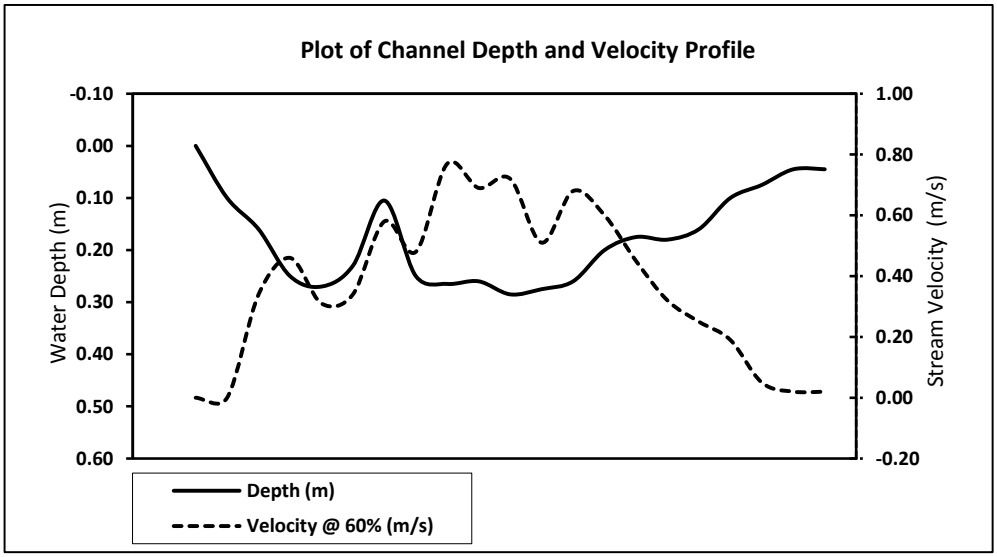
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E2
Date and Time:	Sept.20/2016, 17:28
Staff:	GR,NB
UTM Coordinates:	07w 0514168 7147077
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	7.92
Right Bank	1.44
Wet.Width	6.48

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.44	0.165	0.00	0.00	0.000	0.0000
1	1.77	0.330	0.10	0.00	0.033	0.0112
2	2.10	0.330	0.16	0.34	0.053	0.0243
3	2.43	0.330	0.25	0.46	0.083	0.0256
4	2.76	0.330	0.27	0.31	0.089	0.0303
5	3.09	0.330	0.23	0.34	0.076	0.0440
6	3.42	0.330	0.11	0.58	0.035	0.0166
7	3.75	0.330	0.25	0.48	0.083	0.0635
8	4.08	0.330	0.27	0.77	0.087	0.0603
9	4.41	0.330	0.26	0.69	0.086	0.0618
10	4.74	0.330	0.29	0.72	0.094	0.0480
11	5.07	0.330	0.28	0.51	0.091	0.0617
12	5.40	0.330	0.26	0.68	0.086	0.0515
13	5.73	0.330	0.20	0.60	0.066	0.0297
14	6.06	0.330	0.18	0.45	0.058	0.0185
15	6.39	0.330	0.18	0.32	0.059	0.0149
16	6.72	0.330	0.16	0.25	0.053	0.0100
17	7.05	0.330	0.10	0.19	0.033	0.0017
18	7.38	0.330	0.08	0.05	0.025	0.0005
19	7.71	0.270	0.05	0.02	0.012	0.0002
20	7.92	0.105	0.05	0.02	0.005	0.0000
end	7.92					

Mean Depth (m)	0.18
Mean Velocity (m/s)	0.37

Discharge (m^3/s)	0.5743



Stream Flow & Discharge Calculation

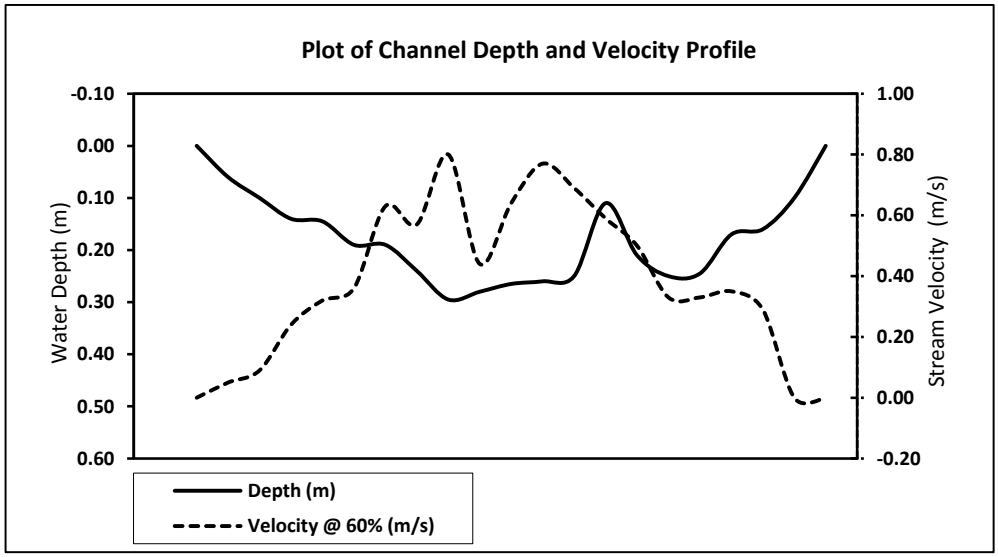
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E2
Date and Time:	Sept.20/2016, 17:28
Staff:	GR,NB
UTM Coordinates:	07w 0514168 7147077
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	7.92
Right Bank	1.44
Wet.Width	6.48

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	7.92	0.165	0.00	0.00	0.000	0.0000
1	7.59	0.330	0.06	0.05	0.020	0.0010
2	7.26	0.330	0.10	0.09	0.033	0.0030
3	6.93	0.330	0.14	0.24	0.046	0.0111
4	6.60	0.330	0.15	0.32	0.048	0.0153
5	6.27	0.330	0.19	0.36	0.063	0.0226
6	5.94	0.330	0.19	0.63	0.063	0.0395
7	5.61	0.330	0.24	0.57	0.079	0.0451
8	5.28	0.330	0.30	0.80	0.097	0.0779
9	4.95	0.330	0.28	0.44	0.092	0.0407
10	4.62	0.330	0.27	0.64	0.087	0.0560
11	4.29	0.330	0.26	0.77	0.086	0.0661
12	3.96	0.330	0.25	0.69	0.083	0.0569
13	3.63	0.330	0.11	0.59	0.036	0.0214
14	3.30	0.330	0.21	0.50	0.069	0.0347
15	2.97	0.330	0.25	0.33	0.083	0.0272
16	2.64	0.330	0.25	0.33	0.081	0.0267
17	2.31	0.330	0.17	0.35	0.056	0.0196
18	1.98	0.330	0.16	0.29	0.053	0.0153
19	1.65	0.270	0.10	0.00	0.027	0.0000
20	1.44	0.105	0.00	0.00	0.000	0.0000
end	1.44					

Mean Depth (m)	0.17
Mean Velocity (m/s)	0.38

Discharge (m^3/s)	0.5800



Stream Flow & Discharge Calculation

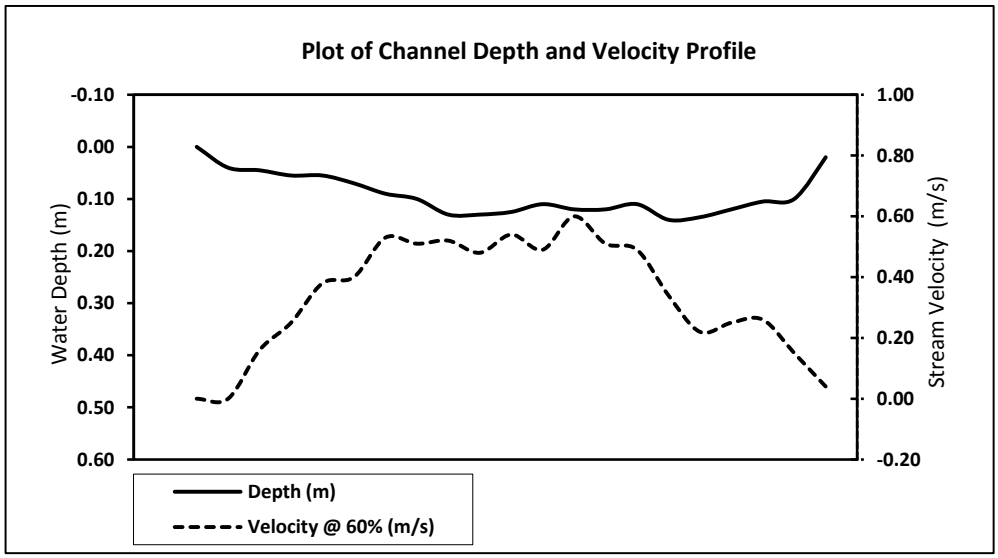
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Wolverine Creek
Station Name:	E3(H)
Date and Time:	Sept.20/2016, 9:35
Staff:	GR,NB
UTM Coordinates:	07w 0514183 7147592
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	4.49
Right Bank	0.46
Wet.Width	4.03

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	4.49	0.130	0.00	0.00	0.000	0.0000
1	4.23	0.195	0.04	0.00	0.008	0.0000
2	4.10	0.165	0.05	0.16	0.007	0.0012
3	3.90	0.200	0.06	0.25	0.011	0.0028
4	3.70	0.205	0.06	0.38	0.011	0.0043
5	3.49	0.205	0.07	0.40	0.014	0.0057
6	3.29	0.200	0.09	0.53	0.018	0.0095
7	3.09	0.200	0.10	0.51	0.020	0.0102
8	2.89	0.205	0.13	0.52	0.027	0.0139
9	2.68	0.205	0.13	0.48	0.027	0.0128
10	2.48	0.200	0.13	0.54	0.025	0.0135
11	2.28	0.205	0.11	0.49	0.023	0.0110
12	2.07	0.205	0.12	0.60	0.025	0.0148
13	1.87	0.200	0.12	0.51	0.024	0.0122
14	1.67	0.200	0.11	0.49	0.022	0.0108
15	1.47	0.205	0.14	0.34	0.029	0.0098
16	1.26	0.205	0.14	0.22	0.028	0.0061
17	1.06	0.200	0.12	0.25	0.024	0.0060
18	0.86	0.200	0.11	0.26	0.021	0.0053
19	0.66	0.200	0.10	0.15	0.020	0.0052
20	0.46	0.100	0.02	0.04	0.002	0.0003
end	0.46					

