

### Stream Flow & Discharge Calculation

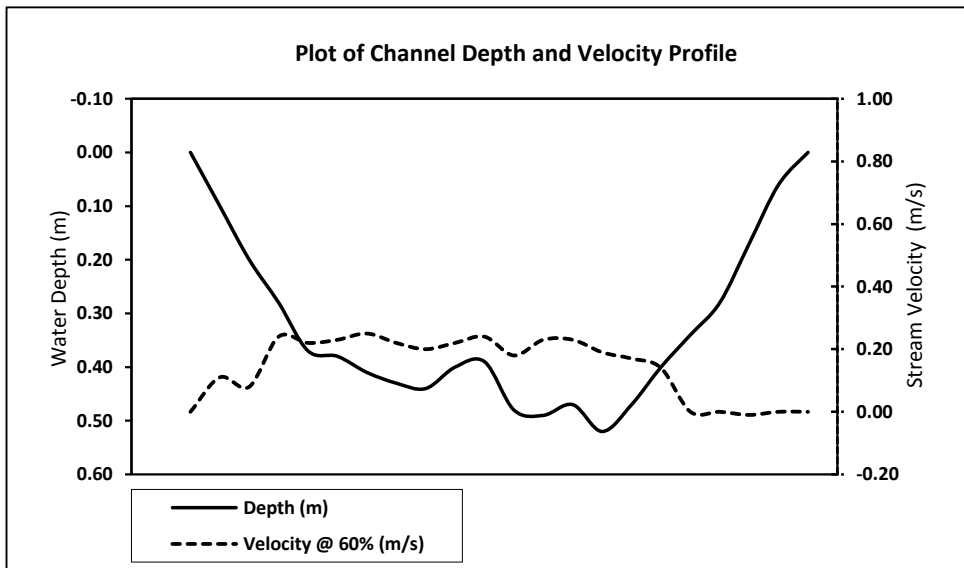


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E1(H)		
Date and Time:	Jun.13/2016, 13:45		
Staff:	AN,CH		
UTM Coordinates:	512800. 7147438		
Technique:	Swoffer Flow Meter	Left Bank	2
Temp., Water/Air (°C)	14.9/~8	Right Bank	12.44
Crossing Number	1	Wet.Width	10.44

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	2.00	0.250	0.00	0.00	0.000	0.0000
1	2.50	0.500	0.10	0.11	0.050	0.0055
2	3.00	0.650	0.20	0.08	0.130	0.0104
3	3.80	0.500	0.28	0.24	0.140	0.0336
4	4.00	0.350	0.37	0.22	0.130	0.0285
5	4.50	0.500	0.38	0.23	0.190	0.0437
6	5.00	0.500	0.41	0.25	0.205	0.0513
7	5.50	0.500	0.43	0.22	0.215	0.0473
8	6.00	0.500	0.44	0.20	0.220	0.0440
9	6.50	0.500	0.40	0.22	0.200	0.0440
10	7.00	0.500	0.39	0.24	0.195	0.0468
11	7.50	0.500	0.48	0.18	0.240	0.0432
12	8.00	0.500	0.49	0.23	0.245	0.0564
13	8.50	0.500	0.47	0.23	0.235	0.0541
14	9.00	0.500	0.52	0.19	0.260	0.0494
15	9.50	0.500	0.47	0.17	0.235	0.0400
16	10.00	0.500	0.40	0.14	0.200	0.0280
17	10.50	0.500	0.34	0.00	0.170	0.0000
18	11.00	0.500	0.28	0.00	0.140	0.0000
19	11.50	0.500	0.17	-0.01	0.085	-0.0009
20	12.00	0.470	0.06	0.00	0.028	0.0000
21	12.44	0.220	0.00	0.00	0.000	0.0000
end	12.44					

Mean Depth (m)	0.32
Mean Velocity (m/s)	0.14

Discharge (m <sup>3</sup> /s)	0.6251
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### Stream Flow & Discharge Calculation

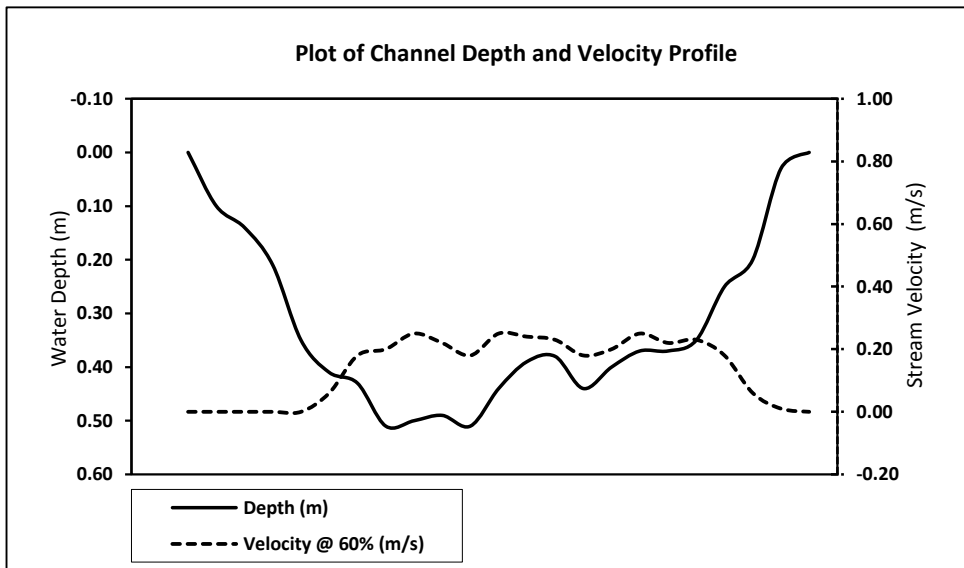


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E1(H)		
Date and Time:	Jun.13/2016, 13:45		
Staff:	AN,CH		
UTM Coordinates:	512800. 7147438		
Technique:	Swoffer Flow Meter	Left Bank	2
Temp., Water/Air (°C)	14.9/~8	Right Bank	12.44
Crossing Number	2	Wet.Width	10.44

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	12.44	0.095	0.00	0.00	0.000	0.0000
1	12.25	0.345	0.10	0.00	0.035	0.0000
2	11.75	0.500	0.14	0.00	0.070	0.0000
3	11.25	0.500	0.21	0.00	0.105	0.0000
4	10.75	0.500	0.35	0.00	0.175	0.0000
5	10.25	0.500	0.41	0.06	0.205	0.0123
6	9.75	0.500	0.43	0.18	0.215	0.0387
7	9.25	0.500	0.51	0.20	0.255	0.0510
8	8.75	0.500	0.50	0.25	0.250	0.0625
9	8.25	0.500	0.49	0.22	0.245	0.0539
10	7.75	0.500	0.51	0.18	0.255	0.0459
11	7.25	0.500	0.44	0.25	0.220	0.0550
12	6.75	0.500	0.39	0.24	0.195	0.0468
13	6.25	0.500	0.38	0.23	0.190	0.0437
14	5.75	0.500	0.44	0.18	0.220	0.0396
15	5.25	0.500	0.40	0.20	0.200	0.0400
16	4.75	0.500	0.37	0.25	0.185	0.0463
17	4.25	0.500	0.37	0.22	0.185	0.0407
18	3.75	0.500	0.35	0.23	0.175	0.0403
19	3.25	0.500	0.25	0.18	0.125	0.0225
20	2.75	0.500	0.20	0.06	0.100	0.0060
21	2.25	0.375	0.03	0.01	0.011	0.0001
22	2.00	0.125	0.00	0.00	0.000	0.0000
end	2.00					

Mean Depth (m)	0.32
Mean Velocity (m/s)	0.14

Discharge (m <sup>3</sup> /s)	0.6452
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### Stream Flow & Discharge Calculation