Mean Depth (m)	0.09
Mean Velocity (m/s)	0.339

Discharge (m^3/s)	0.1553



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Wolverine Creek
Station Name:	E3(H)
Date and Time:	Sept.20/2016, 9:35
Staff:	GR,NB
UTM Coordinates:	07w 0514183 7147592
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

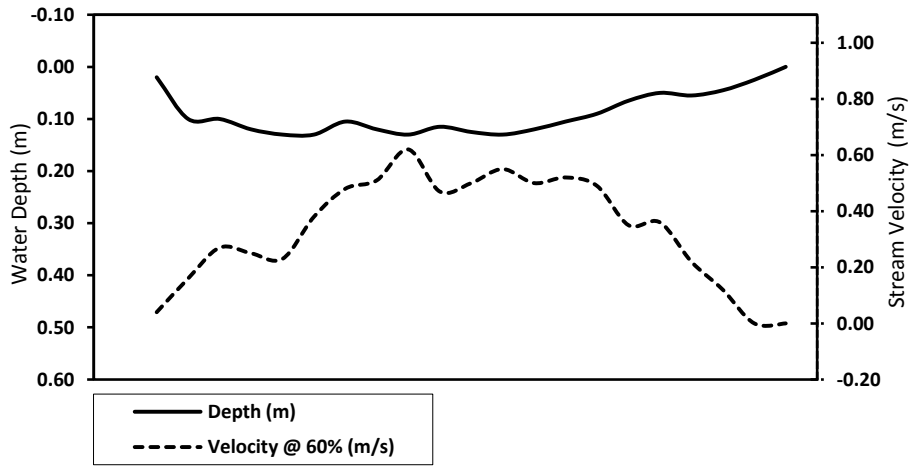
Left Bank	4.48
Right Bank	0.46
Wet.Width	4.02

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.46	0.100	0.02	0.04	0.002	0.0001
1	0.66	0.205	0.10	0.16	0.021	0.0033
2	0.87	0.205	0.10	0.27	0.021	0.0055
3	1.07	0.200	0.12	0.25	0.024	0.0060
4	1.27	0.205	0.13	0.23	0.027	0.0061
5	1.48	0.205	0.13	0.38	0.027	0.0101
6	1.68	0.200	0.11	0.48	0.021	0.0101
7	1.88	0.205	0.12	0.51	0.025	0.0125
8	2.09	0.205	0.13	0.62	0.027	0.0165
9	2.29	0.200	0.12	0.47	0.023	0.0108
10	2.49	0.200	0.13	0.50	0.025	0.0125
11	2.69	0.205	0.13	0.55	0.027	0.0147
12	2.90	0.205	0.12	0.50	0.025	0.0123
13	3.10	0.205	0.11	0.52	0.022	0.0112
14	3.31	0.205	0.09	0.49	0.018	0.0090
15	3.51	0.200	0.07	0.35	0.013	0.0046
16	3.71	0.205	0.05	0.36	0.010	0.0037
17	3.92	0.205	0.06	0.22	0.011	0.0025
18	4.12	0.170	0.05	0.12	0.008	0.0009
19	4.26	0.180	0.03	0.00	0.005	0.0000
20	4.48	0.110	0.00	0.00	0.000	0.0000
end	4.48					

Mean Depth (m)	0.09
Mean Velocity (m/s)	0.334

Discharge (m^3/s)	0.1524

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E4
Date and Time:	Sept.22/2016, 17:28
Staff:	GR,NB
UTM Coordinates:	07w 05159451 7145283
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

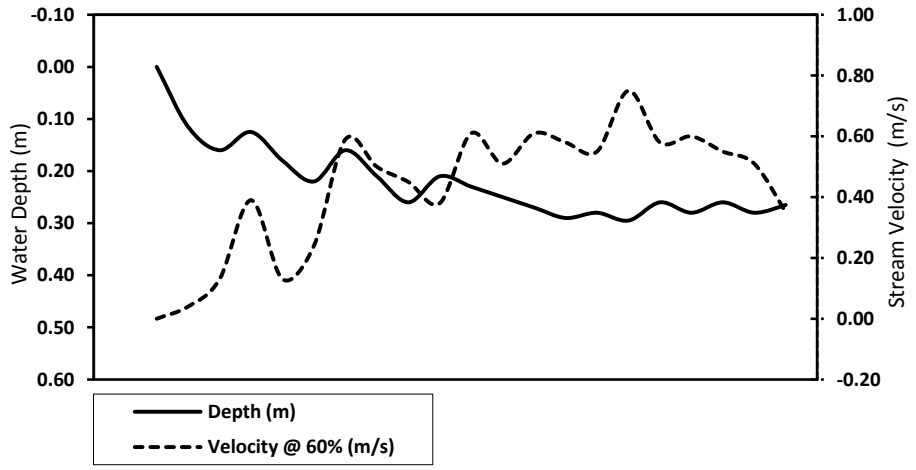
Left Bank	9.36
Right Bank	2.46
Wet.Width	6.9

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	2.46	0.175	0.00	0.00	0.000	0.0000
1	2.81	0.350	0.12	0.04	0.040	0.0016
2	3.16	0.350	0.16	0.13	0.056	0.0073
3	3.51	0.350	0.13	0.39	0.044	0.0171
4	3.86	0.350	0.18	0.13	0.063	0.0082
5	4.21	0.350	0.22	0.24	0.077	0.0185
6	4.56	0.350	0.16	0.59	0.056	0.0330
7	4.91	0.350	0.21	0.50	0.074	0.0368
8	5.26	0.350	0.26	0.45	0.091	0.0410
9	5.61	0.350	0.21	0.38	0.074	0.0279
10	5.96	0.350	0.23	0.61	0.080	0.0491
11	6.31	0.400	0.25	0.51	0.100	0.0510
12	6.76	0.400	0.27	0.61	0.108	0.0659
13	7.11	0.350	0.29	0.58	0.102	0.0589
14	7.46	0.350	0.28	0.55	0.098	0.0539
15	7.81	0.350	0.30	0.75	0.103	0.0774
16	8.16	0.350	0.26	0.58	0.091	0.0528
17	8.51	0.350	0.28	0.60	0.098	0.0588
18	8.86	0.320	0.26	0.55	0.083	0.0458
19	9.15	0.250	0.28	0.51	0.070	0.0357
20	9.36	0.105	0.27	0.35	0.028	0.0097
end	9.36					

Mean Depth (m)	0.22
Mean Velocity (m/s)	0.431

Discharge (m^3/s)	0.7503

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E4
Date and Time:	Sept.22/2016, 17:28
Staff:	GR,NB
UTM Coordinates:	07w 05159451 7145283
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

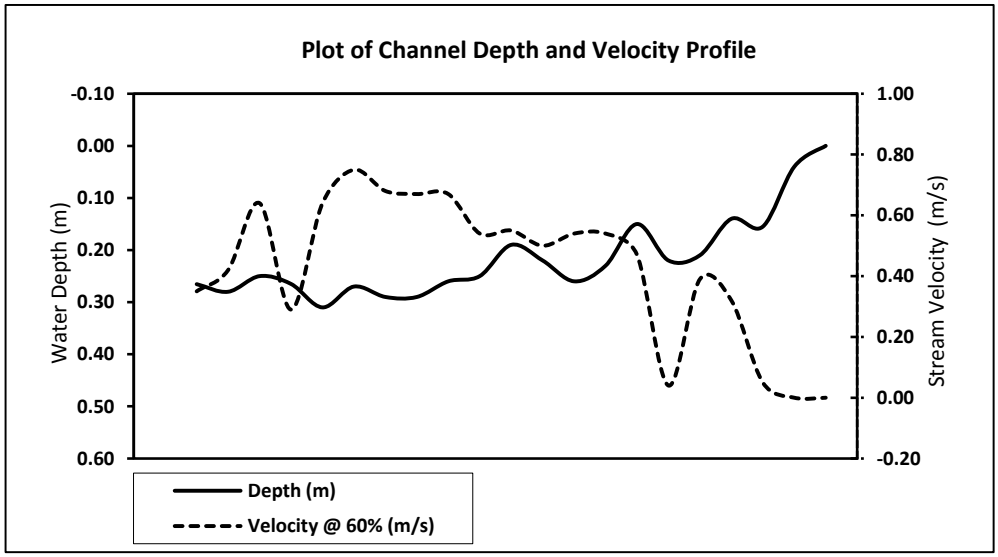
Ecological Logistics & Research Ltd.