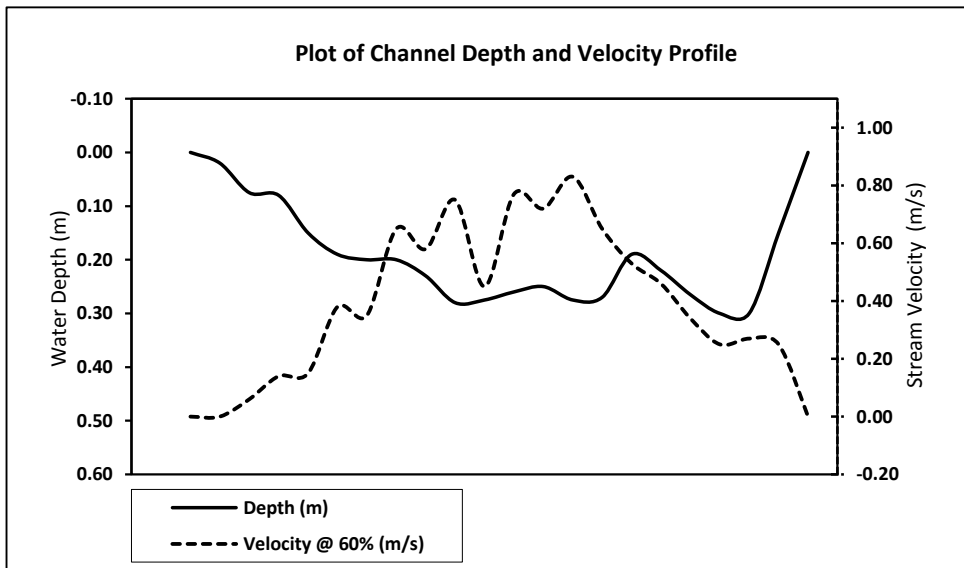


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E2		
Date and Time:	Jun.15/2016, 11:20		
Staff:	AN,CH		
UTM Coordinates:	514149. 7147189		
Technique:	Swoffer Flow Meter	Left Bank	1.4
Temp., Water/Air (°C)	13.6/~15	Right Bank	7.75
Crossing Number	1	Wet.Width	6.35

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	1.40	0.150	0.00	0.00	0.000	0.0000
1	1.70	0.300	0.02	0.00	0.006	0.0000
2	2.00	0.300	0.08	0.06	0.023	0.0014
3	2.30	0.300	0.08	0.14	0.024	0.0034
4	2.60	0.300	0.15	0.15	0.045	0.0068
5	2.90	0.300	0.19	0.38	0.057	0.0217
6	3.20	0.300	0.20	0.35	0.060	0.0210
7	3.50	0.300	0.20	0.65	0.060	0.0390
8	3.80	0.300	0.23	0.58	0.069	0.0400
9	4.10	0.300	0.28	0.75	0.084	0.0630
10	4.40	0.300	0.28	0.45	0.083	0.0371
11	4.70	0.300	0.26	0.77	0.078	0.0601
12	5.00	0.300	0.25	0.72	0.075	0.0540
13	5.30	0.300	0.28	0.83	0.083	0.0685
14	5.60	0.300	0.27	0.65	0.081	0.0527
15	5.90	0.300	0.19	0.53	0.057	0.0302
16	6.20	0.300	0.22	0.46	0.066	0.0304
17	6.50	0.300	0.27	0.34	0.080	0.0270
18	6.80	0.300	0.30	0.25	0.090	0.0225
19	7.10	0.300	0.30	0.27	0.090	0.0243
20	7.40	0.325	0.15	0.25	0.049	0.0122
21	7.75	0.175	0.00	0.00	0.000	0.0000
end	7.75					

Mean Depth (m)	0.19
Mean Velocity (m/s)	0.39

Discharge (m <sup>3</sup> /s)	0.6150
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### Stream Flow & Discharge Calculation

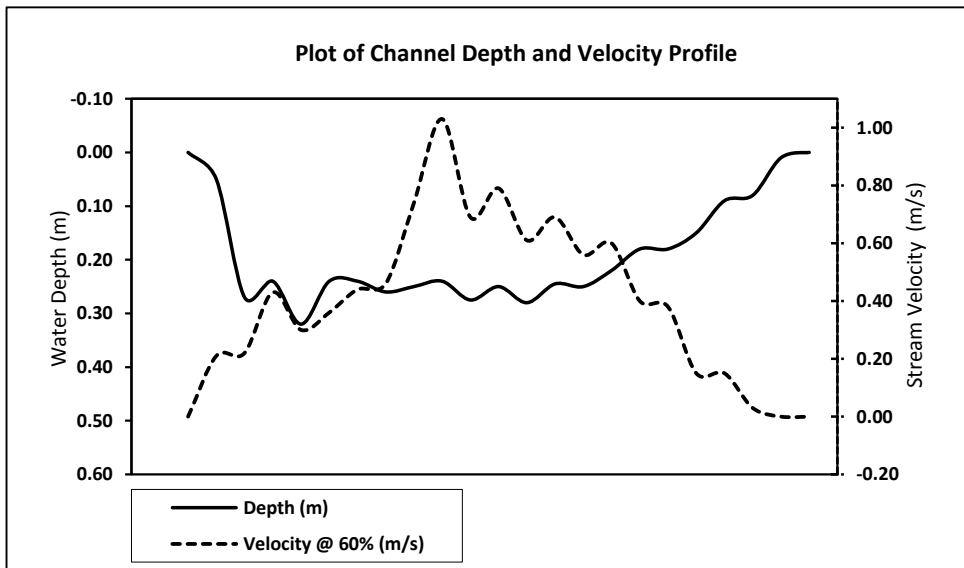


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E2		
Date and Time:	Jun.15/2016, 11:20		
Staff:	AN,CH		
UTM Coordinates:	514149. 7147189		
Technique:	Swoffer Flow Meter	Left Bank	1.4
Temp., Water/Air (°C)	13.6/~15	Right Bank	7.75
Crossing Number	2	Wet.Width	6.35

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	7.75	0.075	0.00	0.00	0.000	0.0000
1	7.60	0.225	0.05	0.21	0.011	0.0024
2	7.30	0.300	0.27	0.22	0.081	0.0178
3	7.00	0.300	0.24	0.43	0.072	0.0310
4	6.70	0.300	0.32	0.30	0.096	0.0288
5	6.40	0.300	0.24	0.36	0.072	0.0259
6	6.10	0.300	0.24	0.44	0.072	0.0317
7	5.80	0.300	0.26	0.46	0.078	0.0359
8	5.50	0.300	0.25	0.74	0.075	0.0555
9	5.20	0.300	0.24	1.03	0.072	0.0742
10	4.90	0.300	0.28	0.69	0.083	0.0569
11	4.60	0.300	0.25	0.79	0.075	0.0593
12	4.30	0.300	0.28	0.61	0.084	0.0512
13	4.00	0.300	0.25	0.69	0.074	0.0507
14	3.70	0.300	0.25	0.56	0.075	0.0420
15	3.40	0.300	0.22	0.60	0.066	0.0396
16	3.10	0.300	0.18	0.40	0.054	0.0216
17	2.80	0.300	0.18	0.38	0.054	0.0205
18	2.50	0.300	0.15	0.15	0.045	0.0068
19	2.20	0.300	0.09	0.15	0.027	0.0041
20	1.90	0.300	0.08	0.03	0.024	0.0007
21	1.60	0.250	0.01	0.00	0.003	0.0000
22	1.40	0.100	0.00	0.00	0.000	0.0000
end	1.40					

Mean Depth (m)	0.19
Mean Velocity (m/s)	0.40

Discharge (m <sup>3</sup> /s)	0.6565
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### Stream Flow & Discharge Calculation

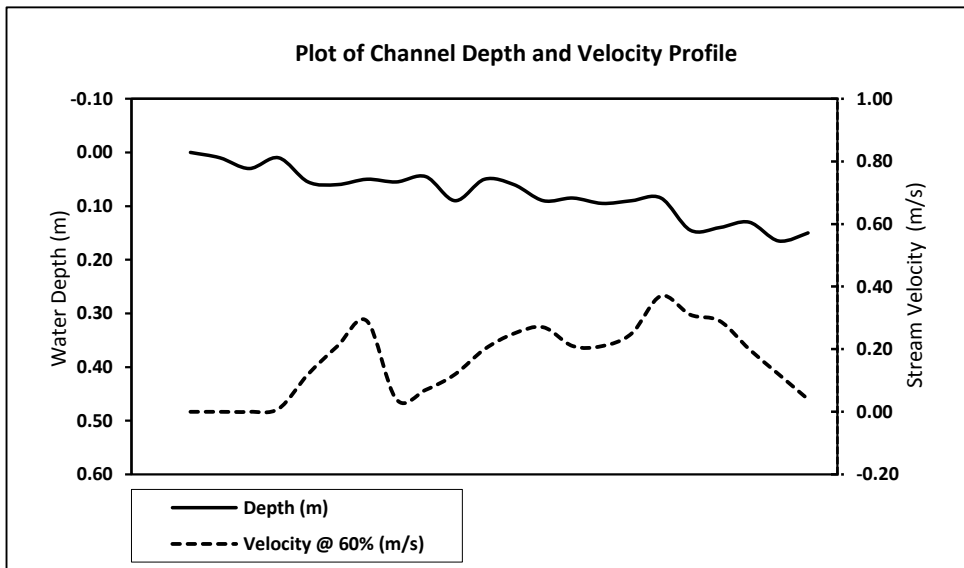


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Wolverine Creek		
Station Name:	E3(H)		
Date and Time:	Jun.18/2016, 9:00		
Staff:	AN,CH		
UTM Coordinates:	514170. 7147608		
Technique:	Swoffer Flow Meter	Left Bank	3.94
Temp., Water/Air (°C)	not measured/~10	Right Bank	0.58
Crossing Number	1	Wet.Width	3.36