Left Bank	9.36
Right Bank	2.46
Wet.Width	6.9

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	9.36	0.175	0.27	0.35	0.046	0.0163
1	9.01	0.350	0.28	0.42	0.098	0.0412
2	8.66	0.350	0.25	0.64	0.087	0.0560
3	8.31	0.350	0.27	0.29	0.093	0.0269
4	7.96	0.350	0.31	0.64	0.109	0.0694
5	7.61	0.350	0.27	0.75	0.095	0.0709
6	7.26	0.350	0.29	0.68	0.102	0.0690
7	6.91	0.350	0.29	0.67	0.102	0.0680
8	6.56	0.350	0.26	0.67	0.091	0.0610
9	6.21	0.350	0.25	0.54	0.087	0.0473
10	5.86	0.350	0.19	0.55	0.067	0.0366
11	5.51	0.350	0.22	0.50	0.077	0.0385
12	5.16	0.350	0.26	0.54	0.091	0.0491
13	4.81	0.350	0.23	0.54	0.081	0.0435
14	4.46	0.350	0.15	0.47	0.052	0.0247
15	4.11	0.350	0.22	0.04	0.077	0.0031
16	3.76	0.350	0.21	0.39	0.074	0.0287
17	3.41	0.350	0.14	0.32	0.049	0.0157
18	3.06	0.350	0.16	0.05	0.054	0.0027
19	2.71	0.300	0.04	0.00	0.012	0.0000
20	2.46	0.125	0.00	0.00	0.000	0.0000
end	2.46					

Mean Depth (m)	0.22
Mean Velocity (m/s)	0.431

Discharge (m^3/s)	0.7684



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E7
Date and Time:	Sept.22/2016, 13:56
Staff:	GR,NB
UTM Coordinates:	07w 0519358 7142050
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

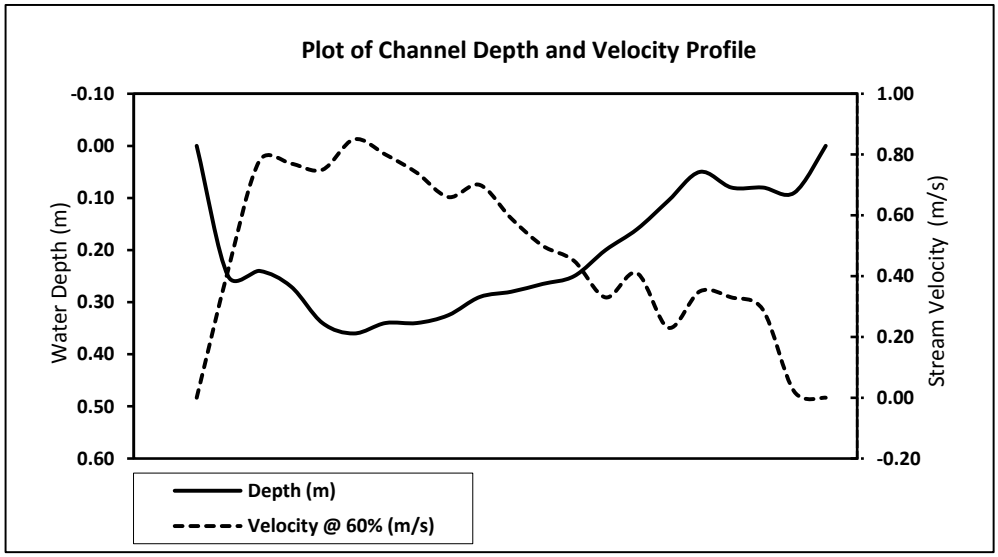
Ecological Logistics & Research Ltd.

Left Bank	8.94
Right Bank	0.74
Wet.Width	8.2

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.74	0.155	0.00	0.00	0.000	0.0000
1	1.05	0.360	0.25	0.42	0.090	0.0378
2	1.46	0.410	0.24	0.78	0.098	0.0768
3	1.87	0.410	0.27	0.77	0.111	0.0852
4	2.28	0.410	0.34	0.75	0.139	0.1046
5	2.69	0.410	0.36	0.85	0.148	0.1255
6	3.10	0.410	0.34	0.80	0.139	0.1115
7	3.51	0.410	0.34	0.74	0.139	0.1032
8	3.92	0.410	0.33	0.66	0.133	0.0879
9	4.33	0.410	0.29	0.70	0.119	0.0832
10	4.74	0.410	0.28	0.59	0.115	0.0677
11	5.15	0.410	0.27	0.50	0.109	0.0543
12	5.56	0.410	0.25	0.45	0.103	0.0461
13	5.97	0.410	0.20	0.33	0.082	0.0271
14	6.38	0.410	0.16	0.41	0.066	0.0269
15	6.79	0.410	0.11	0.23	0.043	0.0099
16	7.20	0.410	0.05	0.35	0.021	0.0072
17	7.61	0.410	0.08	0.33	0.033	0.0108
18	8.02	0.410	0.08	0.29	0.033	0.0095
19	8.43	0.460	0.09	0.02	0.041	0.0008
20	8.94	0.255	0.00	0.00	0.000	0.0000
end	8.94					

Mean Depth (m)	0.21
Mean Velocity (m/s)	0.475

Discharge (m^3/s)	1.0760



Stream Flow & Discharge Calculation

ELR Project No.	16-240.4
Site / Location:	Clinton Creek Site
Stream Name:	Clinton Creek
Station Name:	E7
Date and Time:	Sept.22/2016, 13:56
Staff:	GR,NB
UTM Coordinates:	07w 0519358 7142050
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Ecological Logistics & Research Ltd.

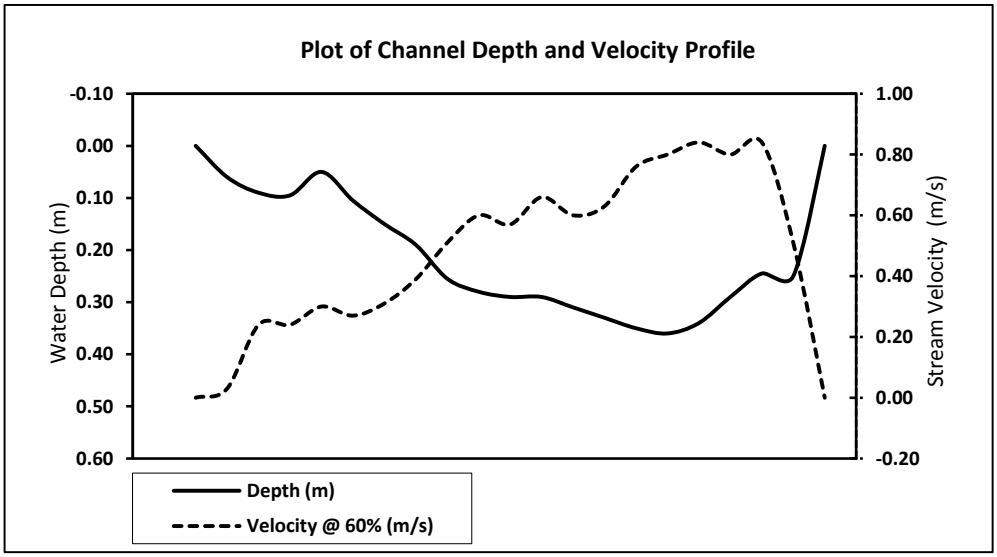
Left Bank	8.94
Right Bank	0.76
Wet.Width	8.18

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	8.94	0.205	0.00	0.00	0.000	0.0000
1	8.53	0.410	0.06	0.03	0.025	0.0007
2	8.12	0.410	0.09	0.24	0.037	0.0089
3	7.71	0.410	0.10	0.24	0.039	0.0093
4	7.30	0.410	0.05	0.30	0.021	0.0062
5	6.89	0.410	0.11	0.27	0.043	0.0116
6	6.48	0.410	0.15	0.31	0.062	0.0191
7	6.07	0.400	0.19	0.39	0.076	0.0296
8	5.68	0.400	0.26	0.51	0.102	0.0520
9	5.27	0.410	0.28	0.60	0.115	0.0689
10	4.86	0.410	0.29	0.57	0.119	0.0678
11	4.45	0.410	0.29	0.66	0.119	0.0785
12	4.04	0.410	0.31	0.60	0.127	0.0763
13	3.63	0.410	0.33	0.63	0.135	0.0852
14	3.22	0.410	0.35	0.76	0.144	0.1091
15	2.81	0.410	0.36	0.80	0.148	0.1181
16	2.40	0.410	0.34	0.84	0.139	0.1171
17	1.99	0.410	0.29	0.80	0.119	0.0951
18	1.58	0.410	0.25	0.84	0.100	0.0844
19	1.17	0.410	0.25	0.51	0.103	0.0523
20	0.76	0.205	0.00	0.00	0.000	0.0000
end	0.76					

Mean Depth (m)	0.21
Mean Velocity (m/s)	0.471

0.475

Discharge (m^3/s)	1.0901



Stream Flow & Discharge Calculation

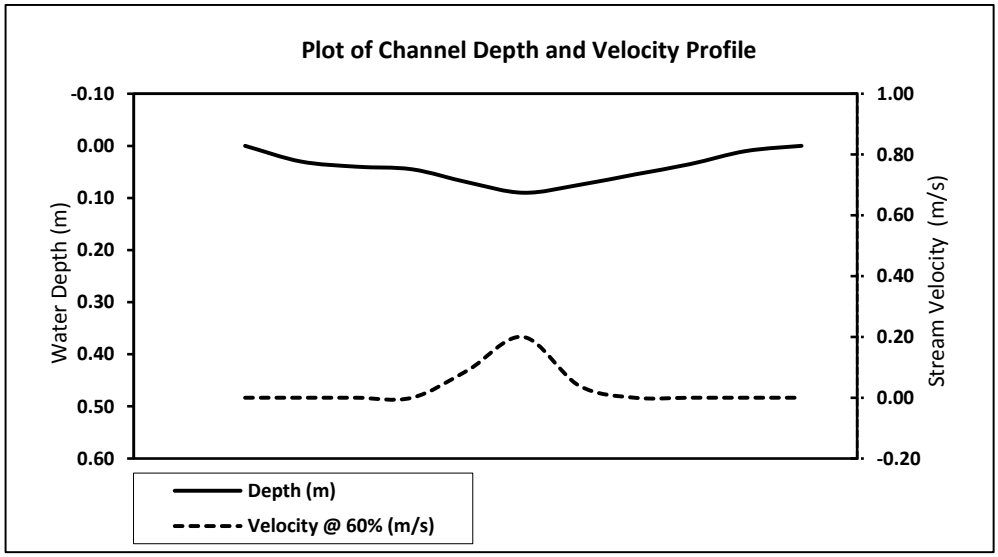
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Groundwater Seepage
Station Name:	GWCC-5
Date and Time:	Sept.21/2016, 15:56
Staff:	GR,NB
UTM Coordinates:	07w 05139841 7142128
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	1.82
Right Bank	0.92
Wet.Width	0.9

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.82	0.045	0.00	0.00	0.000	0.0000
1	1.73	0.090	0.03	0.00	0.003	0.0000
2	1.64	0.085	0.04	0.00	0.003	0.0000
3	1.56	0.085	0.05	0.00	0.004	0.0000
4	1.47	0.090	0.07	0.09	0.006	0.0006
5	1.38	0.090	0.09	0.20	0.008	0.0016
6	1.29	0.090	0.08	0.04	0.007	0.0003
7	1.20	0.090	0.06	0.00	0.005	0.0000
8	1.11	0.090	0.04	0.00	0.003	0.0000
9	1.02	0.095	0.01	0.00	0.001	0.0000
10	0.92	0.050	0.00	0.00	0.000	0.0000
end	0.92					