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	3.94	0.075	0.00	0.00	0.000	0.0000
1	3.80	0.145	0.01	0.00	0.001	0.0000
2	3.65	0.150	0.03	0.00	0.005	0.0000
3	3.50	0.150	0.01	0.01	0.002	0.0000
4	3.35	0.150	0.06	0.12	0.008	0.0010
5	3.20	0.150	0.06	0.21	0.009	0.0019
6	3.05	0.150	0.05	0.29	0.008	0.0022
7	2.90	0.150	0.06	0.04	0.008	0.0003
8	2.75	0.150	0.05	0.07	0.007	0.0005
9	2.60	0.150	0.09	0.12	0.014	0.0016
10	2.45	0.150	0.05	0.20	0.008	0.0015
11	2.30	0.150	0.06	0.25	0.009	0.0023
12	2.15	0.150	0.09	0.27	0.014	0.0036
13	2.00	0.150	0.09	0.21	0.013	0.0027
14	1.85	0.150	0.10	0.21	0.014	0.0030
15	1.70	0.150	0.09	0.25	0.014	0.0034
16	1.55	0.150	0.09	0.37	0.013	0.0047
17	1.40	0.150	0.15	0.31	0.022	0.0067
18	1.25	0.150	0.14	0.29	0.021	0.0061
19	1.10	0.150	0.13	0.20	0.020	0.0039
20	0.95	0.260	0.17	0.12	0.043	0.0051
21	0.58	0.185	0.15	0.04	0.028	0.0011
end	0.58					

Mean Depth (m)	0.08
Mean Velocity (m/s)	0.16

Discharge (m <sup>3</sup> /s)	0.0516
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### Stream Flow & Discharge Calculation

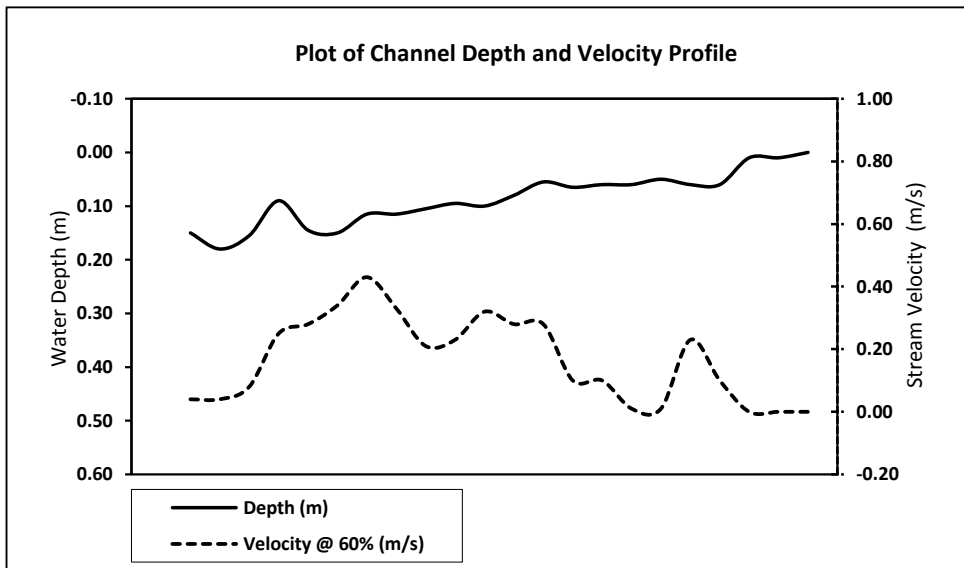


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Wolverine Creek		
Station Name:	E3(H)		
Date and Time:	Jun.18/2016, 9:00		
Staff:	AN,CH		
UTM Coordinates:	514170. 7147608		
Technique:	Swoffer Flow Meter	Left Bank	3.94
Temp., Water/Air (°C)	not measured/~10	Right Bank	0.58
Crossing Number	2	Wet.Width	3.36

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.58	0.085	0.15	0.04	0.013	0.0005
1	0.75	0.160	0.18	0.04	0.029	0.0012
2	0.90	0.150	0.16	0.08	0.023	0.0019
3	1.05	0.150	0.09	0.25	0.014	0.0034
4	1.20	0.150	0.15	0.28	0.022	0.0061
5	1.35	0.150	0.15	0.34	0.023	0.0077
6	1.50	0.150	0.12	0.43	0.017	0.0074
7	1.65	0.150	0.12	0.33	0.017	0.0057
8	1.80	0.150	0.11	0.21	0.016	0.0033
9	1.95	0.150	0.10	0.23	0.014	0.0033
10	2.10	0.150	0.10	0.32	0.015	0.0048
11	2.25	0.150	0.08	0.28	0.012	0.0034
12	2.40	0.150	0.06	0.28	0.008	0.0023
13	2.55	0.150	0.07	0.10	0.010	0.0010
14	2.70	0.150	0.06	0.10	0.009	0.0009
15	2.85	0.150	0.06	0.01	0.009	0.0001
16	3.00	0.150	0.05	0.01	0.008	0.0001
17	3.15	0.150	0.06	0.23	0.009	0.0021
18	3.30	0.150	0.06	0.10	0.009	0.0009
19	3.45	0.150	0.01	0.00	0.002	0.0000
20	3.60	0.245	0.01	0.00	0.002	0.0000
21	3.94	0.170	0.00	0.00	0.000	0.0000
end	3.94					

Mean Depth (m)	0.09
Mean Velocity (m/s)	0.17

Discharge (m <sup>3</sup> /s)	0.0558
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### Stream Flow & Discharge Calculation

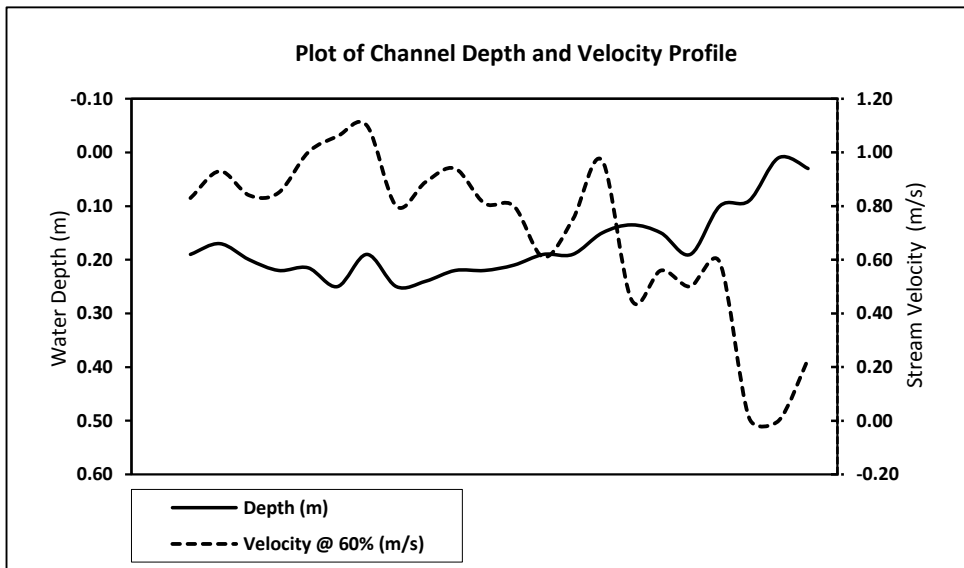


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E4		
Date and Time:	Jun.15/2016, 13:30		
Staff:	AN,CH		
UTM Coordinates:	515950. 7145287		
Technique:	Swoffer Flow Meter	Left Bank	0.2
Temp., Water/Air (°C)	13.4/~12	Right Bank	6.5
Crossing Number	1	Wet.Width	6.3

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.20	0.150	0.19	0.83	0.029	0.0237
1	0.50	0.300	0.17	0.93	0.051	0.0474
2	0.80	0.300	0.20	0.84	0.060	0.0504
3	1.10	0.300	0.22	0.85	0.066	0.0561
4	1.40	0.300	0.22	1.00	0.065	0.0645
5	1.70	0.300	0.25	1.06	0.075	0.0795
6	2.00	0.300	0.19	1.10	0.057	0.0627
7	2.30	0.300	0.25	0.80	0.075	0.0600
8	2.60	0.300	0.24	0.89	0.072	0.0641
9	2.90	0.300	0.22	0.94	0.066	0.0620
10	3.20	0.300	0.22	0.81	0.066	0.0535
11	3.50	0.300	0.21	0.80	0.063	0.0504
12	3.80	0.300	0.19	0.61	0.057	0.0348
13	4.10	0.300	0.19	0.75	0.057	0.0428
14	4.40	0.300	0.15	0.97	0.045	0.0437
15	4.70	0.300	0.14	0.45	0.041	0.0182
16	5.00	0.300	0.15	0.56	0.045	0.0252
17	5.30	0.300	0.19	0.50	0.057	0.0285
18	5.60	0.300	0.10	0.59	0.030	0.0177
19	5.90	0.250	0.09	0.01	0.023	0.0002
20	6.10	0.300	0.01	0.00	0.003	0.0000
21	6.50	0.200	0.03	0.23	0.006	0.0014
end	6.50					

Mean Depth (m)	0.17
Mean Velocity (m/s)	0.71

Discharge (m <sup>3</sup> /s)	0.8867
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### Stream Flow & Discharge Calculation

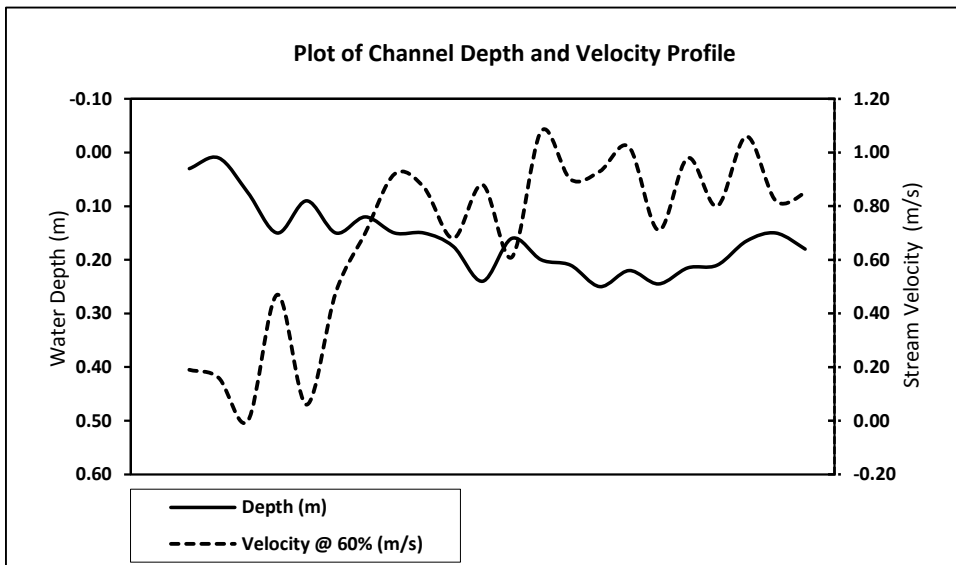


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E4		
Date and Time:	Jun.15/2016, 13:30		
Staff:	AN,CH		
UTM Coordinates:	515950. 7145287		
Technique:	Swoffer Flow Meter	Left Bank	0.4
Temp., Water/Air (°C)	13.4/~12	Right Bank	6.5
Crossing Number	2	Wet.Width	6.1

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	6.50	0.100	0.03	0.19	0.003	0.0006
1	6.30	0.250	0.01	0.16	0.003	0.0004
2	6.00	0.300	0.08	0.00	0.023	0.0000
3	5.70	0.300	0.15	0.47	0.045	0.0212
4	5.40	0.300	0.09	0.06	0.027	0.0016
5	5.10	0.300	0.15	0.48	0.045	0.0216
6	4.80	0.300	0.12	0.70	0.036	0.0252
7	4.50	0.300	0.15	0.92	0.045	0.0414
8	4.20	0.300	0.15	0.87	0.045	0.0392
9	3.90	0.300	0.18	0.68	0.053	0.0357
10	3.60	0.300	0.24	0.88	0.072	0.0634
11	3.30	0.300	0.16	0.61	0.048	0.0293
12	3.00	0.300	0.20	1.08	0.060	0.0648
13	2.70	0.300	0.21	0.90	0.063	0.0567
14	2.40	0.300	0.25	0.93	0.075	0.0698
15	2.10	0.300	0.22	1.02	0.066	0.0673
16	1.80	0.300	0.25	0.71	0.074	0.0522
17	1.50	0.300	0.22	0.98	0.065	0.0632
18	1.20	0.300	0.21	0.80	0.063	0.0504
19	0.90	0.300	0.17	1.06	0.050	0.0525
20	0.60	0.250	0.15	0.82	0.038	0.0308
21	0.40	0.100	0.18	0.85	0.018	0.0153
end	0.40					

Mean Depth (m)	0.16
Mean Velocity (m/s)	0.69

Discharge (m <sup>3</sup> /s)	0.8023
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### Stream Flow & Discharge Calculation

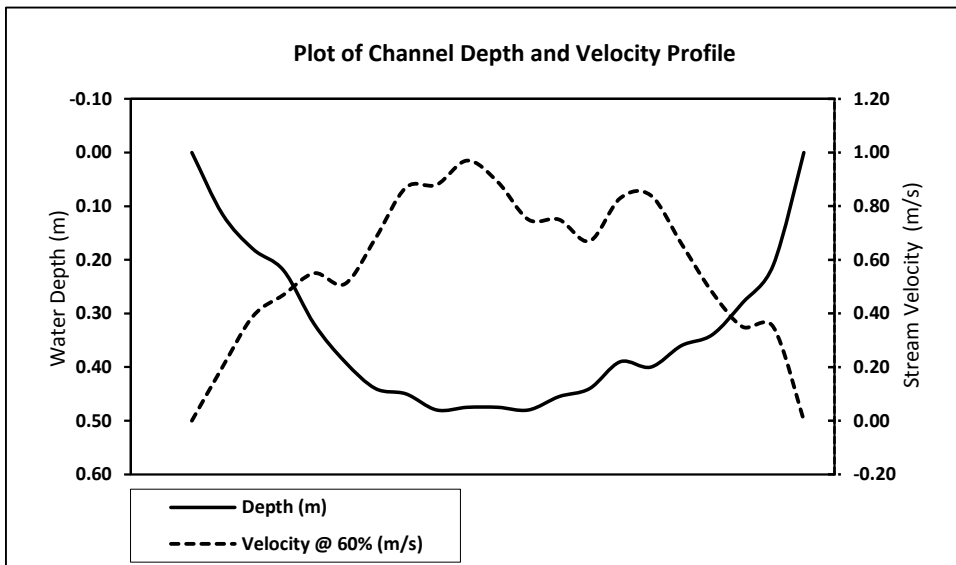


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E7		
Date and Time:	Jun.15/2016, 15:15		
Staff:	AN,CH		
UTM Coordinates:	519400. 7142042		
Technique:	Swoffer Flow Meter	Left Bank	0.5
Temp., Water/Air (°C)	11.8/~15	Right Bank	4.6
Crossing Number	1	Wet.Width	4.1