Mean Depth (m)	0.04
Mean Velocity (m/s)	0.030

Discharge (m^3/s)	0.0025



Stream Flow & Discharge Calculation

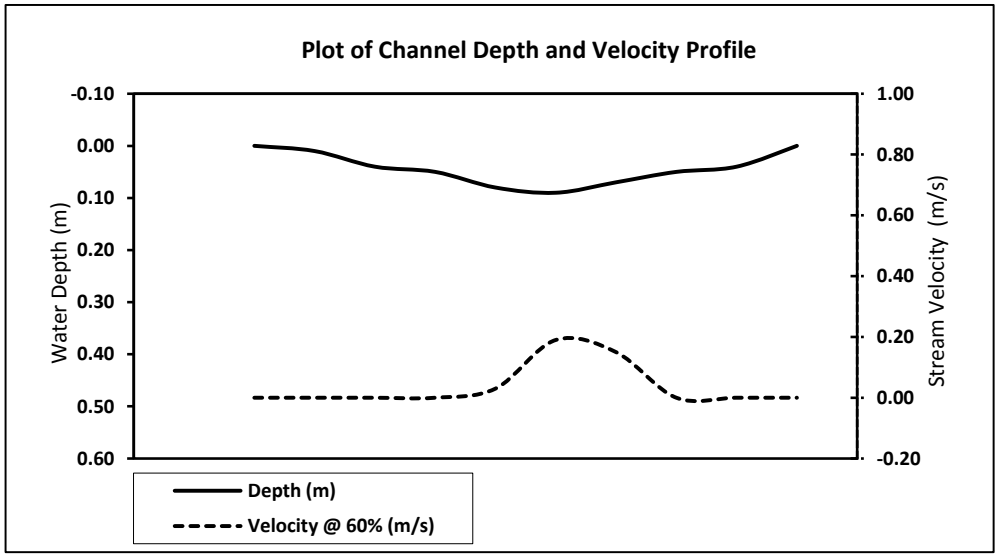
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Groundwater Seepage
Station Name:	GWCC-5
Date and Time:	Sept.21/2016, 15:56
Staff:	GR,NB
UTM Coordinates:	07w 05139841 7142128
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	1.82
Right Bank	0.92
Wet.Width	0.9

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.92	0.045	0.00	0.00	0.000	0.0000
1	1.01	0.090	0.01	0.00	0.001	0.0000
2	1.10	0.090	0.04	0.00	0.004	0.0000
3	1.19	0.090	0.05	0.00	0.005	0.0000
4	1.28	0.090	0.08	0.03	0.007	0.0002
5	1.37	0.090	0.09	0.19	0.008	0.0015
6	1.46	0.090	0.07	0.15	0.006	0.0009
7	1.55	0.090	0.05	0.00	0.005	0.0000
8	1.64	0.135	0.04	0.00	0.005	0.0000
9	1.82	0.090	0.00	0.00	0.000	0.0000
end	1.82					

Mean Depth (m)	0.04
Mean Velocity (m/s)	0.037

Discharge (m^3/s)	0.0027



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Upper Clinton Creek
Station Name:	R1
Date and Time:	Sept.23/2016, 14:28
Staff:	GR,NB
UTM Coordinates:	07w 05810604 7147490
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

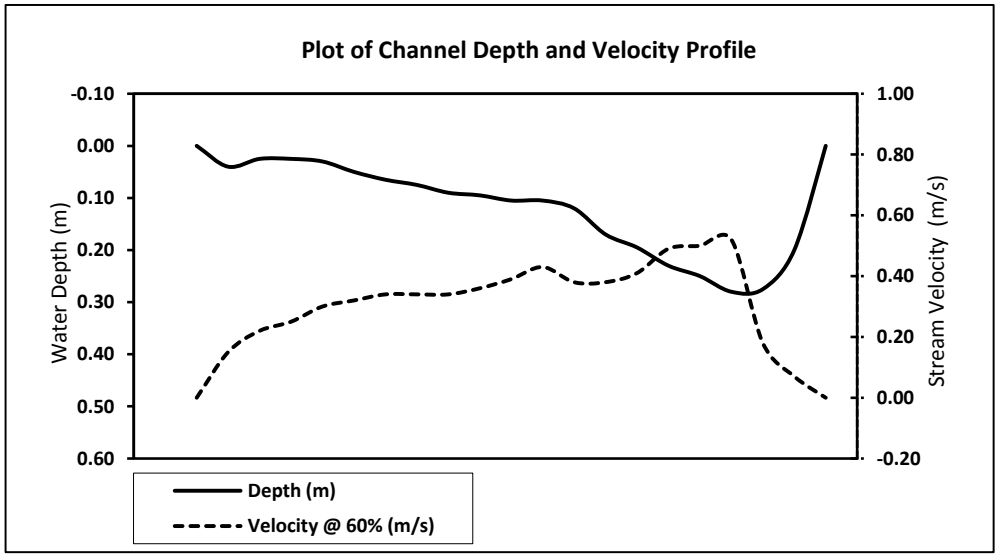
Ecological Logistics & Research Ltd.

Left Bank	7.97
Right Bank	0.74
Wet.Width	7.23

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.74	0.180	0.00	0.00	0.000	0.0000
1	1.10	0.360	0.04	0.15	0.014	0.0022
2	1.46	0.360	0.03	0.22	0.009	0.0020
3	1.82	0.360	0.03	0.25	0.009	0.0023
4	2.18	0.360	0.03	0.30	0.011	0.0032
5	2.54	0.360	0.05	0.32	0.018	0.0058
6	2.90	0.360	0.07	0.34	0.023	0.0080
7	3.26	0.360	0.08	0.34	0.027	0.0092
8	3.62	0.360	0.09	0.34	0.032	0.0110
9	3.98	0.360	0.10	0.36	0.034	0.0123
10	4.34	0.360	0.11	0.39	0.038	0.0147
11	4.70	0.360	0.11	0.43	0.038	0.0163
12	5.06	0.360	0.12	0.38	0.043	0.0164
13	5.42	0.360	0.17	0.38	0.061	0.0233
14	5.78	0.360	0.20	0.41	0.070	0.0288
15	6.14	0.360	0.23	0.49	0.083	0.0406
16	6.50	0.360	0.25	0.50	0.090	0.0450
17	6.86	0.360	0.28	0.52	0.101	0.0524
18	7.22	0.360	0.28	0.18	0.099	0.0178
19	7.58	0.375	0.20	0.07	0.075	0.0053
20	7.97	0.195	0.00	0.00	0.000	0.0000
end	7.97					

Mean Depth (m)	0.12
Mean Velocity (m/s)	0.303

Discharge (m^3/s)	0.316



Stream Flow & Discharge Calculation

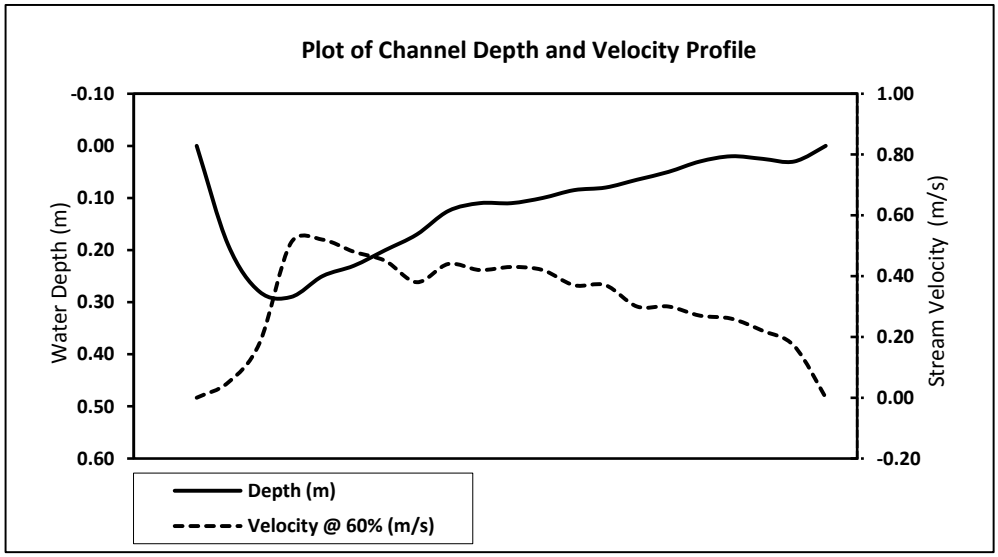
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Upper Clinton Creek
Station Name:	R1
Date and Time:	Sept.23/2016, 14:28
Staff:	GR,NB
UTM Coordinates:	07w 05810604 7147490
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	7.97
Right Bank	0.73
Wet.Width	7.24

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	7.97	0.180	0.00	0.00	0.000	0.0000
1	7.61	0.360	0.19	0.05	0.068	0.0034
2	7.25	0.360	0.28	0.18	0.101	0.0181
3	6.89	0.360	0.29	0.51	0.104	0.0532
4	6.53	0.360	0.25	0.52	0.090	0.0468
5	6.17	0.360	0.23	0.48	0.083	0.0397
6	5.81	0.360	0.20	0.45	0.072	0.0324
7	5.45	0.360	0.17	0.38	0.061	0.0233
8	5.09	0.360	0.13	0.44	0.045	0.0198
9	4.73	0.360	0.11	0.42	0.040	0.0166
10	4.37	0.360	0.11	0.43	0.040	0.0170
11	4.01	0.360	0.10	0.42	0.036	0.0151
12	3.65	0.360	0.09	0.37	0.031	0.0113
13	3.29	0.360	0.08	0.37	0.029	0.0107
14	2.93	0.360	0.07	0.30	0.023	0.0070
15	2.57	0.360	0.05	0.30	0.018	0.0054
16	2.21	0.360	0.03	0.27	0.011	0.0029
17	1.85	0.360	0.02	0.26	0.007	0.0019
18	1.49	0.360	0.03	0.22	0.009	0.0020
19	1.13	0.380	0.03	0.17	0.011	0.0019
20	0.73	0.200	0.00	0.00	0.000	0.0000
end	0.73					