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	4.60	0.100	0.00	0.00	0.000	0.0000
1	4.40	0.200	0.12	0.20	0.023	0.0046
2	4.20	0.200	0.18	0.39	0.036	0.0140
3	4.00	0.200	0.22	0.47	0.044	0.0207
4	3.80	0.200	0.32	0.55	0.064	0.0352
5	3.60	0.200	0.39	0.51	0.078	0.0398
6	3.40	0.200	0.44	0.68	0.088	0.0598
7	3.20	0.200	0.45	0.87	0.090	0.0783
8	3.00	0.200	0.48	0.88	0.096	0.0845
9	2.80	0.200	0.48	0.97	0.095	0.0922
10	2.60	0.200	0.48	0.89	0.095	0.0846
11	2.40	0.200	0.48	0.75	0.096	0.0720
12	2.20	0.200	0.46	0.75	0.091	0.0683
13	2.00	0.200	0.44	0.67	0.088	0.0590
14	1.80	0.200	0.39	0.83	0.078	0.0647
15	1.60	0.200	0.40	0.84	0.080	0.0672
16	1.40	0.200	0.36	0.66	0.072	0.0475
17	1.20	0.200	0.34	0.48	0.068	0.0326
18	1.00	0.200	0.28	0.35	0.056	0.0196
19	0.80	0.250	0.21	0.35	0.053	0.0184
20	0.50	0.150	0.00	0.00	0.000	0.0000
end	0.50					

Mean Depth (m)	0.33
Mean Velocity (m/s)	0.58

Discharge (m <sup>3</sup> /s)	0.9629
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### Stream Flow & Discharge Calculation

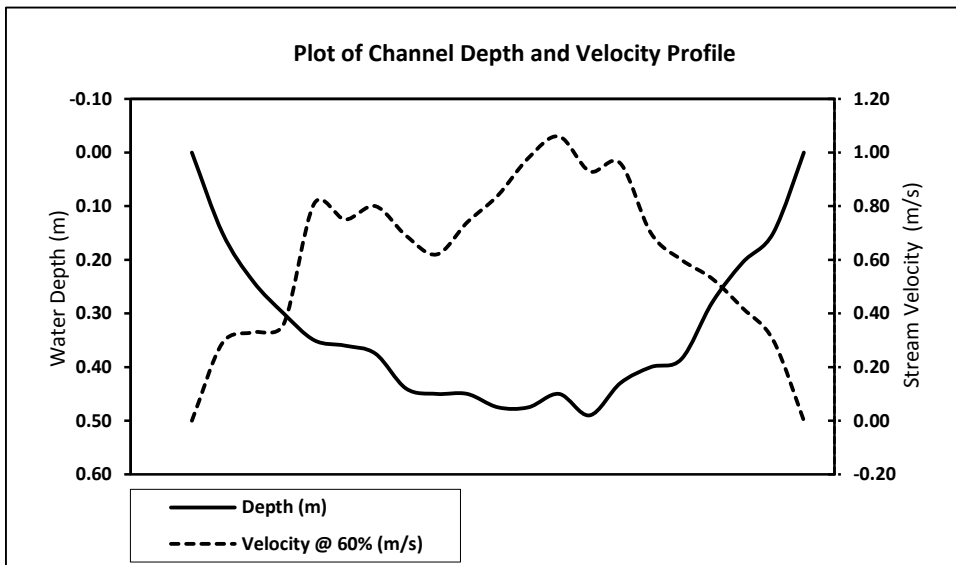


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Clinton Creek		
Station Name:	E7		
Date and Time:	Jun.15/2016, 15:15		
Staff:	AN,CH		
UTM Coordinates:	519400. 7142042		
Technique:	Swoffer Flow Meter	Left Bank	0.5
Temp., Water/Air (°C)	11.8/~15	Right Bank	4.6
Crossing Number	2	Wet.Width	4.1

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.50	0.100	0.00	0.00	0.000	0.0000
1	0.70	0.200	0.15	0.29	0.030	0.0087
2	0.90	0.200	0.24	0.33	0.048	0.0158
3	1.10	0.200	0.30	0.36	0.060	0.0216
4	1.30	0.200	0.35	0.81	0.070	0.0567
5	1.50	0.200	0.36	0.75	0.072	0.0540
6	1.70	0.200	0.38	0.80	0.075	0.0600
7	1.90	0.200	0.44	0.69	0.088	0.0607
8	2.10	0.200	0.45	0.62	0.090	0.0558
9	2.30	0.200	0.45	0.74	0.090	0.0666
10	2.50	0.200	0.48	0.84	0.095	0.0798
11	2.70	0.200	0.48	0.98	0.095	0.0931
12	2.90	0.200	0.45	1.06	0.090	0.0954
13	3.10	0.200	0.49	0.93	0.098	0.0911
14	3.30	0.200	0.43	0.96	0.086	0.0826
15	3.50	0.200	0.40	0.70	0.080	0.0560
16	3.70	0.200	0.39	0.60	0.077	0.0462
17	3.90	0.200	0.28	0.53	0.056	0.0297
18	4.10	0.200	0.21	0.42	0.041	0.0172
19	4.30	0.250	0.15	0.30	0.038	0.0113
20	4.60	0.150	0.00	0.00	0.000	0.0000
end	4.60					

Mean Depth (m)	0.33
Mean Velocity (m/s)	0.61

Discharge (m <sup>3</sup> /s)	1.0023
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### Stream Flow & Discharge Calculation

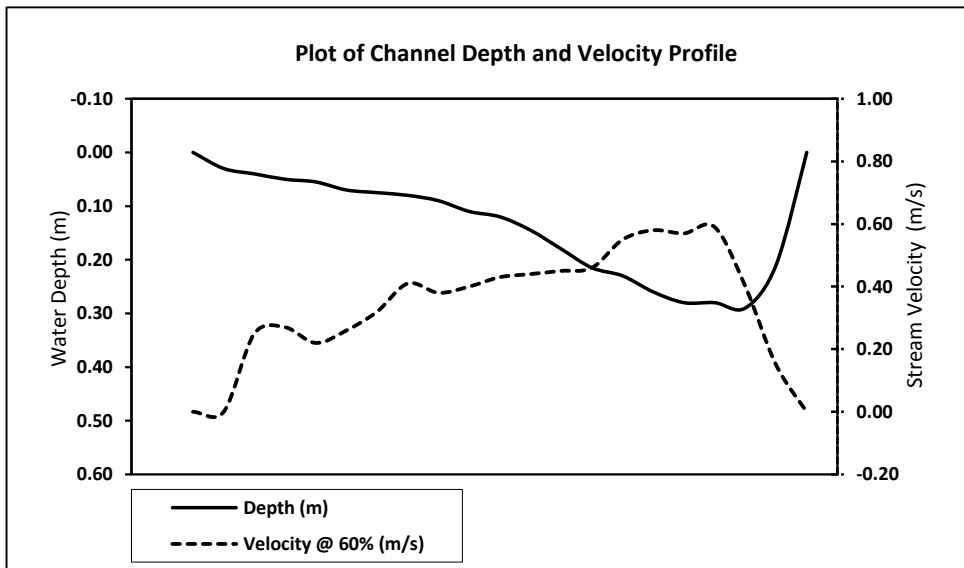


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Upper Clinton Creek		
Station Name:	R1		
Date and Time:	Jun.16/2016, 15:15		
Staff:	AN,CH		
UTM Coordinates:	510718. 7147525		
Technique:	Swoffer Flow Meter	Left Bank	0.2
Temp., Water/Air (°C)	9.3/~15	Right Bank	6.3
Crossing Number	1	Wet.Width	6.1

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	6.30	0.150	0.00	0.00	0.000	0.0000
1	6.00	0.300	0.03	0.00	0.009	0.0000
2	5.70	0.300	0.04	0.25	0.012	0.0030
3	5.40	0.300	0.05	0.27	0.015	0.0041
4	5.10	0.300	0.06	0.22	0.017	0.0036
5	4.80	0.300	0.07	0.26	0.021	0.0055
6	4.50	0.300	0.08	0.32	0.023	0.0072
7	4.20	0.300	0.08	0.41	0.024	0.0098
8	3.90	0.300	0.09	0.38	0.027	0.0103
9	3.60	0.300	0.11	0.40	0.033	0.0132
10	3.30	0.300	0.12	0.43	0.036	0.0155
11	3.00	0.300	0.15	0.44	0.044	0.0191
12	2.70	0.300	0.18	0.45	0.054	0.0243
13	2.40	0.300	0.22	0.46	0.065	0.0297
14	2.10	0.300	0.23	0.55	0.069	0.0380
15	1.80	0.300	0.26	0.58	0.078	0.0452
16	1.50	0.300	0.28	0.57	0.084	0.0479
17	1.20	0.300	0.28	0.59	0.084	0.0496
18	0.90	0.300	0.29	0.40	0.087	0.0348
19	0.60	0.350	0.21	0.15	0.074	0.0110
20	0.20	0.200	0.00	0.00	0.000	0.0000
end	0.20					