Mean Depth (m)	0.12
Mean Velocity (m/s)	0.311

Discharge (m^3/s)	0.3287



Stream Flow & Discharge Calculation

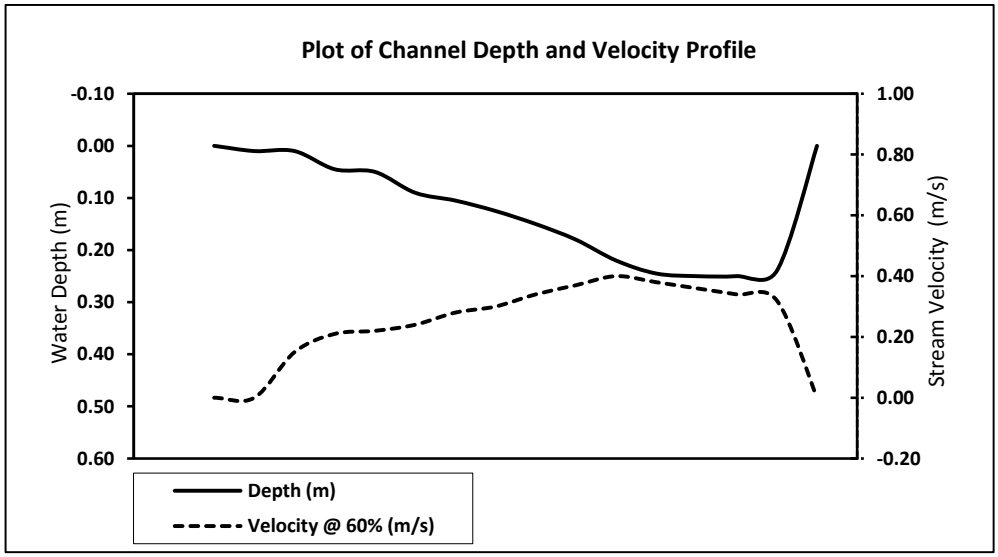
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Easter Creek
Station Name:	R2
Date and Time:	Sept.23/2016, 15:55
Staff:	GR,NB
UTM Coordinates:	07w 0512028 7148062
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	3.6
Right Bank	1.3
Wet.Width	2.3

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.30	0.075	0.00	0.00	0.000	0.0000
1	1.45	0.150	0.01	0.00	0.002	0.0000
2	1.60	0.150	0.01	0.15	0.002	0.0002
3	1.75	0.150	0.05	0.21	0.007	0.0014
4	1.90	0.150	0.05	0.22	0.008	0.0017
5	2.05	0.150	0.09	0.24	0.014	0.0032
6	2.20	0.150	0.11	0.28	0.016	0.0044
7	2.35	0.150	0.13	0.30	0.019	0.0056
8	2.50	0.150	0.15	0.34	0.023	0.0077
9	2.65	0.150	0.18	0.37	0.027	0.0100
10	2.80	0.150	0.22	0.40	0.033	0.0132
11	2.95	0.150	0.25	0.38	0.037	0.0140
12	3.10	0.150	0.25	0.36	0.038	0.0135
13	3.25	0.150	0.25	0.34	0.038	0.0128
14	3.40	0.175	0.24	0.32	0.042	0.0134
15	3.60	0.100	0.00	0.00	0.000	0.0000
end	3.60					

Mean Depth (m)	0.12
Mean Velocity (m/s)	0.244

Discharge (m^3/s)	0.1011



Stream Flow & Discharge Calculation

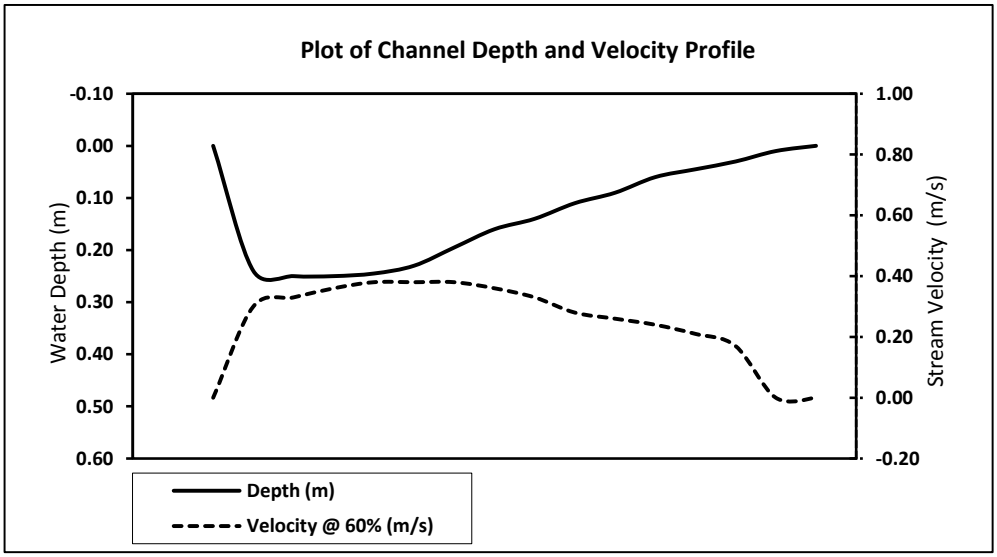
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Easter Creek
Station Name:	R2
Date and Time:	Sept.23/2016, 15:55
Staff:	GR,NB
UTM Coordinates:	07w 0512028 7148062
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	3.6
Right Bank	1.3
Wet.Width	2.3

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	3.60	0.075	0.00	0.00	0.000	0.0000
1	3.45	0.150	0.24	0.30	0.036	0.0108
2	3.30	0.150	0.25	0.33	0.038	0.0124
3	3.15	0.150	0.25	0.36	0.038	0.0135
4	3.00	0.150	0.25	0.38	0.037	0.0140
5	2.85	0.150	0.23	0.38	0.035	0.0131
6	2.70	0.150	0.20	0.38	0.029	0.0111
7	2.55	0.150	0.16	0.36	0.024	0.0086
8	2.40	0.150	0.14	0.33	0.021	0.0069
9	2.25	0.150	0.11	0.28	0.017	0.0046
10	2.10	0.150	0.09	0.26	0.014	0.0035
11	1.95	0.150	0.06	0.24	0.009	0.0022
12	1.80	0.150	0.05	0.21	0.007	0.0014
13	1.65	0.150	0.03	0.17	0.005	0.0008
14	1.50	0.175	0.01	0.00	0.002	0.0000
15	1.30	0.100	0.00	0.00	0.000	0.0000
end	1.30					

Mean Depth (m)	0.13
Mean Velocity (m/s)	0.249

Discharge (m^3/s)	0.1029



Stream Flow & Discharge Calculation

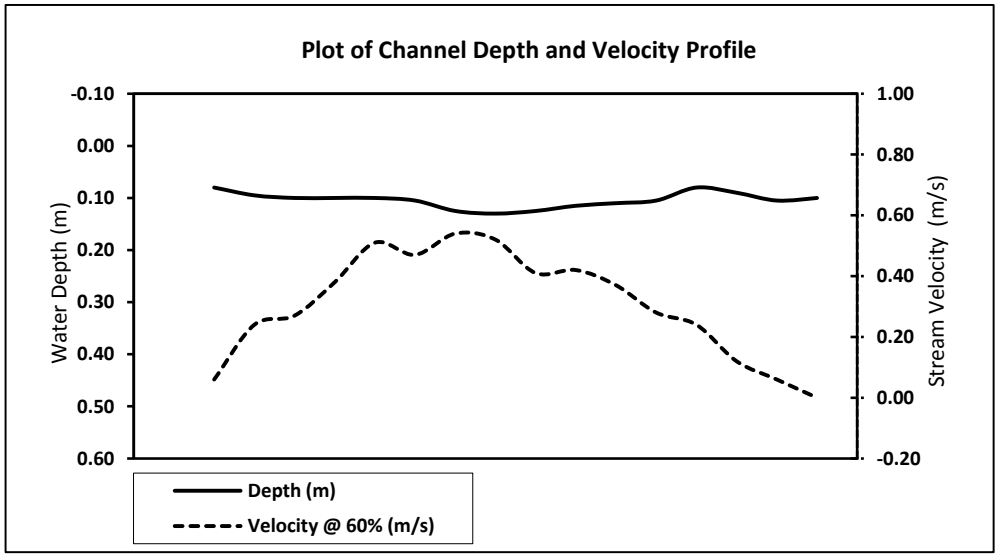
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Wolverine Creek
Station Name:	R3
Date and Time:	Sept.20/2016, 14:56
Staff:	GR,NB
UTM Coordinates:	07w 0513948 7148677
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	3.37
Right Bank	0.77
Wet.Width	2.6

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.77	0.085	0.08	0.06	0.007	0.0004
1	0.94	0.175	0.10	0.24	0.017	0.0040
2	1.12	0.180	0.10	0.27	0.018	0.0049
3	1.30	0.180	0.10	0.38	0.018	0.0068
4	1.48	0.180	0.10	0.51	0.018	0.0092
5	1.66	0.180	0.11	0.47	0.019	0.0089
6	1.84	0.180	0.13	0.54	0.023	0.0122
7	2.02	0.180	0.13	0.52	0.023	0.0122
8	2.20	0.180	0.13	0.41	0.023	0.0092
9	2.38	0.180	0.12	0.42	0.021	0.0087
10	2.56	0.180	0.11	0.37	0.020	0.0073
11	2.74	0.180	0.11	0.28	0.019	0.0053
12	2.92	0.180	0.08	0.24	0.014	0.0035
13	3.10	0.170	0.09	0.12	0.015	0.0018
14	3.26	0.135	0.11	0.06	0.014	0.0009
15	3.37	0.055	0.10	0.00	0.006	0.0000
end	3.37					

Mean Depth (m)	0.10
Mean Velocity (m/s)	0.306

Discharge (m^3/s)	0.0952



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Wolverine Creek
Station Name:	R3
Date and Time:	Sept.20/2016, 14:56
Staff:	GR,NB
UTM Coordinates:	07w 0513948 7148677
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Ecological Logistics & Research Ltd.

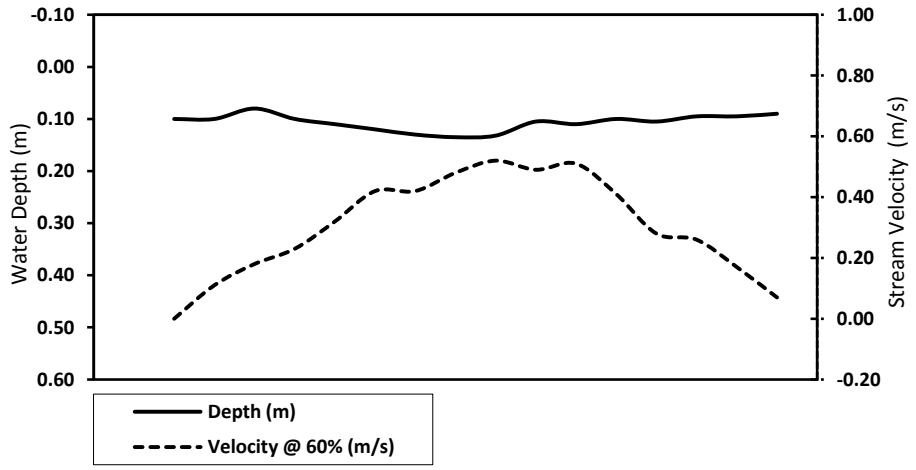
Left Bank	3.37
Right Bank	0.77
Wet.Width	2.6

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	3.37	0.095	0.10	0.00	0.010	0.0000
1	3.18	0.185	0.10	0.11	0.019	0.0020
2	3.00	0.180	0.08	0.18	0.014	0.0026
3	2.82	0.180	0.10	0.23	0.018	0.0041
4	2.64	0.180	0.11	0.32	0.020	0.0063
5	2.46	0.180	0.12	0.42	0.022	0.0091
6	2.28	0.180	0.13	0.42	0.023	0.0098
7	2.10	0.180	0.14	0.48	0.024	0.0117
8	1.92	0.180	0.13	0.52	0.024	0.0124
9	1.74	0.180	0.11	0.49	0.019	0.0093
10	1.56	0.180	0.11	0.51	0.020	0.0101
11	1.38	0.180	0.10	0.41	0.018	0.0074
12	1.20	0.180	0.11	0.28	0.019	0.0053
13	1.02	0.150	0.10	0.26	0.014	0.0037
14	0.90	0.125	0.10	0.17	0.012	0.0020
15	0.77	0.065	0.09	0.07	0.006	0.0004
end	0.77					

Mean Depth (m)	0.11
Mean Velocity (m/s)	0.304

Discharge (m^3/s)	0.0962

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Eagle Creek
Station Name:	R4
Date and Time:	Sept.22/2016, 16:08
Staff:	GR,NB
UTM Coordinates:	07w 0515985 7145352
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Ecological Logistics & Research Ltd.

Left Bank	2.54
Right Bank	0.35
Wet.Width	2.19

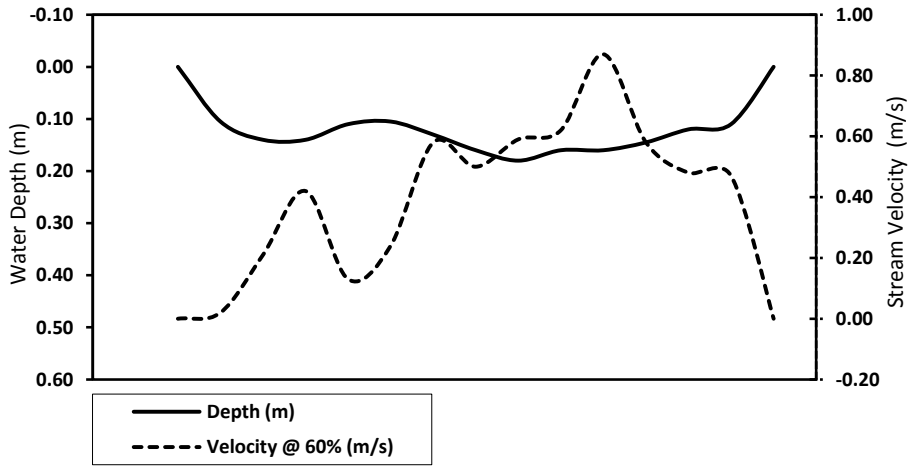
Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	2.54	0.075	0.00	0.00	0.000	0.0000
1	2.39	0.150	0.11	0.02	0.016	0.0003
2	2.24	0.150	0.14	0.21	0.021	0.0044
3	2.09	0.150	0.14	0.42	0.021	0.0088
4	1.94	0.150	0.11	0.13	0.017	0.0021
5	1.79	0.150	0.11	0.24	0.016	0.0038
6	1.64	0.150	0.13	0.58	0.020	0.0113
7	1.49	0.150	0.16	0.50	0.024	0.0120
8	1.34	0.150	0.18	0.59	0.027	0.0159
9	1.19	0.150	0.16	0.62	0.024	0.0149
10	1.04	0.150	0.16	0.87	0.024	0.0209
11	0.89	0.150	0.15	0.58	0.022	0.0126
12	0.74	0.170	0.12	0.48	0.020	0.0098
13	0.55	0.195	0.11	0.47	0.021	0.0101
14	0.35	0.100	0.00	0.00	0.000	0.0000
end	0.35					

Mean Depth (m)	0.12
Mean Velocity (m/s)	0.381

0.376

Discharge (m^3/s)	0.1270

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Eagle Creek
Station Name:	R4
Date and Time:	Sept.22/2016, 16:08
Staff:	GR,NB
UTM Coordinates:	07w 0515985 7145352
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

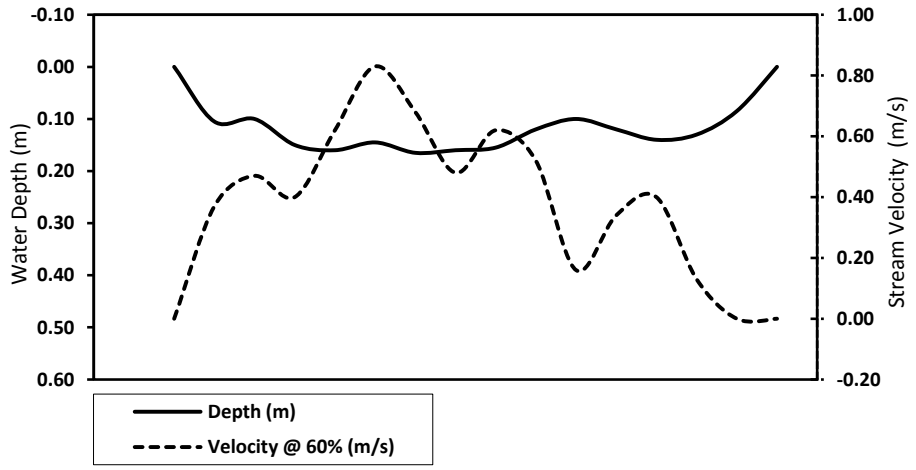
Left Bank	2.54
Right Bank	0.35
Wet.Width	2.19

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.35	0.075	0.00	0.00	0.000	0.0000
1	0.50	0.150	0.11	0.37	0.016	0.0058
2	0.65	0.150	0.10	0.47	0.015	0.0071
3	0.80	0.150	0.15	0.40	0.023	0.0090
4	0.95	0.150	0.16	0.62	0.024	0.0149
5	1.10	0.150	0.15	0.83	0.022	0.0181
6	1.25	0.150	0.17	0.68	0.025	0.0168
7	1.40	0.150	0.16	0.48	0.024	0.0115
8	1.55	0.150	0.16	0.62	0.023	0.0144
9	1.70	0.150	0.12	0.52	0.018	0.0094
10	1.85	0.150	0.10	0.16	0.015	0.0024
11	2.00	0.150	0.12	0.34	0.018	0.0061
12	2.15	0.150	0.14	0.40	0.021	0.0084
13	2.30	0.135	0.13	0.13	0.018	0.0023
14	2.42	0.120	0.09	0.00	0.010	0.0000
15	2.54	0.060	0.00	0.00	0.000	0.0000
end	2.54					

Mean Depth (m)	0.11
Mean Velocity (m/s)	0.376

Discharge (m^3/s)	0.1261

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

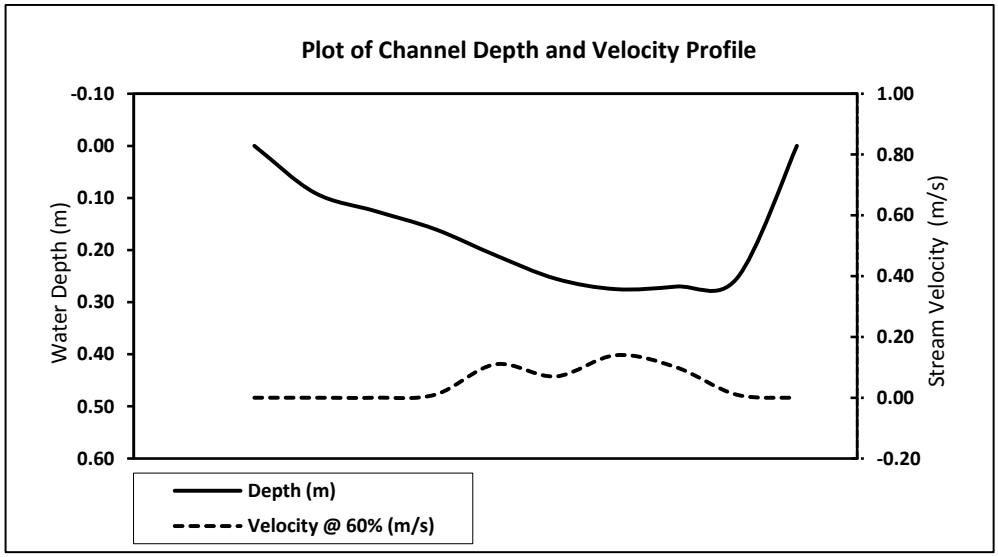
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Porcupine Creek
Station Name:	R7
Date and Time:	Sept.21/2016, 9:34
Staff:	GR,NB
UTM Coordinates:	07w 0513003 7145649
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	1.84
Right Bank	1.1
Wet.Width	0.74