Mean Depth (m)	0.13
Mean Velocity (m/s)	0.34

Discharge (m <sup>3</sup> /s)	0.3717
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### Stream Flow & Discharge Calculation

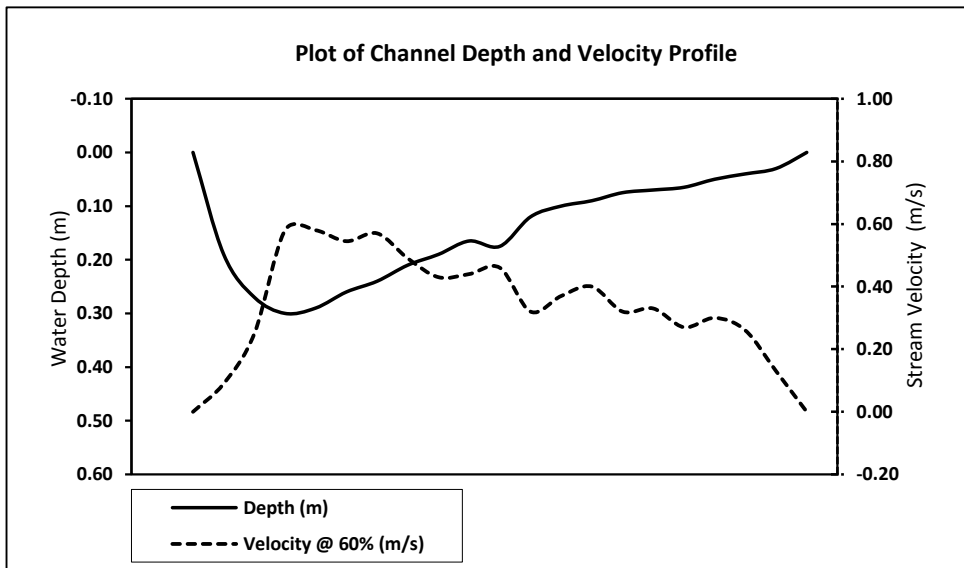


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Upper Clinton Creek		
Station Name:	R1		
Date and Time:	Jun.16/2016, 15:15		
Staff:	AN,CH		
UTM Coordinates:	510718. 7147525		
Technique:	Swoffer Flow Meter	Left Bank	0.2
Temp., Water/Air (°C)	9.3/~15	Right Bank	6.3
Crossing Number	2	Wet.Width	6.1

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.20	0.150	0.00	0.00	0.000	0.0000
1	0.50	0.300	0.19	0.09	0.057	0.0051
2	0.80	0.300	0.27	0.25	0.081	0.0203
3	1.10	0.300	0.30	0.58	0.090	0.0522
4	1.40	0.300	0.29	0.58	0.087	0.0505
5	1.70	0.300	0.26	0.55	0.078	0.0425
6	2.00	0.300	0.24	0.57	0.072	0.0410
7	2.30	0.300	0.21	0.49	0.063	0.0309
8	2.60	0.300	0.19	0.43	0.057	0.0245
9	2.90	0.300	0.17	0.44	0.050	0.0218
10	3.20	0.300	0.18	0.46	0.053	0.0242
11	3.50	0.300	0.12	0.32	0.036	0.0115
12	3.80	0.300	0.10	0.37	0.030	0.0111
13	4.10	0.300	0.09	0.40	0.027	0.0108
14	4.40	0.300	0.08	0.32	0.023	0.0072
15	4.70	0.300	0.07	0.33	0.021	0.0069
16	5.00	0.300	0.07	0.27	0.020	0.0053
17	5.30	0.300	0.05	0.30	0.015	0.0045
18	5.60	0.300	0.04	0.26	0.012	0.0031
19	5.90	0.350	0.03	0.13	0.011	0.0014
20	6.30	0.200	0.00	0.00	0.000	0.0000
end	6.30					

Mean Depth (m)	0.14
Mean Velocity (m/s)	0.34

Discharge (m <sup>3</sup> /s)	0.3747
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### Stream Flow & Discharge Calculation

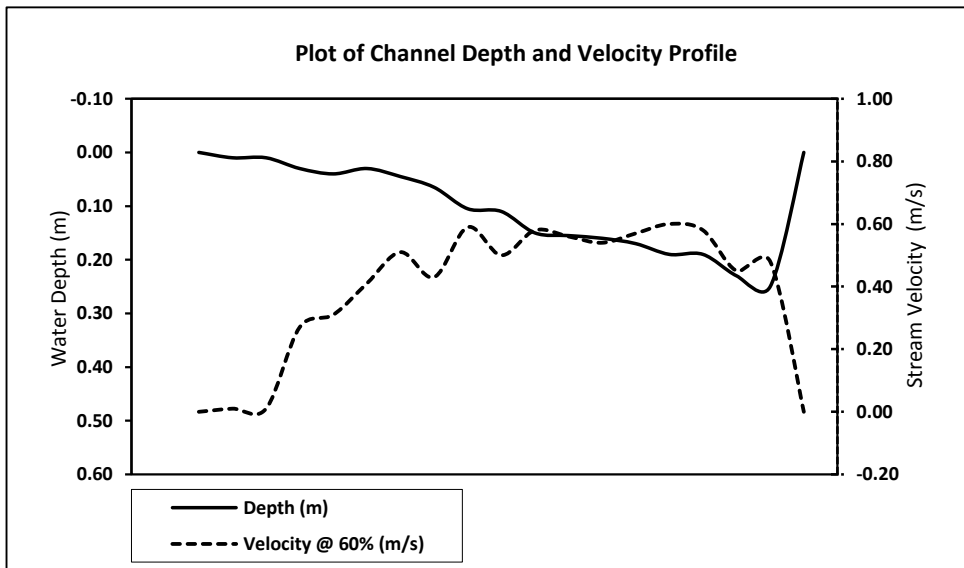


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Easter Creek		
Station Name:	R2		
Date and Time:	Jun.16/2016, 13:30		
Staff:	AN,CH		
UTM Coordinates:	512023. 7148061		
Technique:	Swoffer Flow Meter	Left Bank	2.1
Temp., Water/Air (°C)	6.9/~15	Right Bank	0.43
Crossing Number	1	Wet.Width	1.67

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.43	0.045	0.00	0.00	0.000	0.0000
1	0.52	0.090	0.01	0.01	0.001	0.0000
2	0.61	0.090	0.01	0.01	0.001	0.0000
3	0.70	0.090	0.03	0.27	0.003	0.0007
4	0.79	0.090	0.04	0.31	0.004	0.0011
5	0.88	0.090	0.03	0.41	0.003	0.0011
6	0.97	0.090	0.05	0.51	0.004	0.0021
7	1.06	0.090	0.07	0.43	0.006	0.0025
8	1.15	0.090	0.11	0.59	0.009	0.0056
9	1.24	0.090	0.11	0.50	0.010	0.0050
10	1.33	0.090	0.15	0.58	0.014	0.0078
11	1.42	0.090	0.16	0.56	0.014	0.0078
12	1.51	0.090	0.16	0.54	0.014	0.0078
13	1.60	0.090	0.17	0.57	0.015	0.0087
14	1.69	0.090	0.19	0.60	0.017	0.0103
15	1.78	0.090	0.19	0.58	0.017	0.0099
16	1.87	0.090	0.23	0.45	0.021	0.0093
17	1.96	0.115	0.25	0.48	0.029	0.0138
18	2.10	0.070	0.00	0.00	0.000	0.0000
end	2.10					

Mean Depth (m)	0.10
Mean Velocity (m/s)	0.39

Discharge (m <sup>3</sup> /s)	0.0935
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### Stream Flow & Discharge Calculation