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.10	0.040	0.00	0.00	0.000	0.0000
1	1.18	0.080	0.09	0.00	0.007	0.0000
2	1.26	0.080	0.13	0.00	0.010	0.0000
3	1.34	0.080	0.16	0.01	0.013	0.0001
4	1.42	0.080	0.21	0.11	0.017	0.0018
5	1.50	0.080	0.26	0.07	0.020	0.0014
6	1.58	0.080	0.28	0.14	0.022	0.0031
7	1.66	0.080	0.27	0.10	0.022	0.0022
8	1.74	0.090	0.26	0.01	0.023	0.0002
9	1.84	0.050	0.00	0.00	0.000	0.0000
end	1.84					

Mean Depth (m)	0.16
Mean Velocity (m/s)	0.044

Discharge (m^3/s)	0.0089



Stream Flow & Discharge Calculation

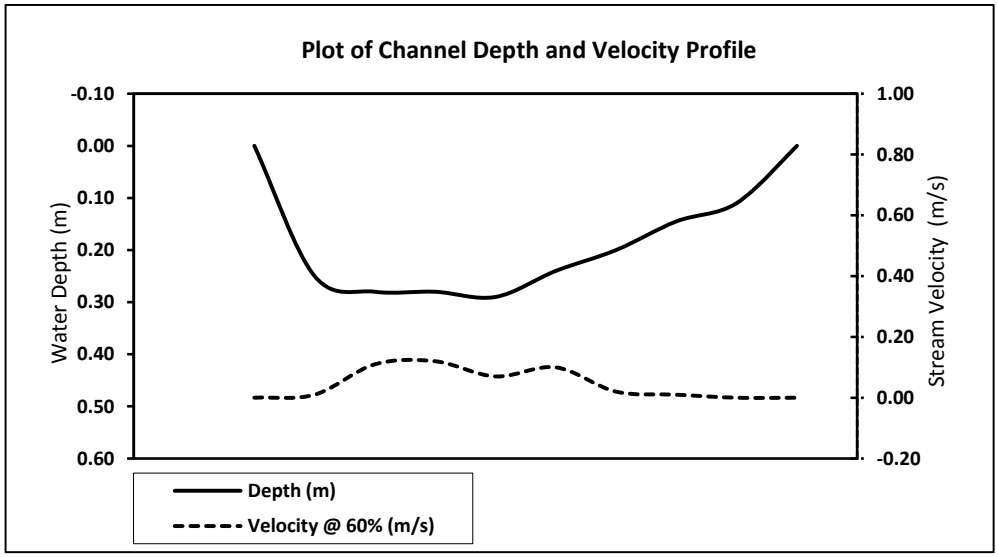
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Porcupine Creek
Station Name:	R7
Date and Time:	Sept.21/2016, 9:34
Staff:	GR,NB
UTM Coordinates:	07w 0513003 7145649
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Left Bank	1.84
Right Bank	1.1
Wet.Width	0.74

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.84	0.040	0.00	0.00	0.000	0.0000
1	1.76	0.080	0.25	0.01	0.020	0.0002
2	1.68	0.080	0.28	0.11	0.022	0.0025
3	1.60	0.080	0.28	0.12	0.022	0.0027
4	1.52	0.080	0.29	0.07	0.023	0.0016
5	1.44	0.080	0.24	0.10	0.019	0.0019
6	1.36	0.080	0.20	0.02	0.016	0.0003
7	1.28	0.080	0.15	0.01	0.012	0.0001
8	1.20	0.090	0.11	0.00	0.010	0.0000
9	1.10	0.050	0.00	0.00	0.000	0.0000
end	1.10					

Mean Depth (m)	0.18
Mean Velocity (m/s)	0.044

Discharge (m^3/s)	0.0093



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R8
Date and Time:	Sept.23/2016, 17:06
Staff:	GR,NB
UTM Coordinates:	07w 0511894 7147906
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

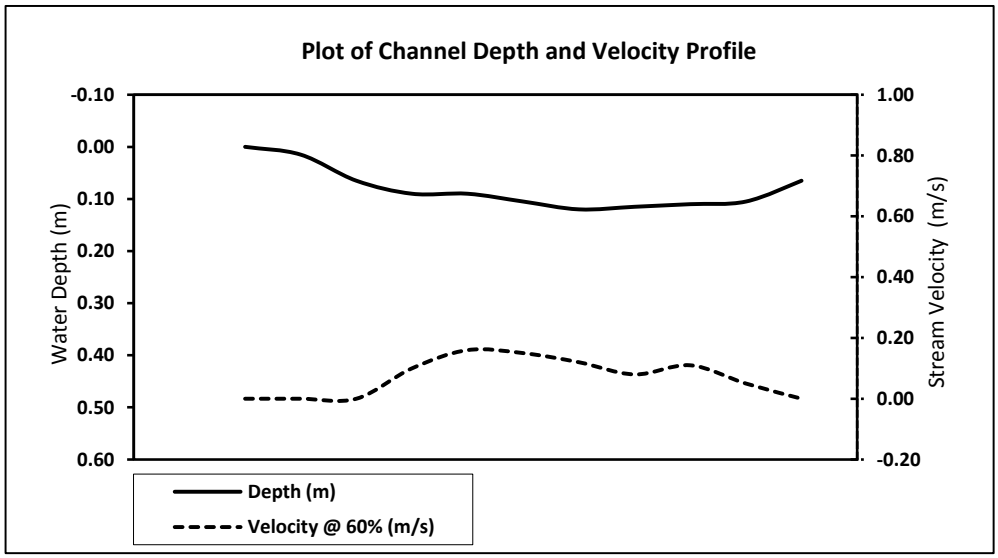
Left Bank	1.85
Right Bank	0.9
Wet.Width	0.95

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.90	0.040	0.00	0.00	0.000	0.0000
1	1.00	0.095	0.02	0.00	0.001	0.0000
2	1.09	0.093	0.07	0.00	0.006	0.0000
3	1.18	0.090	0.09	0.10	0.008	0.0008
4	1.27	0.090	0.09	0.16	0.008	0.0013
5	1.36	0.090	0.11	0.15	0.009	0.0014
6	1.45	0.090	0.12	0.12	0.011	0.0013
7	1.54	0.090	0.12	0.08	0.010	0.0008
8	1.63	0.090	0.11	0.11	0.010	0.0011
9	1.72	0.110	0.11	0.05	0.012	0.0006
10	1.85	0.065	0.07	0.00	0.004	0.0000
end	1.85					

Mean Depth (m)	0.08
Mean Velocity (m/s)	0.070

0.058

Discharge (m^3/s)	0.0073



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R8
Date and Time:	Sept.23/2016, 17:06
Staff:	GR,NB
UTM Coordinates:	07w 0511894 7147906
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

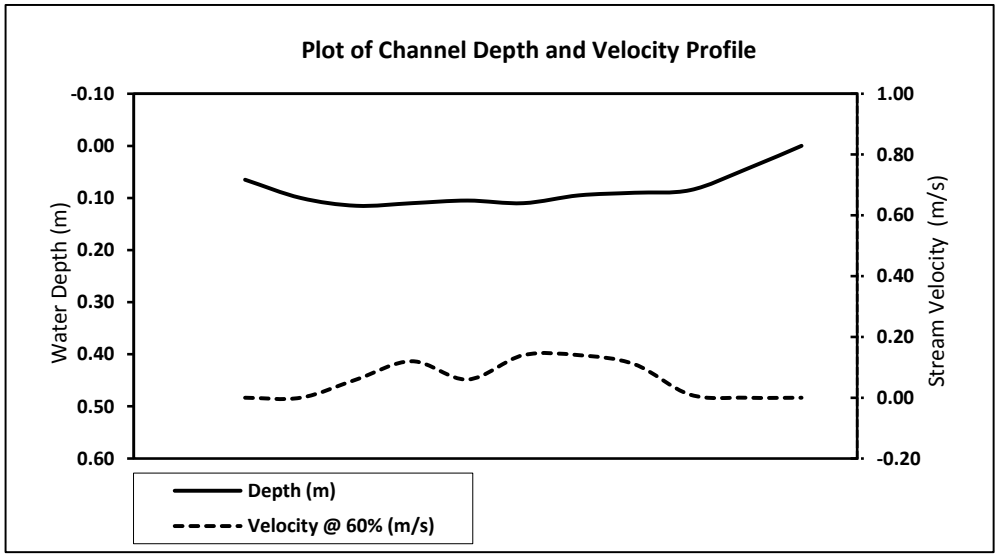
Ecological Logistics & Research Ltd.

Left Bank	1.85
Right Bank	0.9
Wet.Width	0.95

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.85	0.045	0.07	0.00	0.003	0.0000
1	1.76	0.090	0.10	0.00	0.009	0.0000
2	1.67	0.090	0.12	0.06	0.010	0.0006
3	1.58	0.090	0.11	0.12	0.010	0.0012
4	1.49	0.090	0.11	0.06	0.009	0.0006
5	1.40	0.090	0.11	0.14	0.010	0.0014
6	1.31	0.090	0.10	0.14	0.009	0.0012
7	1.22	0.090	0.09	0.11	0.008	0.0009
8	1.13	0.090	0.09	0.01	0.008	0.0001
9	1.04	0.115	0.05	0.00	0.005	0.0000
10	0.90	0.070	0.00	0.00	0.000	0.0000
end	0.90					

Mean Depth (m)	0.08
Mean Velocity (m/s)	0.058

Discharge (m^3/s)	0.0059



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R9
Date and Time:	Sept.23/2016. 18:07
Staff:	GR,NB
UTM Coordinates:	07w 05123441 7146751
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Ecological Logistics & Research Ltd.