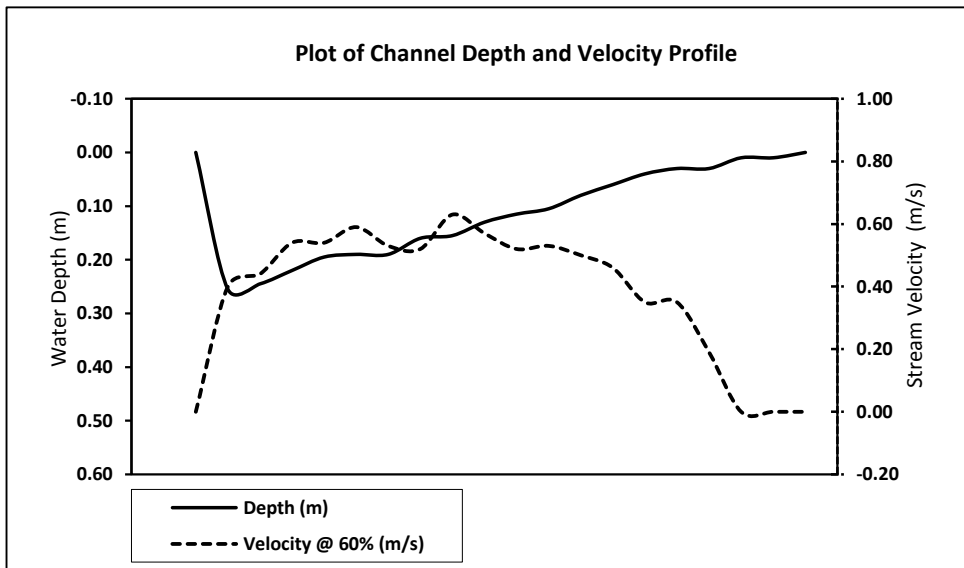


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Easter Creek		
Station Name:	R2		
Date and Time:	Jun.16/2016, 13:30		
Staff:	AN,CH		
UTM Coordinates:	512023. 7148061		
Technique:	Swoffer Flow Meter	Left Bank	2.1
Temp., Water/Air (°C)	6.9/~15	Right Bank	0.43
Crossing Number	1	Wet.Width	1.67

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	2.10	0.045	0.00	0.00	0.000	0.0000
1	2.01	0.090	0.26	0.40	0.023	0.0092
2	1.92	0.090	0.25	0.44	0.022	0.0097
3	1.83	0.090	0.22	0.54	0.020	0.0107
4	1.74	0.090	0.20	0.54	0.018	0.0095
5	1.65	0.090	0.19	0.59	0.017	0.0101
6	1.56	0.090	0.19	0.53	0.017	0.0091
7	1.47	0.090	0.16	0.52	0.014	0.0075
8	1.38	0.090	0.16	0.63	0.014	0.0088
9	1.29	0.090	0.13	0.57	0.012	0.0067
10	1.20	0.090	0.12	0.52	0.010	0.0054
11	1.11	0.090	0.11	0.53	0.009	0.0050
12	1.02	0.090	0.08	0.50	0.007	0.0036
13	0.93	0.090	0.06	0.46	0.005	0.0025
14	0.84	0.090	0.04	0.35	0.004	0.0013
15	0.75	0.090	0.03	0.35	0.003	0.0009
16	0.66	0.090	0.03	0.19	0.003	0.0005
17	0.57	0.100	0.01	0.00	0.001	0.0000
18	0.46	0.070	0.01	0.00	0.001	0.0000
19	0.43	0.015	0.00	0.00	0.000	0.0000
end	0.43					

Mean Depth (m)	0.11
Mean Velocity (m/s)	0.38

Discharge (m <sup>3</sup> /s)	0.1003
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### Stream Flow & Discharge Calculation

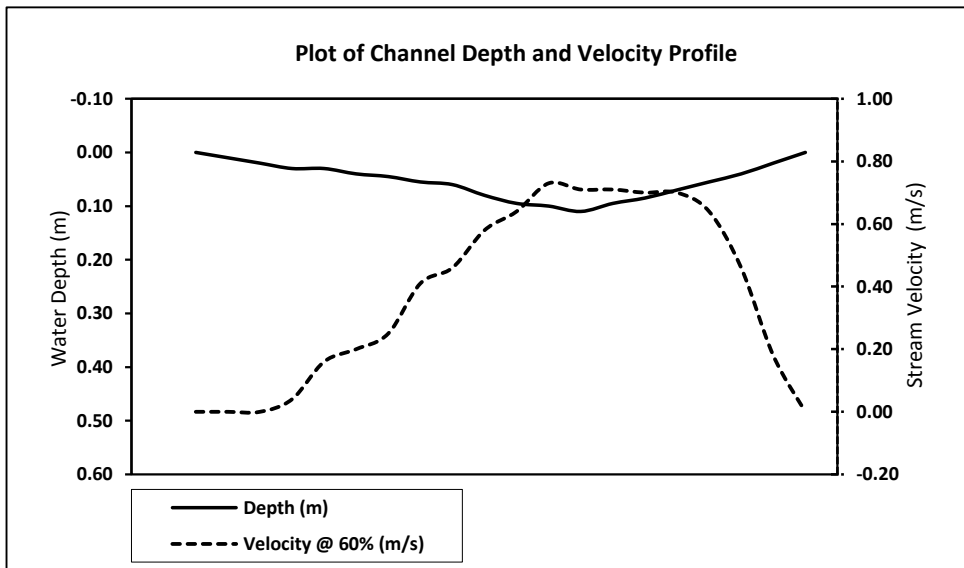


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Wolverine Creek		
Station Name:	R3		
Date and Time:	Jun.17/2016, 17:05		
Staff:	AN,CH		
UTM Coordinates:	513952. 7148677		
Technique:	Swoffer Flow Meter	Left Bank	0.4
Temp., Water/Air (°C)	9.6/~25	Right Bank	1.96
Crossing Number	1	Wet.Width	1.56

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	1.96	0.040	0.00	0.00	0.000	0.0000
1	1.88	0.080	0.01	0.00	0.001	0.0000
2	1.80	0.080	0.02	0.00	0.002	0.0000
3	1.72	0.080	0.03	0.04	0.002	0.0001
4	1.64	0.080	0.03	0.16	0.002	0.0004
5	1.56	0.080	0.04	0.20	0.003	0.0006
6	1.48	0.080	0.05	0.25	0.004	0.0009
7	1.40	0.080	0.06	0.41	0.004	0.0018
8	1.32	0.080	0.06	0.46	0.005	0.0022
9	1.24	0.080	0.08	0.58	0.006	0.0037
10	1.16	0.080	0.10	0.64	0.008	0.0049
11	1.08	0.080	0.10	0.73	0.008	0.0058
12	1.00	0.080	0.11	0.71	0.009	0.0062
13	0.92	0.080	0.10	0.71	0.008	0.0054
14	0.84	0.080	0.09	0.70	0.007	0.0048
15	0.76	0.080	0.07	0.70	0.006	0.0039
16	0.68	0.080	0.06	0.64	0.004	0.0028
17	0.60	0.080	0.04	0.46	0.003	0.0015
18	0.52	0.100	0.02	0.18	0.002	0.0004
19	0.40	0.060	0.00	0.00	0.000	0.0000
end	0.40					

Mean Depth (m)	0.05
Mean Velocity (m/s)	0.38

Discharge (m <sup>3</sup> /s)	0.0454
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### Stream Flow & Discharge Calculation

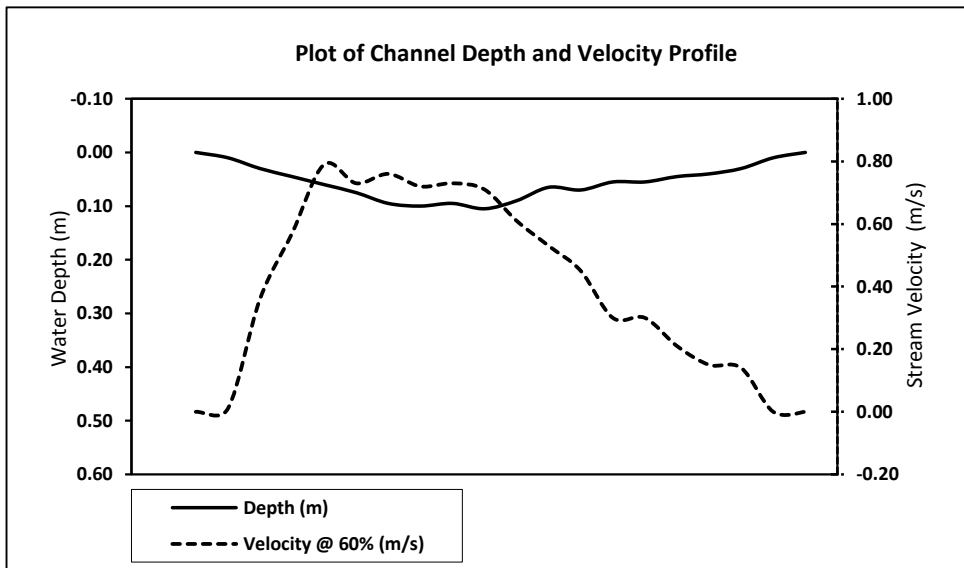


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Wolverine Creek		
Station Name:	R3		
Date and Time:	Jun.17/2016, 17:05		
Staff:	AN,CH		
UTM Coordinates:	513952. 7148677		
Technique:	Swoffer Flow Meter	Left Bank	0.4
Temp., Water/Air (°C)	9.6/~25	Right Bank	1.96
Crossing Number	1	Wet.Width	1.56

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.40	0.040	0.00	0.00	0.000	0.0000
1	0.48	0.080	0.01	0.01	0.001	0.0000
2	0.56	0.080	0.03	0.36	0.002	0.0009
3	0.64	0.080	0.05	0.57	0.004	0.0021
4	0.72	0.080	0.06	0.79	0.005	0.0038
5	0.80	0.080	0.08	0.73	0.006	0.0044
6	0.88	0.080	0.10	0.76	0.008	0.0058
7	0.96	0.080	0.10	0.72	0.008	0.0058
8	1.04	0.080	0.10	0.73	0.008	0.0055
9	1.12	0.080	0.11	0.71	0.008	0.0060
10	1.20	0.080	0.09	0.61	0.007	0.0044
11	1.28	0.080	0.07	0.53	0.005	0.0028
12	1.36	0.080	0.07	0.45	0.006	0.0025
13	1.44	0.080	0.06	0.30	0.004	0.0013
14	1.52	0.080	0.06	0.30	0.004	0.0013
15	1.60	0.080	0.05	0.21	0.004	0.0008
16	1.68	0.080	0.04	0.15	0.003	0.0005
17	1.76	0.080	0.03	0.14	0.002	0.0003
18	1.84	0.100	0.01	0.00	0.001	0.0000
19	1.96	0.060	0.00	0.00	0.000	0.0000
end	1.96					

Mean Depth (m)	0.05
Mean Velocity (m/s)	0.40

Discharge (m <sup>3</sup> /s)	0.0480
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### Stream Flow & Discharge Calculation

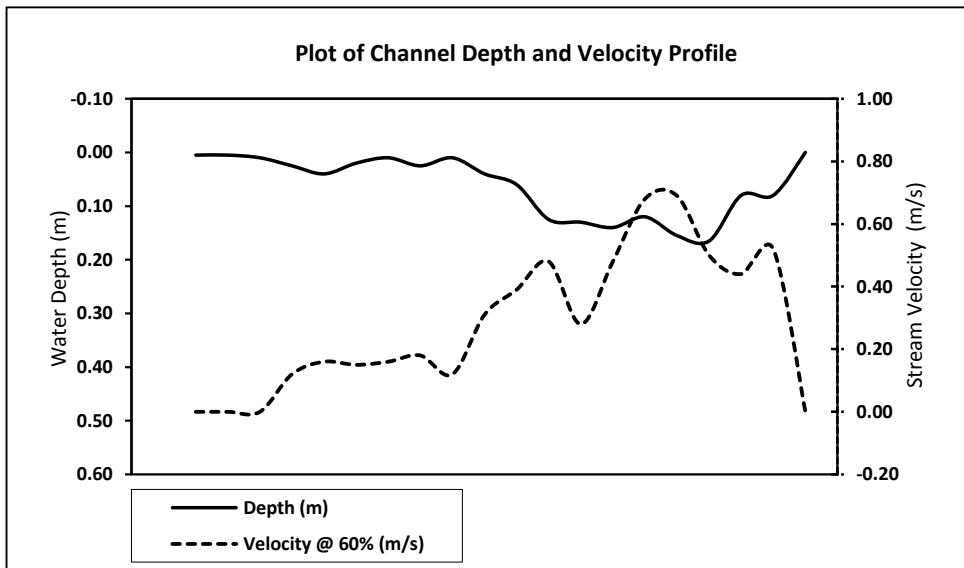


ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Eagle Creek		
Station Name:	R4		
Date and Time:	Jun.15/2016, 12:40		
Staff:	AN,CH		
UTM Coordinates:	515981. 7145344		
Technique:	Swoffer Flow Meter	Left Bank	0.24
Temp., Water/Air (°C)	5.2/~15	Right Bank	2.1
Crossing Number	1	Wet.Width	1.86

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	0.24	0.030	0.01	0.00	0.000	0.0000
1	0.30	0.080	0.01	0.00	0.000	0.0000
2	0.40	0.100	0.01	0.00	0.001	0.0000
3	0.50	0.100	0.03	0.12	0.003	0.0003
4	0.60	0.100	0.04	0.16	0.004	0.0006
5	0.70	0.100	0.02	0.15	0.002	0.0003
6	0.80	0.100	0.01	0.16	0.001	0.0002
7	0.90	0.100	0.03	0.18	0.003	0.0005
8	1.00	0.100	0.01	0.12	0.001	0.0001
9	1.10	0.100	0.04	0.31	0.004	0.0012
10	1.20	0.100	0.06	0.39	0.006	0.0023
11	1.30	0.100	0.13	0.48	0.013	0.0060
12	1.40	0.100	0.13	0.28	0.013	0.0036
13	1.50	0.100	0.14	0.48	0.014	0.0067
14	1.60	0.100	0.12	0.68	0.012	0.0082
15	1.70	0.100	0.16	0.69	0.016	0.0107
16	1.80	0.100	0.17	0.50	0.017	0.0083
17	1.90	0.100	0.08	0.44	0.008	0.0035
18	2.00	0.100	0.08	0.52	0.008	0.0042
19	2.10	0.050	0.00	0.00	0.000	0.0000
end	2.10					

Mean Depth (m)	0.06
Mean Velocity (m/s)	0.28

Discharge (m <sup>3</sup> /s)	0.0567
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### Stream Flow & Discharge Calculation



ELR Project No.	16-240.2		
Site / Location:	Clinton Creek Site		
Stream Name:	Eagle Creek		
Station Name:	R4		
Date and Time:	Jun.15/2016, 12:40		
Staff:	AN,CH		
UTM Coordinates:	515981. 7145344		
Technique:	Swoffer Flow Meter	Left Bank	0.24
Temp., Water/Air (°C)	5.2/~15	Right Bank	2.1
Crossing Number	2	Wet.Width	1.86

Station No.	Distance (m)	Station Width (m)	Depth (m)	Velocity @ 60% (m/s)	Panel Area (m <sup>2</sup> )	Panel Discharge (m <sup>3</sup> /s)
0	2.10	0.050	0.00	0.00	0.000	0.0000
1	2.00	0.100	0.08	0.51	0.008	0.0041
2	1.90	0.100	0.07	0.37	0.007	0.0026
3	1.80	0.100	0.14	0.50	0.014	0.0070
4	1.70	0.100	0.12	0.65	0.012	0.0078
5	1.60	0.100	0.14	0.70	0.014	0.0095
6	1.50	0.100	0.13	0.40	0.013	0.0052
7	1.40	0.100	0.14	0.29	0.014	0.0041
8	1.30	0.100	0.12	0.40	0.012	0.0048
9	1.20	0.100	0.08	0.37	0.008	0.0028
10	1.10	0.100	0.05	0.29	0.005	0.0013
11	1.00	0.100	0.01	0.22	0.001	0.0002
12	0.90	0.100	0.04	0.15	0.004	0.0006
13	0.80	0.100	0.02	0.11	0.002	0.0002
14	0.70	0.100	0.04	0.15	0.004	0.0005
15	0.60	0.100	0.04	0.12	0.004	0.0005
16	0.50	0.100	0.02	0.12	0.002	0.0002
17	0.40	0.100	0.01	0.05	0.001	0.0001
18	0.30	0.080	0.01	0.00	0.000	0.0000
19	0.24	0.030	0.00	0.00	0.000	0.0000
end	0.24					

Mean Depth (m)	0.06
Mean Velocity (m/s)	0.27

Discharge (m <sup>3</sup> /s)	0.0514
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