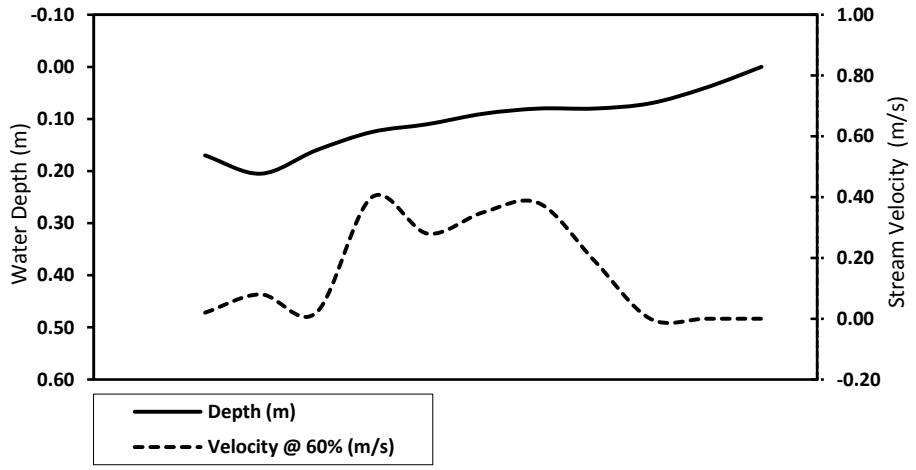
Left Bank	1.23
Right Bank	0.34
Wet.Width	0.89

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.34	0.045	0.17	0.02	0.008	0.0002
1	0.43	0.090	0.21	0.08	0.018	0.0015
2	0.52	0.090	0.16	0.02	0.014	0.0003
3	0.61	0.090	0.13	0.40	0.011	0.0045
4	0.70	0.090	0.11	0.28	0.010	0.0028
5	0.79	0.090	0.09	0.35	0.008	0.0028
6	0.88	0.090	0.08	0.38	0.007	0.0027
7	0.97	0.090	0.08	0.19	0.007	0.0014
8	1.06	0.090	0.07	0.00	0.006	0.0000
9	1.15	0.085	0.04	0.00	0.003	0.0000
10	1.23	0.040	0.00	0.00	0.000	0.0000
end	1.23					

Mean Depth (m)	0.10
Mean Velocity (m/s)	0.156

Discharge (m^3/s)	0.0161

Plot of Channel Depth and Velocity Profile



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R9
Date and Time:	Sept.23/2016. 18:07
Staff:	GR,NB
UTM Coordinates:	07w 05123441 7146751
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

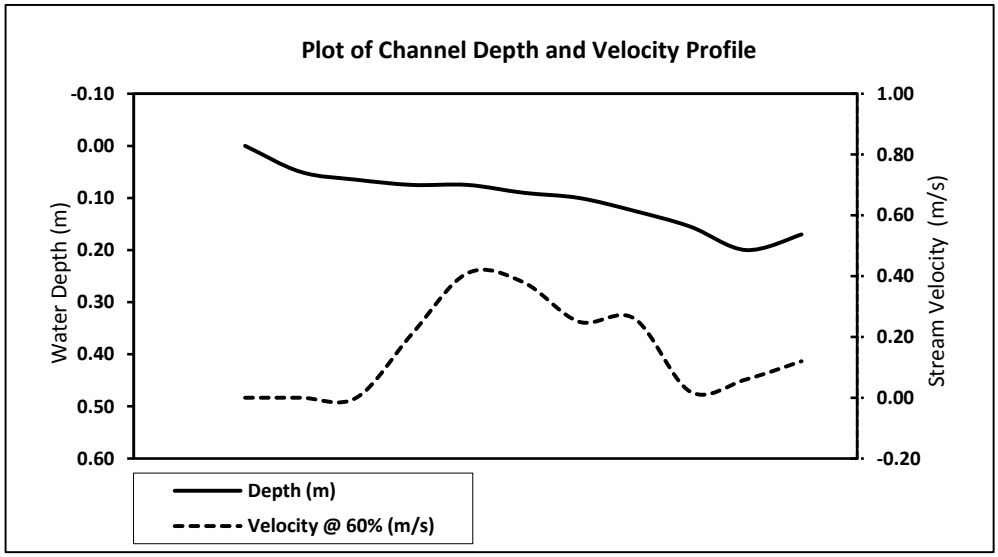
Ecological Logistics & Research Ltd.

Left Bank	1.23
Right Bank	0.34
Wet.Width	0.89

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.23	0.045	0.00	0.00	0.000	0.0000
1	1.14	0.090	0.05	0.00	0.005	0.0000
2	1.05	0.090	0.07	0.00	0.006	0.0000
3	0.96	0.090	0.08	0.21	0.007	0.0014
4	0.87	0.090	0.08	0.41	0.007	0.0028
5	0.78	0.090	0.09	0.38	0.008	0.0031
6	0.69	0.090	0.10	0.25	0.009	0.0023
7	0.60	0.090	0.13	0.26	0.011	0.0029
8	0.51	0.090	0.16	0.02	0.014	0.0003
9	0.42	0.085	0.20	0.06	0.017	0.0010
10	0.34	0.040	0.17	0.12	0.007	0.0008
end	0.34					

Mean Depth (m)	0.10
Mean Velocity (m/s)	0.155

Discharge (m^3/s)	0.0146



Stream Flow & Discharge Calculation

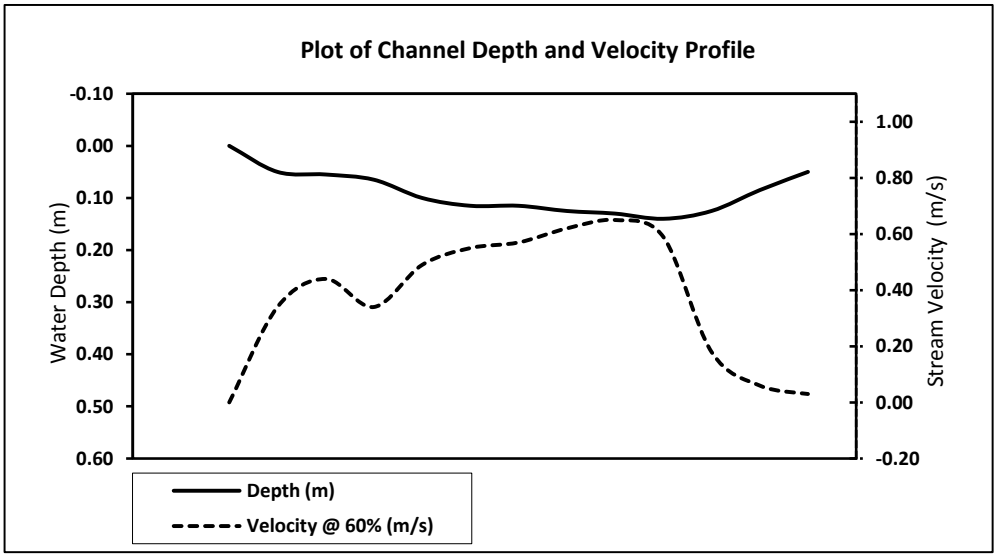
ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R11(H)
Date and Time:	Sept.20/2016, 13:20
Staff:	GR,NB
UTM Coordinates:	07w 0514161 7147784
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	1

Left Bank	1.97
Right Bank	0.57
Wet.Width	1.4

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	1.97	0.185	0.00	0.00	0.000	0.0000
1	1.60	0.210	0.05	0.34	0.011	0.0036
2	1.55	0.050	0.06	0.44	0.003	0.0012
3	1.50	0.075	0.07	0.34	0.005	0.0017
4	1.40	0.100	0.10	0.49	0.010	0.0049
5	1.30	0.100	0.12	0.55	0.012	0.0063
6	1.20	0.100	0.12	0.57	0.012	0.0066
7	1.10	0.100	0.13	0.62	0.013	0.0078
8	1.00	0.100	0.13	0.65	0.013	0.0085
9	0.90	0.100	0.14	0.59	0.014	0.0083
10	0.80	0.100	0.13	0.18	0.013	0.0023
11	0.70	0.115	0.09	0.06	0.010	0.0006
12	0.57	0.065	0.05	0.03	0.003	0.0001
end	0.57					

Mean Depth (m)	0.09
Mean Velocity (m/s)	0.374

Discharge (m^3/s)	0.0516



Stream Flow & Discharge Calculation

ELR Project No.	16-240.5
Site / Location:	Clinton Creek Site
Stream Name:	Unnamed Creek
Station Name:	R11(H)
Date and Time:	Sept.20/2016, 13:20
Staff:	GR,NB
UTM Coordinates:	07w 0514161 7147784
Technique:	Swoffer
Temp., Water/Air (°C)	N/A
Crossing Number	2

Ecological Logistics & Research Ltd.

Left Bank	1.97
Right Bank	0.57
Wet.Width	1.4

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m^2)	Panel Discharge (m^3/s)
0	0.57	0.050	0.05	0.03	0.003	0.0001
1	0.67	0.100	0.08	0.05	0.008	0.0004
2	0.77	0.100	0.12	0.11	0.012	0.0013
3	0.87	0.100	0.13	0.60	0.013	0.0078
4	0.97	0.100	0.14	0.64	0.014	0.0090
5	1.07	0.100	0.13	0.63	0.013	0.0082
6	1.17	0.100	0.11	0.59	0.011	0.0065
7	1.27	0.100	0.11	0.54	0.011	0.0059
8	1.37	0.100	0.11	0.49	0.011	0.0051
9	1.47	0.075	0.08	0.40	0.006	0.0024
10	1.52	0.050	0.07	0.33	0.003	0.0011
11	1.57	0.040	0.06	0.42	0.002	0.0009
12	1.60	0.200	0.04	0.43	0.008	0.0034
13	1.97	0.185	0.00	0.00	0.000	0.0000
end	1.97					

Mean Depth (m)	0.09
Mean Velocity (m/s)	0.376

Discharge (m^3/s)	0.0521

Plot of Channel Depth and Velocity Profile